

2023B, Performed General Proposals

* SPring-8 Research Proposals in Complementary Use with SACLA, J-PARC/MLF or HPCI including the K computer / the supercomputer Fugaku

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
1	2023B1087	Negative Thermal Expansion in the intermetallic compounds YbFe ₄ Ge ₂	Jun Chen	University of Science and Technology Beijing	China	Foreign	Materials Science and Engineering	5.875	BL44B2	Np
2	2023B1095	Towards in situ investigation of the vibration structure of deuterated BaSnO ₃ proton conductor membrane	Artur Braun	Swiss Federal Institutes of Technology	Switzerland	Foreign	Materials Science and Engineering	14	BL35XU	Np
3	2023B1097	Demystifying the molecular mechanisms underlying dilated cardiomyopathy	Julien Ochala	University of Copenhagen	Denmark	Foreign	Life Science	9	BL40XU	Np
4	2023B1099	Structural characterization of ternary high-temperature superconducting superhydride CaXH ₁₂	Yanming Ma	Jilin University	China	Foreign	Materials Science and Engineering	9	BL10XU	Np
5	2023B1101	Atomic structure identification of silicon-terminated diamond interface for high-performance, low-power-consumption diamond power devices to elucidate the electronic structure of the interface.	Mami Fujii	Kindai University	Japan	Educational Organization	Materials Science and Engineering	9	BL25SU	Np
6	2023B1102*	Structure of Choline Chloride Based Calcium/Magnesium Chloride Hydrates Deep Eutectic Solvents	Yongquan Zhou	Chinese Academy of Sciences	China	Foreign	Chemical Science	6	BL04B2	Np
7	2023B1103	Chemical species and dissolution of heavy metals in the deep soil profile collected from Kanto Plain	Yohey Hashimoto	Tokyo University of Agriculture and Technology	Japan	Educational Organization	Environmental Science	6	BL37XU	Np
8	2023B1107	Structural analysis of BaTi ₂ O ₅ and La ₄ Ti ₉ O ₂₄ liquid	Yuta Shuseki	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL04B2	Np
9	2023B1108	Silicate dynamo hypothesis revealed by electrical conductivity measurements of dense magma at high pressures and temperatures	Yoshiyuki Okuda	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	3	BL10XU	Np
10	2023B1110	Micro mid-infrared spectroscopy of possible cometary dust particles recovered from Antarctic snow	Takaaki Noguchi	Kyoto University	Japan	Educational Organization	Earth and Planetary Science	6	BL43IR	Np
11	2023B1112	Evaluation of ordered arrangement for luminophore in the chiral silica thin film	Tomoyasu Hirai	Osaka Institute of Technology	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
12	2023B1113	Crystal structure of ZrFe ₂	Yili Cao	University of Science and Technology Beijing	China	Foreign	Materials Science and Engineering	3	BL44B2	Np
13	2023B1114	Development of charge-ordered dimerized phase in spinel compound Cu ₁ r ₂ S ₄ under pressure and X-ray irradiation effect	NAOYUKI KATAYAMA	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	9	BL10XU	Np
14	2023B1115	Shear deformation and the structural change in aluminosilicate glasses	Akihiro Yamada	University of Shiga Prefecture	Japan	Educational Organization	Materials Science and Engineering	9	BL04B1	Np
15	2023B1116	Structural change in aluminosilicate glasses with shear deformation and the mechanism of shear flo	Akihiro Yamada	University of Shiga Prefecture	Japan	Educational Organization	Materials Science and Engineering	5.625	BL04B2	Np
16	2023B1117	In-situ scattering study of the liquid-liquid phase transition and its connection with crystallization of Cu-Zr-Al-X bulk metallic glasses	Haoran Jiang	Shanghai University	China	Foreign	Materials Science and Engineering	10	BL08W	Np
17	2023B1119	The investigation of structural phase transition effect on the metalization in a new transition metal trihalide: RhI ₃ under pressure	Qing Dong	Seoul National University	Korea	Foreign	Materials Science and Engineering	3	BL10XU	Np
18	2023B1120	Orientation Behaviour of PLA/Natural Rubber Dynamic Cross-linked Blend Resins under Stretching Using X-ray Scattering Measurements	Hiroshi Uyama	Osaka University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
19	2023B1122	Mechano-responsive hydrogels driven by host-guest complex as a molecular switch, and analysis of their mechanism of cloudiness and network structure using X-ray Scattering Measurements	Akihide Sugawara	Osaka University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
20	2023B1123	Precise analysis of internal aggregation structure of perfluorosulfonate ionomer nanofibers: effect of thinner diameter	Hidetoshi Matsumoto	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
21	2023B1124	Nanoparticle formation behavior of temperature-responsive polymers over a wide concentration range	Ken Terao	Osaka University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
22	2023B1125	Dissociation-Association Dynamics of Double Helices of the Multi-Helical Polymer Xanthan in Aqueous Solution	Ken Terao	Osaka University	Japan	Educational Organization	Chemical Science	3	BL40B2	Np
23	2023B1127	Structure Analysis of Dodecagonal Quasicrystalline Tiling from Pentablock Quarterpolymer of the AB ₁ CB ₂ D Type	Yushu Matsushita	Toyota Physical and Chemical Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL40XU	Np
24	2023B1128	soil phosphate accumulation in relation to its chemical speciation	Yohey Hashimoto	Tokyo University of Agriculture and Technology	Japan	Educational Organization	Environmental Science	6	BL27SU	Np
25	2023B1129	Quantitative study on magma fracturing and microstructural change	Satoshi Okumura	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	10	BL47XU	Np

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26	2023B1131	X-ray PDF analysis on ISCAI	Shigeki Arai	National Institutes for Quantum Science and Technology	Japan	National and Nonprofit Organization	Life Science	3	BL44B2	Np
27	2023B1134	Precise SAXS analysis of double-primitive cocontinuous microphase-separated structures formed by ABC triblock terpolymers.	Atsushi Takano	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
28	2023B1135	Effect of an external electric field on crystallization behavior of cocoa butter	Haruhiko Koizumi	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	8.625	BL40XU	Np
29	2023B1136	Structural Analysis of Metal-Catalyst-loaded pH-Responsive Graft Polymer Assemblies by SAXS measurements	Tomoki Nishimura	Shinshu University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
30	2023B1137	Correlation between specific thermal conductivity and dynamic structure of native spider silks	Yui Tsuji	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL35XU	Np
31	2023B1138	Elastic wave velocity measurement of lunar pyroxene aggregate at high pressure and high temperature conditions	Yoshio Kono	Ehime University	Japan	Educational Organization	Earth and Planetary Science	6	BL04B1	Np
32	2023B1139	Effect of iron content on the oxidation state of iron in peridotitic magmas	Yoshio Kono	Ehime University	Japan	Educational Organization	Earth and Planetary Science	3	BL27SU	Np
33	2023B1140	Determination of the liquidus temperature of the mantle based on fast time-resolved XRD data	Kei Hirose	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	12	BL10XU	Np
34	2023B1141	FT-IR spectroscopic analysis of cellulose nano-fiber processed regenerated cellulose fiber to improve its properties against humidity.	Go Matsuba	Yamagata University	Japan	Educational Organization	Chemical Science	18	BL43IR	Np
35	2023B1142	In-situ X-ray analysis for photoisomerization of a dihydrodimethylbenzopyrene-based hydrogen-bonded organic framework (HOF)	Ichiro Hisaki	Osaka University	Japan	Educational Organization	Chemical Science	12	BL40XU	Np
36	2023B1143	Effect of Temperature on Degradation Behavior of Iron Ore Pellet Reduced by Hydrogen and Evaluation of its Mechanism	Taichi Murakami	Tohoku University	Japan	Educational Organization	Industrial Applications	6	BL28B2	Np
37	2023B1144	Gene transfer therapy to prevent the onset of coronary microcirculatory dysfunction in diabetic mice	James Pearson	National Cerebral and Cardiovascular Center	Japan	National and Nonprofit Organization	Medical Applications	15	BL20B2	Np
38	2023B1145	Phosphorus doping the sulfur-hydrogen system at extreme conditions	Ross Howie	University of Edinburgh	UK	Foreign	Materials Science and Engineering	9	BL10XU	Np
39	2023B1147	Effect of X-Ray Irradiation on Local Structure of Spinel Compounds with Charge Degrees of Freedom	NAOYUKI KATAYAMA	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	12	BL04B2	Np
40	2023B1148	Development of analytical method for elucidating distribution of drugs in mixed power, hair and fingerprint	Yasuo Seto	RIKEN	Japan	National and Nonprofit Organization	Other	15	BL43IR	Np
41	2023B1149	Soften phonon and Nematicity in doped BaNi2As2	Youzhe Chen	University of California, Berkeley	USA	Foreign	Materials Science and Engineering	16.125	BL35XU	Np
42	2023B1150	Morphological study of Javanese Homo erectus fossils by high-resolution X-ray micro-CT	Yousuke Kaifu	The University of Tokyo	Japan	Educational Organization	Life Science	9	BL28B2	Np
43	2023B1152	Development of forensic discrimination method for seized stimulants by micro-distribution analysis and chemical speciation of trace inorganic elements	Yasuo Seto	RIKEN	Japan	National and Nonprofit Organization	Other	9	BL37XU	Np
44	2023B1153	Revealing the protection mechanism of coating layers inserted at electrode/solid electrolyte interface in solid state batteries using operando depth resolved soft X-ray absorption spectroscopy	Yuta Kimura	Tohoku University	Japan	Educational Organization	Chemical Science	12	BL27SU	Np
45	2023B1154	Analysis of dispersion state of platy colloidal particles using silica sol-gel reaction	Shingo Machida	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	8.875	BL20XU	Np
46	2023B1155	Effect of Solid Fraction on Cracking in Semi-Solid Cu Alloys	Tomohiro Nishimura	Kobe Steel, Ltd.	Japan	Industry	Industrial Applications	6	BL20B2	Np
47	2023B1156	Dynamic Analysis of Hydrogen-Induced Defects Formed on the Surface of Light Metal Surfaces Using X-ray μ CT and Hydrogen Detection	Keitaro Horikawa	Osaka University	Japan	Educational Organization	Materials Science and Engineering	6	BL20B2	Np
48	2023B1158	Observation of hydration behavior of thermoresponsive polymer brush modified interfaces by infrared spectroscopic analysis	Kenichi Nagase	Keio University	Japan	Educational Organization	Materials Science and Engineering	6	BL43IR	Np
49	2023B1159	High temperature in-situ identification of phase transition of dicalcium silicate solid solution crystal precipitated from molten steelmaking slag using high energy X-ray diffraction	Masanori Suzuki	Osaka University	Japan	Educational Organization	Materials Science and Engineering	5.875	BL04B2	Np
50	2023B1160	Study on the correspondence of L-XAS structure with multiplets by partial 2p3d-RIXS yield analyses for 3d-transition metals (II)	Saki Imada	Kyoto Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	15	BL27SU	Np

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51	2023B1161	Synchronized time-resolved CT and XRD observation of the solidification and phase transformation sequences of 2nd generation TiAl-based casting alloys	Ryoji Katsube	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL47XU	Np
52	2023B1162	Precise analysis of stretched film using ATR-IR method	Go Matsuba	Yamagata University	Japan	Educational Organization	Chemical Science	12	BL43IR	Np
53	2023B1163	Structural study on transition metal-containing zeolites by pair distribution function analysis	Shinya Hosokawa	Kumamoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL04B2	Np
54	2023B1164	Investigation of Hydration Behaviors of Functional Nanoparticles for Application to DDS	Chie Kojima	Osaka Metropolitan University	Japan	Educational Organization	Chemical Science	6	BL43IR	Np
55	2023B1165	Microsecond transmission X-ray imaging for revealing the mechanism of flow cavitation defibrillation	Wataru Yashiro	Tohoku University	Japan	Educational Organization	Environmental Science	24	BL28B2	Np
56	2023B1167	Investigation of the antiferromagnetic domain structure and microscopic magnetoelectric coupling in BiFeO3 nanoislands with topological domain structure	Ji Ma	Kunming University of Science and Technology	China	Foreign	Materials Science and Engineering	8.625	BL17SU	Np
57	2023B1169	Development of a precision biaxial synchronous 4D X-ray CT system for observation of weakly adhered interface fracture	Wataru Yashiro	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	18	BL28B2	Np
58	2023B1170	Rapid X-ray Single Crystal Structure Analysis of BN-Embedded Nanocarbon Molecules	Takuji Hatakeyama	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL40XU	Np
59	2023B1172	Time evolution of structures created by crystal-bearing bubbly magma upon melting	Atsuko Namiki	Nagoya University	Japan	Educational Organization	Earth and Planetary Science	15	BL20B2	Np
60	2023B1173	Anisotropic magnon-phonon couplings in van der Waals honeycomb ferromagnet CrGeTe3	JaeHo Chung	Korea University	Korea	Foreign	Materials Science and Engineering	18	BL35XU	Np
61	2023B1174	Structural analysis of polymer nanocomposites consisting of chain-like silica nanoparticles	Rintaro Takahashi	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
62	2023B1175	High-spatio-temporal-resolution operando 3D imaging of chemo-mechanical failures in Li-ion battery cathode materials using imaging nano CT-QXAFS	Yuta Kimura	Tohoku University	Japan	Educational Organization	Chemical Science	18	BL37XU	Np
63	2023B1177	Microscopic phase transition of a lipid membrane induced by Marangoni instability -Toward understanding the Raft model-	Yohko Yano	Kindai University	Japan	Educational Organization	Chemical Science	9	BL37XU	Np
64	2023B1178	Identification of intracellular concentration and distribution of elements in phytoplankton using soft X-ray ptychography	Taketoshi Kodama	The University of Tokyo	Japan	Educational Organization	Environmental Science	15	BL07LSU	Np
65	2023B1179	Local structure analysis of novel ionic conductors from X-ray total scattering data	Kotaro Fujii	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL04B2	Np
66	2023B1180	Direct observation of ion distribution in an electric double layer by means of scanning X-ray microscopy	Shimpei Ono	Central Research Institute of Electric Power Industry	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL17SU	Np
67	2023B1182	Superconducting phase above 210 K in Ca-H system at above 200 GPa conditions	Arthur Haozhe Liu	Center for High Pressure Science and Technology Advanced Research	China	Foreign	Materials Science and Engineering	6	BL10XU	Np
68	2023B1183	Experimental constrain on the effect of partial melt on the mantle velocities across the 410-km depth discontinuity.	Steeve Greaux	Ehime University	Japan	Educational Organization	Earth and Planetary Science	8.875	BL04B1	Np
69	2023B1185	Correlation between stress-strain behavior and phase structure of polyurethanes having different molecular symmetries	Hiroki Uehara	Gunma University	Japan	Educational Organization	Materials Science and Engineering	12	BL40XU	Np
70	2023B1186	Structural analysis for the lanthanide ferromagnet Tb at low temperatures and high pressures.	Masaki Mito	Kyushu Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL10XU	Np
71	2023B1187	Nanometer-scale 3D analysis of human brain tissues of autopsy cases in the United States	Ryuta Mizutani	Tokai University	Japan	Educational Organization	Life Science	20.625	BL47XU	Np
72	2023B1189	Operando X-ray fluorescence spectroscopic study on cerium ion distribution in operating condition of fuel cell vehicles	Yuki Orikasa	Ritsumeikan University	Japan	Educational Organization	Chemical Science	8	BL37XU	Np
73	2023B1192	Effects of grain boundaries with different phases on seismic wave attenuation by short-period cyclic loading experiments	Takashi Yoshino	Okayama University	Japan	Educational Organization	Earth and Planetary Science	9	BL04B1	Np
74	2023B1193	Study on the effect of water saturation of hardened cement around steel rebar in concrete on corrosion rate	Hayato Takahashi	Tokyo University of Science	Japan	Educational Organization	Industrial Applications	18	BL28B2	Np
75	2023B1194	Operando micro X-ray fluorescence spectroscopy analysis of the dissolution mechanism of fuel cell radical quenchers	Yuki Orikasa	Ritsumeikan University	Japan	Educational Organization	Chemical Science	7	BL37XU	Np

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76	2023B1197	Understanding of Amorphous Aluminosilicate Ordering in Hydrothermal Synthesis Using Relative PDF Analysis	Toru Wakihara	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	18	BL08W	Np
77	2023B1198	The structure-activity relationship of ultrathin layered double hydroxides for photocatalytic CO2 reduction	Shik Chi Tsang	University of Oxford	UK	Foreign	Chemical Science	9	BL04B2	Np
78	2023B1199	Computer-aided analysis of intermediate-range ordered structure of amorphous aluminosilicates using high-throughput PDF measurement instrument	Toru Wakihara	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	18	BL04B2	Np
79	2023B1200	Development of a synthetic strategy of silver nanoclusters based on networking crystallization and their structural analyses	Yuya Domoto	Gunma University	Japan	Educational Organization	Chemical Science	6	BL26B1	Np
80	2023B1201	Elucidation of unique solidification behavior during arc welding using X-ray imaging	Tomoya Nagira	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL20XU	Np
81	2023B1202	Lattice dynamics and low-energy anharmonic phonon modes of thermoelectric silver chalcogenides	Jiawei Zhang	Chinese Academy of Sciences	China	Foreign	Materials Science and Engineering	12	BL43LXU	Np
82	2023B1204	Exploring far-infrared phonons interacting to the proton in M ₃ H(SO ₄) ₂ (M = K, Rb) and molecular porous crystals	Hiroshi Matsui	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	5	BL43IR	Np
83	2023B1205	Study on effect of moisturizer based upon the structural modification of stratum comeum with its application. 6.—Effects on the same stratum comeum of repeated wetting and drying—	Kenji Murashima	SAKAMOTO YAKUHHIN KOGYO CO., LTD	Japan	Industry	Industrial Applications	5.625	BL40B2	Np
84	2023B1206	Structural analysis on action mechanism of nucleating agents for biodegradable polymer materials	Masahiro Fujita	RIKEN	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL40B2	Np
85	2023B1207	Study of the anisotropy of local dynamics of rubber under deformation by quasielastic gamma-ray scattering.	Ryo Mashita	Sumitomo Rubber Industries, Ltd.	Japan	Industry	Industrial Applications	18	BL35XU	Np
86	2023B1208	Detailed observation of fracture phenomenon of rubber by X-ray nano-CT based on a full-field x-ray microscope.	Ryo Mashita	Sumitomo Rubber Industries, Ltd.	Japan	Industry	Industrial Applications	9	BL20XU	Np
87	2023B1209	Extension rate dependence of fracture process of rubber by fast four-dimensional X-Ray CT imaging.	Ryo Mashita	Sumitomo Rubber Industries, Ltd.	Japan	Industry	Industrial Applications	8.875	BL28B2	Np
88	2023B1211	Structural Analysis of Biomimetic Foldamers Responsive to External Environment	Aya Tanatani	Ochanomizu University	Japan	Educational Organization	Chemical Science	5.5	BL26B1	Np
89	2023B1212	Origin and evolution of the asteroid Ryugu revealed by multi-element, multi-point chemical species analysis	Ryoichi Nakada	Japan Agency for Marine-Earth Science and Technology	Japan	National and Nonprofit Organization	Earth and Planetary Science	12	BL27SU	Np
90	2023B1213	In vivo X-ray diffraction studies of skeletal muscle proteins in malignant hyperthermia disease model mice during thermogenesis - 2	Madoka Suzuki	Osaka University	Japan	Educational Organization	Life Science	8.625	BL40XU	Np
91	2023B1214	Synchrotron X-ray CT observation of the shrinkage and elimination process of defects in products during ceramic 3D additive manufacturing	Gaku Okuma	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL20XU	Np
92	2023B1215	Observation of lattice dynamics in layered vanadium chalcogenides by time-resolved X-ray diffraction using single crystals	NAOYUKI KATAYAMA	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	8.875	BL36XU	Np
93	2023B1216	Material analysis to discuss the provenance of the stone statue found in the area where underground Christians were being exiled	Sumiaki Nakano	Nara Prefectural Nara Senior High School	Japan	Educational Organization	Other	3	BL20XU	Np
94	2023B1218	3D/4D analysis of hydrogen embrittlement behavior of grain boundary engineered material using multimodal imaging technique	Kyosuke Hirayama	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL20XU	Np
95	2023B1221	Rapid measurement of unstable organometallic complexes and lanthanide porous coordination polymers	Kosuke Katagiri	Konan University	Japan	Educational Organization	Chemical Science	6	BL26B1	Np
96	2023B1222	Elucidation of the Singular Deformation and Fracture Mechanism and Compositional Optimization of 5xxx/7xxx Crossover Aluminum Alloys	Kazuyuki Shimizu	Iwate University	Japan	Educational Organization	Materials Science and Engineering	9	BL20XU	Np
97	2023B1224*	In situ PDF analysis of solid electrolytes under heated conditions using a high-throughput PDF measurement system	Hiroki Yamada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL04B2	Np
98	2023B1225	Specific adsorption of water in nanoporous supramolecular structures and the dynamic behaviors characterized by polarized infrared micro-spectrometry	Shinichiro Kawano	Nagoya University	Japan	Educational Organization	Chemical Science	3	BL43IR	Np
99	2023B1226	Micro-Single-Crystal X-ray Structure Analysis of Flexible Multimolecular Assemblies: Structure Determination of Multi-Solvent Inclusion Organic Compounds	Hikaru Takaya	TEIKYO University of Science	Japan	Educational Organization	Chemical Science	6	BL40XU	Np
100	2023B1227	Study on Mott transition near Kitaev spin liquid by means of infrared spectroscopy	Kenya Ohgushi	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	12	BL43IR	Np

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101	2023B1229	In situ deformation experiments on olivine aggregates under the pressure-temperature conditions of subducting slabs	Tomohiro Ohuchi	Ehime University	Japan	Educational Organization	Earth and Planetary Science	11.875	BL04B1	Np
102	2023B1230	Experimental investigation on rheology of the materials constituting the lowermost lower mantle	Daisuke Yamazaki	Okayama University	Japan	Educational Organization	Earth and Planetary Science	12	BL04B1	Np
103	2023B1232	Dimensional properties of cyclic and linear poly(phenoxy propylene sulfide)s in solution	Akiyuki Ryoki	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL40B2	Np
104	2023B1233	Operando X-ray CT study on sodium ion intercalation to hard carbon particle	Yuki Orikasa	Ritsumeikan University	Japan	Educational Organization	Chemical Science	5.875	BL47XU	Np
105	2023B1234	Yb ionic state and dynamics of valence fluctuations in Au-Al-Yb 1/1 approximant under multi-extreme conditions studied by synchrotron-radiation-based 174Yb Mössbauer spectroscopy	Hisao Kobayashi	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	18	BL35XU	Np
106	2023B1235	Development of retrospective gating 4D-CT for timelapse measurement of lung tissue strain	Toshihiro Sera	Tokyo University of Science	Japan	Educational Organization	Medical Applications	6	BL20B2	Np
107	2023B1236	Effects of a truncated myosin binding protein-C mutant on cardiac cross-bridge dynamics in young hypertrophic cardiomyopathy model rats	James Pearson	National Cerebral and Cardiovascular Center	Japan	National and Nonprofit Organization	Medical Applications	12	BL40XU	Np
108	2023B1237*	Structure of alumina glass with hyper local ordering	Hideki Hashimoto	Kogakuin University	Japan	Educational Organization	Materials Science and Engineering	5.875	BL04B2	Np
109	2023B1238	Development of high-pressure high-temperature solid-state quantum sensing technology for pioneering nanoscale material science under extreme conditions	Keigo Arai	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL10XU	Np
110	2023B1239	Mechanism of ductility change for short-time heat treatment in aluminum alloy die-cast	Masakazu Kobayashi	Toyohashi University of Technology	Japan	Educational Organization	Materials Science and Engineering	11.75	BL20XU	Np
111	2023B1242	Conditions for formation of metastable Ca-rich bridgmanite	Masayuki Nishi	Osaka University	Japan	Educational Organization	Earth and Planetary Science	18	BL04B1	Np
112	2023B1244	Degradation Mechanism of Cathode Materials for Lithium-Sulfur Batteries by Operando Tender X-ray Spectroscopic Ptychography	Yukio Takahashi	Tohoku University	Japan	Educational Organization	Chemical Science	15	BL27SU	Np
113	2023B1245	Nanoscale geo-spatiotemporal microbiology: visualization of environmental microbes	Yuki Morono	Japan Agency for Marine-Earth Science and Technology	Japan	National and Nonprofit Organization	Earth and Planetary Science	6	BL47XU	Np
114	2023B1246*	Elucidation of Formation Mechanism of Complex Glasses during Mechanochemical Reactions by Cooperation of in-situ PDF approach and Machine Learning Structural Modeling	Hiroki Yamada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL08W	Np
115	2023B1247	Structural Analyses of Semiconducting Coordination Polymer Glass and Liquid Synthesized by Machine Learning Techniques	Daisuke Tanaka	Kwansei Gakuin University	Japan	Educational Organization	Chemical Science	6	BL04B2	Np
116	2023B1248	Liquid density of FeHx at Earth's core conditions	Suyu Fu	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	6	BL10XU	Np
117	2023B1249*	Atomic-configuration modeling of MgFe2O4-based nanoparticle as a positive-electrode material for a Mg rechargeable battery	Naoto Kitamura	Tokyo University of Science	Japan	Educational Organization	Chemical Science	6	BL04B2	Np
118	2023B1250	Uranium distribution in intestinal tissues	Haruko Yakumaru	National Institutes for Quantum Science and Technology	Japan	National and Nonprofit Organization	Medical Applications	8.625	BL20B2	Np
119	2023B1251	Development of wide energy range time-resolved imaging type CT-XAFS measurement method.	Oki Sekizawa	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	9	BL37XU	Np
120	2023B1255	Improvement of cathode properties of spinel-type Mg(Mn, Co)2O4 nanoparticles by Al substitution and the local structures	Yasushi Idemoto	Tokyo University of Science	Japan	Educational Organization	Chemical Science	8.625	BL04B2	Np
121	2023B1256	Structural analyses of chiral 2-dimensional network composed of organic molecules with D3 symmetry	Toshiya Fukunaga	The University of Tokyo	Japan	Educational Organization	Chemical Science	6	BL26B1	Np
122	2023B1257	Microscope FTIR analysis of spatial distribution of water molecules in deep-sea hydrothermal vent minerals-2	Kiyohiro Adachi	RIKEN	Japan	National and Nonprofit Organization	Earth and Planetary Science	8.625	BL43IR	Np
123	2023B1258	Analyses of cesium absorption and distribution in intestine	Haruko Yakumaru	National Institutes for Quantum Science and Technology	Japan	National and Nonprofit Organization	Medical Applications	9	BL37XU	Np
124	2023B1259	High-resolution analysis of ciliary structure and motility mechanism by X-ray fiber diffraction of ctenophore comb plate	Kazuo Inaba	University of Tsukuba	Japan	Educational Organization	Life Science	18	BL40XU	Np

