

2023A, 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	2023A1071	Identification of the assembled structure of chiral discotic liquid crystalline molecules	Kosuke Kaneko	Ritsumeikan University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
2	2023A1073	Pressure-induced transitions in Ce-based metallic glasses	Qiaoshi Zeng	Center for High Pressure Science and Technology Advanced Research	China	Foreign	Materials Science and Engineering	6	BL40XU	Np
3	2023A1075	Chemical reactions between metal and hydrogen under high-pressure torsion	Yang Gao	Center for High Pressure Science and Technology Advanced Research	China	Foreign	Materials Science and Engineering	6	BL10XU	Np
4	2023A1076	Structural stability of MgO at multi-Mbar pressures using modified diamond anvil cell	Bing Li	Center for High Pressure Science and Technology Advanced Research	China	Foreign	Materials Science and Engineering	6	BL10XU	Np
5	2023A1077	Calibrating magnesium oxide epoxy composite gasket for ultrahigh pressure X-ray diffraction studies	Cheng Ji	Center for High Pressure Science and Technology Advanced Research	China	Foreign	Other	6	BL10XU	Np
6	2023A1078	Phase stability and equation of state of the Fe-H system under Earth's core conditions	Jin Liu	Yanshan University	China	Foreign	Earth and Planetary Science	9	BL10XU	Np
7	2023A1080	Investigating Mercury's interior structure by sound velocity and density measurements of Fe-FeSi alloys at high pressure and temperature.	Serena Dominijanni	IMPMC	France	Foreign	Earth and Planetary Science	9	BL04B1	Np
8	2023A1082	Study of melting phase relations of the Martian mantle at high pressure and high temperature combined with in-situ ultrasonics	Daniele Antonangeli	Centre National de la Recherche Scientifique	France	Foreign	Earth and Planetary Science	6	BL04B1	Np
9	2023A1083	In-situ measuring of water in Al-bearing CaCl2-type SiO2 and seifertite using x-ray diffraction	Yanhao Lin	Center for High Pressure Science and Technology Advanced Research	China	Foreign	Earth and Planetary Science	9	BL10XU	Np
10	2023A1088	Uncovering the molecular mechanisms of hypertrophic cardiomyopathy	Julien Ochala	University of Copenhagen	Denmark	Foreign	Life Science	12	BL40XU	Np
11	2023A1092	Morphological aspects of coralline algae as sea environment and biodiversity indicators	Safiye Sarper	RIKEN	Japan	National and Nonprofit Organization	Life Science	6	BL20B2	Np
12	2023A1096	Determination of the Al2O3 solubility in MgSiO3 bridgmanite coexisting with corundum as a function of pressures up to 70 GPa and a temperature of 2000 K	Tomoo Katsura	University of Bayreuth	Germany	Foreign	Earth and Planetary Science	12	BL04B1	Np
13	2023A1099	High-temperature superconducting ternary hydrides at moderate pressures	Xiaoli Huang	Jilin University	China	Foreign	Materials Science and Engineering	6	BL10XU	Np
14	2023A1100	Glass-like thermal conductivity of zintl phase Eu2ZnSb2	Xueyun Wang	Beijing Institute of Technology	China	Foreign	Materials Science and Engineering	15	BL35XU	Np
15	2023A1101	Measurement of local dynamic stress by means of ultra-high speed camera in metallic materials: Consideration of XRD condition	Masakazu Kobayashi	Toyohashi University of Technology	Japan	Educational Organization	Materials Science and Engineering	12	BL47XU	Np
16	2023A1102	Extreme in-Plane thermal conductivity anisotropy of quasi-one-dimensional HfTe5	Jiawang Hong	Beijing Institute of Technology	China	Foreign	Materials Science and Engineering	15	BL35XU	Np
17	2023A1103	Viscosity of post-perovskite: Approaches from deformation experiments on analogue materials and technical development for pressure generation-II	Daisuke Yamazaki	Okayama University	Japan	Educational Organization	Earth and Planetary Science	15	BL04B1	Np
18	2023A1105	Amorphous and Liquid In-Te Compounds for Next-Gen Phase-Change Materials and Thermoelectrics	Evgeny Bychkov	University of the Littoral Opal Coast	France	Foreign	Materials Science and Engineering	12	BL04B2	Np
19	2023A1106	Evaluation of mechanical properties of inorganic particle-reinforced oriented poly(lactic acid) films during stretching using FTIR	Akihide Sugawara	Osaka University	Japan	Educational Organization	Materials Science and Engineering	12	BL43IR	Np
20	2023A1107	Visualization of words on 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
21	2023A1108	Revealing soil phosphorus species using micro XANES	Yohey Hashimoto	Tokyo University of Agriculture and Technology	Japan	Educational Organization	Environmental Science	6	BL27SU	Np
22	2023A1109	The viscosity of melt atop the 410-km discontinuity	Longjian Xie	University College London	UK	Foreign	Earth and Planetary Science	15	BL04B1	Np
23	2023A1110	Development of lattice glassification phenomena that appear in the vicinity of linear trimer phase.	NAOYUKI KATAYAMA	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	21	BL04B2	Np
24	2023A1111	Temperature variation of molecular conformation and aggregation behavior of polysaccharide-graft-thermoresponsible polymers	Ken Terao	Osaka University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
25	2023A1112	Destabilization mechanism of triple helical structure of collagen upon complexation with nanoparticles	Ken Terao	Osaka University	Japan	Educational Organization	Chemical Science	3	BL40B2	Np

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26	2023A1113	Behavior of cross-bridges during eccentric contraction in vivo	Atsuki Fukutani	Ritsumeikan University	Japan	Educational Organization	Life Science	9	BL40XU	Np
27	2023A1114	Investigation of Hydration Behaviors of Functional Nanoparticles for Application to DDS	Chie Kojima	Osaka Metropolitan University	Japan	Educational Organization	Chemical Science	6	BL43IR	Np
28	2023A1116	Pressure-induced metal-insulator transition in spinel compound CuM2Se4 (M = Rh, Ir)	NAOYUKI KATAYAMA	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	9	BL10XU	Np
29	2023A1118	Structure Elucidation of Highly Ordered Crystalline Assemblies Based on Metal Nanoclusters	Yuya Domoto	Gunma University	Japan	Educational Organization	Chemical Science	3	BL26B1	Np
30	2023A1121	In-situ Observation of Growth Process of Cylindrical Graft Polymer Assemblies by SAXS: Elucidation of the Effects of the Solution Temperature on the Growth Processes	Tomoki Nishimura	Shinshu University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
31	2023A1123	Cesium distribution in intestinal tissues	Haruko Yakumaru	National Institutes for Quantum Science and Technology	Japan	National and Nonprofit Organization	Medical Applications	9	BL20B2	Np
32	2023A1124	Relationship between low-energy excitations and successive structural transitions in a valence fluctuating compound YbPd	Satoshi Tsutsui	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	15	BL35XU	Np
33	2023A1125	Structural Analysis of Organocatalysts for Asymmetric Synthesis Responsive to External Environment	Aya Tanatani	Ochanomizu University	Japan	Educational Organization	Chemical Science	6	BL26B1	Np
34	2023A1127	Protein Dynamics in Extremophiles -- Investigation by Nuclear Forward Scattering	Stephen Cramer	SETI Institute	USA	Foreign	Life Science	18	BL19LXU	Np
35	2023A1128	In-situ CT observation of liquid phase sintering with dynamic transformation of solid, liquid and gas phases -Process informatics of binder jetting additive manufacturing -	Asuka Suzuki	Nagoya University	Japan	Educational Organization	Industrial Applications	6	BL20B2	Np
36	2023A1129	Construction of mantle seismic attenuation profile by short-period oscillation experiment Part 2	Takashi Yoshino	Okayama University	Japan	Educational Organization	Earth and Planetary Science	12	BL04B1	Np
37	2023A1130	Observation of hydration behavior of thermoresponsive polymer modified interfaces by infrared spectroscopic analysis	Kenichi Nagase	Keio University	Japan	Educational Organization	Chemical Science	6	BL43IR	Np
38	2023A1131	Establishment of weld solidification map for Fe-Mn-Si alloy using synchrotron X-ray	Tomoya Nagira	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL20XU	Np
39	2023A1133	Measurements of conformational changes of proteins in a single molecule with white X-ray	Hirofumi Shimizu	University of Fukui	Japan	Educational Organization	Life Science	18	BL28B2	Np
40	2023A1134	Structure-property relationship of room-temperature stable methylcellulose hydrogel revealed by SAXS and WAXD	Noriyuki Isobe	Japan Agency for Marine-Earth Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL40B2	Np
41	2023A1135	The developing eye lens: structure/function relationship in cultured lenses, factors affecting optical development and changes with mutation	Barbara Pierscionek	Anglia Ruskin University	UK	Foreign	Life Science	12	BL20B2	Np
42	2023A1137	In-situ Observation of Fomation Process of Macrosegregation and Solidification Cracking by Shear Deformation in Nickel-Based Superalloys	Tomohiro Nishimura	Kobe Steel, Ltd.	Japan	Industry	Industrial Applications	9	BL20B2	Np
43	2023A1140	Control of Degradation and Improvement of Mechanical Properties by Elucidating the Interaction between PLA Fibers and Water Molecules	Go Matsuba	Yamagata University	Japan	Educational Organization	Chemical Science	18	BL43IR	Np
44	2023A1142	Microtomographic analysis of human brain tissues of autopsy cases in the United States	Ryuta Mizutani	Tokai University	Japan	Educational Organization	Life Science	12	BL20XU	Np
45	2023A1144	Investigation of local structure around defect dipoles in ferroelectric BaTiO3 single crystals by X-ray fluorescence holography	Hiroki Matsuo	Kumamoto University	Japan	Educational Organization	Materials Science and Engineering	12	BL37XU	Np
46	2023A1145	Development of analytical method for elucidating distribution of drugs in mixed power, hair and fingerprint	Yasuo Seto	RIKEN	Japan	National and Nonprofit Organization	Other	9	BL43IR	Np
47	2023A1146	Exploring the metastable minerals occurred by a dynamic event using fast XRD measurements	Ryosuke Sinmyo	Meiji University	Japan	Educational Organization	Earth and Planetary Science	3	BL10XU	Np
48	2023A1147	Measurement of microsecond dynamics of strained polymers using diffracted x-ray blinking (DXB) method	Tatsuya Arai	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	12	BL40XU	Np
49	2023A1150	Inelastic x-ray scattering measurements for liquid AsTe mixtures showing anomalous temperature dependence of sound speed	Masanori Inui	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	18	BL35XU	Np
50	2023A1152	High energy x-ray CT measurements: comparative verification against light sheet 3D imaging using high angle x-ray scattering	Takayoshi Shimura	Osaka University	Japan	Educational Organization	Materials Science and Engineering	3	BL28B2	Np