2023B, Performed General Proposals

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1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
125	2023B1261	Time resolved analysis of amorphous structure at the vicinity of polymerization induced vitrification	Yasuhito Suzuki	Osaka Metropolitan University	Japan	Educational Organization	Chemical Science	3	BL08W	Np
126	2023B1262	High-resolution Compton Scattering Study of Temperature Dependence of Fermi Surfaces in High-Tc Cuprate Superconductors	Hiroyuki Yamase	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	29.625	BL08W	Np
127	2023B1264	Visualizing the combustion process in a model engine (2)	Yoshiharu Sakurai	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Environmental Science	12	BL08W	Np
128	2023B1266	Hierarchical structure change during stretching crystallization for polymers with nodular crystalline structures	Takashi Konishi	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	5.875	BL40B2	Np
129	2023B1267	Structural change due to heat treatment of gallium oxide layer formed at the interface between gate insulating film and GaN	Mutsunori Uenuma	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	8.875	BL25SU	Np
130	2023B1269	Angular momentum-selective phonon decay in van der Waals ferromagnetic CrGeTe ₃	Lebing Chen	University of California, Berkeley	USA	Foreign	Materials Science and Engineering	11.875	BL43LXU	Np
131	2023B1270	Determination of stability and water solubility of hydrous CaSiO ₃ davemaoite based on high pressure-temperature volume measurements up to 50 GPa	Takayuki Ishii	Okayama University	Japan	Educational Organization	Earth and Planetary Science	12	BL04B1	Np
132	2023B1271	Structural investigation of doped rare-earth hydrides at high pressure and temperature	Mohana Shivanna	Sandia National Laboratories	USA	Foreign	Materials Science and Engineering	9	BL10XU	Np
133	2023B1272	Enhancing in-vivo delivery and control of magnetic nanoparticles in airways for successful lung gene therapy	Martin Donnelley	University of Adelaide / Women's and Children's Hospital	Australia	Foreign	Medical Applications	12	BL20XU	Np
134	2023B1273	Superconducting phases determination in element Ti and Sc at around 20 K - 30K and 200 GPa conditions	Arthur Haozhe Liu	Center for High Pressure Science and Technology Advanced Research	China	Foreign	Materials Science and Engineering	9	BL10XU	Np
135	2023B1274	Detailed Analysis of Cathode Reaction in Lithium-Air Battery through Operando Nano CT-XRD Measurements	Toshihiro Kondo	Ochanomizu University	Japan	Educational Organization	Chemical Science	3	BL20XU	Np
136	2023B1276	Evaluation of the electronic states for boron-doped Q-carbon by means of soft X-ray photoemission spectroscopy	Yuji Muraoka	Okayama University	Japan	Educational Organization	Materials Science and Engineering	9	BL25SU	Np
137	2023B1277	Stability and structural evolution of defect-trapped clusters in Y-abundant MgY ₂ Zn dilute alloys	Hiroshi Okuda	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL40B2	Np
138	2023B1278*	Unraveling the intermediate-range order in sulfide network glasses	Yohei Onodera	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL04B2	Np
139	2023B1280	High-speed simultaneous measurement of electrical resistivity and X-ray diffraction data of liquid iron alloys to elucidate the conduction properties of terrestrial planet cores	Kenji Ohta	Tokyo Institute of Technology	Japan	Educational Organization	Earth and Planetary Science	12	BL10XU	Np
140	2023B1281	High temperature diffraction study of Dy, Er, and Sm sesquioxides systems	Sergey Ushakov	Arizona State University	USA	Foreign	Materials Science and Engineering	6	BL04B2	Np
141	2023B1282	Extreme static pressure generation above 500 GPa (IV)	Takeshi Sakai	Ehime University	Japan	Educational Organization	Earth and Planetary Science	8.625	BL10XU	Np
142	2023B1283	Mode of action of topical formulation components based on functional group characteristics in infrared spectroscopy	Yasuko Obata	Hoshi University	Japan	Educational Organization	Life Science	12	BL43IR	Np
143	2023B1284	Structural analysis of the 2Fe-2S cluster in Ferredoxin using X-ray fluorescence holography	Hideaki Tanaka	Osaka University	Japan	Educational Organization	Life Science	14.625	BL37XU	Np
144	2023B1287	Investigation of local structure around defect dipoles in single-domain ferroelectric crystals by X-ray fluorescence holography	Hiroki Matsuo	Kumamoto University	Japan	Educational Organization	Materials Science and Engineering	12	BL47XU	Np
145	2023B1288	Determination of Atomic Site of Adsorbed Alkali Metal Dopants Affecting the T _c of Bi-based Copper Oxide High-Tc Superconductors using a Display-type Retarding Field Analyzer (RFA)	Chikako Sakai	Nara Institute of Science and Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL25SU	Np
146	2023B1289	Development of high-resolution X-ray imaging detector with 100mm field of view and its application to high-energy X-ray micro-imaging	Masato Hoshino	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	11.875	BL20B2	Np
147	2023B1290	Direct observations of hydrogen-induced local structures by photoelectron holography	Daisuke Kan	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	12	BL25SU	Np

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S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
148	2023B1291	Deformation experiments on post-spinel with eutectoid texture under top lower mantle conditions	Fang Xu	Zhejiang University	China	Foreign	Earth and Planetary Science	11.875	BL04B1	Np
149	2023B1293	Determination of the eutectic points for ternary Fe-alloys under high pressure: towards understanding of the mixing properties of planetary core liquids	Tetsuya Komabayashi	University of Edinburgh	UK	Foreign	Earth and Planetary Science	6	BL10XU	Np
150	2023B1294	Study on internal structures and pH-response of RNA-loaded lipid nanoparticles using novel cationic lipids	Isamu Akiba	The University of Kitakyushu	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
151	2023B1295	Phase transition and structural disorder of thermoelectric argyrodites	Jiawei Zhang	Chinese Academy of Sciences	China	Foreign	Materials Science and Engineering	6	BL44B2	Np
152	2023B1296	Structure and electronic state analyses of supramolecular silver nanocluster network and the elucidation of the mechanism of its high-order structure formation using QXAFS techniques-2	Kiyohiro Adachi	RIKEN	Japan	National and Nonprofit Organization	Chemical Science	5.625	BL36XU	Np
153	2023B1297	Phase transition, structural change and dynamics of imidazolium-based ionic liquid crystals in nanopore	Koji Fukao	Ritsumeikan University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
154	2023B1299	Improving lung aeration in infants with Congenital Diaphragmatic Hernia using phase contrast x-ray imaging	Kelly Crossley	Hudson Institute / Monash University	Australia	Foreign	Medical Applications	18	BL20B2	Np
155	2023B1300	X-ray Compton scattering measurement of metallic glasses	Kazuhiro Matsuda	Kumamoto University	Japan	Educational Organization	Materials Science and Engineering	18	BL08W	Np
156	2023B1301	Ultra-high-pressure synthesis and crystal chemistry of novel intermetallic compounds	Ken Niwa	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	5.75	BL10XU	Np
157	2023B1304	Structural study of MOF-MOX/rGO hybrid nanocomposites by means of High-Energy X-Ray Diffraction and Pair Distribution Function analysis	Saeed Kamali-Moghaddam	University of Tennessee Space Institute	USA	Foreign	Materials Science and Engineering	9	BL04B2	Np
158	2023B1305	Deformation-induced crystallographic preferred orientation of dense hydrous minerals 2	Yu Nishihara	Ehime University	Japan	Educational Organization	Earth and Planetary Science	12	BL04B1	Np
159	2023B1306	Steric repulsion of DNA layer originated from conformational change of DNA strand	Masahiro Fujita	RIKEN	Japan	National and Nonprofit Organization	Materials Science and Engineering	2.875	BL40B2	Np
160	2023B1307	Structural investigation on the van der Waals frameworks assembled from three nanometer-sized metal-organic octahedra	Shuhei Furukawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	5.875	BL40XU	Np
161	2023B1308	Search for superconductivity by high-pressure synthesis of novel carbon-based network materials	Takehito Nakano	Ibaraki University	Japan	Educational Organization	Materials Science and Engineering	8.625	BL04B1	Np
162	2023B1309	High-Pressure Synthesis of High-Temperature Superconducting Systems	Katsuya Shimizu	Osaka University	Japan	Educational Organization	Materials Science and Engineering	14.625	BL10XU	Np
163	2023B1310	In situ observation of evolution of nanoparticle array structure in plasmonic superlattice through light-heat conversion process driven by plasmon-phonon interaction	Masaki Saruyama	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL40B2	Np
164	2023B1311	Measurement of ultra-low energy level of Thorium-229 Isomer with high brightness X-ray light source	Koji Yoshimura	Okayama University	Japan	Educational Organization	Elementary Particles, Nuclear Science	18	BL19LXU	Np
165	2023B1313	Development of circular dichroism measurement system for photoelectron holography and measurement of atomic arrangement of intercalant Li in TiS2	Tomohiro Matsushita	Nara Institute of Science and Technology	Japan	Educational Organization	Materials Science and Engineering	8	BL25SU	Np
166	2023B1314	Measurements of conformational changes of proteins in a single molecule with white X-ray	Hirofumi Shimizu	University of Fukui	Japan	Educational Organization	Life Science	21	BL28B2	Np
167	2023B1315	Creep strength of CaSO3-Perovskite determined by in-situ stress-strain measurements	Noriyoshi Tsujino	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Earth and Planetary Science	12	BL04B1	Np
168	2023B1318	Elucidation of nanovoid formation mechanism for high performance of sPS/SEBS alloys	Shotaro Nishitsuji	Yamagata University	Japan	Educational Organization	Materials Science and Engineering	3	BL40B2	Np
169	2023B1320	Clarification of Structural Phase Transition Mechanism of Li-excess metal oxide using spatial resolved X-ray Absorption Spectroscopy and Total X-ray Scattering coupled with PDF Analysis based on nano-beam (2)	Kentaro Yamamoto	Nara Women's University	Japan	Educational Organization	Chemical Science	12	BL37XU	Np
170	2023B1322	Constraints on metallization condition of hydrogen by high-pressure and -temperature electrical resistivity measurements	Kenta Oka	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Earth and Planetary Science	3	BL10XU	Np
171	2023B1323	Study on synthesis mechanism of halide electrolyte for highly stable solid-state lithium battery	Jochi Tseng	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Industrial Applications	5.875	BL08W	Np

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S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
172	2023B1325	Ultra-small angle X-ray scattering structure analysis of hydrogels possessing Strong phase separation induced vitrification at high temperature	Takayuki Nonoyama	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	3	BL20XU	Np
173	2023B1327	Developments of X-ray single molecule tracking method using living cells	Yuji Sasaki	The University of Tokyo	Japan	Educational Organization	Life Science	18	BL40XU	Np
174	2023B1328	Structure Analysis on Fast Li-ion Conductive Solid Polymer Electrolytes	Masahiro Fujita	Sophia University	Japan	Educational Organization	Chemical Science	6	BL04B2	Np
175	2023B1330	Determination of the Al ₂ O ₃ solubility in MgSiO ₃ bridgmanite coexisting with corundum as a function of pressures up to 70 GPa and a temperature of 2000 K Part 2.	Tomoo Katsura	University of Bayreuth	Germany	Foreign	Earth and Planetary Science	15	BL04B1	Np
176	2023B1331	Synchrotron X-ray CT analysis of Japanese swords made in the Kamakura and Muromachi periods and fire damaged swords owned by Tokugawa Museum to clarify their inner structures and making techniques	Manako Tanaka	Tokyo University of the Arts	Japan	Educational Organization	Other	17.625	BL28B2	Np
177	2023B1333	Analysis of oxidized surface on Zn based coating alloy (2) ~nanospectroscopy as an analytic strategy for overcoming corrosion~	Katsuhiro Nishihara	Nippon Steel Corporation	Japan	Industry	Industrial Applications	6	BL25SU	Np
178	2023B1334	In-situ nitrogen(N) XANES analysis of Mars-related samples for understanding Martian N cycle processes	Mizuho Koike	Hiroshima University	Japan	Educational Organization	Earth and Planetary Science	12	BL27SU	Np
179	2023B1336	Odd-even effect on lipid molecular motions studied by quasielastic gamma-ray scattering using two dimensional X-ray detector CITIUS	Makina Saito	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	17.75	BL35XU	Np
180	2023B1338	Reconstruction of solid-phase sintering model in an initial stage by quantification of 3D metal powder particle shape and geometry during the sintering process	Yukiko Ozaki	Kyushu University	Japan	Educational Organization	Industrial Applications	12	BL20B2	Np
181	2023B1342	Size Induced sliding ferroelectricity in nanoparticle	Xianran Xing	University of Science and Technology Beijing	China	Foreign	Chemical Science	2.875	BL08W	Np
182	2023B1343	Understanding the relationship between amorphous structure and the unique relaxation properties of poly(fumarates)	Yasuhito Suzuki	Osaka Metropolitan University	Japan	Educational Organization	Chemical Science	2.25	BL04B2	Np
183	2023B1344	High-speed time-resolving of pressure-induced structural transition by X-ray high-speed in-situ observation combined with a piezo-actuator driven DAC.	Hitoshi Yusa	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL10XU	Np
184	2023B1345	Depth-resolved XAS analysis of the anode interface in lithium metal batteries	Masako Suzuki	Gunma University	Japan	Educational Organization	Materials Science and Engineering	6	BL27SU	Np
185	2023B1349	Structural analysis of Printable Oxide Gels using high-throughput PDF measurement system	Daisuke Hirose	Japan Advanced Institute of Science and Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL04B2	Np
186	2023B1352	3D investigation of minerals, organics, and fluid inclusions in asteroid Ryugu samples: elucidation of mineral and organic matter evolution by aqueous alteration	Megumi Matsumoto	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	15	BL47XU	Np
187	2023B1355	Elucidation of Photo-Excited Radical Generation Phenomena of Photoresponsive Porous Coordination Polymers	Susumu Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL40XU	Np
188	2023B1356	Behavioral Investigation of Hydrophilic Covalent Organic Frameworks under Humidity Conditions and Comparison with Similar Structures	Yoshiki Niihori	Tokyo University of Science	Japan	Educational Organization	Chemical Science	6	BL43IR	Np
189	2023B1357	Unveiling novel magneto-electronic transport properties in non-magnetic semiconductor/ferromagnetic semiconductor heterostructures	Masaki Kobayashi	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	12	BL25SU	Np
190	2023B1359	Analysis of Solution Structure in Dual-Salt Electrolytes for Fast Ca ²⁺ /Zn ²⁺ Intercalation	Katsuhiko Naoi	Tokyo University of Agriculture and Technology	Japan	Educational Organization	Chemical Science	6	BL04B2	Np
191	2023B1363	Investigation of skin penetration mechanism of macromolecular drugs from supramolecular assemblies	Kaname Hashizaki	Nihon University	Japan	Educational Organization	Life Science	6	BL40B2	Np
192	2023B1364	Direct observation of Bi ⁵⁺ , Pb ⁴⁺ +oxygen holes in negative thermal expansion candidate Bi _{0.5} Pb _{0.5} MO ₃ by soft X-ray absorption III	Yuki Sakai	Kanagawa Institute of Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL27SU	Np
193	2023B1365	Elucidation of soaking mechanism of guest molecules into crystalline sponge using synchrotron radiation X-ray diffraction	Sota Sato	The University of Tokyo	Japan	Educational Organization	Chemical Science	9	BL26B1	Np
194	2023B1366	Analysis of Unsafe Phenomena in Lithium-ion Secondary Batteries with Salt-concentrated Electrolyte	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL28B2	Np
195	2023B1367	Study on advanced crystalline sponge method by serial crystallography using high-flux synchrotron X-rays	Sota Sato	The University of Tokyo	Japan	Educational Organization	Chemical Science	6	BL45XU	Np

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196	2023B1368	Structural analysis of novel supramolecular architectures created in microfluidic field	Munenori Numata	Kyoto Prefectural University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
197	2023B1369	Differential photoelectron holography analyses for Si crystals co-doped with As and B	Kazuo Tsutsui	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	12	BL25SU	Np
198	2023B1371	Quantification of morphological and dynamic changes in mouse lung microstructure during maturation	Kenichiro Koshiyama	Tokushima University	Japan	Educational Organization	Medical Applications	6	BL20B2	Np
199	2023B1372	Investigation on the reaction mechanism of the oxygen evolution reaction on Ir/Pt/Os-doped MnO ₂ catalysts in a PEM water electrolyzer using time-resolved operando HERFD-XANES	Kiyohiro Adachi	RIKEN	Japan	National and Nonprofit Organization	Chemical Science	9	BL36XU	Np
200	2023B1373	Application of Synchrotron-Radiation-Based 99Ru Mossbauer Spectroscopy to Cathode Materials in Na Rechargeable Batteries	Satoshi Tsutsui	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	18	BL35XU	Np
201	2023B1374	4D imaging of pulsating blood vessel by X-ray phase-contrast dynamic CT using 40-keV multilayer spectrometer: towards dynamic deformation analysis of full-circumferential vascular wall matrix under drastic improvement in measurement sensitivity on account of using high-flux X-ray	Takeshi Matsumoto	Tokushima University	Japan	Educational Organization	Medical Applications	6	BL20B2	Np
202	2023B1375	Aggregation States of Perfluoropolyether Films	Daisuke Kawaguchi	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	3	BL40B2	Np
203	2023B1376	Multi-temperature crystal structure evolution of all-inorganic lead-free halide perovskite Cs ₃ Bi ₂ X ₉	Jiawei Zhang	Chinese Academy of Sciences	China	Foreign	Materials Science and Engineering	3	BL44B2	Np
204	2023B1380	Structural analyses of polydispers polymer micelles by using field-flow fractionation and small-angle X-ray scattering	Isamu Akiba	The University of Kitakyushu	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
205	2023B1381	In-situ observation of rapid melting and solidification processes of metallic materials by high-speed laser scanning using a galvanometer scanner	Kohei Morishita	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	9	BL47XU	Np
206	2023B1384	Dopant Structural Analysis of Ag-Doped CsPbBr ₃ Halide Perovskite Semiconductor by X-ray Fluorescence Holography	Kouichi Hayashi	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	12	BL47XU	Np
207	2023B1385*	High-Energy X-ray Total Scattering Study on (K, Na)NbO ₃ -Doped SiO ₂ -Na ₂ O-Al ₂ O ₃ Glass-Ceramics	Kouichi Hayashi	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL04B2	Np
208	2023B1387	Identifying the amorphous-amorphous transition line of GeSe driven by the Peierls-like distortion	Tomoki Fujita	Aarhus University	Denmark	Foreign	Materials Science and Engineering	6	BL05XU	Np
209	2023B1389	In-situ observation of electric-field-induced displacement of dopant atoms in Mn-doped BiFeO ₃ single crystalline thin film by inverse-mode X-ray fluorescence holography	Seiji Nakashima	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	14.875	BL37XU	Np
210	2023B1390	Formation of Electronic Materials through Determination of Structures and Electronic States of π-Electronic Ion Pairs	Hiroimitsu Maeda	Ritsumeikan University	Japan	Educational Organization	Materials Science and Engineering	6	BL40XU	Np
211	2023B1391	High-energy synchrotron radiation-based X-ray CT analyses to visualize fine morphologies of small fossilized turtle skeletons: a case study with fossil juvenile turtles from the Early Cretaceous of western Japan	Takuya Imai	Fukui Prefectural University	Japan	Educational Organization	Life Science	8.875	BL28B2	Np
212	2023B1392	Development of advanced multi-scale imaging system with CT/CL changing function.	Masahiro Yasutake	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	6	BL47XU	Np
213	2023B1394	High-pressure ultrasonic velocity measurements of ferropericlasite at lunar core-mantle boundary conditions	Yanhao Lin	Center for High Pressure Science and Technology Advanced Research	China	Foreign	Earth and Planetary Science	6	BL04B1	Np
214	2023B1395	Investigating the possibility of simultaneous measurement of internal three-dimensional structure and weight in the pyrolysis process of woody biomass	Tadafumi Daitoku	Akita Prefectural University	Japan	Educational Organization	Industrial Applications	3	BL20B2	Np
215	2023B1397	Infrared Ellipsometry in Anisotropic Organic Crystals	Satoshi Iguchi	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	17.875	BL43IR	Np
216	2023B1398	Structural and dynamic analysis of supramolecular hydrogen-bonded networks	Munenori Numata	Kyoto Prefectural University	Japan	Educational Organization	Materials Science and Engineering	3	BL43IR	Np
217	2023B1399	Effect of trace element for graphite forming in ultra-pure Fe-C melt	Akira Sugiyama	Osaka Sangyo University	Japan	Educational Organization	Industrial Applications	6	BL20B2	Np
218	2023B1400	High energy resolution X-ray fluorescence hologram measurement using photoelectron conversion III	Yusuke Hashimoto	Nara Institute of Science and Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL25SU	Np

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219	2023B1401	Effect of Al and Fe on the viscosity of bridgmanite 2	Longli Guan	China University of Geosciences, Wuhan	China	Foreign	Earth and Planetary Science	3	BL04B1	Np
220	2023B1402	In-situ X-ray diffraction for comprehensive understanding of Interaction between cellulose and iodine	Kayoko Kobayashi	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
221	2023B1403	Evaluation of the local molecular structure of the living C. elegans embryo by sub-THz irradiation.	Masahiro Kuramochi	Ibaraki University	Japan	Educational Organization	Life Science	6	BL43IR	Np
222	2023B1405	Investigation of the dominant factors controlling the activity of iridium-based oxides as solid polymer electrolyte water electrolysis anode catalysts by total x-ray scattering·PDF analysis	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	9	BL04B2	Np
223	2023B1406	In situ study of selective dealumination in zeolites	Molly Meng-Jung Li	The Hong Kong Polytechnic University	Hong Kong	Foreign	Chemical Science	9	BL08W	Np
224	2023B1407	Temperature Dependence of Structural Change in Stretching Process of Ternary Polymer Blends with Movable Crosslinks	Takashi Konishi	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL40B2	Np
225	2023B1408	Tool-Using Protists Homotrema Revealed by High-Resolution SR X-ray nano-CT Imaging.	Kotaro Hirose	University of Hyogo	Japan	Educational Organization	Life Science	4.25	BL20XU	Np
226	2023B1409	Assembled Structures in Chromonic Liquid Crystals Comprising Amphiphilic π -Electronic Ion Pairs	Yohei Haketa	Ritsumeikan University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
227	2023B1410	Microwave in operando high-throughput hard X-ray scattering measurement for evaluating local heating of catalytic active sites.	Fuminao Kishimoto	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	16.875	BL08W	Np
228	2023B1412	Pressure induced electronic and structural transition in HfS ₂	Wei Zhong	Center for High Pressure Science and Technology Advanced Research	China	Foreign	Materials Science and Engineering	6	BL10XU	Np
229	2023B1414	Diabetic circulatory dysfunction: Establishment of hemodynamic fluctuation index, Part 2.	Yumi Takiyama	Asahikawa Medical University	Japan	Educational Organization	Medical Applications	8.875	BL20B2	Np
230	2023B1415	Regulating negative thermal expansion and photocatalytic applications of cerium-based metal-organic frameworks by ligand engineering	Xianran Xing	University of Science and Technology Beijing	China	Foreign	Chemical Science	9	BL44B2	Np
231	2023B1416	Chemical Structure Analysis of Organic Insulating Films in the Local Area by SPELEEM	Tomoya Taji	JSR Corporation	Japan	Industry	Industrial Applications	15	BL25SU	Np
232	2023B1420	High Pressure Formation of Novel C-H-N Compounds	Ross Howie	University of Edinburgh	UK	Foreign	Materials Science and Engineering	6	BL10XU	Np
233	2023B1421	Automated analysis and extracting hidden information from MCD spectral big data by machine learning	Masato Kotsugi	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	12	BL25SU	Np
234	2023B1422	Development of single crystal X-ray crystallography equipped with wavelength-selectable light irradiation system and construction of a method for controlling photo-induced reversible reactions	Kouhei Ichianagi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL40XU	Np
235	2023B1423	Observation of semisolid deformation during a tensile test in bulk Fe alloys by 4D-CT and 3DXRD using multilayer mirror	Taka Narumi	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	8.625	BL20B2	Np
236	2023B1424	Dynamic observation of solidification and phase transformation processes in duplex stainless steel using 4D-CT and high-sensitive XRD measurement	Taka Narumi	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	5.75	BL47XU	Np
237	2023B1425	X-ray imaging and white X-ray diffraction of M-Tb Alloying in molten salt	Yumi Katasho	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Chemical Science	8.625	BL28B2	Np
238	2023B1427	Mechanism for deep-focus earthquakes: dehydration-driven faulting of olivine	Sando Sawa	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	3	BL04B1	Np
239	2023B1428	Synchrotron radiation-based X-ray μ -CT analyses on the braincase of a juvenile herbivorous dinosaur Hypacrosaurus (Ornithomimidae, Hadrosauridae) to understand the vocalized intra-specific communication in dinosaur ontogeny	Takuya Imai	Fukui Prefectural University	Japan	Educational Organization	Life Science	7	BL20B2	Np
240	2023B1430	Study on mineralogical and optical modification of asteroid Ryugu samples by terrestrial weathering: Combined analysis using multi-scale/mode CT and FT-IR	Megumi Matsumoto	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	9	BL20XU	Np
241	2023B1431	development of 3-stage multiscale imaging	Akihisa Takeuchi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	9	BL20XU	Np