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51	2023A1153	Quantitative Evaluation of Cation Mixing after Charge-Discharge Cycling of Lithium-Rich Cathode Materials by PDF Analysis	Masatsugu Oishi	Tokushima University	Japan	Educational Organization	Chemical Science	6	BL04B2	Np
52	2023A1154	Effects of a truncated myosin binding protein-C mutant on cardiac cross-bridge dynamics	James Pearson	National Cerebral and Cardiovascular Center	Japan	National and Nonprofit Organization	Medical Applications	12	BL40XU	Np
53	2023A1157	Study on structure of micelles formed by polyglycerol based surfactants and solubilization performance of surfactants. 2.	Kenji Murashima	SAKAMOTO YAKUHIN KOGYO CO., LTD	Japan	Industry	Industrial Applications	3	BL40B2	Np
54	2023A1159	Elucidation of environmental changes during the end-Permian mass extinction based on micro-scale phosphorous speciation analysis	Ryoichi Nakada	Japan Agency for Marine-Earth Science and Technology	Japan	National and Nonprofit Organization	Earth and Planetary Science	12	BL27SU	Np
55	2023A1160	Demonstration of submillisecond 4D X-ray tomography using biaxial synchronous high-speed rotary device	Wataru Yashiro	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	12	BL28B2	Np
56	2023A1161*	Structure analysis of hydrous sodium silicate melt at high pressure and high temperature	Tatsuya Sakamaki	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	3	BL05XU	Np
57	2023A1162	Elastic wave velocity measurements of silicate melt at high pressure and high temperature	Tatsuya Sakamaki	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	8.875	BL04B1	Np
58	2023A1163	Investigation into atomic displacement in high entropy alloys using x-ray fluorescence holography	Noriaki Hanasaki	Osaka University	Japan	Educational Organization	Materials Science and Engineering	12	BL47XU	Np
59	2023A1164	Elastic wave velocity measurements of fcc-iron: Implications for the structure of planetary cores	Tatsuya Sakamaki	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	9	BL04B1	Np
60	2023A1165	Study on multiplet structures of 3d transition metals in AlN by resonant X-ray scattering spectroscopy under UV-VIS-NIR light irradiation	Saki Imada	Kyoto Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	15	BL27SU	Np
61	2023A1166	Study on assignments of L-XAS structure with grand-state electronic structure by partial 2p3d-, 2p3s-RIXS yield analyses for 3d-transition metals	Saki Imada	Kyoto Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	12	BL27SU	Np
62	2023A1167	Characterization of a Peroxy-Level Reactive Intermediate in the Non-Heme Iron Enzyme BesC Using Nuclear Resonance Vibrational Spectroscopy	Edward Solomon	Stanford University	USA	Foreign	Life Science	18	BL35XU	Np
63	2023A1168	Determination of Fe3+/(Fe2++Fe3+) ratio in bridgmanite and silicate melt by XAFS measurement: Constraints on the redox evolution of the Earth's lower mantle	Hideharu Kuwahara	Ehime University	Japan	Educational Organization	Earth and Planetary Science	6	BL27SU	Np
64	2023A1169	Time-Resolved X-ray Diffraction on Ramp Laser-Heated N2 in Diamond Anvil Cells: Chemical Mechanisms for Molecular to Non-molecular Transformations	Minseob Kim	Washington State University	USA	Foreign	Earth and Planetary Science	9	BL10XU	Np
65	2023A1170	Analysis of the molecular state of ionic liquids and solid lipid nanoparticles for application to brain-targeted intranasal formulation	Naoto Suzuki	Nihon University	Japan	Educational Organization	Materials Science and Engineering	3	BL40B2	Np
66	2023A1171*	Alkane adsorption in carbon nanotubes and polymer films	Ayano Chiba	Keio University	Japan	Educational Organization	Materials Science and Engineering	3	BL04B2	Np
67	2023A1172	Phase transition and structural change of imidazolium-based ionic liquid crystals in confinement	Koji Fukao	Ritsumeikan University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
68	2023A1173	Biomechanics and evolution of insect genitalia based on holistic scrutiny of female and male abdominal morphology	Yoko Matsumura	Hokkaido University	Japan	Educational Organization	Life Science	5	BL20B2	Np
69	2023A1175	Study on effect of moisturizer based upon the structural modification of stratum corneum with its application. 5.—Verification of the effect of the degree of polymerization of polyglycerol	Kenji Murashima	SAKAMOTO YAKUHIN KOGYO CO., LTD	Japan	Industry	Industrial Applications	6	BL40B2	Np
70	2023A1176	SAXS study on heterogeneous structure formation of transparent polymer formed by bulk polymerization for optical communication.	Kento Okoshi	Chitose Institute of Science and Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
71	2023A1177	X-ray crystallographic analysis of chiral molecules consisting of carbonaceous three-dimensional networks	Toshiya Fukunaga	The University of Tokyo	Japan	Educational Organization	Chemical Science	6	BL26B1	Np
72	2023A1178	Competition of kink microstructure formation and recrystallization in hot- and cold-deformed dilute MgYZn alloys by SWAXS	Hiroshi Okuda	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL40B2	Np
73	2023A1179	Magnetic Circular Dichroism magnetic moment analysis of FeColr by machine learning	Masato Kotsugi	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	8	BL39XU	Np
74	2023A1182	In-situ high speed x-ray observation of structural transition to ultra dense phases under fast compression to megabar range using a piezo actuator driven DAC	Hitoshi Yusa	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL10XU	Np

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75	2023A1183	Investigation of evolution of element-specific moments during transition in magnetocaloric compounds for hydrogen liquefaction	Xin Tang	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	18	BL25SU	Np
76	2023A1184	Temperature-dependent electronic structure of LaCoO3 with soft x-ray angle-resolved photoemission spectroscopy	Tomohiko Saitoh	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	9	BL25SU	Np
77	2023A1185	In-situ observation of damage accumulation in SiC/SiC composites during cyclic tensile test by X-ray multiscale CT	Kazuya Shimoda	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL20XU	Np
78	2023A1187	Probing a new type of SOC-independent, momentum-dependent spin splitting effect in antiferromagnets	Chang Liu	Southern University of Science and Technology	China	Foreign	Materials Science and Engineering	12	BL25SU	Np
79	2023A1189	Time-resolved PDF analysis of polymerization induced vitrification of methyl methacrylate	Yasuhiro Suzuki	Osaka Metropolitan University	Japan	Educational Organization	Chemical Science	3	BL08W	Np
80	2023A1191	Distribution of toxic metals and metal-containing drugs in the segment specific cells derived proximal tubule and the mechanisms of their damage.	Hitomi Fujishiro	Tokushima Bunri University	Japan	Educational Organization	Medical Applications	9	BL37XU	Np
81	2023A1192	Relationship between mechanical properties of skin and changes in intercellular lipid lamellar structure	Yasuko Obata	Hoshi University	Japan	Educational Organization	Life Science	6	BL40B2	Np
82	2023A1193	Local atomic structures around Al in Al-Co-Ni quasicrystal by a newly developed soft x-ray fluorescence holography setup	Shinya Hosokawa	Kumamoto University	Japan	Educational Organization	Materials Science and Engineering	12	BL37XU	Np
83	2023A1194	Elucidation of Highly Polarizable Hyper-ordered Structure in Nb-doped TiO2 with X-ray Fluorescence Holography	Hiroki Taniguchi	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	12	BL37XU	Np
84	2023A1195	Determination of interactions between intercellular lipids in stratum corneum and components of transdermal formulations	Yasuko Obata	Hoshi University	Japan	Educational Organization	Life Science	12	BL43IR	Np
85	2023A1197	Controlling of ordered nanostructure in chiral silica using block copolymer with polyhedral oligomeric silsesquioxane thin film as template	Tomoyasu Hirai	Osaka Institute of Technology	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
86	2023A1199	Relationship between unusually strong beta relaxation of polyfumarates and their amorphous structure	Yasuhiro Suzuki	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	3	BL04B2	Np
87	2023A1204	Study on distribution of monomer sequence in amphiphilic copolymers by using anomalous small-angle X-ray scattering	Isamu Akiba	The University of Kitakyushu	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
88	2023A1206	x-ray optical device development for 25-nm-resolution three-dimensional x-ray imaging	Akihisa Takeuchi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	9	BL47XU	Np
89	2023A1207	Pressure-induced structural change in liquid Fe alloys	Yoichi Nakajima	Kumamoto University	Japan	Educational Organization	Earth and Planetary Science	3	BL05XU	Np
90	2023A1208	Tracking immune cells in the central nervous system in autoimmune diseases	Vartan Kurtcuoglu	University of Zurich	Switzerland	Foreign	Life Science	15	BL20B2	Np
91	2023A1209	Synchrotron X-ray micro-CT imaging and trace element analysis of the Ediacaran microfossils: The identification of the early metazoans and their organelle	Tsuyoshi Komiya	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	6	BL47XU	Np
92	2023A1210	Determination of stability and water solubility of hydrous CaSiO3 davemaoite based on high pressure-temperature volume measurements down to uppermost lower mantle conditions	Takayuki Ishii	Okayama University	Japan	Educational Organization	Earth and Planetary Science	12	BL04B1	Np
93	2023A1211	X-ray fluorescence holography measurements and valence-selective local atomic-structure analysis for europium oxyhydride exhibiting valence transition/change under strain	Hiroshi Takatsu	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	12	BL47XU	Np
94	2023A1212	Advanced magnetic particle guidance for targeted delivery of lung gene therapies and modulation of airway mucus rheology	Martin Donnelley	University of Adelaide / Women's and Children's Hospital	Australia	Foreign	Medical Applications	12	BL20XU	Np
95	2023A1213	Deformation of peridotite under the pressure-temperature conditions of deep subducting slab: why seismicity ceases at depths greater than 600 km?	Tomohiro Ohuchi	Ehime University	Japan	Educational Organization	Earth and Planetary Science	12	BL04B1	Np
96	2023A1215	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	Kentaro Yamamoto	Nara Women's University	Japan	Educational Organization	Chemical Science	12	BL37XU	Np
97	2023A1216*	Relationship between atomic configuration and electrode properties of TiNb2O7-based negative electrode materials with partial substitution of elements in group 13 for lithium-ion batteries	Naoto Kitamura	Tokyo University of Science	Japan	Educational Organization	Chemical Science	6	BL04B2	Np

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98	2023A1217	Fast X-ray imaging of magma fracturing	Satoshi Okumura	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	6	BL20B2	Np
99	2023A1221	Direct observation of atomic structures and chemical states of active and inactive sites of dopants in β -Ga ₂ O ₃ structure by photoelectron holography	Yoshiyuki Yamashita	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL25SU	Np
100	2023A1222	Visualizing the combustion process in a model engine (1)	Yoshiharu Sakurai	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Environmental Science	12	BL08W	Np
101	2023A1225	Structural change of intercellular lipids in the stratum corneum when applying microemulsions	Mina Sakuragi	Sojo University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
102	2023A1228	Amorphous structure change during polymerization-induced vitrification with different monomers	Yasuhito Suzuki	Osaka Metropolitan University	Japan	Educational Organization	Chemical Science	3	BL40B2	Np
103	2023A1229	Infrared Magneto-optical Spectra Measurements in Anisotropic Transition Metal Magnets	Satoshi Iguchi	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	21	BL43IR	Np
104	2023A1233	Study on the local structure of cage compounds LaCu ₆ -xAgx	Yui Ishii	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	12	BL04B2	Np
105	2023A1234	Symmetry of Quasicrystalline Structures in Pentablock Quarterpolymer of the AB1CB2D Type	Yushu Matsushita	Toyota Physical and Chemical Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL40XU	Np
106	2023A1235	Entropic repulsion in colloidal stability of DNA-functionalized nanoparticles	Masahiro Fujita	RIKEN	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL40B2	Np
107	2023A1237	Effect of nucleating agent on induction period of crystallization and structural formation for biomass-derived polymers	Masahiro Fujita	RIKEN	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL40B2	Np
108	2023A1239	Control of fat-bloom of cacao butter under application of an external electric field	Haruhiko Koizumi	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	6	BL40XU	Np
109	2023A1240	Examinations of Structures and Electronic States of Assemblies Comprising Charged π -Electronic Systems for Electronic Materials	Hiromitsu Maeda	Ritsumeikan University	Japan	Educational Organization	Materials Science and Engineering	6	BL40XU	Np
110	2023A1241	Local crystal structure analysis of lithium niobate fluoride LiFeF3 based on pair distribution functions	Hirofumi Akamatsu	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	3	BL04B2	Np
111	2023A1242	Yb 4f crystal-field ground state of valence transition compound YbInCu4 revealed by linear dichroism of resonant x-ray emission spectroscopy	Hitoshi Sato	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	12	BL39XU	Np
112	2023A1243	Analysis of the conformation and hydration state of cyclic PEG and elucidation of the physisorption mechanism on nanoparticles	Takuya Yamamoto	Hokkaido University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
113	2023A1244	In situ observation of mesoporous silica formation by time-resolved small-angle X-ray scattering	Rintaro Takahashi	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	9	BL40B2	Np
114	2023A1247	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	18	BL27SU	Np
115	2023A1248	Degradation Mechanism of Iron Ore Pellet Reduced by Hydrogen for Zero-Carbon Ironmaking -Effect of pellet type on the crack formation -	Taichi Murakami	Tohoku University	Japan	Educational Organization	Industrial Applications	6	BL28B2	Np
116	2023A1250*	Determination of melting temperature of iron hydrides in the Fe-H system	Sho Kakizawa	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Earth and Planetary Science	18	BL04B1	Np
117	2023A1251	Micro-imaging X-ray XAFS of Youhen Tenmoku tea bowl for the development of practical mass-production	Hikaru Takaya	TEIKYO University of Science	Japan	Educational Organization	Materials Science and Engineering	6	BL37XU	Np
118	2023A1252	Observation of bulk-originated band dispersion of 4f chiral magnet YbNi ₃ Al ₉ revealed by soft x-ray angle-resolved photoemission spectroscopy	Hitoshi Sato	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	9	BL25SU	Np
119	2023A1254	Control of axis thermal expansion of transition-metal zirconide superconductors by external pressure	Yoshikazu Mizuguchi	Tokyo Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	6	BL10XU	Np
120	2023A1255	Preventing respiratory distress in near-term newborn infants using phase contrast X-ray imaging	Stuart Hooper	Hudson Institute / Monash University	Australia	Foreign	Medical Applications	18	BL20B2	Np
121	2023A1256	Relation between the unconventional quantum critical phenomenon and the local structures in Au-Al-Yb quasicrystal and approximant studied by X-ray diffraction under pressure at low temperature	Hisao Kobayashi	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	9	BL10XU	Np
122	2023A1257	Dynamics of valence fluctuations in Au-Al-Yb quasicrystal and 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

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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)
123	2023A1258	Can strength prediction methods based on continuum mechanics be applied for unidirectional carbon nanotube yarn reinforced plastic composites?	Go Yamamoto	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	3	BL20XU	Np
124	2023A1259	Micro-CT scanning analysis of internal skeletal morphology of the maniraptoran theropod dinosaur Buitreraptor gonzalezorum from the Upper Cretaceous of Argentina	Takanobu Tsuihiji	National Museum of Nature and Science	Japan	National and Nonprofit Organization	Earth and Planetary Science	9	BL28B2	Np
125	2023A1260	Study on the polymorphic transition mechanism caused by the interaction between different crystals in the triacylglyceride ternary mixture systems	Ken Taguchi	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
126	2023A1261	Observations of opening and closing motions of a single mechano-channel molecule under various pressure conditions using Diffracted X-ray Tracking	Yuji Sasaki	The University of Tokyo	Japan	Educational Organization	Life Science	18	BL40XU	Np
127	2023A1262	Crystal structure transition and transporting transformation of the topological nodal-line superconductor PbTaSe2 under high pressure and low temperature	Jinlong Zhu	Southern University of Science and Technology	China	Foreign	Materials Science and Engineering	9	BL10XU	Np
128	2023A1263	Elucidation of correlation between antiferromagnetic order and spin propagation properties in single crystalline NiO thin films	Takumi Yamazaki	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	9	BL17SU	Np
129	2023A1264	Microscopic crystallography to elucidate structural transformation processes of cocrystalline frameworks of tetracarboxylic acids	Ichiro Hisaki	Osaka University	Japan	Educational Organization	Chemical Science	9	BL40XU	Np
130	2023A1266	Microscope FTIR analysis of spatial distribution of water molecules in deep-sea hydrothermal vent minerals	Kiyohiro Adachi	RIKEN	Japan	National and Nonprofit Organization	Earth and Planetary Science	6	BL43IR	Np
131	2023A1267	In situ observation of change in assembly manner of plasmonic nanoparticles within superlattices in solution phase	Masaki Saruyama	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL40B2	Np
132	2023A1269	Local clusters based on spin-glass induced giant exchange bias effects in Mn0.75In0.25	Kun Lin	University of Science and Technology Beijing	China	Foreign	Materials Science and Engineering	6	BL44B2	Np
133	2023A1270	Feasibility study for upgrading of X-ray phase tomography using multilayer monochromator with 40keV - II	Masato Hoshino	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	12	BL20B2	Np
134	2023A1271	Structural analyses to elucidate the unique structural transformation process of porous coordination frameworks	Yohei Takashima	Konan University	Japan	Educational Organization	Materials Science and Engineering	9	BL04B2	Np
135	2023A1273	Structure analyses of coordination polymer liquid under high pressure	Satoshi Horike	Kyoto University	Japan	Educational Organization	Chemical Science	3	BL05XU	Np
136	2023A1274	Development of high efficiency nuclear analyzer system of quasi-elastic gamma-ray scattering using two-dimension X-ray detector CITIUS and its application study on elongated polyisoprene dynamics	Makina Saito	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	18	BL35XU	Np
137	2023A1275	Correlation between local structure and oxygen vacancy in non-volatile memory alumina	Masato Kubota	Japan Atomic Energy Agency	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL04B2	Np
138	2023A1276	operando observation of morphology changes of Ni-rich cathode materials during unstable phenomena by high-speed X-ray CT method	Toshiki Watanabe	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL37XU	Np
139	2023A1277	Extreme static pressure generation above 500 GPa (III)	Takeshi Sakai	Ehime University	Japan	Educational Organization	Earth and Planetary Science	12	BL10XU	Np
140	2023A1279	Pressure- and nuclearity-dependence of photoluminescent multinuclear copper(I) iodide complexes in crystalline- and amorphous-state	Yoshiki Ozawa	University of Hyogo	Japan	Educational Organization	Chemical Science	3	BL10XU	Np
141	2023A1280	High-Pressure Synthesis of High-Temperature Superconducting Tri-Hydride Systems II	Katsuya Shimizu	Osaka University	Japan	Educational Organization	Materials Science and Engineering	14.875	BL10XU	Np
142	2023A1281	Change of thermophysical properties and fluctuation of atomic positions by strontium substitution in high temperature piezoelectric La3Ta0.5Ga5.5O14 crystal : X-ray fluorescence holographic study	Hiroaki Takeda	Saitama University	Japan	Educational Organization	Materials Science and Engineering	9	BL37XU	Np
143	2023A1282	Mechanism for deep-focus earthquakes: dehydration-driven faulting of olivine	Sando Sawa	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	3	BL04B1	Np
144	2023A1286	Structure formation during stretching crystallization for polymers with nodular crystalline structures	Takashi Konishi	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
145	2023A1287	Local structure of Zn impurity in CuI semiconductor with p-type character revealed by X-ray fluorescence holography	Mamoru Kitaura	Yamagata University	Japan	Educational Organization	Materials Science and Engineering	9	BL39XU	Np
146	2023A1288	In-situ observation of solidification sequences of TiAl-based alloys by time-resolved X-ray tomography coupled with X-ray diffraction	Ryoji Katsube	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL47XU	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)
147	2023A1289	Structural analysis for the ionic liquid-based solutions with highly concentrated cellulose	Kenta Fujii	Yamaguchi University	Japan	Educational Organization	Chemical Science	9	BL04B2	Np
148	2023A1293	Unique determination of the magnetic structure of Sr3NiIrO6 using 193Ir SR-based Mössbauer spectroscopy	Devashibhai Adroja	Rutherford Appleton Laboratory	UK	Foreign	Materials Science and Engineering	15	BL35XU	Np
149	2023A1294	Multi-temperature structure evolution of inorganic ductile semiconductors	Jiawei Zhang	Chinese Academy of Sciences	China	Foreign	Materials Science and Engineering	3	BL44B2	Np
150	2023A1295	Dynamics of microwave induced vibration of Indium cation incorporated in zeolites for selective CO2 hydrogenation reaction	Fuminao Kishimoto	The University of Tokyo	Japan	Educational Organization	Chemical Science	18	BL04B2	Np
151	2023A1297	Deformation-induced crystallographic preferred orientation of dense hydrous minerals	Yu Nishihara	Ehime University	Japan	Educational Organization	Earth and Planetary Science	12	BL04B1	Np
152	2023A1298	Prevention of hydrogen embrittlement in 5xxx/7xxx crossover aluminum alloys	Kazuyuki Shimizu	Iwate University	Japan	Educational Organization	Materials Science and Engineering	9	BL20XU	Np
153	2023A1300	Diabetic circulatory dysfunction: Establishment of hemodynamic fluctuation index	Yumi Takiyama	Asahikawa Medical University	Japan	Educational Organization	Medical Applications	9	BL20B2	Np
154	2023A1303	Development of non-destructive testing for rebar corrosion in concrete by using the Compton scattering	Hiroshi Sakurai	Gunma University	Japan	Educational Organization	Other	9	BL08W	Np
155	2023A1304	Characterization of short-lived reaction intermediate of nitric oxide reductase	Takehiko Tosha	Hyogo Public University Corporation	Japan	Educational Organization	Life Science	15	BL35XU	Np
156	2023A1305	Study on toughening of crystalline polymers via deformation and void formation during elongation.	Takahiko Kawai	Gunma University	Japan	Educational Organization	Materials Science and Engineering	3	BL05XU	Np
157	2023A1307	Nondestructive observation of steel in concrete using synchrotron radiation X-ray imaging	Ayuki Yoshizumi	Nippon Steel Corporation	Japan	Industry	Industrial Applications	6	BL28B2	Np
158	2023A1308	Ordering of Trimer with Augmented Multipole Degrees of Freedom and its Effects on Hyperfine Interactions	Satoshi Tsutsui	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	18	BL35XU	Np
159	2023A1310	Phonon anomaly and the f-electron instability responsible for the structural transition in tetragonal CeCoSi	Takeshi Matsumura	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	9	BL43LXU	Np
160	2023A1313	Observation of electrically activated As clusters under co-doping of As and B in Si by photoelectron holography introducing the principal component analysis method	Kazuo Tsutsui	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	12	BL25SU	Np
161	2023A1314	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
162	2023A1315	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	30	BL08W	Np
163	2023A1316	Probing a charge-density-wave nematic liquid under uniaxial strain	Yu Song	Zhejiang University	China	Foreign	Materials Science and Engineering	14.875	BL35XU	Np
164	2023A1318	Does intermittent low-intensity vibratory stimulation improve the inhibitory effect of breast cancer osteolytic metastasis by continuous one?	Takeshi Matsumoto	Tokushima University	Japan	Educational Organization	Medical Applications	6	BL20B2	Np
165	2023A1319	High-pressure in situ x-ray elastic wave velocity measurements on Si-poor silicate glasses toward understanding the structure and physical properties of the magmas in the deep Earth	Itaru Ohira	Gakushuin University	Japan	Educational Organization	Earth and Planetary Science	9	BL04B1	Np
166	2023A1320	Non-destructive analysis of the electrical treeing in high-voltage cables II	Keisuke Itoh	Industrial Technology Institute, Miyagi Prefectural Government	Japan	National and Nonprofit Organization	Industrial Applications	5.875	BL20B2	Np
167	2023A1324	Probing 5d electronic structures for evaluating 4f-5d Coulomb interaction near the quantum critical point in the valence fluctuating materials	Hideonori Fujiwara	Osaka University	Japan	Educational Organization	Materials Science and Engineering	12	BL39XU	Np
168	2023A1325	In vivo X-ray diffraction studies of skeletal muscle proteins in malignant hyperthermia disease model mice during thermogenesis	Madoka Suzuki	Osaka University	Japan	Educational Organization	Life Science	9	BL40XU	Np
169	2023A1326	Elucidation of molecular activation mechanism on ligand-protected MAu8 clusters (M=Au, Pt, Pd) by in-situ Quick XAFS	Seiji Yamazoe	Tokyo Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	9	BL36XU	Np
170	2023A1327	Development of high-efficiency condenser illumination system for improvement of high-energy x-ray nano-CT	Akihisa Takeuchi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	9	BL20XU	Np