2023B, Performed General Proposals

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1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-Proprietary(Np)
242	2023B1432	high-energy x-ray microscope at BL37XU	Akihisa Takeuchi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	12	BL37XU	Np
243	2023B1433	Structural analysis of catalysts for oxidative coupling of methane using high-throughput PDF measurement system	Toru Wada	Japan Advanced Institute of Science and Technology	Japan	Educational Organization	Materials Science and Engineering	0.5	BL04B2	Np
244	2023B1434	Structure analysis of curved pi-conjugated radical anions	Shinobu Aoyagi	Nagoya City University	Japan	Educational Organization	Chemical Science	6	BL41XU	Np
245	2023B1435	Far-infrared study of electronic structures in mixed-valence EuIr ₂ Si ₂ at high pressures	Hidekazu Okamura	Tokushima University	Japan	Educational Organization	Materials Science and Engineering	11.75	BL43IR	Np
246	2023B1436	Visualization of deterioration state in large civil engineering structures (concrete, pavement, etc.) such as bridge piers	Kentaro Uesugi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	29.875	BL28B2	Np
247	2023B1437	Atmosphere controlled X-ray absorption spectroscopy experiments of functional polymers using tender X-rays	Naoya Kurahashi	National Institutes of Natural Sciences	Japan	National and Nonprofit Organization	Chemical Science	8.25	BL27SU	Np
248	2023B1439	Soft X-ray emission polarization dependence of water vapor by high-density gas-phase sample introduction method	Naoya Kurahashi	National Institutes of Natural Sciences	Japan	National and Nonprofit Organization	Chemical Science	9	BL27SU	Np
249	2023B1441	Element-selective magnetic state and origin of perpendicular magnetic anisotropy in perovskite-type Ir-doped Mn oxide thin films	Masaki Kobayashi	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	11.625	BL25SU	Np
250	2023B1442	Pressure-induced structural change in liquid Fe	Yoichi Nakajima	Kumamoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL05XU	Np
251	2023B1447	Evaluation of new Thorium-229 crystal targets toward solid-state Nuclear Clock	Sayuri Takatori	Okayama University	Japan	Educational Organization	Elementary Particles, Nuclear Science	3	BL37XU	Np
252	2023B1448	Combination of synchrotron X-ray micro-CT imaging and trace element analysis of the Ediacaran microfossils: Early biodiversity of metazoans based on identification of the early metazoans and their organelle	Tsuyoshi Komiya	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	9	BL47XU	Np
253	2023B1449	Structure measurement of liquid Fe-P alloy under high pressure	Yoichi Nakajima	Kumamoto University	Japan	Educational Organization	Earth and Planetary Science	6	BL10XU	Np
254	2023B1450	Structural Analysis of Aggregates Formed by Novel Surfactants with Phosphorylcholine Group	Tomokazu Yoshimura	Nara Women's University	Japan	Educational Organization	Materials Science and Engineering	5.125	BL40B2	Np
255	2023B1451	Simultaneous measurements of cross-bridge and sarcomere behaviors in vivo using small and ultra small angle X-ray diffractions	Atsuki Fukutani	Ritsumeikan University	Japan	Educational Organization	Life Science	9	BL20XU	Np
256	2023B1453	High-pressure ultrasonic P-wave velocity measurements on liquid Fe-rich alloys to constrain structural and seismological models for Mercury's core	Jurrien Knibbe	Royal Observatory of Belgium	Belgium	Foreign	Earth and Planetary Science	6	BL04B1	Np
257	2023B1454	Study on the polymorphic transition induced by the interaction between different crystals in the triacylglyceride ternary mixture systems and the phase diagram	Ken Taguchi	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
258	2023B1456	Development of cryogenic X-ray ptychographic computed tomography for multiscale structural analysis of biological objects	Yuki Takayama	Tohoku University	Japan	Educational Organization	Life Science	18	BL29XU	Np
259	2023B1457	In-situ QXAFS technique in understanding the reaction dynamics of high entropy alloy electrocatalysts under oxygen reduction reaction	Feng Wang	University College London	UK	Foreign	Chemical Science	8	BL36XU	Np
260	2023B1458	Identification of the oxidation state of iridium in the oxygen evolution electrocatalyst, Ir-doped MnO ₂ , by 193-Ir synchrotron-radiation Mössbauer spectroscopy	Kiyohiro Adachi	RIKEN	Japan	National and Nonprofit Organization	Chemical Science	14.875	BL35XU	Np
261	2023B1460	High-spatial/temporal resolved operando measurements of lithium chemical potential distribution in all-solid-state lithium-ion battery electrolyte by using electrochemical nano XAFS	Koji Amezawa	Tohoku University	Japan	Educational Organization	Chemical Science	17.75	BL37XU	Np
262	2023B1461	Effect of Concentration and Temperature on Aggregation Behavior of Homogeneous Sodium Polyoxyethylene Alkyl Ether Sulfate with Identical Chain Length Distributions	Shiho Yada	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
263	2023B1462	Strength and crystallographic preferred orientation of the subducted slab determined from high-temperature and pressure deformation experiments with large strain using the rotational diamond anvil cell	Shintaro Azuma	Tokyo Institute of Technology	Japan	Educational Organization	Earth and Planetary Science	15	BL47XU	Np
264	2023B1463	Outlier-Driven Investigation of Functionality and Mechanism of Heusler Alloys through Multimodal Analysis and Machine Learning	Alexandre Foggiatto	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	12	BL25SU	Np

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S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
265	2023B1465	Integrating mass spectrometry based multimodal molecular imaging for the morphological and structural studies of senile plaques and meningeal vessels in Alzheimer's disease (AD) and Cerebral amyloid angiopathy (CAA) brains	Masaya Ikegawa	Doshisha University	Japan	Educational Organization	Medical Applications	9	BL20B2	Np
266	2023B1466	The origin of hysteresis in charge-discharge process for Li rich cathode material~discharge process	Hiroshi Sakurai	Gunma University	Japan	Educational Organization	Materials Science and Engineering	15	BL08W	Np
267	2023B1467	Exploring Purcell effects of nuclei in a multimode x-ray cavity quantum electrodynamics system	Xiangjin Kong	Fudan University	China	Foreign	Materials Science and Engineering	15	BL35XU	Np
268	2023B1470	SAXS analysis for clarifying the relationship between macroscopic physical properties of wood and microscopic structure of lignin incorporated in wood	Soichi Tanaka	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	5	BL40B2	Np
269	2023B1471	Elucidation of magneto-transport properties in ferromagnetic oxide spintronics devices by observing the magnetic domain structures	Masaki Kobayashi	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	15	BL07LSU	Np
270	2023B1473	Clarification of Host Molecule Structure in the Transition State of the structure Transformation between the OPEN-CLOSE Forms of Butterfly-shaped Indanedione Dimer by means of PDF Analyses	Yumi Yakiyama	Osaka University	Japan	Educational Organization	Chemical Science	3	BL40B2	Np
271	2023B1475	Atomic structure of amorphous layered chalcogenides	Evgeny Bychkov	University of the Littoral Opal Coast	France	Foreign	Materials Science and Engineering	6	BL04B2	Np
272	2023B1476	Demonstration of magnetic Compton scattering computed tomography	Naruki Tsuji	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	15	BL08W	Np
273	2023B1478	Study of the Structural Analysis of Polymer Micelle under Coexistence of Dense Phase Droplet: Using Contrast Variation Method	Yusuke Sanada	Fukuoka University	Japan	Educational Organization	Chemical Science	3	BL40B2	Np
274	2023B1479	Relationship between structure and ion distribution during cycles on the solid-state battery	Kosuke Suzuki	Gunma University	Japan	Educational Organization	Chemical Science	18	BL08W	Np
275	2023B1480*	Structure of Amorphous Methane Hydrate	Osamu Yamamuro	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	12	BL04B2	Np
276	2023B1485	Determination of chemical structure of short-lived reaction intermediate of membrane-bound nitric oxide reductase by NRVS	Takehiko Tosha	University of Hyogo	Japan	Educational Organization	Life Science	15	BL19LXU	Np
277	2023B1486	μ -XRF-XAFS analysis of pre- and post-industrial changes in zinc and iron speciation in aerosols recovered from Greenland ice cores.	Yoshio Takahashi	The University of Tokyo	Japan	Educational Organization	Environmental Science	12	BL37XU	Np
278	2023B1488	Formation of impurity-vacancy pairs in Kankyo semiconductor Mg ₂ Sn revealed by photoelectron holography	Mamoru Kitaura	Yamagata University	Japan	Educational Organization	Materials Science and Engineering	9	BL25SU	Np
279	2023B1489	Development of a method for vibrational circular dichroism spectroscopy of solid samples	Yuka Ikemoto	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	27	BL43IR	Np
280	2023B1490	Evaluation of dendritic structure in Al-Cu alloys during various cooling conditions by 4D-CT	Hideyuki Yasuda	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL20B2	Np
281	2023B1491	Verification of inhabitation of alpha/delta – gamma transformations and selection of a mono-variant in the massive-like transformation by 4D-CT/XRD	Hideyuki Yasuda	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL47XU	Np
282	2023B1492	Detection of smectite interlayer ions by scanning soft X-ray microscopy to estimate the formation processes of Hayabusa and CI chondrite parent bodies and pH during water quality metamorphism.	Yoshio Takahashi	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	12	BL17SU	Np
283	2023B1495	Determination of melting curve and liquid compression curve of S-rich Fe-S at Martian core conditions	Hidegori Terasaki	Okayama University	Japan	Educational Organization	Earth and Planetary Science	9	BL10XU	Np
284	2023B1498	Electronic structure of oxygen contributes to high capacity in oxide electrode materials	Kosuke Suzuki	Gunma University	Japan	Educational Organization	Materials Science and Engineering	12	BL08W	Np
285	2023B1499	Understanding of nanoscale fracture behavior of interfacial morphology-controlled dissimilar joint using coupled approaches between nanotomography with synchrotron radiation and micromechanical testing	Tomoki Matsuda	Osaka University	Japan	Educational Organization	Materials Science and Engineering	9	BL47XU	Np
286	2023B1501	Nematic Correlations in the Fe Chalcogenide K ₅ Fe ₄ Ag ₆ Te ₁₀	Nathan Giles-Donovan	University of California, Berkeley	USA	Foreign	Materials Science and Engineering	12	BL35XU	Np
287	2023B1504	Study for the transdermal absorption properties of cosmetics formulation.	Hiroimitsu Nakazawa	Kwansei Gakuin University	Japan	Educational Organization	Chemical Science	3	BL40B2	Np
288	2023B1506	in-situ functionalization of electrocatalysts at solid/liquid interface by electrolyte additive	Keisuke Obata	The University of Tokyo	Japan	Educational Organization	Chemical Science	6	BL37XU	Np

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S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
289	2023B1507*	High-temperature lattice dynamic investigation of the Bredig transition in the fluorite-type compounds	Masato Kato	Japan Atomic Energy Agency	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL35XU	Np
290	2023B1509	Room-temperature ferro-magnetic skirion on Fe ₂ -xPdxMo ₃ N thin film studied by XMCD-PEEM imaging in applied magnetic field	Takahiro Ito	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	9	BL17SU	Np
291	2023B1510	Development of a time-resolved multimodal X-ray measurement technique to elucidate the formation behavior of specific high-density regions in tightly focused laser micromachining	Yasunaga Nara	Hamamatsu Photonics K.K.	Japan	Industry	Industrial Applications	18	BL40XU	Np
292	2023B1512	Mechanism of Gelation and Mechanical Strength of Oleogel Formed by Lipophilic Fatty Acid Polyglyceride	Naoya Torikai	Mie University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
293	2023B1513	Activity and local structure evaluation along the thickness direction in transition metal hydroxide electrocatalysts	Keisuke Obata	The University of Tokyo	Japan	Educational Organization	Chemical Science	6	BL37XU	Np
294	2023B1514	Seeking novel permanent magnets mediated by dense hydrogenation induced coupling between heavy rare-earth-transition metal elements: an XRD study	Naoki Ishimatsu	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	3	BL10XU	Np
295	2023B1517	Direct observation of states and dynamics of vibrons in nanostructured amorphous materials	Junichiro Shiomi	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	18	BL35XU	Np
296	2023B1518	Thermal Expansion Behavior of Anhydrous Chitosan	Masahisa Wada	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL40B2	Np
297	2023B1520	Development of High-Pressure X-ray Fluorescence Holography: Structural changes of SrTiO ₃ single crystal under high pressure	Naoki Ishimatsu	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	6	BL37XU	Np
298	2023B1523	Analysis of ventricular microstructure of knockout mice of cardiomyocyte tension transmitter CCDC141 by X-ray phase-contrast CT	Satoshi Mohri	Kawasaki Medical School	Japan	Educational Organization	Medical Applications	3	BL20B2	Np
299	2023B1524*	In-situ X-ray diffraction measurements on hydrogenation of iron sulfide	Hiroyuki Kagi	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	12	BL04B1	Np
300	2023B1526	Development of multibeam CT optics for undulator sources	Wolfgang Voegeli	Tokyo Gakugei University	Japan	Educational Organization	Beamline Engineering	21	BL28B2	Np
301	2023B1527	Interpretation of the phase relation between the chimney-ladder phase and the disilicide-type phase under high pressure and high temperature	Takuya Sasaki	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL04B1	Np
302	2023B1529	Crystal structure and superconductivity of alkaline earth metals calcium on low temperature and high pressure phase II	Yuki Nakamoto	Osaka University	Japan	Educational Organization	Materials Science and Engineering	9	BL10XU	Np
303	2023B1530	Microstructural observation and mineral identification by X-ray CT analysis for the analysis of various elements in rheological samples and CI chondrite meteorites using X-ray microscopy	Yoshio Takahashi	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	0.875	BL20XU	Np
304	2023B1531	Construction and Structural Analysis of PEGylated Nanomaterials Based on the Polymer Topology	Takuya Yamamoto	Hokkaido University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
305	2023B1532	In-situ USAXS analysis of the dilatancy phenomenon under high-speed shearing to solid and liquid composite.	Keishi Akada	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	9	BL20XU	Np
306	2023B1534	Analysis of the transient excitation effect of ultra-high intensity X-ray irradiation on single crystal silicon and the laser processing inhibition phenomena	Yasunaga Nara	Hamamatsu Photonics K.K.	Japan	Industry	Industrial Applications	6	BL47XU	Np
307	2023B1536	Secondary structure analysis of proteins in heat-damaged hair using infrared microspectroscopy	Hironori Kimura	Milbon Co., Ltd.	Japan	Industry	Industrial Applications	18	BL43IR	Np
308	2023B1538	The effect of chemical short-range order on pressure-induced phase transition in high entropy alloys	Hongbo Lou	Center for High Pressure Science and Technology Advanced Research	China	Foreign	Materials Science and Engineering	6	BL10XU	Np
309	2023B1539	Elucidation of the electric and magnetic states of the super-ordered structure of strain-gradient functional oxide thin films	Hitoshi Tabata	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	12	BL25SU	Np
310	2023B1541	Development of in-situ observation method for pressure- and temperature-induced structural phase transition in high-temperature region using TiC/Al ₂ O ₃ heater and its application to neutron-irradiated HOPG	Shinichi Honda	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	6	BL04B1	Np
311	2023B1542	Study on the structure of rice grain using high-resolution X-ray phase contrast imaging	Chie Ohmoto	Ajinomoto Co., Inc.	Japan	Industry	Industrial Applications	3	BL20B2	Np

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312	2023B1543	Next-generation high-resolution space X-ray optics open frontiers in space science	Ikuyuki Mitsuishi	Nagoya University	Japan	Educational Organization	Other	9	BL29XU	Np
313	2023B1545	Scanning Fluorescence X-ray microscopy at interface of electrode and solid electrolyte	Takeshi Kobayashi	Central Research Institute of Electric Power Industry	Japan	National and Nonprofit Organization	Chemical Science	8	BL17SU	Np
314	2023B1547	Mechanisms of the post-perovskite transformation under uniaxial stress	Tomoaki Kubo	Kyushu University	Japan	Educational Organization	Earth and Planetary Science	12	BL04B1	Np
315	2023B1548	Visualization of words on Multiple layered Japanese paper written by sumi ink using X-ray CT	Hideyuki Uesugi	National Institutes for Cultural Heritage	Japan	National and Nonprofit Organization	Other	9	BL20B2	Np
316	2023B1549	Charge-discharge operando Distribution analysis of constituent element on cross-sectional ceramic-type all-solid-state battery	Takeshi Kobayashi	Central Research Institute of Electric Power Industry	Japan	National and Nonprofit Organization	Chemical Science	15	BL27SU	Np
317	2023B1550	In situ microscope IR measurement for the analysis of guest molecule behavior in 1D channels composed of butterfly-shaped indanedione dimers	Yumi Yakiyama	Osaka University	Japan	Educational Organization	Chemical Science	6	BL43IR	Np
318	2023B1554	Development of simultaneous measurement system for time-resolved PDF and Compton scattering	Yuki Mizuno	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL08W	Np
319	2023B1555	Elucidation of phase change behavior of magnetic ionic liquids by in-situ high-speed X-ray total scattering measurement	Seiya Shimono	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	8.875	BL04B2	Np
320	2023B1556	Investigation of acoustic phonon spectral linewidth (Γ -K point) of bulk SiGe by inelastic X-ray scattering	Ryo Yokogawa	Meiji University	Japan	Educational Organization	Materials Science and Engineering	9	BL35XU	Np
321	2023B1558	Analysis for the penetration enhancing effect of the nanoscale clustered water shower using by human hair applied with hair treatment.	Hiroimitsu Nakazawa	Kwansei Gakuin University	Japan	Educational Organization	Life Science	6	BL43IR	Np
322	2023B1559	Visualization of the dynamics of oxygen bubbles formed in a porous transport layer during water electrolysis	Kota Ando	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Chemical Science	3	BL28B2	Np
323	2023B1560	Structure analysis of Ce-containing perovskite-type LaFeO3 perovskite by X-ray emission spectroscopy	Maiko Nishibori	Tohoku University	Japan	Educational Organization	Chemical Science	9	BL27SU	Np
324	2023B1561	Real-Time Hydration Reaction Analysis for Water-Soluble Polysiloxanes based on Raid in-situ Infrared Spectroscopy under Deuterated Solvent Environments	Yoshihisa Fujii	Mie University	Japan	Educational Organization	Chemical Science	6	BL43IR	Np
325	2023B1566	Investigation on the Structure of Catanionic Self-Assembly Systems	Nozomi Watanabe	Osaka University	Japan	Educational Organization	Materials Science and Engineering	4	BL19B2	Np
326	2023B1567	Distribution of microfibril angle in tangential wall of "SAGAN-SUGI" (Japanese cedar) characterized by SAXS	Ichiro Hirosawa	Kyushu Synchrotron Light Research Center	Japan	National and Nonprofit Organization	Industrial Applications	9	BL19B2	Np
327	2023B1568	Measurement of residual stresses in aluminum alloy substrates for magnetic disks	Kotaro Kitawaki	UACJ Corporation	Japan	Industry	Industrial Applications	6	BL19B2	Np
328	2023B1569	Clarification of charge distribution in low-temperature operation giant negative thermal expansion material BiNi1-xMxO3 (M=Al, V, Mn, Fe, Co, Cu)	Masaki Azuma	Tokyo Institute of Technology	Japan	Educational Organization	Industrial Applications	9	BL09XU	Np
329	2023B1570	Function Development of Metal-Organic Frameworks Using Amorphous-to-Crystalline Phase Transition	Shunsuke Tanaka	Kansai University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
330	2023B1571	Determination of Crystal Structure of 1,3-diphenylisobenzofuran deposited on glassy thin films	Takeshi Komino	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	6	BL19B2	Np
331	2023B1573	A study on structural changes of the K3VF6 positive electrode during charge/discharge infor potassium- ion batteries using synchrotron X-ray diffraction	Shinichi Komaba	Tokyo University of Science	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
332	2023B1574	Understanding the kinetics of gate adsorption behavior on metal-organic frameworks IV	Shotaro Hiraide	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
333	2023B1575	Enhanced Negative Thermal Expansion and Related Mechanism in PbTiO3-Based Ferroelectrics with High Tetragonality	Zhao Pan	Chinese Academy of Sciences	China	Foreign	Materials Science and Engineering	6	BL02B2	Np
334	2023B1576	Measurement and analysis of active site microstructure on ZrO2-based solid catalysts using high-pressure in situ measurements	Shohei Tada	Hokkaido University	Japan	Educational Organization	Industrial Applications	5.5	BL14B2	Np
335	2023B1579	Elucidation of gate-opening behavior of flexible porous coordination polymer toward dilute CO2 gas at ambient temperature	Susumu Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
336	2023B1580	Insitu Structural investigation of gate-opening behavior of flexible porous coordination polymer toward dilute CO2 gas at room temperature	Susumu Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np

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337	2023B1583	Development of functional properties induced by structural phase transition: ferroaxial order and irreversible thermochromism	Kenta Kimura	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
338	2023B1584	XAFS-DFT-based Investigation of Homogeneous Transition-Metal Catalysts for Ethylene Oligomerization	Hikaru Takaya	TEIKYO University of Science	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
339	2023B1585	Single-crystal structural analyses of nitrogen-containing pi-extended molecules and the supramolecules	Shinichiro Kawano	Nagoya University	Japan	Educational Organization	Chemical Science	5.875	BL02B1	Np
340	2023B1587	Observation of the electronic structure of platinum-group-metal high-entropy alloy nanoparticles showing high catalytic activity for hydrogen evolution reaction	Hiroshi Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL46XU	Np
341	2023B1588	Operand XAFS observation of Platinum-Group-Metal High-Entropy Alloy (PGM-HEA) Nanoparticles showing catalytic activity for hydrogen evolution reaction	Hiroshi Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL01B1	Np
342	2023B1589	A study on the migration of arsenic and uranium in environment through iron minerals transformation	Kouhei Tokunaga	Japan Atomic Energy Agency	Japan	National and Nonprofit Organization	Earth and Planetary Science	6	BL01B1	Np
343	2023B1590	Catalytic Active Site and Catalytic Intermediate of Polymeric Molybdenum Sulfide Cluster Framework	Zi Lang Goo	Kindai University	Japan	Educational Organization	Chemical Science	2.5	BL02B1	Np
344	2023B1591	XAFS Study on Ir-Rh alloy supported on ZrO ₂ with controlled crystal structure	Hirona YAMAGISHI	CATALER Corporation.	Japan	Industry	Industrial Applications	2	BL01B1	Np
345	2023B1593	Precise structural analysis of perovskite oxides with unusually high valence ion related to their exotic phase transitions	Masato Goto	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL02B2	Np
346	2023B1594	Studies on Charge/discharge Mechanisms of Layered Oxides Na _x [Ni, Mn, Sc]O ₂ and AxIrO ₂ (A = Li, Na, K) as Positive Electrode Materials for Rechargeable Sodium- and Potassium-Ion Batteries by X-Ray Absorption Spectroscopy	Shinichi Komaba	Tokyo University of Science	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
347	2023B1595	XAFS measurement for clarification of Pd(II) capture mechanism of Pincer extractant	Manabu Yamada	Akita University	Japan	Educational Organization	Industrial Applications	3	BL14B2	Np
348	2023B1596	Structure determination of illicit drugs and their metabolites by single crystal X-ray crystallography using crystalline sponge method	Shimpei Watanabe	RIKEN	Japan	National and Nonprofit Organization	Other	3	BL02B1	Np
349	2023B1598	Correlation between Secondary Phases Transformation and Magnetic Properties of Ga-doped Nd-Fe-B Sintered Magnets during Post-sinter Annealing Process	Tetsuya Nakamura	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
350	2023B1599	Operando XRD analysis in the cathode during CO ₂ electrolysis in the solid oxide cell	Hirotsu Watanabe	Ritsumeikan University	Japan	Educational Organization	Materials Science and Engineering	6	BL19B2	Np
351	2023B1602	Elucidation of the growth mechanism of highly-ordered "quasi-homoepitaxial" junctions of organic semiconductor molecules (II)	Yasuo Nakayama	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	11.625	BL19B2	Np
352	2023B1603	Single-crystal X-ray diffuse scattering measurements and elucidation of the short-range ordered structure in pyrochlore-type niobium oxides	Shunsuke Kitou	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	9	BL02B1	Np
353	2023B1604	The investigation on the lattice hardness of alloy nanoparticles with in-situ X-ray diffraction	Hiroshi Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
354	2023B1607	Hard X-ray Photoelectron Spectroscopy (HAXPES) Analysis of Cation and Anion Sizes of Additives on Methylammonium Iodide for Highly Efficient, Stable, and Up-Scalable Perovskite Solar Cells.	Ibrahim Gueye	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL09XU	Np
355	2023B1608	Investigation of Ligand Desorption Process from the Composite of Ligand Protected Au Cluster and Metal Oxide Cluster using XAFS	Shinya Masuda	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	2.875	BL01B1	Np
356	2023B1611	Development of time-resolved lattice strain measurement system under AC electric field for fluted ferroelectric ceramics by X-ray powder diffraction	Yoshihiro Kuroiwa	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	6	BL13XU	Np
357	2023B1612	Elucidation of Crystal Structure and Phase Transition Behavior of Flexible Semiconductive Coordination Polymers Containing Sulfur Coordination Atom	Ryohei Akiyoshi	Kwansei Gakuin University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
358	2023B1615	Study of the mesoscopic structure of novel phases appearing in the anomalously fragile glass-forming molecules	Makina Saito	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
359	2023B1616	Structure analysis of phase separation of organic-inorganic composite materials connected by movable cross-links	Kenji Yamaoka	Osaka University	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np