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171	2023A1329	Structural Analysis of Stretching Process of Polymer Blends with Movable Crosslinks	Takashi Konishi	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL40B2	Np
172	2023A1330	Development of combind Compton scattering imaging system	Naruki Tsuji	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	15	BL08W	Np
173	2023A1331	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
174	2023A1332	Quantitative analysis of the dependence of microvoid configuration anisotropy on the build direction and its effect on ductile fracturing behaviour in Ti L-PBF materials	Yukiko Ozaki	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	3	BL20B2	Np
175	2023A1334	Characterizations of interactions between microbes and metals/minerals in the deep rock interior for the extraterrestrial life exploration and the constraints on the origin of life	Yohey Suzuki	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	12	BL17SU	Np
176	2023A1335	X-ray fluorecenece holography of Bi2Rh3Se2 with coexistence of CDW and superconductivity	Yoshihiro Kubozono	Okayama University	Japan	Educational Organization	Materials Science and Engineering	15	BL39XU	Np
177	2023A1336	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
178	2023A1337	Rapid X-Ray Crystallographic Analysis of BN-Embedded Nanocarbon Molecules by High-Brightness Microbeam	Takuji Hatakeyama	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL40XU	Np
179	2023A1338	Phonon anomalies and nature of the phase transitions in TaTe2	Santiago Blanco Canosa	Donostia International Physics Center	Spain	Foreign	Materials Science and Engineering	12	BL43LXU	Np
180	2023A1340	in-situ SAXS/WAXD study on retrogradation of cooked rice during storage.	Takahiko Kawai	Gunma University	Japan	Educational Organization	Industrial Applications	9	BL40B2	Np
181	2023A1343	Crystal structure and superconductivity of alkaline earth metals calcium on low temperature and high pressure phase.	Yuki Nakamoto	Osaka University	Japan	Educational Organization	Materials Science and Engineering	12	BL10XU	Np
182	2023A1344*	Unraveling the incorporation mechanism of protons into hydrated silica glass	Yohei Onodera	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL04B2	Np
183	2023A1345	Search for metallization and superconductivity of hydrogen under ultra-high pressure using toroidal anvil.	Yuki Nakamoto	Osaka University	Japan	Educational Organization	Materials Science and Engineering	6	BL10XU	Np
184	2023A1346	Structural analysis of glass-stabilized Ag quantum clusters using Ag-K edge anomalous X-ray scattering	Kouichi Hayashi	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	12	BL47XU	Np
185	2023A1347	Observing local structural distortions in high-entropy thermoelectrics	Long Yang	Tongji University	China	Foreign	Materials Science and Engineering	7	BL08W	Np
186	2023A1348	Structural and dynamic analysis of supramolecular hydrogen-bonded networks	Munenori Numata	Kyoto Prefectural University	Japan	Educational Organization	Materials Science and Engineering	6	BL43IR	Np
187	2023A1349	Analysis of Heterogeneous Structure of 3D Crosslinked Polymers with High-Resolution IR Imaging	Yoshihisa Fujii	Mie University	Japan	Educational Organization	Chemical Science	6	BL43IR	Np
188	2023A1350	Visualization of deterioration in civil engineering structures(concrete,pavement)	Kentaro Uesugi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	27	BL28B2	Np
189	2023A1351	Unconventionally Wide Isotropic Zero Thermal Expansion in (Zr0.62Nb0.33Fe0.05)Fe2	Xianran Xing	University of Science and Technology Beijing	China	Foreign	Materials Science and Engineering	3	BL44B2	Np
190	2023A1353	Structure of supported metals in pores of zeolite: Analysis by X-ray fluorescence holography	Kouichi Hayashi	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL47XU	Np
191	2023A1354	Atomic-site resolved band structure in chiral ferrimagnet by using soft x-ray resonant ARPES	Kohei Yamagami	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL25SU	Np
192	2023A1355	Clarification of the initiation and early growth behaviors of internal fatigue crack in super high-strength steel	Takashi Nakamura	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	15	BL20XU	Np
193	2023A1358	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
194	2023A1359	Mechanism of deep earthquakes at the mantle transition zone: insight from the direct observation of the ultra-high-pressure faulting using the rotational diamond anvil cell	Keishi Okazaki	Hiroshima University	Japan	Educational Organization	Earth and Planetary Science	15	BL47XU	Np

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195	2023A1360	Polarization and Energy Dependence of Soft X-ray Resonance Emission in Gas Phase	Naoya Kurahashi	National Institutes of Natural Sciences	Japan	National and Nonprofit Organization	Chemical Science	15	BL27SU	Np
196	2023A1361	High-resolution analysis of ciliary motility mechanism by X-ray fiber diffraction of ctenophore comb plate	Kazuo Inaba	University of Tsukuba	Japan	Educational Organization	Life Science	18	BL40XU	Np
197	2023A1362	In-situ observation of local atomic displacement around Mn atoms in Mn-doped BiFeO ₃ single crystalline thin film by inverse-mode X-ray fluorescence holography under an electric field	Seiji Nakashima	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	15	BL37XU	Np
198	2023A1363	Glass Transitions and Local Structures of Hydrogen-bonded Molecular Liquids under High-pressure	Osamu Yamamuro	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	12	BL37XU	Np
199	2023A1364	Bulk Fermi surface of CrB2 from high-resolution Compton scattering measurements	Stephen Dugdale	University of Bristol	UK	Foreign	Materials Science and Engineering	20.875	BL08W	Np
200	2023A1366	Glass Transitions and Temperature-dependence of Local Structures of Hydrogen-bonded Molecular Liquids	Osamu Yamamuro	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL04B2	Np
201	2023A1367	In situ high-energy X-ray total scattering measurement with pair distribution function analysis of the formation of ordered structures during induction period in the systems of zincosilicate zeolites	Toru Wakihara	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	18	BL08W	Np
202	2023A1369	Elucidation of quantum-spin transport properties in ferromagnetic transition-metal oxide devices	Masaki Kobayashi	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	12	BL25SU	Np
203	2023A1370	In-situ observation of equiaxial crystal formation with residual Si as a nucleus during rapid melting and solidification of laser-irradiated Al-Si alloys	Kohei Morishita	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	9	BL47XU	Np
204	2023A1371	Structure and electronic state analyses of supramolecular metal nanocluster network and the elucidation of the mechanism of its high-order structure formation using QXAFS techniques	Kiyohiro Adachi	RIKEN	Japan	National and Nonprofit Organization	Chemical Science	6	BL36XU	Np
205	2023A1373	Control and elucidation of compositional modulation of chimney-ladder phases in complex crystal compounds under high pressure and high temperature	Takuya Sasaki	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL04B1	Np
206	2023A1376	Quantitative evaluation of tie molecules during elongation/shrinkage cycle for drawn ethylene-tetrafluoroethylene copolymer (ETFE) films	Hiroki Uehara	Gunma University	Japan	Educational Organization	Materials Science and Engineering	12	BL40XU	Np
207	2023A1379	High energy resolution X-ray fluorescence hologram measurement using photoelectron conversion II	Yusuke Hashimoto	Nara Institute of Science and Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL25SU	Np
208	2023A1381	Elucidation of electric-field-induced structural change of high-performance piezoelectric Pb(Mg1/3Nb2/3)O3-PbTiO3 using X-ray fluorescence holography	Koji Kimura	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	12	BL47XU	Np
209	2023A1382	Single crystal X-ray diffraction using synchrotron radiation X-rays for macrocyclic molecules utilizing alkaloid skeletons	Sota Sato	The University of Tokyo	Japan	Educational Organization	Chemical Science	9	BL26B1	Np
210	2023A1383	XMCD-PEEM study on room-temperature chiral magnet Fe2-xPdxMo3N and Co2-xPdxMo3N thin film	Takahiro Ito	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	9	BL25SU	Np
211	2023A1385	Synthesis of novel nanostructure-controlled carbon and metal carbides by high-pressure and high-temperature treatments to crystalline organic molecules and metal complexes	Toshihiro Shimada	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	9	BL10XU	Np
212	2023A1387	Synchrotron X-ray CT analysis of Japanese swords (fire damaged swords and swords made by Mino group in the Sengoku period) to clarify their inner structures and making techniques	Manako Tanaka	Tokyo University of the Arts	Japan	Educational Organization	Other	12	BL28B2	Np
213	2023A1389	Clay body analysis of Nara Sancai using high energy X-ray fluorescence method	Shoko Kokura	Archaeological Institute of Kashihara, Nara Prefecture	Japan	National and Nonprofit Organization	Other	6	BL20B2	Np
214	2023A1390	Analysis of oxidized surface on Zn based coating alloy ~nanospectroscopy as an analytic strategy for overcoming corrosion~	Katsuhiro Nishihara	Nippon Steel Corporation	Japan	Industry	Industrial Applications	11.25	BL25SU	Np
215	2023A1391	Magnetic domain structure in an antiferromagnetic ruthenium oxide	Shutaro Karube	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL17SU	Np
216	2023A1394	Microstructure by kink-deformation examined by heirarchical SAXS tomography	Hiroshi Okuda	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	12	BL40XU	Np
217	2023A1395	In-situ analysis of the oxidation state of Ir-doped MnO2 catalysts for the oxygen evolution reaction by HERFD-XANES techniques	Kiyohiro Adachi	RIKEN	Japan	National and Nonprofit Organization	Chemical Science	9	BL39XU	Np

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218	2023A1396	Development of visualization technique of pathology using synchrotron radiation CT imaging with gold nanoparticles	Kohsuke Gonda	Tohoku University	Japan	Educational Organization	Medical Applications	3	BL20XU	Np
219	2023A1397	Precise SAXS analysis of novel cocontinuous microphase-separated structures formed by ABC triblock terpolymers with various chain length distribution.	Atsushi Takano	Nagoya University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
220	2023A1398	Kohn anomaly in a topological magnet	Ola Kenji Forslund	Chalmers University of Technology	Sweden	Foreign	Materials Science and Engineering	9	BL43LXU	Np
221	2023A1400	Investigation of Martian nitrogen cycle and its evolution history based on the in-situ N-XANES analysis of Martian rock samples	Mizuho Koike	Hiroshima University	Japan	Educational Organization	Earth and Planetary Science	12	BL27SU	Np
222	2023A1401	Structural study of disordered atomic configuration in Li-rich layered oxide cathodes by high-energy X-ray diffraction measurements	Satoshi Hiroi	Shimane University	Japan	Educational Organization	Materials Science and Engineering	3	BL04B2	Np
223	2023A1402	Evaluation of damage behavior in tension of high-entropy alloy using diffraction contrast tomography	Shoichi Kikuchi	Shizuoka University	Japan	Educational Organization	Industrial Applications	6	BL47XU	Np
224	2023A1404	Operando measurement of lithium reaction distribution in the electrode on laminated solid-state battery	Kosuke Suzuki	Gunma University	Japan	Educational Organization	Chemical Science	18	BL08W	Np
225	2023A1405	Study of Water Dynamics in Water-Soluble Polysiloxanes based on Rapid in-situ Infrared Spectroscopy in Humidity Controlled Environments	Yoshihisa Fujii	Mie University	Japan	Educational Organization	Chemical Science	3	BL43IR	Np
226	2023A1408	High-resolution operando three-dimensional and simultaneous observation of heterogeneous reaction within numerous active material particles in solid state battery composite electrodes using imaging nano CT-XAFS and optimization of active material particle parameters	Yuta Kimura	Tohoku University	Japan	Educational Organization	Chemical Science	18	BL37XU	Np
227	2023A1410*	Site occupancy of hydrogen and hydrogen-induced volume expansion rate in Fe-S-H ternary system at high pressure and high temperature	Hiroyuki Kagi	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	12	BL04B1	Np
228	2023A1412	Three-dimensional multiscale analysis of thermomechanical damages in environmental barrier coating (EBC) on ceramic matrix composite (CMC) for next-generation jet engines	Hideki Kakisawa	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL20XU	Np
229	2023A1413	Analysis of stratum comeum structure in patients with anticancer drug-induced skin disorders I -Osimertinib-induced xerosis-	Tomonobu Uchino	University of Shizuoka	Japan	Educational Organization	Life Science	9	BL40B2	Np
230	2023A1415	Characterization of Thorium-229 crystals using synchrotron radiation X-rays toward solid-state nuclear clock	Sayuri Takatori	Okayama University	Japan	Educational Organization	Elementary Particles, Nuclear Science	3	BL37XU	Np
231	2023A1419	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	8	BL45XU	Np
232	2023A1420	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
233	2023A1421	Operando analysis of the protection mechanism of coating layers inserted at electrode/solid electrolyte interface in solid state batteries using depth resolved soft X-ray absorption spectroscopy	Yuta Kimura	Tohoku University	Japan	Educational Organization	Chemical Science	24	BL27SU	Np
234	2023A1422	Observation of distributed metallic Li and ionic Li intercalated into an anode of a Li-ion battery	Daigo Setoyama	Toyota Central R&D Labs., Inc.	Japan	Industry	Industrial Applications	12	BL08W	Np
235	2023A1424	Observation of fracture process of rubber under cyclic deformation by fast four-dimensional X-Ray CT imaging.	Ryo Mashita	Sumitomo Rubber Industries, Ltd.	Japan	Industry	Industrial Applications	9	BL28B2	Np
236	2023A1425	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
237	2023A1427	Chemical site dependent local structure of N dopant in heavily N-doped diamond	Takayoshi Yokoya	Okayama University	Japan	Educational Organization	Materials Science and Engineering	9	BL25SU	Np
238	2023A1428	Measurement of crystallographic orientation, volume and lattice constant immediately after a massive-like transformation in Fe alloys by a fast CT and XRD technique	Hideyuki Yasuda	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL47XU	Np
239	2023A1429	Preliminary study of 4D-CT with high spatial resolution for bulk specimens	Hideyuki Yasuda	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL20B2	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)
240	2023A1431	Exploration of the catalytic mechanism of Ir-doped MnO ₂ catalysts for the oxygen evolution reaction by operando time-resolved HERFD-XANES techniques	Kiyohiro Adachi	RIKEN	Japan	National and Nonprofit Organization	Chemical Science	9	BL36XU	Np
241	2023A1432	Investigation of reaction mechanism of composite air electrode in proton conducting ceramic fuel cell by using operando high-temperature electrochemical nano-XAS measurements	Koji Amezawa	Tohoku University	Japan	Educational Organization	Chemical Science	17.875	BL37XU	Np
242	2023A1433	Operando and high special resolution 3D analysis of reaction distribution in a composite cathode for lithium-sulfur batteries using X-ray imaging nano CT	Koji Amezawa	Tohoku University	Japan	Educational Organization	Chemical Science	8	BL37XU	Np
243	2023A1435	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	9	BL17SU	Np
244	2023A1436	Observation of semisolid deformation during a tensile test in bulk Al alloys by 4D-CT and 3DXRD using multilayer mirror	Taka Narumi	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL20B2	Np
245	2023A1437	Study of the local dynamics of rubber under deformation by quasielastic gamma-ray scattering.	Ryo Mashita	Sumitomo Rubber Industries, Ltd.	Japan	Industry	Industrial Applications	18	BL35XU	Np
246	2023A1438	High-pressure powder x-ray diffraction experiment in chiral magnet FeGe	Yukako Fujishiro	RIKEN	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL10XU	Np
247	2023A1439	Soft X-ray XAFS study of Fe and S in soda lime silicate glasses	Tatsuya Miyajima	AGC Inc.	Japan	Industry	Industrial Applications	9	BL27SU	Np
248	2023A1440	Compositional dependence of density of liquid Fe–S at Martian core conditions	Hidehiko Terasaki	Okayama University	Japan	Educational Organization	Earth and Planetary Science	9	BL10XU	Np
249	2023A1441	SAXS structural analysis of high-quality single crystals of DNA-functionalized nanoparticles grown in an ideal environment for crystal growth realized by a microfluidic chip	Miho Tagawa	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
250	2023A1443	The analysis for the skin permeation promoter effect of the water and electric filed.	Hiromitsu Nakazawa	Kwansei Gakuin University	Japan	Educational Organization	Life Science	3	BL40B2	Np
251	2023A1444	Investigation of Local Structure of a Substituted Element in a Wurtzite Ferroelectric Material by X-ray Fluorescence Holography	Takao Shimizu	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL37XU	Np
252	2023A1447	Operando Measurements of micro-CT and nano-CT-XRD for Cathode Reaction of Lithium-Air Battery	Toshihiro Kondo	Ochanomizu University	Japan	Educational Organization	Chemical Science	3	BL20XU	Np
253	2023A1448	Elucidation of Activation and Degradation Mechanisms of Polymer Electrolyte Water Catalysts by Total XrayScattering and PDF Analysis (3)	Toshiki Watanabe	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL04B2	Np
254	2023A1451	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	3	BL43IR	Np
255	2023A1453	A study on the chemical reactions affected by the oxidation stat of Fe in clay minerals in asteroid Ryugu using scanning soft X-ray microscopy	Yoshio Takahashi	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	12	BL17SU	Np
256	2023A1455	A study on the enrichment of rare metal and rare earth elements to ferromanganese oxides using HERFD-XANES	Yoshio Takahashi	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	15	BL39XU	Np
257	2023A1456	Ocean fertilization by anthropogenic effect during recent 250 years based on the μ -XRF-XAFS analysis of aerosols recovered from Greenland SE core.	Yoshio Takahashi	The University of Tokyo	Japan	Educational Organization	Environmental Science	13	BL37XU	Np
258	2023A1457	Study on the effect of transdermal penetration enhancers on the molecular level structure of the stratum corneum I	Tomonobu Uchino	University of Shizuoka	Japan	Educational Organization	Life Science	3	BL40B2	Np
259	2023A1458	Establishment of a new treatment for intractable chronic joint pain: Elucidation of the mechanism of pain relief by inflammation-induced neovascular embolization and evaluation of the characteristics of the optimal embolization material	Hiroki Nakamura	Kawasaki Medical School	Japan	Educational Organization	Medical Applications	12	BL20B2	Np
260	2023A1461	Analysis for the penetration enhancing effect of the nanoscale clustered water shower using by human hair applied with hair treatment.	Hiromitsu Nakazawa	Kwansei Gakuin University	Japan	Educational Organization	Life Science	6	BL43IR	Np
261	2023A1462	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	30	BL43IR	Np
262	2023A1463	Secondary structure analysis of proteins in damaged and improved hair using infrared microspectroscopy	Kazuki Kobayashi	Milbon Co., Ltd.	Japan	Industry	Industrial Applications	18	BL43IR	Np