2023B, Performed General Proposals

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S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
360	2023B1617	Precise single crystal structure analysis for the understanding of the one-directional assembly of metal-organic octahedra	Shuhei Furukawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	5.875	BL02B1	Np
361	2023B1618	Observation of network structure of heterogeneous gels of alginate mixed with different kind of polysaccharide	Yoshiaki Yuguchi	Osaka Electro-Communication University	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
362	2023B1619	Effect of doping on structural disorder in thermoelectric InTe single crystals	Jiawei Zhang	Chinese Academy of Sciences	China	Foreign	Materials Science and Engineering	9	BL02B1	Np
363	2023B1620	Development of high-precision powder XRD measurement system under high temperature and rapid cooling conditions using an infrared heating device and a high-speed rotation spinner	Shintaro Kobayashi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL13XU	Np
364	2023B1621	Energy calibration of high-energy hard X-ray photoelectron spectroscopy	Satoshi Yasuno	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL46XU	Np
365	2023B1622	Structure Determination and Phase Transition Observation of Semiconductive MOFs Synthesized by High Throughput Screening Synthesis	Daisuke Tanaka	Kwansei Gakuin University	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
366	2023B1624	Observation of in situ electro-reductive formation of In-Cu non-equilibrium intermetallic alloy by operando time-resolved XRD-XAS measurement	Soichi Kikkawa	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	9	BL14B2	Np
367	2023B1625	Development of operando hard X-ray photoelectron spectroscopy system for electrochemical reaction and in-situ observation of electrochemical reduction of carbon dioxide	Takanori Koitaya	Kyoto University	Japan	Educational Organization	Chemical Science	12	BL46XU	Np
368	2023B1626	Characterization of oxide film on Zn based alloy using angle-resolved and resonant hard X-ray photoemission spectroscopy (1)	Katsuhiro Nishihara	Nippon Steel Corporation	Japan	Industry	Industrial Applications	12	BL09XU	Np
369	2023B1628	Experimental evaluation of unknown alloys' electron densities predicted by a machine learning model developed by quantum calculation data	Tomoaki Takayama	Nara Institute of Science and Technology	Japan	Educational Organization	Chemical Science	3	BL01B1	Np
370	2023B1629	Crystal structure analysis of porous coordination polymers showing large framework structural change in the early stage of the gas adsorption process	Yoshiki Kubota	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	6	BL13XU	Np
371	2023B1630	Elucidation of correlation between solid electrolyte interphase and highly-efficient electrode reaction of cathode and anode materials of K-ion battery with superconcentrated potassium bis(fluorosulfonyl)amide – sulfolane electrolyte	Shinichi Komaba	Tokyo University of Science	Japan	Educational Organization	Chemical Science	8.25	BL46XU	Np
372	2023B1631	On/Off elastic behavior in 2D molecular tessellations through chemical design of the organic backbone	Javier Lopez	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	5.875	BL02B2	Np
373	2023B1632	Elucidation of glutathione (GSH) -mediated cadmium (Cd) transfer mechanisms from roots to shoots in oilseed rape plants (Brassica napus L.) for the control of Cd behaviors in plant bodies.	Shin-ichi Nakamura	Tokyo University of Agriculture	Japan	Educational Organization	Environmental Science	3	BL01B1	Np
374	2023B1633	Understanding melting of optical phonons in the low temperature orthorhombic phase of MAPbBr3	Seunghun Lee	University of Virginia	USA	Foreign	Industrial Applications	3	BL02B1	Np
375	2023B1635	Possible intermetallic charge transfer induced by chemical bond formation in ilmenite-type CuVO3	Hajime Yamamoto	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	2.875	BL02B2	Np
376	2023B1636	Operando XAS and theoretical analysis of water splitting electrocatalysts activated by anion adsorption during aqueous electrolyte exchange	Masaaki Yoshida	Yamaguchi University	Japan	Educational Organization	Chemical Science	9	BL01B1	Np
377	2023B1638	Elucidation of nano-micro phase separated hierarchical structures in phosphonium salt-type ionic liquid/aqueous systems at their LCST phase transition by temperature change time-resolved observation	Takahiro Ichikawa	Tokyo University of Agriculture and Technology	Japan	Educational Organization	Materials Science and Engineering	4	BL19B2	Np
378	2023B1639	Structural analysis on coordination frameworks synthesized from CO2 in the air	Kentaro Kadota	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL02B2	Np
379	2023B1640	Structural analysis of thermoelectric chalcogenides with n-type conductivity	Atsuko Kosuga	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	2.875	BL19B2	Np
380	2023B1641	Improving ammonia productivity of a catalyst by utilizing information obtained from XAFS measurements	Masafumi Horio	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL14B2	Np
381	2023B1642	Evaluation of the relationship between the mechanical properties and ordered structures of algae biomass/natural rubber	Hiroimitsu Sogawa	Kansai University	Japan	Educational Organization	Chemical Science	3	BL19B2	Np
382	2023B1644	Microstructural evaluation of nanocrystalline soft magnetic materials during annealing	Hiroaki Mamiya	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	2	BL19B2	Np

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S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
383	2023B1646	XAFS analysis of Bimetallic Nanoparticle Catalysts Promoting Reductive Amination of Carboxylic Acids and Investigation of Factors Affecting High Catalytic Activity	Tomoo Mizugaki	Osaka University	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
384	2023B1648	Activation Mechanism of Fe Catalyst for CO ₂ Hydrogenation Reaction by Operando XAFS Measurement	Fuminao Kishimoto	The University of Tokyo	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
385	2023B1651	Elucidation of structures and formation processes of alloy nanoclusters within nanocavity of ring-shaped metal oxides	Kosuke Suzuki	The University of Tokyo	Japan	Educational Organization	Chemical Science	8.875	BL01B1	Np
386	2023B1652	Correlation between room temperature ferromagnetism and distortions in oxide semiconductor nanoparticles without magnetic elements	kouichi takase	Nihon University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
387	2023B1653	Unveiling the structure-performance relationship over mixed-metal metal-organic framework-based Electrocatalysts for Electrochemical Synthesis of Ammonia by using operando XAFS	Susumu Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL14B2	Np
388	2023B1654*	Exploration of new Ruddlesden–Popper-type layered oxide ferroelectrics	Koji Fujita	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	2.625	BL02B2	Np
389	2023B1655	Investigation of photostability of halide perovskite crystals	Naoyuki Shibayama	Toin University of Yokohama	Japan	Educational Organization	Materials Science and Engineering	6	BL19B2	Np
390	2023B1656	Yb 4f-5d Coulomb repulsion for the Au-Ga-Yb quasicrystal and approximant crystal: Yb L ₃ resonant hard x-ray photoemission spectroscopy	Kojiro Mimura	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	18	BL09XU	Np
391	2023B1658	Elucidation of Chemical States, Coordination Structures, and Selectivity Factors of Iron Carbide Supported Metallic Nano-particle Catalysts Promoting Highly Selective CO ₂ Hydrogenation Reactions. We want to elucidate the ligand and ensemble effect, and metal-support interaction before/after the reaction.	Tomohiro Yabe	The University of Tokyo	Japan	Educational Organization	Chemical Science	5.875	BL14B2	Np
392	2023B1659	Modifications of electronic structures and hydrogen storage properties of Pd thin films by interfacial magnetic proximity effects	Toshio Miyamachi	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL46XU	Np
393	2023B1660	In-situ observation of single-crystal-growth process for misfit compounds in molten salt flux	Satoshi Demura	Nihon University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
394	2023B1661	Investigation of the formation mechanism of unusual high valence states of noble-metal species doped in MnO ₂ catalysts by in-situ XAFS observation	Kiyohiro Adachi	RIKEN	Japan	National and Nonprofit Organization	Chemical Science	9	BL14B2	Np
395	2023B1662	Sensitive operando diffraction measurements of Fe-Ni thin films for water electrolysis using hard X-rays	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Industrial Applications	6	BL13XU	Np
396	2023B1663	In-situ XAS analysis of Rh and Co electrocatalysts for selective reduction of pyridine to piperidine in the electrolysis with a solid polymer electrolyte	Shoji Iguchi	Kyoto University	Japan	Educational Organization	Chemical Science	9	BL14B2	Np
397	2023B1665	Determination of the metal coordination environments of 3d/4d metal dual-atom catalysts on UiO-67 for CO ₂ photocatalytic reduction to C ₂ -specific products	Benedict Lo	The Hong Kong Polytechnic University	Hong Kong	Foreign	Chemical Science	3	BL01B1	Np
398	2023B1666	Elucidation of Fe,Pd dual-atom catalysts on UiO-67 for C ₂ -specific photochemical CO ₂ RR by resonant X-ray powder diffraction	Benedict Lo	The Hong Kong Polytechnic University	Hong Kong	Foreign	Chemical Science	6	BL13XU	Np
399	2023B1667	In-situ XAS study on Sabatier reaction based on the reverse Mars-van Krevelen mechanism	Shimpei Naniwa	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
400	2023B1668	Structure analyses of SurfaceMOF for luminescent rare earth complexes with vapor-stimuli-enhancement	Miki Hasegawa	Aoyama Gakuin University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
401	2023B1669	Correlation between thermal factors and formation of crystalline phase during solid-state reactions	Akira Miura	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	6	BL13XU	Np
402	2023B1670	Operando XAS analyses of Ni-based spinel oxides as water oxidation electrocatalysts	Kazuyuki Iwase	Tohoku University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
403	2023B1672	In situ synchrotron X-ray diffraction of potassium intercalation in graphite using a vapor method	Hidetaka Kasai	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
404	2023B1674*	Analysis of surface chemical structure of amphiphilic gel materials in water	Eri Ito	Menicon Co., Ltd.	Japan	Industry	Industrial Applications	9	BL46XU	Np
405	2023B1675	Effect of miniaturization using flexible metal-organic frameworks on molecular adsorption/desorption	Koh Sugamata	Rikkyo University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np

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406	2023B1676	Mechanism Investigation of a Novel Double Perovskite Oxide Exhibiting Significant Exchange Bias Effect at Low Cooling Magnetic Fields	Kazunari Yamaura	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL02B2	Np
407	2023B1677	In-situ USAXS analysis of the dilatancy phenomenon under high-speed shearing to solid and liquid composite.	Keishi Akada	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	8.875	BL19B2	Np
408	2023B1678	Electronic structure analysis of heteroatoms in zeolite framework by in situ X-ray absorption spectroscopy	Maiko Nishibori	Tohoku University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
409	2023B1679	Investigation of electronic state of active site of non-noble metal ammonia synthesis catalyst by In-situ XAFS	Katsutoshi Sato	Nagoya University	Japan	Educational Organization	Industrial Applications	8.625	BL01B1	Np
410	2023B1680	Observation of molecular single-crystal to single-crystal phase transition of Ni porphyrin-C60 co-crystal under high pressure	Kunihisa Sugimoto	Kindai University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
411	2023B1681	Effect of working distance on signal intensity during photoelectron spectroscopy measurements under atmospheric pressure	Yasumasa Takagi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL46XU	Np
412	2023B1682	X-ray Single Crystal Structural Analysis for Microcrystals of Novel Reactive Heavier Group 14 element Compounds	Mao Minoura	Rikkyo University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
413	2023B1683	Analysis of local structure of hazardous metal adsorbents by XAFS (3)	Masaru ENDO	Daicel Corporation	Japan	Industry	Industrial Applications	2.875	BL14B2	Np
414	2023B1685	Detection of stress-induced phase transitions in transition metal dichalcogenides by HAXPES	Hiroshi Nohira	Tokyo City University	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np
415	2023B1687	Effect of halide ratio on structural phase transitions in halide perovskite single crystals	Naoyuki Shibayama	Toin University of Yokohama	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
416	2023B1688	Operando strain measurement near killer defects of GaN vertical power devices using time-resolved nanobeam X-ray diffraction	Yusuke Hayashi	Osaka University	Japan	Educational Organization	Materials Science and Engineering	15	BL13XU	Np
417	2023B1689	Observation of 5d valence electron on Pt nano-particles investigated by using resonant HAXPES	Akira Yasui	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL09XU	Np
418	2023B1690	Controlling charge-density-wave instability in 1T-TaS2: From Mott state to superconductivity	Naoki Murai	Japan Atomic Energy Agency	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL02B1	Np
419	2023B1735	Inelastic X-ray scattering of carbon nanotube composite ribbon with high thermal conductivity	Yuki Sekimoto	Nara Institute of Science and Technology	Japan	Educational Organization	Materials Science and Engineering	12	BL35XU	Np
420	2023B1802	Investigation of macroscopic swelling and repulsive osmotic delamination of high-aspect ratio fluorohectorite in chloroform	Kamonnart Imwiset	Vidyasirimedhi Institute of Science and Technology	Thailand	Foreign	Materials Science and Engineering	6	BL19B2	Np
421	2023B1803	Application of synchrotron radiation in materials crystallography	Bo Iversen	University of Aarhus	Denmark	Foreign	Materials Science and Engineering	12	BL02B1	Np
422	2023B1804	Structural Analysis of Bimetallic Nanoparticles Catalysts Encapsulated in Silica Hollow Spheres Using Operando XAFS/XRD	Yasutaka Kuwahara	Osaka University	Japan	Educational Organization	Chemical Science	5.375	BL01B1	Np
423	2023B1805	Elucidation of structural changes under oxidative/reductive conditions in multicomponent nanoparticles/oxide using operando XAFS/XRD observations	Kohsuke Mori	Osaka University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
424	2023B1806	Single-Crystal X-ray Diffraction Analysis of Organic pi-Conjugated Compounds with Thermoelectric Properties	Michihisa Murata	Osaka Institute of Technology	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
425	2023B1807	Elucidation of low-valent active Ru species catalyzing CO ₂ activation at low temperatures using AP-HAXPES observations under reaction conditions	Kohsuke Mori	Osaka University	Japan	Educational Organization	Chemical Science	6	BL46XU	Np
426	2023B1808	Investigations on molecular alignments of materials for high-performance organic solar cells without nanometer-scale phase separation structure	Tomokazu Umeyama	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
427	2023B1809	XAFS study on structural evolution of Ru-Ni/hydrochar catalysts for promoting methanol steam reforming under harsh conditions	Chao Gai	Tohoku University	Japan	Educational Organization	Industrial Applications	6	BL01B1	Np
428	2023B1810	Superior zero thermal expansion alloy via natural heterogeneous structure	Chengyi Yu	University of Science and Technology Beijing	China	Foreign	Materials Science and Engineering	3	BL02B2	Np
429	2023B1811	Investigation of nucleation behavior of glass-ceramics using XAFS	Shingo Machida	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	3	BL14B2	Np
430	2023B1812	Investigation of origin of thermal reentrant change of crystal phase in layered nickelates	Hideyuki Kawasoko	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
431	2023B1813	Creation of innovative electronic devices using novel ferroelectric materials	Yuji Noguchi	Kumamoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np

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432	2023B1819	Local structure change in Cu doped NiMoOx hydrogen evolution electrocatalyst due to the accelerated stability tests, its regeneration, and stabilization	Keisuke Obata	The University of Tokyo	Japan	Educational Organization	Chemical Science	3	BL14B2	Np
433	2023B1823	Elucidation of pillar metal species in Li-rich positive electrode by X-ray absorption edge fine structure analysis using resonant X-ray scattering	Masatsugu Oishi	Tokushima University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
434	2023B1825	Oxygen reduction reaction activity in platinum clusters controlled with atomic precision: Elucidation of the activity improvement mechanism by coordination of amine compounds	Tokuhiwa Kawawaki	Tokyo University of Science	Japan	Educational Organization	Chemical Science	9	BL01B1	Np
435	2023B1827	Synthesis, elucidation of formation behavior, and structure of novel fluorine-containing compounds	Yoshiyuki Inaguma	Gakushuin University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
436	2023B1828	Elucidation of photoinduced phase transition phenomenon of photochromic diarylethene crystals	Kingo Uchida	Ryukoku University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
437	2023B1829	Structure refinements of polynuclear complexes with highly efficient hydrogen evolution performance	Yusuke Kataoka	Shimane University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
438	2023B1831	Valence evaluation of rare-earth higher borides RB66 (R=Ce, Sm and Yb)	Fumitoshi Iga	Ibaraki University	Japan	Educational Organization	Materials Science and Engineering	3	BL14B2	Np
439	2023B1832	Change in electronic and local structures of Mg(Co,Ni,Mn,Al)2O4 cathode material for magnesium rechargeable batteries during discharge/charge cycles	Yasushi Idemoto	Tokyo University of Science	Japan	Educational Organization	Industrial Applications	3	BL14B2	Np
440	2023B1836	Structural dynamics of Pt electrode surface during oxidation process	Masashi Nakamura	Chiba University	Japan	Educational Organization	Chemical Science	11	BL13XU	Np
441	2023B1837	In-situ observation of heat storage process in HASClay using small angle scattering measurement	Noriyuki Yoshimoto	Iwate University	Japan	Educational Organization	Industrial Applications	3	BL19B2	Np
442	2023B1838	Analysis of phase structure and nanostructure of epoxy / methacrylic polymer blends during polymerization process	Hajime Kishi	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
443	2023B1839	Precise structure analysis on a novel titanite-type oxide and elucidation on the stabilization mechanism of antiferroelectric phases	Tarou Kuwano	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
444	2023B1840	JASRI president fund project: Development of AP-HAXPES set-up under oxygen evolution reaction conditions	Okkyun Seo	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Chemical Science	12	BL46XU	Np
445	2023B1842	Fine structural analysis of hybrid molecules of polyoxometalates and multidentate organic ligands	Kosuke Suzuki	The University of Tokyo	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
446	2023B1843	Evaluation of thermal expansion property of wide-temperature range operation giant negative thermal expansion material BiNi _{1-x} MxO ₃ (M=Al, Sc, Ti, V, Cr, Mn, Fe, Co, Cu, Mb)	Masaki Azuma	Tokyo Institute of Technology	Japan	Educational Organization	Industrial Applications	6	BL02B2	Np
447	2023B1845	XAFS measurement of standard sample for SPring-8 BL14B2 XAFS database (10)	Hironori Ofuchi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Industrial Applications	3	BL14B2	Np
448	2023B1846	Hyperpolarization of biomolecules using supramolecular synthons in cocrystals	munehiro inukai	Tokushima University	Japan	Educational Organization	Materials Science and Engineering	2	BL02B2	Np
449	2023B1847	Electronic and local structure analysis of iron-based oxyfluoride cathode materials during insertion and extraction of fluoride ions(2)	Kentaro Yamamoto	Nara Women's University	Japan	Educational Organization	Industrial Applications	6	BL14B2	Np
450	2023B1850	Elucidation of multi-step gate-opening behavior of flexible porous coordination polymer toward CO ₂ gas	Susumu Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	5.875	BL02B2	Np
451	2023B1851	Suppression of Defect Formation in Indium Oxide toward Fabrication of Ultra-High Mobility Oxide TFTs: Role of Oxygen Vacancy Compensation by Hydride Ions.	Junghwan Kim	Ulsan National Institute of Science and Technology	Korea	Foreign	Materials Science and Engineering	6	BL09XU	Np
452	2023B1853	Structural Characterization Silver Sulfide Nanocluster protected by mix thiol ligands	Zi Lang Goo	Kindai University	Japan	Educational Organization	Chemical Science	2.75	BL02B1	Np
453	2023B1855	Construction and Conductive Properties of Inorganic Cluster-Surfactant Hybrid Crystals	Takeru Ito	Tokai University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
454	2023B1858	XAFS Analysis of Rare-Earth Ion-Doped Glasses Prepared by Micro Melting System	Tetsuo Kishi	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL14B2	Np
455	2023B1859	Quantum Crystallography for environmentally friendly copper sulfide thermoelectrics.	Eiji Nishibori	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	3	BL02B1	Np

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S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
456	2023B1860	Structural investigation on the gigantic ruthenium-organic polyhedra with various geometric shapes	Shuhei Furukawa	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL02B1	Np
457	2023B1861	Crystal structure determination of halogen-containing semiconductive MOF synthesized based on materials informatics	Daisuke Tanaka	Kwansei Gakuin University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
458	2023B1862	Operando Observation of the Electronic State for Elucidation of the Solid-gas and Solid-Liquid Interfacial Phenomena using HAXPES with Ambient Pressure Cell	Eiji Ikenaga	Nagoya University	Japan	Educational Organization	Chemical Science	17.75	BL09XU	Np
459	2023B1863	Understanding the kinetics of gate adsorption behavior on metal-organic frameworks V	Shotaro Hiraide	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
460	2023B1864	Precise X-ray structural elucidation of copper-penicillamine complex with multivalent metal cations	Nobuto Yoshinari	Osaka University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
461	2023B1867	Valence state analysis of multi-metal phosphides by HAXPES	Satoshi Muratsugu	Nagoya University	Japan	Educational Organization	Chemical Science	3	BL09XU	Np
462	2023B1869	Mesoscopic structure analysis on aqueous solutions of monoglyceride surfactants	Naoto Iwata	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
463	2023B1871	Redox behavior of Pd/ composite manganese oxide catalyst using hard x-ray photoelectron microscopy under oxidative-reductive gases atmosphere	toyokazu tanabe	National Defense Academy of Japan	Japan	Educational Organization	Materials Science and Engineering	2.875	BL46XU	Np
464	2023B1872	Capturing oxidation state and reconstruction of heteroatom-modified Cu electrocatalyst for CO(2) electroreduction with electrolyte and applied potential	Keisuke Obata	The University of Tokyo	Japan	Educational Organization	Chemical Science	3	BL14B2	Np
465	2023B1873	Identification of the order-disorder transition temperature of L11-type Pt-Cu-Co ternary alloy nanoparticles	Kenshi Matsumoto	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
466	2023B1875	Investigation of the multi-step gate-opening behavior of a flexible porous coordination polymer in response to CO2 gas using the in situ SCXRD technique.	Susumu Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
467	2023B1877	Ambient pressure hard X-ray photoelectron spectroscopy for electrochemical interface with hygroscopic thin-film electrolyte layer	Beomgyun Jeong	Korea Basic Science Institute	Korea	Foreign	Chemical Science	6	BL46XU	Np
468	2023B1878	Elucidation for molecular adsorption/desorption behavior of flexible metal-organic frameworks	Koh Sugamata	Rikkyo University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
469	2023B1881	Unveiling the structure-performance relationship over mixed-metal metal-organic framework-based Electrocatalysts for Electrochemical Synthesis of Ammonia by using operando XAFS	Susumu Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL14B2	Np
470	2023B1882	Electron density analysis of curved pi-conjugated radical anions	Shinobu Aoyagi	Nagoya City University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
471	2023B1887	Investigation of the influence of additives on the crystallization process of perovskite crystals	Naoyuki Shibayama	Toin University of Yokohama	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
472	2023B1889	Impurity addition to halide perovskite crystals	Naoyuki Shibayama	Toin University of Yokohama	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
473	2023B1890	Evaluation of new Thorium-229 crystal targets toward solid-state Nuclear Clock	Sayuri Takatori	Okayama University	Japan	Educational Organization	Elementary Particles, Nuclear Science	3	BL14B2	Np
474	2023B1892	In-situ observation of field-induced ferroelectric/paraelectric phase transition in Ce-doped HfO ₂	Kazuki Okamoto	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	11.875	BL19B2	Np
475	2023B1893	Development of gold nanoparticle X-ray contrast agent applicable to human diagnostic imaging	Kohsuke Gonda	Tohoku University	Japan	Educational Organization	Medical Applications	2	BL47XU	Np
476	2023B1894	Elucidation of CaH ₂ reduction of BaTiO ₃ with topochemical anion exchange reaction using time-resolved XRD measurement	Hiroki Ubukata	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
477	2023B1896	Mechanisms of leaching of trace elements associated with the progression of reducing conditions in paddy soils and the effect of clay mineral application as a countermeasure	Yoshio Takahashi	The University of Tokyo	Japan	Educational Organization	Environmental Science	6	BL01B1	Np
478	2023B1901	Accurate Structural Analysis of Ceramic Materials for Microbial Fuel Cells by Powder X-ray Diffraction	Hidetoshi Miyazaki	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np

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479	2023B1902	Establishment of thermal history designing through observation of phase separation development in TiO2 doped borosilicate glass by time-resolved high temperature in-situ SAXS measurement	Kana Tomita	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	4	BL19B2	Np
480	2023B1903	In-situ observation of the synthesis process of functional oxides using amorphous precursors IV	Takumi Nishikubo	Kanagawa Institute of Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL02B2	Np
481	2023B1904	Electronic structure of triple half-Heusler-type (Mg, V)NiSb to elucidate its unique thermoelectric conversion properties	Hidetoshi Miyazaki	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np
482	2023B1907	Structural Analysis of Heavy Metal Ions (Zn2+, Cd2+) Adsorbed on Calcium Carbonate	Daisuke Kawamoto	Okayama University of Science	Japan	Educational Organization	Environmental Science	6	BL14B2	Np
483	2023B1909	Local structure of triple half-Heusler-type (Mg, V)NiSb to elucidate its unique thermoelectric conversion properties	Hidetoshi Miyazaki	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	3	BL01B1	Np
484	2023B1910	Determination of field stress induced charge trap distribution in Si3N4 by voltage-applied AR-HAXPES	Hiroshi Nohira	Tokyo City University	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np
485	2023B1912	Changes in local structure and ionic valence due to oxygen absorption/release of layered manganese oxides with oxygen storage property	Hiroki Ishibashi	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	3	BL01B1	Np
486	2023B1913	Elucidation of active site structure of Cu-Bi electrocatalysts with high formic acid selectivity in CO2 reduction reaction	Kousuke Beppu	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
487	2023B1914	Visualization of reaction and formation process of oxyfluoride by hydrothermal synthesis method using high-pressure cell	Seiya Shimono	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL02B2	Np
488	2023B1915	Study on the mechanism of fast charge and discharge for polyanion-compound cathodes for aluminum ion batteries using dual-salt electrolytes	Katsuhiko Naoi	Tokyo University of Agriculture and Technology	Japan	Educational Organization	Chemical Science	12	BL01B1	Np
489	2023B1976	Unusual Negative Thermal Expansion in PbVO3-Based Perovskites	Zhao Pan	Chinese Academy of Sciences	China	Foreign	Materials Science and Engineering	4.25	BL02B2	Np
490	2023B1977	Composition and lattice parameter determination using halide perovskite single crystals	Naoyuki Shibayama	Toin University of Yokohama	Japan	Educational Organization	Materials Science and Engineering	10.25	BL02B1	Np
491	2023B1981	Electronic structure measurements aimed at elucidating the correlation between excess volume and atomic interactions in ordered-disordered alloy systems	Manabu Watanabe	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL46XU	Np
492	2023B1982	Analysis of Inhomogeneous Reaction Distribution in Battery Electrode by Full-Field XAFS Imaging	Misaki Katayama	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Chemical Science	6	BL01B1	Np
493	2023B1986	Operando X-ray diffraction during torsion deformation process in steel	Satoshi Sugano	Nippon Steel Corporation	Japan	Industry	Industrial Applications	6.125	BL13XU	Np
494	2023B1987	Spin-polarized hard X-ray photoelectron diffraction	Shigenori Ueda	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL09XU	Np
495	2023B1988	Operand observation of Platinum-Group-Metal High-Entropy Alloy (PGM-HEA) Nanoparticles showing catalytic activity for hydrogen evolution reaction by XAFS II	Hiroshi Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL14B2	Np
496	2023B1989	In situ XAFS Measurement on the Structure of the Intermediate in Coupling Reaction to afford Alcohols: Structural Analysis toward Precision Design of Chiral Ligand for Asymmetric Synthesis.	Takuya Kurahashi	Kwansei Gakuin University	Japan	Educational Organization	Industrial Applications	5.625	BL14B2	Np
497	2023B1991	Residual stress measurement of multilayer welded austenitic stainless steel SUS316 using double exposure method	Lina Yu	Osaka University	Japan	Educational Organization	Industrial Applications	6	BL19B2	Np
498	2023B1994	Local structural analysis of organic-inorganic perovskite photocatalysts	Takashi Tachikawa	Kobe University	Japan	Educational Organization	Materials Science and Engineering	6	BL13XU	Np
499	2023B1996	Development of automated hard X-ray photoelectron spectroscopy system in BL46XU	Satoshi Yasuno	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	8.875	BL46XU	Np
500	2023B1997	Studies on Formation Mechanisms of Layered Oxides Na _x [Ni, Mn]O ₂ and Structural Changes of the K ₃ /4Na ₁ /4IrO ₂ as Positive Electrode Materials for Rechargeable Sodium·Potassium-Ion Batteries using synchrotron X-Ray diffraction	Shinichi Komaba	Tokyo University of Science	Japan	Educational Organization	Chemical Science	6	BL02B2	Np
501	2023B2000	Structural investigation on the geometrically frustrated molecular crystals assembled from conformationally-flexible gigantic copper-organic octahedra	Shuhei Furukawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np

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S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
502	2023B2001	XAFS analyses of carboxylate coordination polymer showing phase transition by solvent evaporation	Hiroyasu Tabe	Kyoto University	Japan	Educational Organization	Chemical Science	3	BL14B2	Np
503	2023B2003	Yb 4f-5d Coulomb repulsion for the Au-Ga-Yb 2/1 Quasicrystalline Approximant: Combined measurements of resonant X-ray spectroscopies around the Yb L ₃ absorption region	Kojiro Mimura	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np
504	2023B2004	Observation of Temperature Dependence on Au-Au Bond for Polymer-stabilized Atomically Precise Au Cluster using Cryo-XAFS	Shinya Masuda	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	3	BL01B1	Np
505	2023B2005	Observation of Structural Change in Novel Ru and In Alloy Nanoparticles under Hydrogen Atmosphere	Hiroshi Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
506	2023B2006	Establishment of measurements for valence electron density analysis for single crystals containing mulch domain structures	Hiroshi Sawa	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
507	2023B2008	Structural analysis of Pd catalysts controlled metal-metal oxide interface	Saburo Hosokawa	Kyoto Institute of Technology	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
508	2023B2010	HAXPES trial of metal ions of active protein	Toyohiko Kinoshita	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Life Science	9	BL46XU	Np
509	2023B2012	Observation of a topochemical redox reaction on Sr-Fe-based layered perovskite oxide with other transition metal by using milli-second time-resolved XRD measurements	Saburo Hosokawa	Kyoto Institute of Technology	Japan	Educational Organization	Chemical Science	8.625	BL13XU	Np
510	2023B2015	Crystal structure determination of lead-halide semiconductive MOF synthesized based on materials informatics	Daisuke Tanaka	Kwansei Gakuin University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
511	2023B2017	Local Structure Analysis of Cathode Additives for Lead Acid Batteries using XAFS (3)	Toshiki Watanabe	Kyoto University	Japan	Educational Organization	Industrial Applications	6	BL14B2	Np
512	2023B2018	Evaluation of the electrode/transparent conducting film interface in newly developed low-temperature curing electrode pastes for low-cost resource-saving solar cells.	Atsushi Ogura	Meiji University	Japan	Educational Organization	Industrial Applications	6	BL46XU	Np
513	2023B2019	Function Development of Metal-Organic Frameworks Using Amorphous-to-Crystalline Phase Transition	Shunsuke Tanaka	Kansai University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
514	2023B2020	Phase transition of iron carbide in Fe-based Fischer-Tropsch catalysts via in-situ XAFS analysis	Shuhei Yamada	ENEOS Corporation	Japan	Industry	Industrial Applications	9	BL01B1	Np
515	2023B2021	HAXPES analysis of IGZO thin film transistors with HfO _x as gate insulator	Tetsuya Miyazawa	Kobe Steel, Ltd.	Japan	Industry	Industrial Applications	6	BL09XU	Np
516	2023B2022	Gas adsorption dynamics of porous coordination polymers with interpenetrated structure in the early stage of the gas adsorption process	Yoshiki Kubota	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	6	BL13XU	Np
517	2023B2023	Structure and electronic state analysis of dopant metal species to gold-based catalysts for hydrogenation of carbon dioxide to methanol	Tetsuya Shishido	Tokyo Metropolitan University	Japan	Educational Organization	Industrial Applications	6	BL01B1	Np
518	2023B2025	Determination of crystalline phase diagram of ferrite permanent magnet materials up to 1700 °C by ultra-high temperature powder diffraction measurement methods using the infrared heating system	Shintaro Kobayashi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL13XU	Np
519	2023B2026	Identification of crystalline layer thickness and measurement of crystalline component distribution in the surface hardening layer of powder compressed tablet using X-ray diffraction.	Tetsu Kamiya	Nagase & Co., Ltd	Japan	Industry	Industrial Applications	3	BL19B2	Np
520	2023B2027	Visualization of particle rearrangement and particle contacts during powder compression process	Tetsu Kamiya	Nagase & Co., Ltd	Japan	Industry	Industrial Applications	2	BL14B2	Np
521	2023B2029	Local Structure Analysis of the Modified Layer at the Cathode/Solid Electrolyte Interface in All-Solid-State Lithium-Ion Secondary Batteries Part2	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Industrial Applications	4.25	BL14B2	Np
522	2023B2030	High quality Single-Crystal X-ray Diffraction measurement of mix thiol silver sulfide clusters for quantum crystallography analyses	Zi Lang Goo	Kindai University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
523	2023B2033	Investigation of atomic-scale structure of amorphous aluminum oxide thin films using grazing incidence X-ray scattering	L. S. Kumara	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	5	BL19B2	Np
524	2023B2034	Glassy transitions with significant thermal response in plastic crystal levoglucosan	Bing Li	Chinese Academy of Sciences	China	Foreign	Materials Science and Engineering	3	BL02B2	Np
525	2023B2037	Evaluation of negative thermal expansion property of BiNi _{1-x} Fe _x O ₃ by commercial production IX	Masaki Azuma	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	5	BL02B2	Np

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S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
526	2023B2038	X-ray Single Crystal Structural Analysis for Microcrystals of Novel Reactive Heavier Group 14 element Compounds	Mao Minoura	Rikkyo University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
527	2023B2039	Long-cycle Stability from Electronic Structures of Novel High-capacity Cathodes	Zhigang Zhang	Yantai University	China	Foreign	Materials Science and Engineering	6	BL02B2	Np
528	2023B2040	Synthesis and elucidation of relationship between structure and polarity of novel perovskite-type oxy-fluorides	Yoshiyuki Inaguma	Gakushuin University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
529	2023B2041	Identification of low-temperature superstructures below structural transition in organic conductors with disordered anion layers	Yukihiro Yoshida	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
530	2023B2043	Anisotropy in Sm 4f and Co, Fe 3d electronic states revealed by polarization and sample-angle dependent measurement of core level and valence band photoemission aiming elucidation of the mechanism of magnetic anisotropy of Sm(Fe,Co)12B	Shin Imada	Ritsumeikan University	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np
531	2023B2045	Crystal structure analysis of nickel-based oxyfluoride cathode materials during insertion and extraction of fluoride ions	Kentaro Yamamoto	Nara Women's University	Japan	Educational Organization	Chemical Science	6	BL19B2	Np
532	2023B2047	Topochemical Fluorination of Layered Perovskites NaRTiO4 (R: rare earth) and Determination of Fluorine Sites and Coordination Octahedral Rotation Patterns	Hirofumi Akamatsu	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
533	2023B2051*	Composition dependent of crystal and electronic structure, and electrochemical performance of MgCo2-x-y-zNiMnyAlzO4 as cathode of magnesium secondary batteries at room temperature	Yasushi Idemoto	Tokyo University of Science	Japan	Educational Organization	Industrial Applications	3	BL19B2	Np
534	2023B2052	Electronic and local structure analysis of nickel-based oxyfluoride cathode materials during insertion and extraction of fluoride ions	Kentaro Yamamoto	Nara Women's University	Japan	Educational Organization	Chemical Science	3	BL14B2	Np
535	2023B2053	Monitoring structural and chemical states evolution in core-shell structured multi-elemental alloy nanoparticles	Dongshuang Wu	Nanyang Technological University	Singapore	Foreign	Chemical Science	9	BL09XU	Np
536	2023B2054	Isotropic negative thermal expansion in MHF6 (M = Ca, Mn, Fe, and Co)	Qilong Gao	Zhengzhou University	China	Foreign	Chemical Science	3	BL02B2	Np
537	2023B2056	Effects of different solvent species on complexation status and crystallization growth process of halide perovskite crystals	Naoyuki Shibayama	Toin University of Yokohama	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
538	2023B2057	Exploring Adsorption Mechanisms via Structural Analyses of Gate-Opening Adsorption Phenomena in Flexible Porous Coordination Polymers Near	Ken-ichi Otake	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
539	2023B2061	Electrochemical XAS measurements of organic electrochemical CO2 insertion reaction using nickel complex catalysts	Yuta Uetake	Osaka University	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
540	2023B2063	Time-resolved observation of structural changes in azobenzene-functionalized epoxy networks under light irradiation	Kanae Ito	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL19B2	Np
541	2023B2064	Dynamical disorder and weak temperature dependent thermal conductivity of CsCu2I3	Jiawang Hong	Beijing Institute of Technology	China	Foreign	Materials Science and Engineering	3	BL02B1	Np
542	2023B2065	Structural Elucidation of Foams Formed by Polyoxyethylene Alkyl Ether Sulfanic Acid-Type Anionic Surfactants Using SAXS	Tomokazu Yoshimura	Nara Women's University	Japan	Educational Organization	Materials Science and Engineering	5.625	BL19B2	Np
543	2023B2070	Operando DRIFTS-XAS observation of molecular activation behavior over heteroatom-doped Au cluster	Soichi Kikkawa	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	7.25	BL01B1	Np
544	2023B2071	Time-resolved XAFS to reveal the Pd catalyst variation under applied oscillating electrical potentials for significant CO2 hydrogenation promotion	Ning Yan	National University of Singapore	Singapore	Foreign	Chemical Science	6	BL14B2	Np
545	2023B2077	Structural study of the excitonic insulator metallized by elemental substitutions	Yusuke Hirose	Niigata University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
546	2023B2078	Gas adsorption behavior of porous polyoxometalates	Kunihisa Sugimoto	Kindai University	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
547	2023B2081	Study on catalytic behavior during CO2 reduction reaction in aqueous solution containing organic amines	Takashi Harada	Osaka University	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
548	2023B2082	Direct Observation of Gate-Opening Adsorption Phenomena in Flexible Porous Coordination Polymers Near Room Temperature	Ken-ichi Otake	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
549	2023B2083	Elucidating Adsorption and Desorption Behavior of Small Molecules in Flexible Metal-Organic Frameworks	Koh Sugamata	Rikkyo University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np

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550	2023B2084	Observation of magnetic-field-induced quantum criticality on YbRh ₂ Si ₂ using resonant HAXPES and XES combined with x-ray polarization controlling under external magnetic field	Akira Yasui	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	8.625	BL09XU	Np
551	2023B2085	Amorphous to crystalline materials upon gas sorption in metal-organic frameworks constructed by metal-organic polyhedra assembly	Javier Lopez	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
552	2023B2086	Probing spin-polarized electronic structure using magnetic circular dichroism in core-level hard x-ray photoemission in halfmetallic Heusler alloys	Hidenori Fujiwara	Osaka University	Japan	Educational Organization	Materials Science and Engineering	15	BL09XU	Np
553	2023B2088	Investigation of Ge Cluster Distribution in Bulk SiGe Grown in Microgravity Condition by Small-Angle X-ray Scattering with Synchrotron Radiation	Ryo Yokogawa	Meiji University	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
554	2023B2091*	Humidity-environment measurements of surface chemical structure on amphiphilic gel materials	Eri Ito	Menicon Co., Ltd.	Japan	Industry	Industrial Applications	6	BL46XU	Np
555	2023B2092	Analysis on strain and phase for Inconel718 alloy in tensile deformation in-situ X-ray diffraction measurement at high temperature	Atsushi Ito	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
556	2023B2094	XAFS-DFT-based Investigation of Homogeneous Transition-Metal Catalysts for Ethylene Oligomerization	Hikaru Takaya	TEIKYO University of Science	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
557	2023B2095	Elucidation of phase change behavior of Mn-based magnetic ionic liquids by in-situ X-ray diffraction measurement	Seiya Shimono	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL02B2	Np
558	2023B2516	Structural basis for photosynthetic pigment-protein complexes to understand various light-harvesting strategy in photosynthetic organisms	Ryo Nagao	Shizuoka University	Japan	Educational Organization	Life Science	6	PX-BL (EM01CT)	Np
559	2023B2517	Rational design of Molecular Glue using crystal-structure based drug screening	Hironori Hayashi	Tohoku University	Japan	Educational Organization	Life Science	3.5	PX-BL (BL41XU)	Np
560	2023B2518	Structural analysis of membrane transport protein complexes	Kazuhiro Abe	Nagoya University	Japan	Educational Organization	Life Science	42	PX-BL (EM01CT)	Np
561	2023B2520	Crystal Structure Analysis of computationally designed artificial proteins and c-type heme enzymes	Tsuyoshi Mashima	Nara Institute of Science and Technology	Japan	Educational Organization	Life Science	2.5	PX-BL (BL45XU)	Np
562	2023B2522	Development of room-temperature measurement and various structure analysis for protein crystals using synchrotron radiation	Seiki Baba	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Life Science	25.25	PX-BL (BL26B1, BL41XU)	Np
563	2023B2523	Crystal structure analysis of protein oligomers and nanostructures based on 3D domain swapping	Shun Hirota	Nara Institute of Science and Technology	Japan	Educational Organization	Life Science	0.5	PX-BL (BL45XU)	Np
564	2023B2524	Interdomain interactions in signal-transducing protein Grb2	Masayuki Oda	Kyoto Prefectural University	Japan	Educational Organization	Life Science	3	PX-BL (BL38B1)	Np
565	2023B2525	Structural and functional analysis for mineral transporters from crop plants	Michihiro Suga	Okayama University	Japan	Educational Organization	Life Science	15	PX-BL (BL41XU, BL45XU, EM01CT, EM02CT)	Np
566	2023B2526	Structural analysis of ubiquitin signaling for mitophagy and inflammation	Kei Okatsu	Kyoto University	Japan	Educational Organization	Life Science	1.75	PX-BL (BL45XU)	Np
567	2023B2527	Alkyne/alkene hydroaminases or hydroalkoxylases from silver(I)/gold (I)-complexed thiamine enzyme MenD	Zhihong Guo	Hong Kong University of Science and Technology	Hong Kong	Foreign	Life Science	2.5	PX-BL (BL45XU)	Np
568	2023B2528	Elucidation of substrate recognition and catalytic mechanisms of carbohydrate-related enzymes from microorganisms	Shinya Fushinobu	The University of Tokyo	Japan	Educational Organization	Life Science	2	PX-BL (BL45XU)	Np
569	2023B2529	Analysis of structure-sweetness relationships on sweet-tasting proteins at an atomic resolution with ambient temperature	Tetsuya Masuda	Ryukoku University	Japan	Educational Organization	Life Science	2	PX-BL (BL26B1)	Np
570	2023B2530	Crystallographic study on the electric-field response of membrane proteins	Kazuki Takeda	Kyoto University	Japan	Educational Organization	Life Science	6	PX-BL (BL41XU)	Np
571	2023B2531	Structural and functional analysis of CRISPR-Cas effector	Tomoyuki Numata	Kyushu University	Japan	Educational Organization	Life Science	41.5	PX-BL (BL26B1, BL45XU, EM01CT, EM02CT)	Np
572	2023B2532	Structural analysis of human lipocalin-type prostaglandin D synthase (L-PGDS) complexed with Lapatinib	Takashi Inui	Osaka Metropolitan University	Japan	Educational Organization	Life Science	1	PX-BL (BL26B1)	Np

2023B, Performed General Proposals

* SPring-8 Research Proposals in Complementary Use with SACLA, J-PARC/MLF or HPCI including the K computer / the supercomputer Fugaku

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
573	2023B2533	Structure analysis by crystal lattice engineering	Makoto Nakabayashi	Osaka Ohtani University	Japan	Educational Organization	Life Science	2.25	PX-BL (BL26B1, BL45XU)	Np
574	2023B2535	Three-dimensional structure analysis of membrane receptor-like cell adhesion molecules and their ligands that function in neuronal synapses	Shuya Fukai	Kyoto University	Japan	Educational Organization	Life Science	0.5	PX-BL (BL45XU)	Np
575	2023B2536	Structural analysis of the transport mechanism of oxalate transporter OxIT in an oxalate-degrading bacterium in the gut microbiota	Atsuko Yamashita	Okayama University	Japan	Educational Organization	Life Science	1	PX-BL (BL41XU)	Np
576	2023B2537	Structural basis of backward motility of kinesin motor Ncd	Ryo Nitta	Kobe University	Japan	Educational Organization	Life Science	9	PX-BL (EM01CT)	Np
577	2023B2540*	Structural analysis of proteins involved in iron acquisition and transport system	Hiroshi Sugimoto	RIKEN	Japan	National and Nonprofit Organization	Life Science	16	PX-BL (BL45XU, EM01CT, EM02CT)	Np
578	2023B2544	Structural analysis of substrate recognition mechanism of Ribonuclease	Takamasa Teramoto	Kyushu University	Japan	Educational Organization	Life Science	3	PX-BL (BL45XU)	Np
579	2023B2549	Single crystal structure analysis of giant artificial protein molecules using synchrotron radiation X-ray	Sota Sato	The University of Tokyo	Japan	Educational Organization	Chemical Science	9.75	PX-BL (BL41XU, BL45XU)	Np
580	2023B2715	Structural analysis of photosynthetic membrane protein complexes from cyanobacteria	Yoshiki Nakajima	Okayama University	Japan	Educational Organization	Life Science	9	PX-BL (EM01CT)	Np
581	2023B2716	Structural analysis of photosynthetic membrane protein supercomplexes by the combination of X-ray crystallography and cryo-electron microscopy	Jian-Ren Shen	Okayama University	Japan	Educational Organization	Life Science	3	PX-BL (EM01CT)	Np
582	2023B2718	Structural analysis for elucidating the mechanism of the metalloenzyme maturation	Norifumi Muraki	Keio University	Japan	Educational Organization	Life Science	1.5	PX-BL (BL41XU, BL45XU)	Np
583	2023B2719	Crystallographic study on enzymes utilizing high-energy bond of phosphate groups	Masahiro Fujihashi	Osaka Medical and Pharmaceutical University	Japan	Educational Organization	Life Science	3	PX-BL (BL26B1, BL45XU)	Np
584	2023B2720	Structural basis of the proteins in bacterial environmental response systems	Katsumi Imada	Osaka University	Japan	Educational Organization	Life Science	3	PX-BL (BL41XU)	Np
585	2023B2721	Structural basis of the adhesive fimbriae of Bacteroides	Katsumi Imada	Osaka University	Japan	Educational Organization	Life Science	1.5	PX-BL (BL41XU)	Np
586	2023B2724	X-ray structural analysis of tight junction related membrane proteins	Shun Nakamura	Tokyo Medical and Dental University	Japan	Educational Organization	Life Science	1	PX-BL (BL45XU)	Np
587	2023B2725	Elucidation of the substrate recognition mechanism of tRNA modifying enzyme complex	Akira Hirata	Tokushima University	Japan	Educational Organization	Life Science	3.5	PX-BL (BL45XU, EM02CT)	Np
588	2023B2726	Structural basis of catalytic mechanism and substrate specificity of bacterial homolog to hydroxybutyrate dehydrogenase from mammalian	Seiya Watanabe	Ehime University	Japan	Educational Organization	Life Science	2.5	PX-BL (BL41XU, BL45XU)	Np
589	2023B2727	Structural analysis of the Sec translocon complex, thiosulfate/sugar transporters	Tomoya Tsukazaki	Nara Institute of Science and Technology	Japan	Educational Organization	Life Science	9	PX-BL (EM01CT, EM02CT)	Np
590	2023B2728	Conformational change of helix-bundle protein induced upon metal-ion binding	Masayuki Oda	Kyoto Prefectural University	Japan	Educational Organization	Life Science	3	PX-BL (BL38B1)	Np
591	2023B2729	Structure analyses of poor water-insoluble compound complexes with the high-strength hydrogel method	Shigeru Sugiyama	Kochi University	Japan	Educational Organization	Life Science	5.5	PX-BL (BL41XU, BL45XU)	Np
592	2023B2730	Alteration of peroxiredoxin assembly by chemical modification	Tomoki Himiyama	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Life Science	1	PX-BL (BL45XU)	Np
593	2023B2731	Structural basis for ultrahigh binding affinity of solute-binding proteins from abundant oligotrophic bacteria	Benjamin Clifton	Okinawa Institute of Science and Technology Graduate University	Japan	Educational Organization	Life Science	2	PX-BL (BL45XU)	Np
594	2023B2732	X-ray crystal structure determination of the nuclear receptor PPAR ligand binding domains in complexes with pan-antagonists	Takuji Oyama	University of Yamanashi	Japan	Educational Organization	Life Science	1.75	PX-BL (BL45XU)	Np
595	2023B2733	Elucidation of functions of food-related enzymes by X-ray analysis with freezing and nonfreezing crystals.	Bunzo Mikami	Kyoto University	Japan	Educational Organization	Life Science	19.25	PX-BL (BL26B1)	Np
596	2023B2737	Structural and functional analysis for harmful mineral transporters from crop plants	Michihiro Suga	Okayama University	Japan	Educational Organization	Life Science	6	PX-BL (EM01CT)	Np

2023B, Performed General Proposals

* SPring-8 Research Proposals in Complementary Use with SACLA, J-PARC/MLF or HPCI including the K computer / the supercomputer Fugaku