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263	2023A1465	Elucidation of activation and degradation mechanisms of polymer electrolyte water catalysts by O Kedge X-ray absorption spectroscopy (2)	Toshiki Watanabe	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL27SU	Np
264	2023A1469	Development of a Hard X-ray Telescope for a Balloon X-ray Polarimetry XL-Calibur VI	Yoshitomo Maeda	Japan Aerospace Exploration Agency	Japan	National and Nonprofit Organization	Elementary Particles, Nuclear Science	18	BL20B2	Np
265	2023A1470	Temperature dependence study of dimensional crossover in three-dimensional band structure of van der Waals triangular lattice semimetal GdGaI using three dimensional resolved ARPES	Yukiko Obata	Kanazawa University	Japan	Educational Organization	Materials Science and Engineering	17.875	BL25SU	Np
266	2023A1471	In-situ X-ray diffraction measurement of Ni-RE(RE=Dy, Nd) alloying/dealloying in molten LiCl-KCl-DyCl ₃ -NdCl ₃	Yumi Katasho	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Chemical Science	8.875	BL28B2	Np
267	2023A1473	Study for the transdermal absorption properties of GE/BG formulation.	Hirimitsu Nakazawa	Kwansei Gakuin University	Japan	Educational Organization	Life Science	3	BL40B2	Np
268	2023A1475	Electronic structure and its battery property of atomic doped layered LiNiO ₂	Kosuke Suzuki	Gunma University	Japan	Educational Organization	Materials Science and Engineering	9	BL08W	Np
269	2023A1476	Evaluation of semiconductor detectors and collimator aboard the US-Japan joint sounding rocket experiment FOXSI-4 for the first focusing imaging-spectroscopic observation of a solar flare in X-rays	Noriyuki Narukage	National Institutes of Natural Sciences	Japan	National and Nonprofit Organization	Elementary Particles, Nuclear Science	15	BL20B2	Np
270	2023A1477	Structural analysis of the 2Fe-2S cluster in Ferredoxin using X-ray fluorescence holography	Hideaki Tanaka	Osaka University	Japan	Educational Organization	Life Science	18	BL39XU	Np
271	2023A1478	In-situ observation of grain-scale dynamics and its application to the post-perovskite transformation	Tomoaki Kubo	Kyushu University	Japan	Educational Organization	Earth and Planetary Science	18	BL04B1	Np
272	2023A1479	operando HERFD-XAS study of Pt alloy nanowire catalyst for oxygen reduction reaction (2)	Toshiki Watanabe	Kyoto University	Japan	Educational Organization	Chemical Science	3	BL39XU	Np
273	2023A1480	The impact of microgravity on the cellulose molecules' assembling process in cellulose biosynthesis	Tomoya Imai	Kyoto University	Japan	Educational Organization	Life Science	3	BL40B2	Np
274	2023A1481	Development of Synchrotron-Radiation-Based Mossbauer Spectroscopy for Short-Lived Nuclides(166Er)	Shinji Kitao	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	15	BL35XU	Np
275	2023A1483	Direct determination of preferred growth directions of hexagonal Zn and Mg alloys by using time-resolved tomography (4D-CT) combined and X-ray diffraction (XRD)	Hideyuki Yasuda	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL47XU	Np
276	2023A1487	Ultra-high-pressure synthesis of novel covalent-bonded compounds and time-resolved measurements of the structural relaxation process	Ken Niwa	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL10XU	Np
277	2023A1490	Direct observation of interstitial-substitutional interaction in steel by soft X-ray absorption spectroscopy in heat treatment	Kakeru Ninomiya	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	9	BL27SU	Np
278	2023A1491	Deformation and dissociation transition of metastable enstatite under the conditions of subducting slab	Yumiko Tsubokawa	Kyushu University	Japan	Educational Organization	Earth and Planetary Science	6	BL04B1	Np
279	2023A1493	Time resolved x-ray structural analysis of poly(lactic acid)/thermoplastic starch blend resins under stretching orientation	Hiroshi Uyama	Osaka University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
280	2023A1495	Direct detection of f-p hybridization-driven spin-polarized state of non-magnetic metal for van der Waals triangular lattice semimetal GdGaI	Yukiko Obata	Kanazawa University	Japan	Educational Organization	Materials Science and Engineering	18	BL25SU	Np
281	2023A1496	Construction of the composition-temperature phase diagram of Cu-doped PbMn ₇ O ₁₂	Alexei Belik	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	2.875	BL02B2	Np
282	2023A1498	Structure analysis of Ruddlesden-Popper-type Eu(II)-based perovskite	Wei Yi	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
283	2023A1499	Evaluation of intrinsic piezoelectric constants of fluted ferroelectric ceramics by powder diffraction experiments and development of time-resolved lattice strain measurement system under AC electric field	Yoshihiro Kuroiwa	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	6	BL13XU	Np
284	2023A1502	Observation of a topochemical redox reaction on SrFeO ₃ -d by using milli-second time-resolved XRD measurements	Takafumi Yamamoto	Tokyo Institute of Technology	Japan	Educational Organization	Chemical Science	9	BL13XU	Np

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285	2023A1504	Chemical bonding analysis in arsenic-containing compounds to study piezoelectric properties and to design removal strategies from freshwater	Simon Grabowsky	University of Bern	Switzerland	Foreign	Chemical Science	12	BL02B1	Np
286	2023A1506	Structural analysis of Ion-exchangeable MOF Zr-mel containing multivalent ions	Teppei Yamada	The University of Tokyo	Japan	Educational Organization	Chemical Science	6	BL02B1	Np
287	2023A1509	Elucidation of the relationship between catalytic activity and the structure of metal cluster based on the precious crystal structure analysis	Yusuke Sunada	The University of Tokyo	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
288	2023A1512	Elucidation of Chemical States, Coordination Structures, and Selectivity Factors of Supported Au-Pd Bimetallic Nano-particle Catalysts Promoting Highly Selective Dehydrogenation 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	6	BL14B2	Np
289	2023A1518	Microfibril angle distributions of "SAGAN-SUGI" (Japanese cedar) characterized by SAXS (II)	Ichiro Hirosawa	Kyushu Synchrotron Light Research Center	Japan	National and Nonprofit Organization	Industrial Applications	6	BL19B2	Np
290	2023A1519	Local structure of the transition-metal nanoclusters in the transition-metal chalcogenide phase change material	Yi Shuang	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	9	BL01B1	Np
291	2023A1520	Study on structural properties of magnetic anisotropy and electronic states of strong permanent magnet Nd ₂ Fe ₁₄ B and related materials	Hiroshi Sawa	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
292	2023A1521	Visualizing disordered, diffusive silver ions in thermoelectric silver chalcogenides	Jiawei Zhang	Chinese Academy of Sciences	China	Foreign	Materials Science and Engineering	4.875	BL02B1	Np
293	2023A1524	Investigation on the Structure of Catanionic Self-Assembly Systems for Application to Drug Delivery System	Nozomi Watanabe	Osaka University	Japan	Educational Organization	Chemical Science	3	BL19B2	Np
294	2023A1525	Investigating active-site local structure in Pd-Cu shells in Selective Hydrogenation of Acetylene	Xianran Xing	University of Science and Technology Beijing	China	Foreign	Materials Science and Engineering	2.875	BL01B1	Np
295	2023A1527	XAFS measurement of standard sample for SPring-8 BL14B2 XAFS database (9)	Hironori Ofuchi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Industrial Applications	3	BL14B2	Np
296	2023A1528	Crystal structure determination of semiconductive tin MOF synthesized based on materials informatics	Daisuke Tanaka	Kwansei Gakuin University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
297	2023A1529	Crystal structure analysis of porous coordination polymers focused on dynamic 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
298	2023A1530	Structure Determination and Phase Transition Observation of Semiconductive MOFs Synthesized by Materials Informatics	Daisuke Tanaka	Kwansei Gakuin University	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
299	2023A1531	Maximizing the CuO/Co ₃ O ₄ interface for N ₂ O emission control	Feng Wang	University College London	UK	Foreign	Chemical Science	12	BL01B1	Np
300	2023A1533	Determine coordination environment of modified Pd-phosphotungstate catalysts for hydrodeoxygenation	Ning Yan	National University of Singapore	Singapore	Foreign	Chemical Science	6	BL01B1	Np
301	2023A1534	Precise determination of the alloy structure of Fe ₆₅ Ni ₃₅ Invar alloy by using EXAFS, total scattering and RMC calculation: EXAFS measurement under high temperatures	Naoki Ishimatsu	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	6	BL01B1	Np
302	2023A1535	Development of Residual Strain Measurement Technique for MgB ₂ Practical Superconducting Wires	Shutaro Machiya	Daido University	Japan	Educational Organization	Industrial Applications	6	BL19B2	Np
303	2023A1538	Operando X-ray diffraction study on structural decomposition of Ru-based alloyed nanosheets under the seawater electrolysis	Dongshuang Wu	Nanyang Technological University	Singapore	Foreign	Materials Science and Engineering	6	BL19B2	Np
304	2023A1539	Development of Heteroatom-Embedded Fused π -Electronic Systems Toward Organic Optoelectronics	Tatsuya Mori	Nagoya University	Japan	Educational Organization	Chemical Science	6	BL02B1	Np
305	2023A1540	Band structure of nanosheet tin oxide with water splitting property using hard x-ray photoelectron microscopy	toyokazu tanabe	National Defense Academy of Japan	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np
306	2023A1541	In-situ observation of order-disorder transition of L ₁₀ -FeNi alloys on the sapphire substrate	L. S. Kumara	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL19B2	Np
307	2023A1545	In-situ observation of ferroelectric/paraelectric phase transition in Ce-doped HfO ₂	Kazuki Okamoto	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL13XU	Np
308	2023A1546	Synthesis of fluorine-containing compounds using solid-state fluorine sources and elucidation of the reaction behavior	Yoshiyuki Inaguma	Gakushuin University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np