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
597	2023B2738	Integrative structural biology of filament-like bacterial surface appendages in enteric bacterial pathogens	Shota Nakamura	Osaka University	Japan	Educational Organization	Life Science	9	PX-BL (BL45XU, EM01CT)	Np
598	2023B2739	Structure-function analysis of heme oxygenase-like enzyme	Takahiro Mori	The University of Tokyo	Japan	Educational Organization	Life Science	1	PX-BL (BL45XU)	Np
599	2023B2740	Development of automation and improvement of crystallization plate in situ diffraction measurement	Nobuhiro Mizuno	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Life Science	3	PX-BL (BL41XU)	Np
600	2023B2741	Improvement in data collection environment at MX beamline BL41XU	Hideo Okumura	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Life Science	34.875	PX-BL (BL41XU)	Np
601	2023B2743	Structural basis for the molecular recognition and a novel oligomerization of Arf-specific guanine nucleotide exchange factor	Shin-ichi Terawaki	Ehime University	Japan	Educational Organization	Life Science	21	PX-BL (EM02CT)	Np
602	2023B2744	Crystal structure analysis of ion pumps	Chikashi Toyoshima	The University of Tokyo	Japan	Educational Organization	Life Science	4	PX-BL (BL41XU)	Np
603	2023B2745	Development of a Rapid Protein Crystal Structural Analysis Method	Satoshi Abe	Tokyo Institute of Technology	Japan	Educational Organization	Life Science	9	PX-BL (BL32XU)	Np
604	2023B2746	Development of an experimental method for visualising enzymatic reactions induced by temperature jump.	Takaaki Fujiwara	Tohoku University	Japan	Educational Organization	Life Science	1.5	PX-BL (BL45XU)	Np
605	2023B2747	in crystallo" catalytic analysis using HAG method	Takeshi Murakawa	Osaka Medical and Pharmaceutical University	Japan	Educational Organization	Life Science	10.5	PX-BL (BL26B1, BL41XU, BL45XU)	Np
606	2023B2749	Structure Analysis of a Complex between a New Type of Plant Growth Promoters and Its Receptor Proteins	Shuheji Kusano	RIKEN	Japan	National and Nonprofit Organization	Life Science	1.5	PX-BL (BL45XU)	Np
607	2023B2750	X-ray crystal structure analysis of tRNA seleno-modification enzyme	Toyoyuki Ose	Hokkaido University	Japan	Educational Organization	Life Science	6	PX-BL (BL45XU)	Np
608	2023B2752	Temperature dependence of the relationship between structure and activity for cold adapted enzymes by HAG and in-situ methods, and the structural studies on enzymes from plant	Masaki Horitani	Saga University	Japan	Educational Organization	Life Science	4	PX-BL (BL45XU)	Np
609	2023B2753	X-ray crystallography of bacterial import system of host extracellular polysaccharide glycosaminoglycan	Sayoko Oiki	Kyoto University	Japan	Educational Organization	Life Science	1	PX-BL (BL26B1)	Np
610	2023B2754	Structure based protein engineering of PET degrading enzyme Cut190	Nobutaka Numoto	Tokyo Medical and Dental University	Japan	Educational Organization	Life Science	0.75	PX-BL (BL45XU)	Np
611	2023B2755	Structural biology of bacterial molecular systems involved in utilization of blue carbon and recovery of rare earth elements	Wataru Hashimoto	Kyoto University	Japan	Educational Organization	Life Science	1	PX-BL (BL41XU)	Np
612	2023B2757	Structural determination of enzymes involved in the biosynthesis of PHA, a promising biodegradable plastic	Min Fey Chek	Nara Institute of Science and Technology	Japan	Educational Organization	Life Science	3	PX-BL (BL45XU)	Np
613	2023B2759	Structural studies of light-induced energy conversion and transmission mechanisms in photosynthetic proteins	Yasufumi Umena	Nagoya University	Japan	Educational Organization	Life Science	2	PX-BL (BL45XU)	Np
614	2023B2761	Elucidation of reaction mechanism and regulation of function of membrane-bound nitric oxide reductase based on the structural analysis	Takehiko Tosha	University of Hyogo	Japan	Educational Organization	Life Science	15	PX-BL (BL32XU, EM01CT, EM02CT)	Np
615	2023B2762	Structural analysis of phosphatidylserine decarboxylase PISD and lysylphosphatidylglycerol hydrolyase AcvB	Yasunori Watanabe	Yamagata University	Japan	Educational Organization	Life Science	1.5	PX-BL (BL32XU)	Np

2023B, Performed Proprietary General Proposals

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
1	2023B1054	X-ray single crystal structural analysis for structural determination of low molecular organic compound	Shun Narai	Sumitomo Pharma Co., Ltd.	Japan	Industry	Industrial Applications	1.875	BL40XU	P
2	2023B1055	Three-dimensional structural analysis of lithium-ion secondary battery by X-ray imaging method	Naoki Koshitani	Murata Manufacturing Co., Ltd.	Japan	Industry	Industrial Applications	10	BL20XU	P
3	2023B1056	Observation of internal structure of metallic materials.	Ryo Shimamura	Yazaki Corporation	Japan	Industry	Industrial Applications	1	BL47XU	P
4	2023B1057	X-ray fluorescence imaging analysis of fuel cells	Yuki Orikasa	Ritsumeikan University	Japan	Educational Organization	Chemical Science	1	BL37XU	P
5	2023B1058	Correlative analysis of hyperspectral sensing and synchrotron X-ray fluorescence mapping toward inline plant growth monitoring	Yuki Takayama	Tohoku University	Japan	Educational Organization	Life Science	2	BL37XU	P
6	2023B1059	X-ray Imaging Study of Li-ion Battery	Hisao Yamashige	Toyota Motor Corporation	Japan	Industry	Industrial Applications	29.625	BL20XU	P
7	2023B1060	A study on the discrimination of primary and secondary molten marks by 3-dimensional microstructural analysis of voids inside electric molten marks in electric wire sections	Yasuhiro Sato	National Research Institute of Fire and Disaster	Japan	Educational Organization	Materials Science and Engineering	2	BL28B2	P
8	2023B1061	Electrode imaging by fluorescence XAFS	Yuki Takayama	Tohoku University	Japan	Educational Organization	Industrial Applications	1	BL37XU	P
9	2023B1062	Analysis of Magnetic Domain of Soft Magnetic Material	Hiroyuki Nose	IHI Corporation	Japan	Industry	Materials Science and Engineering	3	BL17SU	P
10	2023B1063	Dispersion state analysis of filler in resin using X-ray microtomography	Saotoru Masai	Seiko Epson Corporation	Japan	Industry	Industrial Applications	1	BL47XU	P
11	2023B1064	Observation of 3D structure of actuator	Saotoru Masai	Seiko Epson Corporation	Japan	Industry	Industrial Applications	2	BL28B2	P
12	2023B1065	Nondestructive observation of internal cracks in steel using synchrotron radiation X-ray laminography	Ayuki Yoshizumi	Nippon Steel Corporation	Japan	Industry	Industrial Applications	2.875	BL20B2	P
13	2023B1066	Evaluation for Damage Behavior of CFRP Laminates under Bending Load using Synchrotron Radiation X-ray CT	Hideki Tsuruta	IHI Corporation	Japan	Industry	Industrial Applications	1	BL20XU	P
14	2023B1067	Nondestructive observation of corrosion products on Zn based coating using synchrotron radiation X-ray imaging	Ayuki Yoshizumi	Nippon Steel Corporation	Japan	Industry	Industrial Applications	6	BL47XU	P
15	2023B1068	Investigation of thermal conductivity and chemical state of Power Module Substrate 2 (process survey)	Masashi Fujii	Proterial, Ltd.	Japan	Industry	Materials Science and Engineering	4	BL25SU	P
16	2023B1069	Element distribution analysis of optical fiber using μ -XRF	Shinsuke Nishida	Furukawa Electric Co., Ltd.	Japan	Industry	Industrial Applications	2	BL37XU	P
17	2023B1070	Visualization of Reaction Distribution in Battery Electrode	Hisao Yamashige	Toyota Motor Corporation	Japan	Industry	Industrial Applications	18	BL37XU	P
18	2023B1071	Structural evaluation of porous materials	Takafumi Kawanishi	Nitto Analytical Techno-Center Co., Ltd.	Japan	Industry	Industrial Applications	1	BL28B2	P
19	2023B1072	Structural evaluation of porous materials-2	Takafumi Kawanishi	Nitto Analytical Techno-Center Co., Ltd.	Japan	Industry	Industrial Applications	1	BL28B2	P
20	2023B1073	Morphology observation of All-Solid-State batteries in charge and discharge process using X-ray CT	Yuichi Ikeda	GS Yuasa International Ltd.	Japan	Industry	Industrial Applications	3	BL20B2	P
21	2023B1074	Morphology observation of deposited Li on metallic Li using X-ray CT (3)	Yuichi Ikeda	GS Yuasa International Ltd.	Japan	Industry	Industrial Applications	2	BL47XU	P
22	2023B1075	X-ray imaging	Kazuhiko Komori	SPring-8 Service Co., Ltd.	Japan	Industry	Industrial Applications	1	BL14B2	P
23	2023B1076	Evaluation of hierarchical structure and dispersion of filler in rubber using synchrotron radiation X-ray	Shotaro Miwa	Toyo Tire Corporation	Japan	Industry	Industrial Applications	2	BL19B2	P
24	2023B1077	Crystal structure analysis of catalysts by XRD	Munetaka Taguchi	TOSHIBA NANOANALYSIS CORPORATION	Japan	Industry	Industrial Applications	1	BL13XU	P
25	2023B1078	Thin film X-ray structural analysis of organic thin film	Hisashi Tetsutani	Nissan Chemical Corporation	Japan	Industry	Industrial Applications	1.875	BL13XU	P

2023B, Performed Proprietary General Proposals

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
26	2023B1079	Investigation of local crystal structure of BaTiO ₃ using synchrotron radiation XRD	Ryota Fujio	Murata Manufacturing Co., Ltd.	Japan	Industry	Industrial Applications	1.625	BL13XU	P
27	2023B1080	Analysis on the controlling mechanism to emerge the ultra high strength of stainless steel	Shiro Torizuka	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	P
28	2023B1081	Evaluation of valence band spectra of oxide semiconductor by hard X-ray photoelectron spectroscopy	Yuto Ando	Foundation for Promotion of Material Science and Technology of Japan	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL09XU	P
29	2023B1082	XRD measurement of inorganic compounds	Masashi Ohno	Nissan Chemical Corporation	Japan	Industry	Industrial Applications	1	BL19B2	P
30	2023B1775	3D structure observation of carbon materials	Hiroaki Ohara	NIPPON STEEL Chemical & Material Co., Ltd.	Japan	Industry	Industrial Applications	1	BL47XU	P
31	2023B1776	HAXPES measurement	Kazuhiko Komori	SPRING-8 Service Co., Ltd.	Japan	Industry	Industrial Applications	1	BL46XU	P
32	2023B1777	Local crystal structure analysis of BaTiO ₃ using synchrotron nano-beam X-ray diffraction method	Kentaro Watanabe	Murata Manufacturing Co., Ltd.	Japan	Industry	Industrial Applications	5	BL13XU	P
33	2023B1778	Structural analysis of drawn polyolefin films with a wide spacial scale.	Go Matsuba	Yamagata University	Japan	Educational Organization	Industrial Applications	2	BL19B2	P
34	2023B1779	Imaging of medical materials and micro sensor by synchrotron-radiation computed tomography.	Koki Fuse	Terumo Corporation	Japan	Industry	Industrial Applications	1	BL47XU	P
35	2023B1780	Observation of structure of frozen foods by X-ray CT	Hiroshi Fujimura	IRIS OHYAMA Inc.	Japan	Industry	Industrial Applications	1	BL14B2	P
36	2023B1781	Structural analysis of emulsions	Madoka Inui	Noevir Co., Ltd.	Japan	Industry	Industrial Applications	1	BL19B2	P
37	2023B1782	HAXPES study of semiconductor materials	Yuki Shibata	TOSHIBA NANOANALYSIS CORPORATION	Japan	Industry	Materials Science and Engineering	3	BL09XU	P
38	2023B1783	State analysis of Zr, Ni, Co, and Mn in inorganic particles	Takahiro Kuwata	Sumitomo Chemical Company, Limited	Japan	Industry	Industrial Applications	2	BL14B2	P
39	2023B1784	Rubber structure analysis under deformation	Shoko Inutsuka	Bridgestone Corporation	Japan	Industry	Materials Science and Engineering	3	BL19B2	P
40	2023B1785	Evaluation of residual stress in swage part of steel can for cylindrical battery	Rei Oyama	JFE Techno-Research Corporation	Japan	Industry	Industrial Applications	6	BL13XU	P
41	2023B1786	HAXPES measurements for inorganic particles	Takahiro Kuwata	Sumitomo Chemical Company, Limited	Japan	Industry	Industrial Applications	2	BL09XU	P
42	2023B1787	Synchrotron XRD measurement for battery	Yuki Nagamine	TDK Corporation	Japan	Industry	Materials Science and Engineering	3	BL13XU	P
43	2023B1788	Analysis of residual stress generation mechanism in polyethylene using USAXS and SAXS	Suzunosuke Shimomura	Kitanihon Electric Cable Co.,Ltd.	Japan	Industry	Industrial Applications	2	BL19B2	P
44	2023B1789	Measurement of chemical states of the resin by hard X-ray photoelectron spectroscopy	Shoko Murofushi	IHI Corporation	Japan	Industry	Chemical Science	3	BL46XU	P
45	2023B1790	X-ray Diffraction Measurement of Semiconductor Materials with Nanobeam	Yuta Inaba	Sony Semiconductor Solutions Corporation	Japan	Industry	Industrial Applications	6	BL13XU	P
46	2023B1791	Chemical state analysis of inorganic materials using XAFS	Shinsuke Nishida	Furukawa Electric Co., Ltd.	Japan	Industry	Industrial Applications	1	BL14B2	P
47	2023B1792	Evaluation of powder synthesis process in in-situ SAXS under special environment	Syuhei Torigoe	Murata Manufacturing Co., Ltd.	Japan	Industry	Industrial Applications	3	BL19B2	P
48	2023B1793	XAFS analysis for local structure of antimony-based complex oxide	Hironobu Oki	Asahi Kasei Corporation	Japan	Industry	Chemical Science	1	BL14B2	P
49	2023B1794	Structural analysis of cross-linked nanocomposite hydrogels based on cellulose nanofiber and epoxy by small-angle X-ray scattering	Kazuki Chiba	Yamagata Research Institute Of Technology	Japan	National and Nonprofit Organization	Industrial Applications	1	BL19B2	P
50	2023B1795	Study on the electronic state of inorganic semiconductor materials	Ryouji Arai	Sony Semiconductor Solutions Corporation	Japan	Industry	Industrial Applications	3	BL46XU	P

2023B, Performed Proprietary General Proposals

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
51	2023B1796	Observation of internal structure of materials with X-ray CT	Sho Ito	DIC Corporation	Japan	Industry	Industrial Applications	1	BL47XU	P
52	2023B1797	Analysis of Structural Change of Foods Using X-ray CT	Ken Jibiki	Toyo Suisan Kaisha,Ltd.	Japan	Industry	Industrial Applications	1	BL14B2	P
53	2023B1798	Study on the electronic state of inorganic semiconductor materials	Ryouji Arai	Sony Semiconductor Solutions Corporation	Japan	Industry	Industrial Applications	1	BL09XU	P
54	2023B1799	Evaluation of crystallinity of food fats	Daisuke Sawada	Kaneka Techno Research Corporation	Japan	Industry	Industrial Applications	2	BL19B2	P
55	2023B1800	Observation of Chemical State in chemical treatment solution on the substrate by X-ray absorption spectroscopy	Yusuke Miyazawa	Nihon Parkerizing Co., Ltd.	Japan	Industry	Industrial Applications	1	BL01B1	P
56	2023B1946	HAXPES study of semiconductor materials	Yuki Shibata	TOSHIBA NANOANALYSIS CORPORATION	Japan	Industry	Materials Science and Engineering	3	BL09XU	P
57	2023B1947	Dispersion state analysis of filler in resin using X-ray CT	Saotoru Masai	Seiko Epson Corporation	Japan	Industry	Industrial Applications	0.375	BL47XU	P
58	2023B1948	Synchrotron XRD measurement for battery	Yuki Nagamine	TDK Corporation	Japan	Industry	Industrial Applications	2	BL13XU	P
59	2023B1949	3D structure observation of medical materials and micro sensor by synchrotron-radiation X-ray computed tomography.	Koki Fuse	Terumo Corporation	Japan	Industry	Industrial Applications	1	BL47XU	P
60	2023B1950	Microstructural Analysis of inorganic materials.	Kazuya Tokuda	Sumitomo Electric Industries, Ltd.	Japan	Industry	Industrial Applications	2	BL13XU	P
61	2023B1951	Analysis of Structural Change of Foods Using X-ray CT	Ken Jibiki	Toyo Suisan Kaisha,Ltd.	Japan	Industry	Industrial Applications	1	BL14B2	P
62	2023B1952	degradation study of anode	Qiuyi Yuan	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	3	BL09XU	P
63	2023B1953	Structure analysis of the iodine species sorbed on PdO and barrier material	Manami Hieda	Kyuden Sangyo Co., Inc	Japan	Industry	Industrial Applications	1	BL14B2	P
64	2023B1954	Observation of Chemical State in transition metal solution by X-ray absorption spectroscopy	Yusuke Miyazawa	Nihon Parkerizing Co., Ltd.	Japan	Industry	Industrial Applications	1	BL01B1	P
65	2023B1955	Thin film X-ray structural analysis of organic thin film	Hisashi Tetsutani	Nissan Chemical Corporation	Japan	Industry	Industrial Applications	2	BL13XU	P
66	2023B1956	Study on the electronic state of inorganic semiconductor materials	Ryouji Arai	Sony Semiconductor Solutions Corporation	Japan	Industry	Industrial Applications	3	BL46XU	P
67	2023B1957	Analysis of Crystallinity of Organic Thin Film on Semiconductor Substrates	Masayuki Otsuji	SCREEN Holdings Co., Ltd.	Japan	Industry	Industrial Applications	9	BL19B2	P
68	2023B1958	In-situ XRD measurements of laminated battery cells	Chulho Song	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	1	BL13XU	P
69	2023B1959	3D dimensional structure analysis of metal oxide	Yuya Namiki	Mitsubishi Gas Chemical Company, Inc.	Japan	Industry	Materials Science and Engineering	1	BL47XU	P
70	2023B1960	Survey of the number of Sn ions and Fe ions in liquid	Shota Fujinaka	Murata Manufacturing Co., Ltd.	Japan	Industry	Industrial Applications	1	BL14B2	P
71	2023B1961	Internal structure analysis of agar by SAXS/USAXS measurements	Katsuhiko Shiba	Ina Food Industry Co., Ltd.	Japan	Industry	Industrial Applications	0.5	BL19B2	P
72	2023B1962	XRD Analysis of Semiconductor Materials	Yuta Inaba	Sony Semiconductor Solutions Corporation	Japan	Industry	Industrial Applications	3	BL19B2	P
73	2023B1963	Surface analysis of inorganic/organic composite sheet under practical environment by AP-XPS (1)	Seiji Kawasaki	Murata Manufacturing Co., Ltd.	Japan	Industry	Chemical Science	1.625	BL46XU	P
74	2023B1964	Investigation of freeze-dry process of noodles via cryogenic X-ray micro-CT	Yuki Takayama	Tohoku University	Japan	Educational Organization	Industrial Applications	2	BL14B2	P
75	2023B1965	Electronic structure analysis of catalysts using HAXPES measurements	Taishi Fukazawa	Toshiba Corporation	Japan	Industry	Industrial Applications	2	BL46XU	P
76	2023B1966	HAXPES anlysis for interface between semiconductor and insulating film	Yoshihiro Saito	Sumitomo Electric Industries, Ltd.	Japan	Industry	Industrial Applications	0.625	BL09XU	P

2023B, Performed Proprietary General Proposals

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
77	2023B1967	Observation of altered area in glass by X-ray microscope and X-ray CT	Masaki Makita	Nippon Electric Glass Co.,Ltd.	Japan	Industry	Industrial Applications	1	BL47XU	P
78	2023B1968	HAXPES measurements for inorganic particles	Takahiro Kuwata	Sumitomo Chemical Company, Limited	Japan	Industry	Industrial Applications	2	BL09XU	P
79	2023B1969	X-Ray Stress Measurement of Uni-directional Carbon Fiber Reinforced Plastic	Junji Shirai	DENSO CORPORATION	Japan	Industry	Industrial Applications	6	BL13XU	P
80	2023B1970	Morphology observation of deposited Li on metallic Li using X-ray CT (4)	Yuichi Ikeda	GS Yuasa International Ltd.	Japan	Industry	Industrial Applications	1.625	BL47XU	P
81	2023B1971	Analysis of deterioration mechanism of positive electrode in all solid battery using XAFS (Part III)	Yuichi Ikeda	GS Yuasa International Ltd.	Japan	Industry	Industrial Applications	2	BL14B2	P
82	2023B1972	Surface analysis of sulfide solid electrolyte by hard X-ray photoelectron spectroscopy in water vapor atmosphere	Yuichi Ikeda	GS Yuasa International Ltd.	Japan	Industry	Industrial Applications	2	BL46XU	P
83	2023B1973	Particle size evaluation of alloy catalysts by X-ray small-angle scattering analysis	Masafumi Sakota	Honda R&D Co.,Ltd.	Japan	Industry	Industrial Applications	2	BL19B2	P
84	2023B1974	Sub gap state of the IGZO by using HAX-PES	Tomohiro Sakata	Toray Research Center, Inc.	Japan	Industry	Industrial Applications	7.125	BL46XU	P
85	2023B2501	Crystal structure analysis of protein	Ryuji Kobayashi	TOSOH CORPORATION	Japan	Industry	Life Science	1	PX-BL (BL26B1)	P
86	2023B2502	Structural Biology of Protein-Ligand complex for Drug Discovery	Shiho Yamamoto	Shionogi & Co., Ltd.	Japan	Industry	Life Science	7.25	PX-BL (BL41XU, BL45XU)	P
87	2023B2503	Structure analysis of proteins related to disease.	Daiki Kato	Asahi Kasei Pharma Corporation	Japan	Industry	Industrial Applications	30.75	PX-BL (BL45XU, EM01CT)	P
88	2023B2504	Structural determination of target proteins for drug discovery	Ikuko Miyaguchi	Mitsubishi Tanabe Pharma Corporation	Japan	Industry	Industrial Applications	6.25	PX-BL (BL26B1, BL45XU)	P
89	2023B2505	X-ray crystallography of disease-related protein MSP1, anti-MSP1 antibody, and MSP1 in complex with anti-MSP1 antibody	Yuuji Kado	Meiji Seika Pharma Co., Ltd.	Japan	Industry	Industrial Applications	0.5	PX-BL (BL45XU)	P
90	2023B2507	Structure-based agrochemical development	Yoshiki Tanaka	AgroDesign Studios	Japan	Industry	Industrial Applications	6	PX-BL (BL45XU, BL32XU)	P
91	2023B2508	Structural analysis of protein and ligand/protein complex for drug discovery	Takashi Yamano	CHUGAI PHARMACEUTICAL CO., LTD.	Japan	Industry	Industrial Applications	6.25	PX-BL (BL45XU)	P
92	2023B2509	Structure analysis of proteins related to disease	Yuichiro Nakaishi	Otsuka Pharmaceutical Co., Ltd.	Japan	Industry	Industrial Applications	4	PX-BL (BL41XU, BL45XU)	P
93	2023B2510	Structure analysis of complex of disease related proteins and their regulatory compounds	Yasushi Amano	Astellas Pharma Inc.	Japan	Industry	Life Science	9	PX-BL (BL45XU)	P
94	2023B2512	Structure analysis of proteins related to disease	Noritaka Furuya	KISSEI PHARMACEUTICAL CO., LTD.	Japan	Industry	Industrial Applications	2	PX-BL (BL45XU)	P
95	2023B2513	Macromolecule protein crystals for data collection	Wang Cheng	Wuxi Biortus Biosciences Co. Ltd	China	Foreign	Industrial Applications	1.25	PX-BL (BL45XU)	P
96	2023B2514	X-ray crystallography for disease-related proteins	Akinori Yamasaki	Nippon Shinyaku Co., Ltd.	Japan	Industry	Life Science	2.25	PX-BL (BL45XU)	P
97	2023B2515	Diffraction data collection for x-ray crystallography of drug-target proteins	Yosuke Nishikawa	DAIICHI SANKYO RD NOVARE CO., LTD.	Japan	Industry	Life Science	3.75	PX-BL (BL45XU)	P
98	2023B2701	Structure analysis of proteins related to disease	Hiroki Omura	Teijin Pharma Limited	Japan	Industry	Industrial Applications	1.5	PX-BL (BL45XU)	P
99	2023B2702	Data collection on protein crystals for structure based drug design	Fan Jiang	Viva Biotech (Shanghai) Ltd.	China	Foreign	Life Science	33.75	PX-BL (BL45XU)	P
100	2023B2703	X-ray or Cryo-EM structure determination of the protein with compound	Tsuyoshi Adachi	Japan Tobacco Inc.	Japan	Industry	Industrial Applications	2.75	PX-BL (BL45XU, BL32XU)	P
101	2023B2705	Structural insights into the antibody/antigen complex	Jian Sun	BeiGene Ltd.	China	Foreign	Life Science	3	PX-BL (BL45XU)	P

2023B, Performed Proprietary General Proposals

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
102	2023B2706	Evaluation of the Protein Crystals under Microgravity by Synchrotron Radiation	Momi Iwata	Japan Aerospace Exploration Agency	Japan	National and Nonprofit Organization	Life Science	8.75	PX-BL (BL45XU)	P
103	2023B2707	Structural analysis of the therapeutic target proteins or nucleic acids with its ligands	Satoshi Sogabe	Axcelead Drug Discovery Partners Inc.	Japan	Industry	Industrial Applications	4.5	PX-BL (BL45XU, EM02CT)	P
104	2023B2708	X-ray crystallography of drug-related proteins	Tatsuya Suzuki	Taiho Pharmaceutical Co., Ltd.	Japan	Industry	Industrial Applications	1.5	PX-BL (BL45XU)	P
105	2023B2710	X-ray crystallography of protein-ligand complex (2023A)	Hikaru Shimizu	PeptiDream Inc.	Japan	Industry	Life Science	1	PX-BL (BL41XU)	P
106	2023B2711	X-ray crystallography of pesticide-target proteins	Kunio Ido	Sumitomo Chemical Company, Limited	Japan	Industry	Life Science	1.25	PX-BL (BL45XU)	P
107	2023B2713	Development of efficient ligand screening methods against drug- and agricultural chemical-target proteins	Masaki Yamamoto	RIKEN	Japan	National and Nonprofit Organization	Life Science	72	PX-BL (EM01CT)	P