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309	2023A1547	Molten-salt treatment for O2-type layered cathode to achieve stable anionic redox behavior/	Kisuk Kang	Seoul National University	Korea	Foreign	Chemical Science	3	BL14B2	Np
310	2023A1548	Elucidation of the crystallization process of new polymorphs of lanthanide-based oxides and oxyhydrides crystallized via amorphous phases	Hiroki Ubukata	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
311	2023A1550	XRD analysis of in-fight glass	Kyoko Okada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	1	BL19B2	Np
312	2023A1551	Precise structural analysis of ionic crystal of multinuclear complexes possessing mesoporous 1D channels by single-crystal X-ray crystallography	Tatsuhiro Kojima	Kobe City College of Technology	Japan	Educational Organization	Chemical Science	2.75	BL02B1	Np
313	2023A1552	Precise structural analysis of clathrate hydrate formed at low temperature under "ambient pressure" by powder X-ray diffraction	Tatsuhiro Kojima	Kobe City College of Technology	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
314	2023A1554	In situ XAFS observation of redox dynamics of supported metal nanoparticles under gas perturbation for development of highly-durable practical exhaust catalyst	Soichi Kikkawa	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	8	BL01B1	Np
315	2023A1555	Accurate Structure determination of ZnSb thermoelectrics by charge density, anhamonic vibration, and diffuse scattering analysis	Eiji Nishibori	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	3	BL02B1	Np
316	2023A1557	Function of hydride-based catalysts for ammonia production studied by XAFS	Masafumi Horio	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL14B2	Np
317	2023A1560	Measurement of change in dislocation density during tensile test in H2 charged stainless steels	Shiro Torizuka	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
318	2023A1561	Elucidation of gas adsorption behavior of porous cobalt complexes by charge density study	Kunihisa Sugimoto	Kindai University	Japan	Educational Organization	Chemical Science	6	BL02B1	Np
319	2023A1562	Novel Fe–Pt–Ir ordered alloy structure stabilized by trace introduction of Ir, which is immiscible with Pt	Kenshi Matsumoto	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
320	2023A1563	Analysis of atomic order in CoFe-Ir composition spread single crystalline film having the magnetic moment beyond Slater-Pauling rule	Yuya Sakuraba	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL13XU	Np
321	2023A1564	Structural study of ZrCuAg amorphous alloys by anomalous X-ray Scattering	Toru Kawamata	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	6	BL19B2	Np
322	2023A1565	Operando structure analysis of water electrolysis catalysts by XRD technique (2)	Toshiyuki Matsunaga	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL19B2	Np
323	2023A1566	Elucidation of gas adsorption behavior of porous cobalt complexes by in-situ PD-XRD experiment	Kunihisa Sugimoto	Kindai University	Japan	Educational Organization	Chemical Science	6	BL02B2	Np
324	2023A1568	In-situ observation of the synthesis process of functional oxides using amorphous precursors II	Takumi Nishikubo	Kanagawa Institute of Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL02B2	Np
325	2023A1569	In situ synchrotron X-ray diffraction of solvent-free synthesis of Cu-based functional materials	Hidetaka Kasai	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
326	2023A1570	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 Rietvelt and PDF Analyses	Yumi Yakiyama	Osaka University	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
327	2023A1571	In situ synchrotron X-ray diffraction of a mechanically induced self-sustaining reaction with changing spatial area for observation	Hidetaka Kasai	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
328	2023A1572	Investigation of carrier suppression mechanisms by superoxide ions in ultra high mobility amorphous oxide semiconductors.	Junghwan Kim	Ulsan National Institute of Science and Technology	Korea	Foreign	Materials Science and Engineering	2.75	BL09XU	Np
329	2023A1573	AR-HAXPES Study on the Operating Mechanism of Charge Trapped Nonvolatile Memory Based on Fluorographene	Hiroshi Nohira	Tokyo City University	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np
330	2023A1574	Nano/microgels based on carrageenan- α -lactalbumin complex with encapsulated vitamin D3 for applications in the food sector	Anastasiia Fanova	Forschungszentrum Jülich	Germany	Foreign	Materials Science and Engineering	6	BL19B2	Np
331	2023A1575	The mechanism of a catalyst enhancing ammonia productivity studied by XAFS	Masafumi Horio	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL14B2	Np
332	2023A1578	Elucidation of gate-opening behavior of flexible porous coordination polymer toward dilute CO2 at room temperature	Susumu Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
333	2023A1579	In-situ observation of photo-induced structural change of layered semiconductor photocatalyst in water	Kanji Saito	Akita University	Japan	Educational Organization	Chemical Science	6	BL02B2	Np

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334	2023A1580	Observation of 5d electronic state on Pt nano particle investigated by using resonant HAXPES	Akira Yasui	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	15	BL09XU	Np
335	2023A1584	Controlling charge-density-wave instability in 1T-TaS ₂ via chemical substitution -From Mott states to superconductivity-	Naoki Murai	Japan Atomic Energy Agency	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL02B1	Np
336	2023A1668	Elucidation of structural changes under oxidative/reductive conditions in multicomponent nanocluster alloys using operando XAFS/XRD observations	Kohsuke Mori	Osaka University	Japan	Educational Organization	Materials Science and Engineering	5	BL01B1	Np
337	2023A1671	Investigating active-site electron structure in Pd-Cu shells in Selective Hydrogenation of Acetylene	Xianran Xing	University of Science and Technology Beijing	China	Foreign	Chemical Science	3	BL09XU	Np
338	2023A1673	Crystal structure analysis of spinel-typed manganese mixed oxide nanoparticles.	Masafumi Harada	Nara Women's University	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
339	2023A1675	Elucidation of structure for nickel-platinum alloy nanocluster and their activity for oxygen evolution reaction	Tokuhsa Kawawaki	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	9	BL01B1	Np
340	2023A1676	Analysis of photo-thermal conversion type catalytic properties of reduced molybdenum oxides by in-situ XAFS measurement under light irradiation	Yasutaka Kuwahara	Osaka University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
341	2023A1677	Structural analysis of metal-organic framework with excellent CO ₂ separation ability and time-resolved in situ XRD measurement in CO ₂ adsorption	Shunsuke Tanaka	Kansai University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
342	2023A1678	Pt L ₃ -edge and Ce K-edge (or Ce L ₃ -edge) XAFS study for mutation of reactivity in preferential oxidation of CO on Pt/CeO ₂ catalysts	Ding Ma	Peking University	China	Foreign	Chemical Science	12	BL14B2	Np
343	2023A1679	Investigation of the effect of mixed halogens on the crystallisation process of perovskite crystals	Naoyuki Shibayama	Toin University of Yokohama	Japan	Educational Organization	Chemical Science	3	BL19B2	Np
344	2023A1680	Time-resolved analysis on the nano-structural changes in a black phosphorous hybrid with good cycling ability in sodium-ion batteries	Tomohiko Okada	Shinshu University	Japan	Educational Organization	Chemical Science	6	BL13XU	Np
345	2023A1682	Investigation of CO ₂ /CH ₄ adsorption and separation mechanism of a flexible metal-organic framework by powder XRD analysis	Takuya Kurihara	Kanazawa University	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
346	2023A1683	In-situ SAXS/USAXS analysis of dynamic precipitation behavior during tensile deformation in Al-Si and Al-Mn series alloys	Hiroki Adachi	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
347	2023A1684	Structure analysis of novel oxide-ion and proton conductors based on synchrotron X-ray powder diffraction	Kotaro Fujii	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
348	2023A1685	Structural Analysis of Mixed Ligand Spin-crossover Iron(II) Complexes	Hal Suzuki	Kindai University	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
349	2023A1686	Development of DAFS measurement system for SixGe1-x thin film on Ge substrate	Takeshi Watanabe	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	7	BL19B2	Np
350	2023A1687	Direct observation of spin-orbital entangled state in pyrochlore iridate	Shunsuke Kitou	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	9	BL02B1	Np
351	2023A1688	Time evolution analysis of casein micelle aggregation process by rennet	Isamu Kaneda	Rakuno Gakuen University	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
352	2023A1689	XAFS study of Ag cocatalyst prepared by the ultrasonic reduction method toward the photocatalytic conversion of CO ₂	Shoji Iguchi	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
353	2023A1690	Ag-Modified Cu Gas Diffusion Electrodes for Ethylene Production in High Rate CO ₂ Electrolysis	Kazuhide Kamiya	Osaka University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
354	2023A1692	Amorphization mechanism of high-pressure minerals in meteorites	Masayuki Nishi	Osaka University	Japan	Educational Organization	Earth and Planetary Science	6	BL02B2	Np
355	2023A1694	Exploration of Symmetry Breaking Mechanism in New Sulfide Ferroelectrics Containing Diatomic Anions	Tong Zhu	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL13XU	Np
356	2023A1695	3D tomographic analysis using differential aperture technique for deep ultraviolet AlGaIn semiconductor laser diodes fabricated on nano-patterned substrates	Yusuke Hayashi	Osaka University	Japan	Educational Organization	Materials Science and Engineering	12	BL13XU	Np
357	2023A1696	Formation mechanism of Ru-Pd alloy nanoparticles in room-temperature flow synthetic process	Satoshi Watanabe	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np