2023B, Performed Budding Researchers Support Proposals

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
1	2023B1691	Probing C-paired Spin-Valley Locking in multifunctional antiferromagnetic materials.	Xin Liang	City University of Hong Kong	China	Foreign	Materials Science and Engineering	17.875	BL25SU	Np
2	2023B1692	Mechanisms of carburization and melting of carbon-iron ore composite for carbon recycling ironmaking process	Ryota Higashi	Tohoku University	Japan	Educational Organization	Industrial Applications	6	BL28B2	Np
3	2023B1694	Ex-situ partial fluorescence yield probing charge compensation in Mn-based disordered rock-salt cathodes for Li-ion batteries	Hang Xu	University of Oxford	UK	Foreign	Chemical Science	19.75	BL27SU	Np
4	2023B1695	Local structure analysis around Fe ions dissolved in methanol	Dai Inoue	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	6	BL04B2	Np
5	2023B1696	Density measurements of liquid FeO under high pressures	Shunpei Yokoo	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	5.875	BL10XU	Np
6	2023B1697	Study of the Fe-H phase diagram and the constraints on hydrogen concentration in the Earth's core	Nagi Ikuta	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	5.625	BL10XU	Np
7	2023B1698	3D crystal size distributions of pyroxene microlites from micro computed tomography in lavas: a tool for elucidate the magmatic evolution of Mt Ruapehu, New Zealand.	Silvia Catalina Moreno Alfonso	Massey University	New Zealand	Foreign	Earth and Planetary Science	3	BL47XU	Np
8	2023B1701	Electron structure study of layered manganese oxides in CE-type antiferromagnetic charge/orbital ordered state by using soft X-ray angle-resolved photoemission spectroscopy	Yasutaka Sawata	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	7	BL25SU	Np
9	2023B1702	Observation of particle formation in the early stages of monodisperse polyacrylic acid particles.	Shin Takano	The University of Kitakyushu	Japan	Educational Organization	Materials Science and Engineering	3	BL40B2	Np
10	2023B1703	Development of phonon group velocity measurement techniques of small amount of organic particles under low temperature conditions by using X-ray inelastic scattering method toward constraint for the elastic wave velocities of organic particles on the surface of Titan.	Eito Hirai	Tokyo Institute of Technology	Japan	Educational Organization	Earth and Planetary Science	5.875	BL35XU	Np
11	2023B1705	Inhibition of progression and remineralization of advanced caries dentin by combined application of silver diammine fluoride and glass ionomer cement.	Xuefei Chen	Tokyo Medical and Dental University	Japan	Educational Organization	Medical Applications	6	BL40XU	Np
12	2023B1707	Analysis of molecular morphology of complexes formed from various types of β -1,3-glucan, and DNA in solution	Kazuki Sumiya	The University of Kitakyushu	Japan	Educational Organization	Medical Applications	3	BL40B2	Np
13	2023B1713	Elucidation of the Mechanism of the Permittivity Boosting in Nb-doped Rutile-type Titanium Oxide	Yujiro Hashimoto	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	8.75	BL25SU	Np
14	2023B1717	Study of crystallization slowing dynamics of polylactic acid	Kazuki Shibasaki	Osaka University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
15	2023B1720	Elucidation of the origin of photocatalytic activity enhancement at the anatase/rutile interface: simultaneous visualization of crystal structure and electronic structure	Keita Hiromori	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	6	BL17SU	Np
16	2023B1721	PDF analyses of carboxylate-based MOF glasses obtained by mechanical milling methods	Cheng Luo	Kyoto University	Japan	Educational Organization	Chemical Science	3	BL04B2	Np
17	2023B1724	Colloidal crystal structure analysis using small angle X-ray scattering: structural changes of DNA-NP superlattices analysis under different solvent conditions	Shoko Kojima	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
18	2023B1725	Identifying the vibrational changes of $[\text{Fe}_n\text{S}_4]$ cubane of Iron proteins during electron transfer in Nitrogenases	Isis Mani Wahl Godoy	Max Planck Institute	Germany	Foreign	Chemical Science	14	BL19LXU	Np
19	2023B1727	Spatially-resolved electronic structure of intercalated transition metal dichalcogenides	Bruno Saika	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	12	BL25SU	Np
20	2023B1728	Investigation of origin of chirality in 1T-TiSe2 using inelastic X-ray scattering.	Hyunwoo Kim	Pohang University of Science and Technology	Korea	Foreign	Materials Science and Engineering	17.625	BL35XU	Np
21	2023B1731	High-Pressure Phase Exploration of Novel Nickel Oxides through in-situ X-ray Diffraction Measurements under High Pressure	Kantaro Murayama	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL04B1	Np
22	2023B1732	Colloidal single crystal structure analysis using small angle X-ray scattering with rotating crystal method: Analysis of DNA-NP superlattices for high-quality crystals	Lidong Zhang	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
23	2023B1733	Elucidation of the structural origin of semiconducting polymer films that exhibit electronic alloy properties.	Zhiyuan Liang	Nara Institute of Science and Technology	Japan	Educational Organization	Materials Science and Engineering	3	BL40B2	Np

2023B, Performed Budding Researchers Support Proposals

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
24	2023B1736	Systematic study of bi-phasic O3/P2-layered oxide materials for Li-, Ni- and Co-free Na-ion batteries using RIXS	Moritz Hirsbrunner	Uppsala University	Sweden	Foreign	Materials Science and Engineering	15	BL27SU	Np
25	2023B1739	Macrophage membrane camouflaged Cubosome for Doxorubicin and siRNA delivery	Xuehui Rui	Osaka University	Japan	Educational Organization	Materials Science and Engineering	1	BL19B2	Np
26	2023B1740	XAFS study on active sites of boron nitride-supported iridium-iron-molybdenum catalysts for synthesizing mono-alcohols from vicinal diols	Ben Liu	Tohoku University	Japan	Educational Organization	Industrial Applications	6	BL14B2	Np
27	2023B1742	The effect of elemental substitution on the structural phase transition in layered perovskite Ba1.75LiH2.7O0.9	yoshiki izumi	The Graduate University for Advanced Studies, SOKENDAI	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
28	2023B1743	Revealing The Mechanism of Improved Catalytic Activity of Core-Shell Nanoparticles Using Noble Metal Nanosheets.	Sumiya Ando	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	2.875	BL09XU	Np
29	2023B1744	Disorder structure of thermoelectric materials from Bragg and diffuse scattering of multi-wavelength and multi-temperature diffraction data	Seiya Takahashi	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
30	2023B1747	Static and dynamic study of ultra-low-loss microstructure in nanocrystalline alloy Fe-Si-B-P-Cu-C	Shozo Hiramoto	Hiroshima University	Japan	Educational Organization	Industrial Applications	6	BL02B2	Np
31	2023B1748	Crystal-Structure-Dependent Oxygen Intake/Release Behaviors of BaFeO3 Having Unusually High Valence Fe4+	Rei Watanabe	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL02B2	Np
32	2023B1750	XAFS analyses of carboxylate coordination polymer glasses obtained by solvent evaporation	Zeyu Fan	Kyoto University	Japan	Educational Organization	Chemical Science	3	BL14B2	Np
33	2023B1751	In-situ investigation of reconstruction of nickel-based catalysts adjusted by the magnetic field	Xuelei Pan	University of Oxford	UK	Foreign	Chemical Science	6	BL01B1	Np
34	2023B1755	Evaluations of Ordered Arrangements and Electronic States of Heteroporphyrin-Based Positively Charged π -Electronic Systems	Masaki Fujita	Ritsumeikan University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
35	2023B1916	In situ XAFS measurements of electrocatalysts for the nitrous oxide reduction	Zhengwei Ma	Hokkaido University	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
36	2023B1921	3D- Δ PDF structural study of precursor phenomena for phase transitions in orbital molecule systems	Keita Kojima	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	9	BL02B1	Np
37	2023B1922	Operando X-ray diffraction study of the Li+ insertion/extraction reaction process in turbostratic graphene	Satoshi Yamamoto	Nagoya University	Japan	Educational Organization	Chemical Science	9	BL19B2	Np
38	2023B1928	Probing Anion/Vacancy Ordering in New Potential Superconductors: Lanthanide Nitride-Hydrides	Zefeng Wei	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
39	2023B1929	Revealing the conversion mechanism of Ca3CrN3 to electride induced by Sr substitution	Kantaro Murayama	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
40	2023B1930	Revealing mechanisms of the magnetic ordering on Au-Al-Tb quasicrystal approximants by high-resolution hard X-ray photoemission spectroscopy	Goro Nozue	Osaka University	Japan	Educational Organization	Materials Science and Engineering	12	BL09XU	Np
41	2023B1932	Evaluation of Al2O3/TiOx/Al2O3/SiO2 for detailed elucidation of field-induced interface dipole modulation mechanism by voltage-applied HAXPES	Yoshiharu Kiriwara	Tokyo City University	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np
42	2023B2096	Operando QXAFS on N2O decomposition catalysts identified by machine learning	Duotian Chen	Hokkaido University	Japan	Educational Organization	Industrial Applications	12	BL01B1	Np
43	2023B2097	Cu-Modified Covalent Organic Frameworks for In Situ Analysis of CO2/CO Reduction Reaction	Keitaro Ohashi	Osaka University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
44	2023B2098	Quantification of the reduction ability and local heating effect of SPR-induced hydrogen spillover by in situ XAFS	Kazuki Shun	Osaka University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
45	2023B2099	Analysis of Structural Changes During Carbonization Process of Carbon Fibers Derived from Rigid and Linear Polymer Precursors	Daisuke Kimura	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
46	2023B2100	Elucidation of the relationship between crystal structure and ionic conductivity of novel fast ionic conductors with 'intrinsic oxygen vacancy' by synchrotron X-ray diffraction	Kei Saito	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
47	2023B2101	Influence of encapsulated atoms/molecules and possible long-range ordering inside C60 cage on temperature-induced molecular-orientational disorder-order transition and further structural transitions in a new family of endohedral fullerene, M@C60	Naoya Yoshikane	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
48	2023B2104	Exploring negative thermal expansion of thiocyanates and understanding its origin	Chuyu Zheng	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np

2023B, Performed Budding Researchers Support Proposals

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
49	2023B2105	Probe possible CDW in BaNi ₂ As ₂ and its doped compounds	Jiayu Guo	Zhejiang University	China	Foreign	Materials Science and Engineering	3	BL02B1	Np
50	2023B2106	Possible Charge density wave in kagome lattice RFe ₆ Ge ₆	Yu Tang	Zhejiang University	China	Foreign	Materials Science and Engineering	3	BL02B1	Np
51	2023B2108	Verification and Application of a New Petrography by quantifying the Bulk Reaction Texture with Synchrotron X-ray Diffraction (XRD)	Satoshi Matsuno	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	5.625	BL19B2	Np
52	2023B2109	Structure and catalytic function of composite catalysts of metal oxide clusters and metal nanoparticles.	Shoji Fukuda	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
53	2023B2545	Structural insights of Rubisco reactivation in chemolithoautotrophic hydrogen-oxidizing bacteria-part2	Zengwei Liao	The University of Tokyo	Japan	Educational Organization	Life Science	6	PX-BL (EM01CT, EM02CT)	Np
54	2023B2547	Structural and functional analysis of end-resection complex involved in DNA double strand break repair in archaea.	Keishiro Uda	Kyushu University	Japan	Educational Organization	Life Science	21	PX-BL (EM01CT, EM02CT)	Np
55	2023B2764	Structural Investigation into Fluoroacetate Dehalogenase Activity on Novel Fluorinated Compounds	Amy Gooch	Okinawa Institute of Science and Technology Graduate University	Japan	Educational Organization	Life Science	2	PX-BL (BL45XU, BL32XU)	Np
56	2023B2765	Structure analysis of in-cell protein crystal for designing scaffold	Junko Tanaka	Tokyo Institute of Technology	Japan	Educational Organization	Life Science	6	PX-BL (BL32XU)	Np

2023B, Performed Long-Term Graduate Student Proposals

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
1	2023B0302	Structural analysis of the local information for highly efficient alloy catalysts in the dehydrogenation of alkanes using in-situ XAFS measurement	Yuki Nakaya	Hokkaido University	Japan	Educational Organization	Chemical Science	12	BL01B1	Np
2	2023B0304	Establishment of the Valence Electron Density Distribution Analysis to Elucidation the Physical Property of Strong-Correlated Molecular Conductors.	Takeshi Hara	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	12	BL02B1	Np
3	2023B0306	The Determination of Martian Core Structure by High-Pressure in-situ X-ray Diffraction Experiments	Fumiya Sakai	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	12	BL10XU	Np
4	2023B0307	3D investigation of organic compounds inclusions in mantle peridotites using multi-beamline multi-scale CT	Itaru Mitsukawa	Kyoto University	Japan	Educational Organization	Earth and Planetary Science	6	BL20B2	Np
5	2023B0312	Large-strain deformation experiments on lower mantle LLSVP candidate minerals under in situ pressure temperature conditions: Towards understanding the development of crystallographic preferred orientation in LLSVP	Bunrin Natsui	Tokyo Institute of Technology	Japan	Educational Organization	Earth and Planetary Science	9	BL47XU	Np
6	2023B0314	Investigation of Fe-H-Si ternary phase diagram and determination of hydrogen-induced volume expansion coefficient for elucidation of the composition of the Earth's core	Yuichiro Yuichiro	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	12	BL04B1	Np
7	2023B0317	An experimental approach for the faulting and weakening induced by the metastable olivine transformation under shear deformation	Rikuto Honda	Kyushu University	Japan	Educational Organization	Earth and Planetary Science	9	BL04B1	Np
8	2023B0318	3D investigation of organic compounds inclusions in mantle peridotites using multi-beamline multi-scale CT	Itaru Mitsukawa	Kyoto University	Japan	Educational Organization	Earth and Planetary Science	15	BL47XU	Np
9	2023B0319	Analysis of the transposition mechanism of CRISPR-associated transposon and development of the CRISPR-Cas complex mutants for genome engineering	Kazuki Ishihara	Kyushu University	Japan	Educational Organization	Life Science	18	PX-BL(EM01CT)	Np
10	2023B0320	Large-strain deformation experiments on lower mantle LLSVP candidate minerals under in situ pressure temperature conditions: Towards understanding the development of crystallographic preferred orientation in LLSVP	Bunrin Natsui	Tokyo Institute of Technology	Japan	Educational Organization	Earth and Planetary Science	3	BL10XU	Np

2023B, Performed Proprietary Time-Designated Proposals

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
1	2023B2301	X-ray imaging	Daigo Setoyama	Toyota Central R&D Labs., Inc.	Japan	Industry	Industrial Applications	3	BL05XU	P
2	2023B2302	Analysis of Radical Quencher in Fuel Cells	Yuki Orikasa	Ritsumeikan University	Japan	Educational Organization	Chemical Science	1	BL37XU	P
3	2023B2303	CT observation of lithium-ion batteries	Takanori Itoh	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	3	BL20XU	P
4	2023B2304	Internal measurement of components by high-energy high-brilliance synchrotron radiation x-ray laminography	Hidehiko Kimura	Toyota Central R&D Labs., Inc.	Japan	Industry	Industrial Applications	2	BL05XU	P
5	2023B2305	Structure determination of a spinel compound.	Sho Ito	DIC Corporation	Japan	Industry	Materials Science and Engineering	0.25	BL02B1	P
6	2023B2306	Analysis of Water Penetration Mechanism into Polyvinyl Chloride Using X-ray Phase-Contrast CT	Suzunosuke Shimomura	Kitanihon Electric Cable Co.,Ltd.	Japan	Industry	Industrial Applications	1	BL20B2	P
7	2023B2307	CT measurement of rubber, carbon materials, and ceramic materials	Takanori Itoh	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	1	BL20XU	P
8	2023B2308	Battery CT measurement	Takanori Itoh	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	2	BL20XU	P
9	2023B2315	Observed micro pores in deposited ceramic coating	Tamayuki Kuwashima	Iwate Industrial Research Institute.	Japan	National and Nonprofit Organization	Materials Science and Engineering	0.5	BL20B2	P
10	2023B2317	Structure determination of a small molecule compound	Sho Ito	DIC Corporation	Japan	Industry	Materials Science and Engineering	0.25	BL41XU	P
11	2023B2326	Single crystal structure determination of small molecular pharmaceutical organic compounds with small crystal size through X-ray crystallography in synchrotron beamline	Naoko Ohyagi	Nippon Boehringer Ingelheim Co., Ltd.	Japan	Industry	Industrial Applications	3	BL40XU	P
12	2023B2327	Imaging the internal structure of composite materials	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	0.25	BL20B2	P
13	2023B2330	X-ray Imaging of Inhomogeneous Morphology in Rubber	Takayuki Maruyama	Bridgestone Corporation	Japan	Industry	Industrial Applications	0.25	BL20XU	P
14	2023B2333	Crystal structure analysis of a protein-protein complex.	Koji Inaka	Maruwa Foods and Biosciences, Inc.	Japan	Industry	Life Science	0.25	BL41XU	P
15	2023B2334	Observation of insulation deterioration of polymeric material	Shinya Iwata	Osaka Research Institute of Industrial Science and Technology	Japan	National and Nonprofit Organization	Industrial Applications	1	BL20XU	P
16	2023B2337	Crystal structural analysis of protein	Hitomi Okazaki	Canon Medical Systems Corporation	Japan	Industry	Life Science	0.5	BL45XU	P
17	2023B2338	Morphology observation of All-Solid-State batteries in charge and discharge process using X-ray CT (2)	Yuichi Ikeda	GS Yuasa International Ltd.	Japan	Industry	Industrial Applications	2	BL20B2	P
18	2023B2339	CT observation of lithium ion batteries	Takanori Itoh	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	1	BL20XU	P
19	2023B2342	Chemical state analysis of resin materials.	Shoya Oizumi	Yazaki Corporation	Japan	Industry	Materials Science and Engineering	3.5	BL27SU	P
20	2023B2343	X-ray CT observation of pull-out test of reinforcing fibers for concrete	Riki NAGAO	Shimizu Corporation	Japan	Industry	Materials Science and Engineering	1	BL20XU	P
21	2023B2344	Comparative survey of residual stress distribution before and after testing of quenched and tempered high carbon steel	koji Yamamoto	Komatsu Ltd.	Japan	Industry	Industrial Applications	2	BL19LXU	P
22	2023B2368	Characterization of polymer electrolyte fuel cell catalysts by synchrotron radiation infrared absorption spectrometry	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Industrial Applications	2	BL43IR	P
23	2023B2375	Internal Structure Analysis of Starch Particles of Resistant Starch	Yasunori Nakamura	Starch Technologies Co., LTD	Japan	Industry	Industrial Applications	1	BL40XU	P
24	2023B2377	Internal measurement of components by high-energy high-brilliance synchrotron radiation x-ray laminography 2	Hidehiko Kimura	Toyota Central R&D Labs., Inc.	Japan	Industry	Industrial Applications	3	BL05XU	P

2023B, Performed Proprietary Time-Designated Proposals

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
25	2023B2379	Analysis of heavy metals on plastic surfaces	Nobukazu Miyamoto	IDEA Consultants, Inc.	Japan	Industry	Environmental Science	1	BL37XU	P
26	2023B2380	Non-destructive Analysis of Industrial Products by Advanced X-Ray Computed Tomography	Keisuke Itoh	Industrial Technology Institute, Miyagi Prefectural Government	Japan	National and Nonprofit Organization	Industrial Applications	2	BL20B2	P
27	2023B2381	Structure determination of an inorganic crystal	Sho Ito	DIC Corporation	Japan	Industry	Materials Science and Engineering	0.125	BL26B1	P
28	2023B2382	Evaluation of valence band spectra of oxide semiconductor by hard X-ray photoelectron spectroscopy	Yuto Ando	Foundation for Promotion of Material Science and Technology of Japan	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL09XU	P
29	2023B2383	Structure determination of spinel compounds	Sho Ito	DIC Corporation	Japan	Industry	Materials Science and Engineering	0.25	BL02B1	P
30	2023B2384	Structure determination of pigments	Sho Ito	DIC Corporation	Japan	Industry	Materials Science and Engineering	0.25	BL41XU	P
31	2023B2390	Analysis of the crystal structure near the fiber/resin interface in recycled carbon fiber/polyamide 6 resin composites	Haruna Maruko	Mirai Kasei Inc.	Japan	Industry	Materials Science and Engineering	1	BL40XU	P
32	2023B2402	Crystal structure analysis of proteins	Shunsuke Onogi	JSR Corporation	Japan	Industry	Life Science	0.5	BL45XU	P
33	2023B2408	Structural observation of porous materials	Takafumi Kawanishi	Nitto Analytical Techno-Center Co., Ltd.	Japan	Industry	Industrial Applications	0.25	BL47XU	P
34	2023B2412	Chemical state analysis of resin materials.	Shoya Oizumi	Yazaki Corporation	Japan	Industry	Materials Science and Engineering	2	BL27SU	P
35	2023B2414	Observation of internal structure of materials by X-ray CT	Sho Ito	DIC Corporation	Japan	Industry	Materials Science and Engineering	1	BL47XU	P
36	2023B2416	Observation of the Adhesive Interfaces of Advanced Composite Materials by Photoemission electron Microscopy	Masaki Oura	RIKEN	Japan	National and Nonprofit Organization	Materials Science and Engineering	1	BL17SU	P

2023B, Performed Measurement Services

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
1	2023B2310	Hard X-ray XAFS analysis	Masahiro Kunisu	Toray Research Center, Inc.	Japan	Industry	Industrial Applications	0.25	BL14B2	P
2	2023B2311	XAFS measurement of ITO and ZnO	Qiuyi Yuan	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	0.75	BL14B2	P
3	2023B2312	Analysis of an oxide film on Fe3P	Masashi Nishimoto	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	0.5	BL46XU	P
4	2023B2313	Analysis of solid-state electrolyte formation process	Hiroaki Kobayashi	Hokkaido University	Japan	Educational Organization	Industrial Applications	0.75	BL14B2	P
5	2023B2314	3D observation of metal specimen	Takashi Nakayama	Shimadzu Techno-Research, Inc.	Japan	Industry	Industrial Applications	0.125	BL28B2	P
6	2023B2316	XAFS measurement of LNM	Qiuyi Yuan	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	0.375	BL14B2	P
7	2023B2319	3D observation of precision machinery	Saotoru Masai	Seiko Epson Corporation	Japan	Industry	Industrial Applications	0.875	BL28B2	P
8	2023B2320	X-ray absorption fine structure measurements for battery materials	Takuya Mori	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.25	BL14B2	P
9	2023B2321	Analysis on 3D Shape of Composite material	Yusaku Yamamoto	Mitsui Mining & Smelting Co., Ltd.	Japan	Industry	Industrial Applications	0.125	BL28B2	P
10	2023B2322	3D imaging of metallic materials	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	0.25	BL28B2	P
11	2023B2323	3D imaging of composite materials	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	0.375	BL28B2	P
12	2023B2324	X-ray diffraction measurement of electronics materials	Takeshi Shimada	Proterial, Ltd.	Japan	Industry	Industrial Applications	0.375	BL19B2	P
13	2023B2325	XAFS measurements of metallic materials	Koto Wang	School Research Co. LTD	China	Foreign	Industrial Applications	1	BL14B2	P
14	2023B2328	Analysis of biological tissue using high-energy X-ray CT	Tetsuya Adachi	Kyoto Prefectural University of Medicine	Japan	Educational Organization	Life Science	0.125	BL28B2	P
15	2023B2329	Hard X-ray XAFS analysis of transition metal elements	Masahiro Kunisu	Toray Research Center, Inc.	Japan	Industry	Industrial Applications	0.25	BL14B2	P
16	2023B2331	SAXS/USAXS Study of polymer films	Yuuichi Kondou	Nitto Analytical Techno-Center Co., Ltd.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
17	2023B2332	Powder SR-XRD measurement of battery materials	Kazunori Fukuda	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
18	2023B2335	Investigation of Li ion battery materials V	Na Zhao	SANKA High Technology Co. Ltd.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
19	2023B2336	SAX USAX measurement of Materials	Sonoko Kosuga	Daido Bunseki Research, INC.	Japan	Industry	Industrial Applications	0.5	BL19B2	P
20	2023B2340	XAFS analysis on iron oxyhydroxide-based samples.	Shin Takahashi	JFE Techno-Research Corporation	Japan	Industry	Industrial Applications	0.25	BL14B2	P
21	2023B2341	HAXPES measurement of transparent conductive oxide thin films	Junichi Nomoto	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Industrial Applications	0.5	BL46XU	P
22	2023B2345	XAFS measurements of solid catalysts	Shota Matsuo	Kao Corporation	Japan	Industry	Industrial Applications	0.25	BL14B2	P
23	2023B2346	XAFS measurement of NiIr	Qiuyi Yuan	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	0.375	BL14B2	P
24	2023B2347	Structural analysis of crystalline ionic conductors	Naoki Matsui	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	0.5	BL19B2	P
25	2023B2348	Analysis of structural evolution of crystalline ionic conductors at high temperatures	Naoki Matsui	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	1	BL19B2	P

2023B, Performed Measurement Services

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
26	2023B2350	XAFS measurement of ceramic samples	Masayuki Omoto	Seiko Epson Corporation	Japan	Industry	Industrial Applications	0.25	BL14B2	P
27	2023B2351	3D observation of precision machinery	Saotoru Masai	Seiko Epson Corporation	Japan	Industry	Industrial Applications	1	BL28B2	P
28	2023B2353	3D observation of metallic material	Masaaki Mita	Mitsubishi Materials Corporation	Japan	Industry	Industrial Applications	0.125	BL28B2	P
29	2023B2355	Observation of internal structure of GFRP	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	0.125	BL28B2	P
30	2023B2356	Characterizing particles structure with small-angle scattering	Rei Oyama	JFE Techno-Research Corporation	Japan	Industry	Industrial Applications	0.25	BL19B2	P
31	2023B2357	Measurement of precipitates in spring steels by small angle X-ray scattering	Keita Takahashi	NHK Spring Co., Ltd.	Japan	Industry	Industrial Applications	0.5	BL19B2	P
32	2023B2358	Powder SR-XRD measurement of battery materials	Kazunori Fukuda	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
33	2023B2359	XAFS measurements of metallic materials	Koto Wang	School Research Co. LTD	China	Foreign	Industrial Applications	0.5	BL14B2	P
34	2023B2360	CT imaging of LT-TLP joint for next-generation power semiconductors.	Kengo Kurosawa	Akita Industrial Technology Center	Japan	National and Nonprofit Organization	Industrial Applications	0.125	BL28B2	P
35	2023B2361	Size distribution analysis of trace precipitates in steel	Yuji Tanaka	JFE Steel Corporation	Japan	Industry	Industrial Applications	0.25	BL19B2	P
36	2023B2362	3D observation of composite materials	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	3.375	BL28B2	P
37	2023B2363	Evaluation of dispersion state of nanofiber filler in transparent film	FUKUTA SEIJIRO	Taiyo Holdings Co., Ltd.	Japan	Industry	Industrial Applications	0.125	BL19B2	P
38	2023B2364	Pore size distribution measurements of the electrode layer with SAXS	Atsuhiko Kunishige	UBE Scientific Analysis Laboratory, Inc.	Japan	Industry	Industrial Applications	0.125	BL19B2	P
39	2023B2365	Evaluation of crystals in D-mannitol or crystalline cellulose by powder X-ray diffraction method	Maho Hino	Sawai Pharmaceutical Co., Ltd.	Japan	Industry	Industrial Applications	0.125	BL19B2	P
40	2023B2366	Crystal Structure Analysis of wire Sample	Sonoko Kosuga	Daido Bunseki Research, INC.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
41	2023B2367	Wide-Angle X-ray Scattering of Cellulose Fibers	Hiroyuki Itaya	Kanazawa University	Japan	Educational Organization	Chemical Science	0.125	BL19B2	P
42	2023B2369	XAFS of lithium ion battery	Huishu Huang	Fudan University	China	Foreign	Industrial Applications	0.375	BL14B2	P
43	2023B2370	Powder SR-XRD measurement of battery materials	Kazunori Fukuda	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
44	2023B2371	X-ray diffraction measurement of sulfide	Satoshi Ooshima	Mitsubishi Materials Corporation	Japan	Industry	Industrial Applications	0.25	BL19B2	P
45	2023B2372	Nanostructure analysis of fuel cell materials	Naoki Hasegawa	Toyota Central R&D Labs., Inc.	Japan	Industry	Industrial Applications	0.375	BL19B2	P
46	2023B2373	Analysis of structural changes in cellulose fibers using small-angle scattering	Masayuki Omoto	Seiko Epson Corporation	Japan	Industry	Industrial Applications	0.375	BL19B2	P
47	2023B2374	Analyses of the Ti-Mo oxides at different charged/discharged states	Tomoya Kawaguchi	Tohoku University	Japan	Educational Organization	Chemical Science	0.625	BL14B2	P
48	2023B2376	Investigation of Li ion battery materials IV	Na Zhao	SANKA High Technology Co. Ltd.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
49	2023B2378	XAFS measurements of metallic materials	Koto Wang	School Research Co. LTD	China	Foreign	Industrial Applications	1	BL14B2	P
50	2023B2385	SAX analysis of Sn-SiO2	Hirokazu Kurashige	TOSOH Analysis and Research Center Co., Ltd.	Japan	Industry	Industrial Applications	0.125	BL19B2	P
51	2023B2386	3D observation of metallic materials	Yoshikazu Ohara	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	0.125	BL28B2	P

2023B, Performed Measurement Services

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
52	2023B2387	Analyses of the Ti-Mo oxides at different charged/discharged states2	Tomoya Kawaguchi	Tohoku University	Japan	Educational Organization	Industrial Applications	0.375	BL14B2	P
53	2023B2388	Analysis of Sn state in alumina	Takahiro Kuwata	Sumitomo Chemical Company, Limited	Japan	Industry	Industrial Applications	0.5	BL14B2	P
54	2023B2389	Detection of trace crystal polymorphism in formulations	Tsukasa Kaneko	Sawai Pharmaceutical Co., Ltd.	Japan	Industry	Industrial Applications	0.375	BL19B2	P
55	2023B2392	Nanostructure analysis of fuel cell materials	Naoki Hasegawa	Toyota Central R&D Labs., Inc.	Japan	Industry	Industrial Applications	0.375	BL19B2	P
56	2023B2393	Chemical form analysis of ruthenium in soil	Yusuke Unno	Institute for Environmental Sciences	Japan	National and Nonprofit Organization	Industrial Applications	0.5	BL14B2	P
57	2023B2394	XAFS analysis of Ni plating	Shinsuke Nishida	Furukawa Electric Co., Ltd.	Japan	Industry	Industrial Applications	0.375	BL14B2	P
58	2023B2395	Powder XRD measurement	Hiroki Seki	KYOCERA Corporation	Japan	Industry	Industrial Applications	0.25	BL19B2	P
59	2023B2396	SAXS measurement of inorganic materials	Hirokazu Sasaki	Furukawa Electric Co., Ltd.	Japan	Industry	Industrial Applications	0.5	BL19B2	P
60	2023B2397	Evaluation of uniformity and reproducibility of low-noble metal-based oxygen evolution reaction catalysts	Kiyohiro Adachi	RIKEN	Japan	National and Nonprofit Organization	Chemical Science	0.25	BL14B2	P
61	2023B2398	Pore size distribution measurements of the electrode layer with SAXS	Atsuhiko Kunishige	UBE Scientific Analysis Laboratory, Inc.	Japan	Industry	Industrial Applications	0.125	BL19B2	P
62	2023B2399	XAFS measurements of metallic materials	Koto Wang	School Research Co. LTD	China	Foreign	Industrial Applications	1	BL14B2	P
63	2023B2400	Ultra small angle X-ray scattering and small angle X-ray scattering measurements of elastomers	Satoshi Sawada	Chemicals Evaluation Research Institute	Japan	National and Nonprofit Organization	Industrial Applications	0.25	BL19B2	P
64	2023B2403	Evaluation of crystals in D-mannitol or crystalline cellulose by powder X-ray diffraction method	Maho Hino	Sawai Pharmaceutical Co., Ltd.	Japan	Industry	Industrial Applications	0.625	BL19B2	P
65	2023B2404	Powder X-ray diffraction measurement of layered metal oxides	Kazutaka Sonobe	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	0.125	BL19B2	P
66	2023B2405	Powder SR-XRD measurement of battery materials	Kazunori Fukuda	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
67	2023B2406	Powder SR-XRD measurement of steels	Kazunori Fukuda	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
68	2023B2407	SAXS analysis of Metals	Sonoko Kosuga	Daido Bunseki Research, INC.	Japan	Industry	Industrial Applications	0.375	BL19B2	P
69	2023B2409	3D observation of rechargeable battery	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	3.375	BL28B2	P
70	2023B2410	3D observation of glass composite materials	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	0.25	BL28B2	P
71	2023B2411	3D observation of metallic materials	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	0.625	BL28B2	P
72	2023B2413	3D observation of metal materials	Takafumi Kawanishi	Nitto Analytical Techno-Center Co., Ltd.	Japan	Industry	Industrial Applications	0.125	BL28B2	P
73	2023B2415	3D observation of precision machinery	Saotoru Masai	Seiko Epson Corporation	Japan	Industry	Industrial Applications	0.375	BL28B2	P
74	2023B2417	X-ray diffraction measurement of electronics materials	Takeshi Shimada	Proterial, Ltd.	Japan	Industry	Industrial Applications	0.625	BL19B2	P
75	2023B2419	XAFS measurements of metallic materials	Koto Wang	School Research Co. LTD	China	Foreign	Industrial Applications	0.25	BL14B2	P
76	2023B2421	Evaluation of the electronic state of transparent conductive oxide thin films by HAXPES	Junichi Nomoto	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Industrial Applications	1	BL46XU	P

2023B, Performed Measurement Services

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
77	2023B2422	3D observation of composite materials	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	0.75	BL28B2	P
78	2023B2423	3D observation of metallic materials	Takashi Nakayama	Shimadzu Techno-Research, Inc.	Japan	Industry	Industrial Applications	0.5	BL28B2	P
79	2023B2425	XANES measurement of Ir compounds	Atsuhiko Kunishige	UBE Scientific Analysis Laboratory, Inc.	Japan	Industry	Industrial Applications	0.25	BL14B2	P

2023B, Performed Non-Proprietary Grant-Aided Proposals

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
1	2023B0201	Elucidation of formation and high activity mechanism of innovative multi-element nanoalloy catalysts by understanding the atomic arrangement and electronic-structure of multi-element nanoalloys using synchrotron X-ray	Naomi Kawamura	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Chemical Science	22	BL13XU	Np
2	2023B0204	Elucidation of formation and high activity mechanism of innovative multi-element nanoalloy catalysts by understanding the atomic arrangement and electronic-structure of multi-element nanoalloys using synchrotron X-ray	Naomi Kawamura	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Chemical Science	17.625	BL46XU	Np
3	2023B0205	Integrated Structure Analyses on 'Basis for Supporting Innovative Drug Discovery and Life Science Research (BINDS)'	Masaki Yamamoto	RIKEN	Japan	National and Nonprofit Organization	Life Science	27	BL41XU	Np
4	2023B0206	Integrated Structure Analyses on 'Basis for Supporting Innovative Drug Discovery and Life Science Research (BINDS)'	Masaki Yamamoto	RIKEN	Japan	National and Nonprofit Organization	Life Science	12	BL45XU	Np
5	2023B0207	Integrated Structure Analyses on 'Basis for Supporting Innovative Drug Discovery and Life Science Research (BINDS)'	Masaki Yamamoto	RIKEN	Japan	National and Nonprofit Organization	Life Science	63	PX-BL(EM01CT)	Np
6	2023B0208	Integrated Structure Analyses on 'Basis for Supporting Innovative Drug Discovery and Life Science Research (BINDS)'	Masaki Yamamoto	RIKEN	Japan	National and Nonprofit Organization	Life Science	30	PX-BL(EM02CT)	Np
7	2023B1001	Characterizing fine structure of artificial soil aggregates towards the reduction of greenhouse gas emission	Rota Wagai	National Agriculture and Food Research Organization	Japan	National and Nonprofit Organization	Environmental Science	3	BL20B2	Np
8	2023B1002	The Extraction of Serious Defaults in the Conventional Evaluation Methods of Ultimate Mechanical Property of Polymer Substances and The Challenge to Find the True Values as a Guiding Principle for the Development of Ultra-Strong Polymer Materials: Improvement of Measurement Conditions	Kohji Tashiro	Aichi Center for Industry and Science Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	18	BL40XU	Np
9	2023B1003	Temporal changes in the three-dimensional structure of the Achilles Enthesis due to mechanical load attenuation	Hideaki Takahashi	Niigata University of Health and Welfare	Japan	Educational Organization	Life Science	6	BL20B2	Np
10	2023B1004	Investigation on cation distribution in A-site deficient perovskite (Li, La)NbO3 by X-ray fluorescence holography	Naoto Kitamura	Tokyo University of Science	Japan	Educational Organization	Chemical Science	9	BL47XU	Np
11	2023B1005	Microcrack observation in glass-ceramics aiming dental materials.	Kei Maeda	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	4	BL20XU	Np
12	2023B1006	Structure of densified silica glass revealed by high-energy X-ray diffraction analysis	Shinji Kohara	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL04B2	Np
13	2023B1007	Development of catalyst coating resin for PEFC by structural analysis with X-ray scattering	Go Matsuba	Yamagata University	Japan	Educational Organization	Chemical Science	3	BL40B2	Np
14	2023B1008	Elucidation of mechanical properties of novel structures acquired by plants through adaptation to light environment	Eiji Gotoh	Kyushu University	Japan	Educational Organization	Life Science	3	BL20B2	Np
15	2023B1009	Clarifying crack initiation and propagation mechanism along carbon fibers on the fatigue failure process of CFRP	Kosuke Takahashi	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	7	BL20XU	Np
16	2023B1010	Investigation on distribution of components and localized deformation of composites including carbon fiber	Takuya Matsumoto	Kobe University	Japan	Educational Organization	Chemical Science	6	BL47XU	Np
17	2023B1011	3D/4D multi-scale / multi-modal analyses of local deformation behaviour in dual-phase structural metams	Hiroyuki Toda	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	9.125	BL20XU	Np
18	2023B1012	Tomography for bridging nano and macro: semi-spontaneous interfacial debonding	Hiroyuki Toda	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	7	BL20XU	Np
19	2023B1013	Evaluation of catalyst particles and molecular aggregation states in Nafion films	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Industrial Applications	9	BL40B2	Np
20	2023B1014	Structure analysis of polymer electrolyte fuel cell catalyst by X-ray total scattering	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Industrial Applications	12	BL04B2	Np
21	2023B1015	operando soft X-ray absorption spectroscopy study of Pt-based catalyst for Polymer Electrolyte Fuel Cell (7)	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Chemical Science	18	BL27SU	Np
22	2023B1016	Visualizing Liquid Water in PEFC using Compton Scattering Imaging	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Industrial Applications	12	BL08W	Np

2023B, Performed Non-Proprietary Grant-Aided Proposals

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
23	2023B1017	Evaluation of molecular aggregation state in oriented Nafion membrane	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Chemical Science	6	BL40XU	Np
24	2023B1018	Analysis of Radical Quencher in Polymer Electrolyte Membrane of PEM Fuel Cells using operando Micro-beam X-ray Fluorescence Spectroscopy	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Chemical Science	18	BL37XU	Np
25	2023B1019	Observation of liquid water in gas diffusion layer and catalyst layer of polymer electrolyte fuel cells using operando CT (6)	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Chemical Science	10	BL20XU	Np
26	2023B1020	Molecular Chain Structure of Glassy Polymers under Various External Stimuli	Ken Kojo	Kyushu University	Japan	Educational Organization	Chemical Science	6	BL40XU	Np
27	2023B1021	Quantitative local analysis of bone tissues of rats exposed to uranyl acetate	Shino Takeda	National Institutes for Quantum Science and Technology	Japan	National and Nonprofit Organization	Medical Applications	8.875	BL20B2	Np
28	2023B1022	Biometal localization and tissues alteration	Shino Takeda	National Institutes for Quantum Science and Technology	Japan	National and Nonprofit Organization	Medical Applications	9	BL37XU	Np
29	2023B1023	Fiber formation process of tough multifunctional crystalline gels	Go Matsuba	Yamagata University	Japan	Educational Organization	Chemical Science	3	BL05XU	Np
30	2023B1024	In-situ analysis of the dilatancy phenomenon under high-speed vibration to solid and liquid composite.	Keishi Akada	University of Tsukuba	Japan	Educational Organization	Industrial Applications	18	BL40XU	Np
31	2023B1025	In-situ USAXS analysis of the dilatancy phenomenon under high-speed shearing to solid and liquid composite.	Keishi Akada	University of Tsukuba	Japan	Educational Organization	Industrial Applications	6	BL20XU	Np
32	2023B1026	Evaluation of Structure Distribution of Recycled Plastic Material by SAXS/WAXSCT Measurement	Hiroki Ogawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL05XU	Np
33	2023B1027	Layer number dependence of lattice constants for layered materials using micro-beam X-ray. diffraction	Eiji Nishibori	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	2	BL41XU	Np
34	2023B1028	High-resolution observation of recycled polypropylene pellets	Hiroki Ogawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL20B2	Np
35	2023B1029	High resolution observation of recycled polypropylene pellets	Hiroki Ogawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL47XU	Np
36	2023B1030	Quantification of mechanism of Li dendrites and reaction distribution generation in all-solid-state battery electrodes using X-ray computed tomography	Toshiki Watanabe	Kyoto University	Japan	Educational Organization	Chemical Science	16	BL20XU	Np
37	2023B1031	in-situ SAXS/WAXD measurements during deformation and melting/recrystallization of recycled polypropylene.	Takahiko Kawai	Gunma University	Japan	Educational Organization	Materials Science and Engineering	12	BL40B2	Np
38	2023B1032	Structure analysis of recycled polymers	Takahiko Kawai	Gunma University	Japan	Educational Organization	Materials Science and Engineering	6	BL38B1	Np
39	2023B1033	Electronic structure analysis of heteroatoms in zeolite framework by resonant X-ray inelastic scattering	Maiko Nishibori	Tohoku University	Japan	Educational Organization	Chemical Science	5.875	BL27SU	Np
40	2023B1034	Charge compensation mechanism analysis of oxyfluoride cathode materials during insertion and extraction of fluoride ions	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	5.875	BL27SU	Np
41	2023B1035	Interfacial structural analysis of atomic layer materials by photoelectron holography	Ryota Akiyama	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	9	BL25SU	Np
42	2023B1036	Detailed Analysis of Gas Pores in Ni-alloy powers II	Joe Yoshikawa	Industrial Technology Institute, Miyagi Prefectural Government	Japan	National and Nonprofit Organization	Industrial Applications	1	BL20B2	Np
43	2023B1037	3D analysis of hydrogen-affected crack opening/phase transformation behavior in a structural material using imaging CT and XRD -STEP3: Tracking of hydrogen-induced crack propagation by high-resolution imaging CT	Osamu Takakuwa	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	7	BL20XU	Np
44	2023B1038	Soft x-ray XAFS measurements of O/Na/Ca/Si/Fe/Al/Mg from in-flight melting glass	Kyoko Okada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL27SU	Np

2023B, Performed Non-Proprietary Grant-Aided Proposals

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
45	2023B1039	Examination on the relationship between electron states of platinum- and palladium-based alloy catalysts for fuel cells and their catalytic activity	Futoshi Matsumoto	Kanagawa University	Japan	Educational Organization	Chemical Science	1	BL01B1	Np
46	2023B1040	Material microstructure analysis for carbon dioxide utilization process by redox of metal oxides	Yasushi Sekine	Waseda University	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
47	2023B1041	Observation of elasto-plastic deformation behavior during tensile test in additively manufactured Al-Mg-Si alloy with hetero-microstructure	Hiroki Adachi	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
48	2023B1042	Electronic states analysis of complex intermetallic compounds catalysts by hard X-ray photoelectron spectroscopy (3)	Satoshi Kameoka	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	2.75	BL09XU	Np
49	2023B1043	Structure analysis of polymer electrolyte fuel cell catalyst by X-ray diffraction	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Industrial Applications	2	BL19B2	Np
50	2023B1044	Structure analysis of polymer electrolyte fuel cell catalyst by hard X-ray photoelectron spectroscopy	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Industrial Applications	6	BL09XU	Np
51	2023B1045	Examination of Ti dimerization in pseudobrookites M1-xTi2+xO5 (M=Al, Mg) probed by hard X-ray photoemission spectroscopy 2	Tomohiko Saitoh	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	3	BL09XU	Np
52	2023B1046	Structural analysis by X-ray absorption fine structure for clarification of hyper-ordered structure	Hirokazu Masai	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL14B2	Np
53	2023B1047	Structural investigation of Ruddlesden-Popper compounds LaSr3Fe3O9Fx	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
54	2023B1048	Structure and thermal stability of porous coordination polymer incorporated with metal halide perovskite nanocrystals	Norio Saito	University of Yamanashi	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
55	2023B1049	Electronic and local structure analysis of oxyfluoride cathode materials during insertion and extraction of fluoride ions	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	3	BL01B1	Np
56	2023B1050	Compound refractive lenses (CRL) of Diamond with 25 keV	Kyoko Okada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	1	BL13XU	Np
57	2023B1051	Suppression of Defect Formation in Indium Oxide toward Fabrication of Ultra-High Mobility Oxide TFTs: Role of Oxygen Vacancy Compensation by Hydride Ions.	Junghwan Kim	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np
58	2023B1052	Operando strain measurement near defects of GaN vertical power devices using time-resolved nanobeam X-ray diffraction	Yusuke Hayashi	Osaka University	Japan	Educational Organization	Materials Science and Engineering	5	BL13XU	Np
59	2023B1053	Measurement and Analysis of Dislocation Density Change in deformation at high temperature for additively manufactured Ni-based superalloy	Atsushi Ito	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
60	2023B1757	Lattice Structure of 2.5 dimensional micrometer size thin film.	Eiji Nishibori	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	2	BL13XU	Np
61	2023B1758	Analysis of structural change by mechanical stress for stretchable semiconducting polymer thin films	Keisuke Tajima	RIKEN	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL13XU	Np
62	2023B1759	In-situ observation of thermal metamorphism and hydration reconstruction processes of layered double hydroxides with anion-exchange ability	Ryo Sasai	Shimane University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
63	2023B1760	Operando observation of surface states of titanium oxide gas sensor by ambient pressure X-ray photoelectron spectroscopy	Seiji Kawasaki	Murata Manufacturing Co., Ltd.	Japan	Industry	Chemical Science	2	BL46XU	Np
64	2023B1761	Structural origins of silicon carbide divacancies for room temperature quantum sensing applications.	Taishi Kimura	Toyota Central R&D Labs., Inc.	Japan	Industry	Materials Science and Engineering	12	BL13XU	Np
65	2023B1762	Strain-hardening Mechanisms in Bulk Nanostructured Metals for Managing Both Ultra-High Strength and Large Ductility (1)	Nobuhiro Tsuji	Kyoto University	Japan	Educational Organization	Industrial Applications	3	BL13XU	Np
66	2023B1763	Microstructural analysis of highly structure-controlled supported metal catalysts for carbon dioxide conversion	Yasushi Sekine	Waseda University	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
67	2023B1764	X-ray absorption spectroscopy study of electrocatalysts for oxygen evolution reaction	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	3	BL01B1	Np

2023B, Performed Non-Proprietary Grant-Aided Proposals

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
68	2023B1765	X-ray diffraction study of electrocatalysts for oxygen evolution reaction (6)	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
69	2023B1766	Measurement of effect of hydrogen on change in dislocation density with tensile deformation in hydrogen-filled stainless steel using in-situ X-ray diffraction tensile test	Shiro Torizuka	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
70	2023B1767	Structure analysis of polymer electrolyte fuel cell catalyst by hard X-ray photoelectron spectroscopy	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Industrial Applications	6	BL46XU	Np
71	2023B1768	Characterization of electronic structures toward development of novel energy saving wide-gap semiconductors studied by hard X-ray photoemission	Shigenori Ueda	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL09XU	Np
72	2023B1769	Analysis of changes of valence and local structure of rare metals in glass ceramics toward oxide-based sodium ion battery electrode active materials	Kenji Shinozaki	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	1	BL14B2	Np
73	2023B1770	In situ synchrotron X-ray diffraction of mechanochemical synthesis of coordination polymers of CuI and pyrazine with milling conditions near phase boundary	Hidetaka Kasai	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	1	BL13XU	Np
74	2023B1771	Precise Crystal Structural Analysis of Hybrid Polyoxometalates as Advanced Functional Energy Materials by High-flux X-ray Diffraction Analysis	Tatsuhiko Kojima	Kobe City College of Technology	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
75	2023B1772	Observation of elasto-plastic deformation behavior in Al-Si alloy manufactured by EBM	Hiroki Adachi	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
76	2023B1773	Evaluation experiment with Compound refractive lenses (CRL) of Diamond after annealing	Kyoko Okada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	1	BL13XU	Np
77	2023B1774	Evaluation of In-Flight Glass for future cars and small-airplanes by XAFS	Kyoko Okada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	1	BL14B2	Np
78	2023B1933	Elucidation of underlying mechanism between crystallite orientation and device performance of two-dimensional perovskite solar cells prepared by a large area solution process	Akinori Saeki	Osaka University	Japan	Educational Organization	Materials Science and Engineering	2	BL13XU	Np
79	2023B1934	Studies of positive and negative electrode for Na-ion batteries using near ambient pressure hard X-ray photoelectron spectroscopy	Satoshi Yasuno	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL46XU	Np
80	2023B1935	Electronic states analysis of hypermaterial alloy catalysts by hard X-ray photoelectron spectroscopy	Satoshi Kameoka	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	3	BL09XU	Np
81	2023B1936	Hyper-ordered Structure in the Biological ISCA1 Protein and Functional Glasses	Hirokazu Masai	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	2.875	BL01B1	Np
82	2023B1937	Elucidation of the physicochemical states of uranium and the related elements in the mill tailing pond sediment in Ningyo-toge center to elucidate migration and delay mechanism of the elements in the shallow land	Kouhei Tokunaga	Japan Atomic Energy Agency	Japan	National and Nonprofit Organization	Earth and Planetary Science	5.625	BL01B1	Np
83	2023B1938	Time-resolved lattice strain measurement under AC electric field for fluted ferroelectric ceramics	Yoshihiro Kuroiwa	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	6	BL13XU	Np
84	2023B1939	Structure analysis of polymer electrolyte fuel cell catalyst by hard X-ray photoelectron spectroscopy	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Industrial Applications	6	BL09XU	Np
85	2023B1940	Structure analysis of polymer electrolyte fuel cell catalyst by X-ray diffraction	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Industrial Applications	3	BL19B2	Np
86	2023B1941	Evaluation experiment with Improved Compound refractive lenses of Diamond: 8 keV	Kyoko Okada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	1	BL13XU	Np
87	2023B1942	TTT diagram by millisecond XRD measurement	Akira Miura	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
88	2023B1943	Evaluation of In-flight melting materials for Next-generation aerospace base new-By XAFS measurements	Kyoko Okada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	1	BL14B2	Np

2023B, Performed Non-Proprietary Grant-Aided Proposals

1Shift =8Hours

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89	2023B1944	Examination on the relationship between electron states of transition metal oxide-supported platinum-based alloy catalysts for fuel cells and their catalytic activity	Futoshi Matsumoto	Kanagawa University	Japan	Educational Organization	Chemical Science	1	BL01B1	Np
90	2023B1945	Measurement of effect of hydrogen on change in dislocation density with tensile deformation in hydrogen-filled stainless steel using in-situ X-ray diffraction tensile test No.2 Lowtemperature tensile test	Shiro Torizuka	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np