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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)
358	2023A1697	The effect of deformation temperature on the strengthening mechanism of high-Mn austenitic steel	SUK YOUNG HWANG	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
359	2023A1698	Investigation of coordination environments of CoPc@CNT during electrochemical CO ₂ /CO reduction via operando XAFS	Haozhou Yang	National University of Singapore	Singapore	Foreign	Chemical Science	6	BL14B2	Np
360	2023A1699*	Investigation of crystal and electronic structures during charge and discharge process of Mg _{1.5} -y-zV _{1.5} CoyMnzO ₄ as a new cathode materials for next generation magnesium secondary batteries operated at room temperature	Yasushi Idemoto	Tokyo University of Science	Japan	Educational Organization	Industrial Applications	6	BL19B2	Np
361	2023A1701	Understanding the kinetics of gate adsorption behavior on metal-organic frameworks III	Shotaro Hiraide	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
362	2023A1702*	Composition optimization of Mg rechargeable battery cathode material Mg _{1+x} (V,Mn) _{2-x} O ₄ based on changes in local and electronic structures during charge and discharge process	Yasushi Idemoto	Tokyo University of Science	Japan	Educational Organization	Industrial Applications	3	BL14B2	Np
363	2023A1705	Small-angle and ultra-small-angle synchrotron radiation scattering measurements of Japanese sake to clarify the relationships between their nano-level structure and flavor	Kiyoshi Kanie	Tohoku University	Japan	Educational Organization	Industrial Applications	3	BL19B2	Np
364	2023A1706	Observation of Structural Change in Novel Ru and Sn Alloy Nanoparticles under Reaction Conditions	Hiroshi Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
365	2023A1708	Crystal structure analysis for layered materials prepared by surface-controlled synthesis	Tetsuya Kambe	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	3	BL02B1	Np
366	2023A1711	Investigation of an origin of free carriers in solid-phase crystallized indium oxide thin-films.	Mamoru Furuta	Kochi University of Technology	Japan	Educational Organization	Materials Science and Engineering	3	BL09XU	Np
367	2023A1712	Reversible phase transition of elastic two-dimensional supramolecular frameworks triggered by ligand coordination	Javier Lopez	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
368	2023A1713	Crystal structure analysis of new Li-ion conducting materials in a solid solution and a two-phase coexisting system.	Sou Yasuhara	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
369	2023A1714	Metal-organic polyhedra based on chelated titanium (IV)	Javier Lopez	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
370	2023A1715	Unveiling the Catalytic Mechanism on mixed-metal metal-organic framework-based Electrochemical Syntheses of Ammonia by using operando XAFS	Susumu Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL14B2	Np
371	2023A1716	Observation of framework deformation of porous coordination polymers in the early stage of the gas adsorption process	Yoshiki Kubota	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	6	BL13XU	Np
372	2023A1717	Electronic and local structural analysis of Li ₂ MnSiO ₄ positive electrode by using operando XAFS	Toyoki Okumura	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Chemical Science	3	BL14B2	Np
373	2023A1720	Elucidation of carrier suppression mechanisms by superoxide ions in ultra-high mobility amorphous oxide semiconductors.	Junghwan Kim	Ulsan National Institute of Science and Technology	Korea	Foreign	Materials Science and Engineering	3	BL09XU	Np
374	2023A1721	In-situ observation of changes in filler network structure with increasing breaking strain of nanocomposite rubber materials	Tatsuya Kikuchi	Sumitomo Rubber Industries, Ltd.	Japan	Industry	Materials Science and Engineering	6	BL19B2	Np
375	2023A1723	Operando XAS-DRIFTS study on supported bimetallic Pd-Mn catalysts for reverse water gas shift reaction	Shimpei Naniwa	Kyoto University	Japan	Educational Organization	Chemical Science	9	BL01B1	Np
376	2023A1724	Observation of long period structure of cellulose microfibrils	Yoshiaki Yuguchi	Osaka Electro-Communication University	Japan	Educational Organization	Materials Science and Engineering	1	BL19B2	Np
377	2023A1727	X-ray Single Crystal Structural Analysis for Microcrystals of Novel Group 14 element Compounds having Highly Reactive Multiple Bonds	Mao Minoura	Rikkyo University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
378	2023A1728	Change of magnetic ground state in ilmenite-type CoV _{1-x} Ti _x O ₃ by the V-V dimerization	Hajime Yamamoto	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
379	2023A1730	Investigation of structure change in magnetocaloric compounds using synchrotron XRD	Xin Tang	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL02B2	Np
380	2023A1731	Structural analysis of metal nanoclusters stabilized by ring-shaped polyoxometalates	Kosuke Suzuki	The University of Tokyo	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
381	2023A1732	Elucidation of formation process and structures of metal nanoclusters in nanocavity of ring-shaped metal oxide using in situ XAFS measurements	Kosuke Suzuki	The University of Tokyo	Japan	Educational Organization	Chemical Science	9	BL01B1	Np

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382	2023A1735	In-situ observation of structure changes of RuNi-based alloyed hexagonal nanoplate under the water oxidation reaction	Dongshuang Wu	Nanyang Technological University	Singapore	Foreign	Chemical Science	9	BL14B2	Np
383	2023A1736	Rare-earth 4f-5d Coulomb repulsion effect on valence fluctuations in strongly correlated 4f electron systems studied by means of combined resonant x-ray spectroscopies	Kojiro Mimura	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	12	BL09XU	Np
384	2023A1737	Understanding passivation effects in perovskite semiconductor layers	Naoyuki Shibayama	Toin University of Yokohama	Japan	Educational Organization	Chemical Science	6	BL09XU	Np
385	2023A1738	Structural analysis for metal species encapsulated by zeolitic micropore	Ryota Osuga	Hokkaido University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
386	2023A1739	EXAFS-based study on how inter-element interaction affects dynamic structures in alloy nanoparticles	Hiroshi Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL01B1	Np
387	2023A1741	Structure refinement and spin-density distribution analyses of MMX-type chain complexes with ferromagnetic interactions	Yusuke Kataoka	Shimane University	Japan	Educational Organization	Chemical Science	6	BL02B1	Np
388	2023A1747	Structural investigation on gigantic copper-organic octahedra with 4 nm diameter and 2 nm inner cavity	Shuhei Furukawa	Kyoto University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
389	2023A1748	Structural analysis on proton conductive coordination frameworks synthesized from CO2	Kentaro Kadota	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL02B2	Np
390	2023A1749	Study on the control of Tafel slope triggered by cation species of electrolyte	Kiyohiro Adachi	RIKEN	Japan	National and Nonprofit Organization	Chemical Science	6	BL14B2	Np
391	2023A1750	Elucidation of gate-opening behavior of flexible catenated porous coordination polymer toward dilute CO2 at room temperature	Susumu Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
392	2023A1751	Evaluation of negative thermal expansion property of low-temperature operation giant negative thermal expansion material BiNi0.88M0.12O3 (M=Al, V, Mn, Fe, Co, Cu)	Masaki Azuma	Tokyo Institute of Technology	Japan	Educational Organization	Industrial Applications	6	BL13XU	Np
393	2023A1752	Observation of in situ electro-reductive formation of In-Cu non-equilibrium intermetallic alloy by operando time-resolved XAFS measurement	Soichi Kikkawa	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	9	BL01B1	Np
394	2023A1755	Analyses of valence band spectra of coordination polymer incorporated with metal halide perovskite nanocrystals	Norio Saito	University of Yamanashi	Japan	Educational Organization	Materials Science and Engineering	3	BL09XU	Np
395	2023A1756	XAFS analyses to identify the structural and electronic changes depending on cation species in electrochemical Ir(III/IV) redox as the intermediates of oxygen/chlorine evolution reaction	Kiyohiro Adachi	RIKEN	Japan	National and Nonprofit Organization	Chemical Science	6	BL14B2	Np
396	2023A1757	Kinetics study of coalescence of nanoparticles in gas atmosphere	Akira Yoko	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
397	2023A1758	Accurate structure analysis of curved pi-conjugated molecule anions	Shinobu Aoyagi	Nagoya City University	Japan	Educational Organization	Chemical Science	6	BL02B1	Np
398	2023A1759	Element selective local structure analysis on TiVCrNbMo high-entropy alloys and their hydrogenated states	Naoki Ishimatsu	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	3	BL01B1	Np
399	2023A1760	In-situ XAFS investigation of the synergetic effect between Ir and Mn in IrMnO2 electrocatalyst by focusing on the changes in the oxidation states and coordination structure during electrolysis	Kiyohiro Adachi	RIKEN	Japan	National and Nonprofit Organization	Chemical Science	9	BL14B2	Np
400	2023A1761	The mechanism of a catalyst enhancing ammonia productivity studied by HAXPES	Masafumi Horio	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np
401	2023A1762	XRD analysis of functional in-fight glass	Kyoko Okada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	1	BL19B2	Np
402	2023A1765	Structural analysis of active species in transition metal complex catalysts by solution XAFS analysis	Kotohiro Nomura	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	3	BL01B1	Np
403	2023A1766	Microcrystal X-ray Structural Analysis for Extremely Unstable and Reactive Organometallic/Organic Compounds	Hikaru Takaya	TEIKYO University of Science	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
404	2023A1767	Depth profile analysis of partially nitrated titanium films using HAXPES	Shinya Ohno	Yokohama National University	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np
405	2023A1768	Development of high-energy X-ray powder diffraction techniques for high temperature heating process observation using infrared heating devices	Shintaro Kobayashi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL13XU	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)
406	2023A1770	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
407	2023A1771	Analysis of molecular adsorption/desorption mechanisms using miniaturized metal-organic structures	Koh Sugamata	Rikkyo University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
408	2023A1772	Determination of substituting elements environment in LLZO garnet structure by X-Ray absorption spectroscopy (XAS)	Otal Eugenio	Shinshu University	Japan	Educational Organization	Chemical Science	3	BL14B2	Np
409	2023A1773	Operando XAFS measurement of ruthenium oxide electrocatalysts during oxygen evolution reaction	Kousuke Beppu	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
410	2023A1774	Elucidation of gas adsorption behavior of porous cobalt complexes by in-situ PD-XRD experiment	Kunihisa Sugimoto	Kindai University	Japan	Educational Organization	Chemical Science	3	BL13XU	Np
411	2023A1775	In-Situ observation of piezoelectric crystallographic deformation of PZT superlattices and KNN epitaxial thin films	Isaku Kanno	Kobe University	Japan	Educational Organization	Industrial Applications	9	BL19B2	Np
412	2023A1776	Verification of the effects of extrusion temperatures and take-up velocities on the hierarchical structure of high-speed melt spun fibers from virgin and recycled Polypropylene copolymers	Barique Md	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
413	2023A1781	Correlation of nanometer-size structure of Spinodal phase-separated borosilicate glasses with heat-treatment conditions for energy-conversion functional device observed by high-temperature Small Angle X-ray Scattering in-situ technique	Tetsuji Yano	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL19B2	Np
414	2023A1782	Operando XAS analyses of high entropy spinel oxide as water oxidation electrocatalysts	Kazuyuki Iwase	Tohoku University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
415	2023A1783	Crystallisation Behaviour of PLA/Natural Rubber Dynamic Cross-linked Blend Resins Using X-ray Scattering Measurements	Akihide Sugawara	Osaka University	Japan	Educational Organization	Materials Science and Engineering	1	BL19B2	Np
416	2023A1784	Local structural analysis by XAFS measurements for a gas-responsive metal-organic framework showing multi-step luminescence variations along with crystalline-amorphous transformation	Haruka Yoshino	Tohoku University	Japan	Educational Organization	Chemical Science	3	BL01B1	Np
417	2023A1785	Precise structural analysis of sulfur-strapped boron pi-system exhibiting unique bond dissociation at excited state	Tatsuya Mori	Nagoya University	Japan	Educational Organization	Chemical Science	6	BL02B1	Np
418	2023A1786	Insitu Structural investigation of selective C8 aromatics separation in a flexible porous-coordination-polymer	Susumu Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B1	Np
419	2023A1788	Stress distribution measurement of uni-directional Carbon fiber reinforced plastic structure under bending	Junji Shirai	DENSO CORPORATION	Japan	Industry	Industrial Applications	9	BL19B2	Np
420	2023A1807	Long-time stabilization of millisecond temporal-resolution multi-beam 4D X-ray tomography system	Wataru Yashiro	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	21	BL28B2	Np
421	2023A1808	Microsecond transmission X-ray imaging for revealing the mechanism of flow cavitation defibration	Wataru Yashiro	Tohoku University	Japan	Educational Organization	Environmental Science	12	BL28B2	Np
422	2023A1809	Development of artifact reduction technology using AI	Yuichi Takahashi	Gunma Industrial Technology Center	Japan	National and Nonprofit Organization	Industrial Applications	3	BL28B2	Np
423	2023A1810	In-situ observation of polymer materials under tensile test by high-speed X-ray phase imaging	Ryosuke Ueda	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	9	BL28B2	Np
424	2023A1811	Consideration of rolling texture measurement by means of white beam radiation	Masakazu Kobayashi	Toyohashi University of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL28B2	Np
425	2023A1813	Observation of shapes and mineral compositions at peripheral domains of damaged of concrete and rock using integrated CT-XRD method	Takashi Hitomi	OBAYASHI CORPORATION	Japan	Industry	Industrial Applications	8.75	BL28B2	Np
426	2023A1840	Negative thermal expansion in RFeSi2 (R=Tb,Dy,Lu)	Jun Chen	University of Science and Technology Beijing	China	Foreign	Materials Science and Engineering	9	BL02B2	Np
427	2023A1843	Atomic scale design of electrocatalysts through introduction of secondary element for efficient green hydrogen production	Keisuke Obata	The University of Tokyo	Japan	Educational Organization	Chemical Science	3	BL14B2	Np
428	2023A1844	Understanding the mixed valence states for lanthanide telluride	Shogo Hatayama	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL09XU	Np

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429	2023A1846	Investigation of the short range ordering in Cr-Mo-Co-Ni medium entropy alloy on atomic arrange level	Haruyuki Inui	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
430	2023A1847	The effect of draw ratio and annealing conditions on the fibrillar hieratical structure during tensile deformation of Poly (ethylene terephthalate) fiber	Ren Tomisawa	Shinshu University	Japan	Educational Organization	Industrial Applications	6	BL19B2	Np
431	2023A1848	Investigation of crystallization in silicate glasses by local structure analysis of Zr or Mo in glass using XAFS	Tetsuo Kishi	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL14B2	Np
432	2023A1849	Local structure associated with negative thermal expansion in Fe-based amorphous alloys	Kun Lin	University of Science and Technology Beijing	China	Foreign	Materials Science and Engineering	3	BL14B2	Np
433	2023A1851	Development of higher-energy photoelectron spectroscopy III	Satoshi Yasuno	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL46XU	Np
434	2023A1852	Evaluation of local strain in a halogen-bridged metal complex heterostructure by micro X-ray diffraction	Masanori Wakizaka	Chitose Institute of Science and Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL19B2	Np
435	2023A1853	Elucidation of the growth mechanism of highly-ordered "quasi-homoepitaxial" junctions of organic semiconductor molecules	Yasuo Nakayama	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	9	BL19B2	Np
436	2023A1854	In-situ study of domain dynamics by clarify extrinsic/intrinsic contribution in domain engineered BiFeO ₃ -based piezoelectrics	Sangwook Kim	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
437	2023A1857	Investigation of Ge Cluster Distribution in Bulk SiGe by Small-Angle X-ray Scattering with Synchrotron Radiation	Ryo Yokogawa	Meiji University	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
438	2023A1858	Structural analysis of iodine molecules encapsulated in chirality separated single-walled carbon nanotubes at low temperatures	Yosuke Ishii	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	3	BL14B2	Np
439	2023A1859	Elucidation of Molecular Arrangements of n-Type Organic and Organometallic Materials with Single-Crystal X-ray Diffraction Analysis	Michihisa Murata	Osaka Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	3	BL02B1	Np
440	2023A1860	Multi-scale structure analysis including domain structure of perovskite material by single crystal X-ray diffraction	Eiji Nishibori	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
441	2023A1861	Observation of the electronic structure of noble metal multi-element alloy nano particles showing high catalytic activity for hydrogen evolution reaction	Hiroshi Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL46XU	Np
442	2023A1862	Crystal structure determination of mixed-anion semiconductive MOF synthesized based on materials informatics	Daisuke Tanaka	Kwansei Gakuin University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
443	2023A1863	Electronic structure analysis of high mobility oxide semiconductor thin films by hard x-ray photoelectron spectroscopy	Yusaku Magari	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	3	BL09XU	Np
444	2023A1864	Analysis of local structure in high mobility oxide semiconductor thin films	Yusaku Magari	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	3	BL01B1	Np
445	2023A1866	Variable-temperature X-ray powder diffraction structural analyses of phase transition of polymorphic imidoylamidinato Pt(II) complex	Keisuke Umakoshi	Nagasaki University	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
446	2023A1868	Innovative energy-storage dielectric materials exploiting electric-field-induced phase transitions	Yuji Noguchi	Kumamoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
447	2023A1869	Exploring X-ray-induced structural phase transitions in spinel compounds with charge degrees of freedom	NAOYUKI KATAYAMA	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
448	2023A1871	Effect of trace additional element on AlFeSi intermetallic compounds in aluminum alloy die-cast	Masakazu Kobayashi	Toyohashi University of Technology	Japan	Educational Organization	Industrial Applications	3	BL47XU	Np
449	2023A1872	Revealing mechanism of the magnetic phase transition for ferromagnetic Au-Al-Gd approximant using high-resolution resonant hard x-ray photoemission	Hideonori Fujiwara	Osaka University	Japan	Educational Organization	Materials Science and Engineering	12	BL09XU	Np
450	2023A1874	Operando X-ray diffraction dynamics during torsion deformation of steel	Satoshi Sugano	Nippon Steel Corporation	Japan	Industry	Industrial Applications	9	BL13XU	Np
451	2023A1875	High-throughput screening of novel ferroelectric sulfides and elucidation of ferroelectric phase transition mechanism	Hirofumi Akamatsu	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
452	2023A1876*	Local structure analysis in electrolytes for efficient water electrolysis	Keisuke Obata	The University of Tokyo	Japan	Educational Organization	Chemical Science	3	BL14B2	Np
453	2023A1879	Investigation of origin of thermal switching of crystalline phases in nickelates based on perovskite structure	Hideyuki Kawasoko	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np

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454	2023A1881	Impulse dependence of mechanochemical activation process revealing by in situ synchrotron X-ray diffraction	Hidetaka Kasai	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
455	2023A1882	Direct Observation of Electron Nematicity by Precise Valence Electron Density Analysis	Hiroshi Sawa	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
456	2023A1883	In-situ observation of the synthesis process of functional oxides using amorphous precursors III	Takumi Nishikubo	Kanagawa Institute of Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL13XU	Np
457	2023A1884	Operando analysis of the electronic structures of the Pt-oxide nanosheet device by ambient-pressure hard X-ray photoelectron spectroscopy	Takanori Koitaya	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL46XU	Np
458	2023A1885	Capturing local structure changes due to the accelerated deactivation of electrocatalysts for water electrolysis	Keisuke Obata	The University of Tokyo	Japan	Educational Organization	Chemical Science	3	BL14B2	Np
459	2023A1888	Study on the Zero Expansion Mechanism of Uniaxial Wide Temperature Range in CeSiGe4	Jun Chen	University of Science and Technology Beijing	China	Foreign	Materials Science and Engineering	6	BL14B2	Np
460	2023A1889	Electronic and local structure analysis of iron-based oxyfluoride cathode materials during insertion and extraction of fluoride ions	Kentaro Yamamoto	Nara Women's University	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
461	2023A1891	Elucidation of the order-disorder transition in novel Fe–Pt–Ir ordered alloy structure driven by trace introduction of Ir, which is immiscible with Pt	Kenshi Matsumoto	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
462	2023A1892	AP-HAXPES study: Investigation of the intensity decay of the Au 4f and 3d spectra as a function of N2 gas pressure and X-ray energy	Okkyun Seo	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Chemical Science	9	BL46XU	Np
463	2023A1893	in-situ Powder diffraction analysis of supramolecular nanotubes under vapor of organic solvents	Shinichiro Kawano	Nagoya University	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
464	2023A1895	Structure analysis of germanium telluride thermoelectric materials with high configuration entropy	Atsuko Kosuga	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
465	2023A1896	XAFS Measurements of Nickel Carbide Nanoparticle Catalyst Promoting Selective Hydrogenation of Nitrile Compounds and Investigation of Factors Affecting High Activity of the Catalysts	Sho Yamaguchi	Osaka University	Japan	Educational Organization	Chemical Science	3	BL01B1	Np
466	2023A1897	Synthetic reaction design based on the kinetic barriers of metastable high-entropy thermoelectric materials	Aichi Yamashita	Tokyo Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
467	2023A1903	Mechanistic study by in-situ XAFS on reaction of FT synthesis catalysts	Shuhei Yamada	ENEOS Corporation	Japan	Industry	Industrial Applications	9	BL01B1	Np
468	2023A1906	Local Structure Analysis of Cathode Additives for Lead Acid Batteries using XAFS (2)	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Industrial Applications	6	BL14B2	Np
469	2023A1907	Pressure and temperature dependence of phase boundary in hydrothermal synthesis using formic acid	Hidetaka Kasai	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
470	2023A1909	Observation of the Electronic State of Metallic Nanoparticle Colloid Solutions for Elucidation the Solid-Liquid Interfacial Phenomena using HAXPES with Ambient Pressure Cell	Eiji Ikenaga	Nagoya University	Japan	Educational Organization	Chemical Science	15	BL09XU	Np
471	2023A1912	Micro-Single-Crystal X-ray Structure Analysis of Flexible Multimolecular Assemblies: Structure Determination of Multi-Solvent Inclusion Compounds	Hikaru Takaya	TEIKYO University of Science	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
472	2023A1914	Effect of structural phase transition on crystallinity of perovskite single crystals	Naoyuki Shibayama	Toin University of Yokohama	Japan	Educational Organization	Materials Science and Engineering	3	BL02B1	Np
473	2023A1915	Operando UV-XAS observation of adsorption behavior of prove molecules on mixed metal oxide clusters for precise controlled synthesis	Soichi Kikkawa	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	9	BL01B1	Np
474	2023A1916	Investigation of the crystal structural change of van der Waals metal 2D sheets as a function of temperature	Dongshuang Wu	Nanyang Technological University	Singapore	Foreign	Materials Science and Engineering	9	BL19B2	Np
475	2023A1917	Elucidation of carrier suppression mechanisms by superoxide ions in ultra-high mobility amorphous oxide semiconductors.	Junghwan Kim	Ulsan National Institute of Science and Technology	Korea	Foreign	Materials Science and Engineering	6	BL09XU	Np
476	2023A1919	Determination of Schottky barrier height of metal/AlxSc1-xOyN1-y by HAXPES	Hiroshi Nohira	Tokyo City University	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np
477	2023A1920	Local Structure Analysis of the Modified Layer at the Cathode/Solid Electrolyte Interface in Al-Solid-State Lithium-Ion Secondary Batteries	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Industrial Applications	6	BL14B2	Np
478	2023A1922	Investigation of the effect of solvent atmosphere on the crystallization process of perovskite crystals	Naoyuki Shibayama	Toin University of Yokohama	Japan	Educational Organization	Industrial Applications	3	BL19B2	Np

2023A, 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)
479	2023A1923	Probing the "State of Hydride" in Solids by Hard X-ray Photoelectron Spectroscopy	Genki Kobayashi	RIKEN	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL46XU	Np
480	2023A1925	Elucidation of molecular adsorption/desorption mechanisms using miniaturized metal-organic structures	Koh Sugamata	Rikkyo University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
481	2023A1926	Crystal structure analysis of iron-based oxyfluoride cathode materials during insertion and extraction of fluoride ions	Kentaro Yamamoto	Nara Women's University	Japan	Educational Organization	Chemical Science	3	BL19B2	Np
482	2023A1927	XAFS analysis of reaction mechanism for Ru-Fe/SiO2 catalysts for the hydrogenation of carboxylic acids with inexpensive iron	Masato Akatsuka	Osaka Metropolitan University	Japan	Educational Organization	Chemical Science	4	BL14B2	Np
483	2023A1928	Investigation of the electronic structure of Co-based Heusler compounds to elucidate the performance enhancing mechanism of the anomalous Nernst effect.	Hidetoshi Miyazaki	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL09XU	Np
484	2023A1930	Elucidation of Phase Behavior of Polyoxyethylene Alkyl Ether Sulfonic Acid-Type Secondary Surfactants by SAXS	Tomokazu Yoshimura	Nara Women's University	Japan	Educational Organization	Materials Science and Engineering	9	BL19B2	Np
485	2023A2522	Structural analysis of membrane active transporters	Kazuhiro Abe	Nagoya University	Japan	Educational Organization	Life Science	39	PX-BL (EM01CT, EM02CT)	Np
486	2023A2523	SAXS and cryoTEM studies on the structural changes of plant photoreceptor proteins upon light irradiation	Masayoshi Nakasako	Keio University	Japan	Educational Organization	Life Science	6	PX-BL (EM01CT)	Np
487	2023A2524	Drug discovery to suppress the unexpected viral outbreaks and pandemics	Hironori Hayashi	Tohoku University	Japan	Educational Organization	Medical Applications	1.5	PX-BL (BL41XU)	Np
488	2023A2525	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	1	PX-BL (BL41XU, BL45XU)	Np
489	2023A2526	Structural and functional analysis for mineral transporters from crop plants	Michihiro Suga	Okayama University	Japan	Educational Organization	Life Science	4.5	PX-BL (BL41XU)	Np
490	2023A2527	crystal structure of adenosine A2a receptor in complex with dual-antagonists	Gaojie Song	East China Normal University	China	Foreign	Life Science	1.25	PX-BL (BL45XU)	Np
491	2023A2529	Relationship of structural dynamics and function of PET-degrading enzyme upon metal-ion binding	Masayuki Oda	Kyoto Prefectural University	Japan	Educational Organization	Life Science	3	PX-BL (BL38B1)	Np
492	2023A2530	Structural analysis of Trypanosoma brucei GMP reductase in complex with ribavirin 5'-monophosphate (RMP) by means of X-ray crystallography	Takashi Inui	Osaka Metropolitan University	Japan	Educational Organization	Life Science	1.5	PX-BL (BL26B1)	Np
493	2023A2533	Structural and functional analysis of CRISPR-Cas effector complex	Tomoyuki Numata	Kyushu University	Japan	Educational Organization	Life Science	26.25	PX-BL (BL45XU, EM01CT)	Np
494	2023A2536	Structural analysis of a series of proteins involved in intracellular iron dynamics	Hitomi Sawai	Nagasaki University	Japan	Educational Organization	Life Science	3	PX-BL (BL38B1)	Np
495	2023A2537	Elucidation of substrate recognition and catalytic mechanisms of carbohydrate-related enzymes from microorganisms and plants	Shinya Fushinobu	The University of Tokyo	Japan	Educational Organization	Life Science	4	PX-BL (BL45XU)	Np
496	2023A2538	Elucidation of molecular mechanisms of Complex IV by using allosteric ligands	Yasunori Shintani	National Cerebral and Cardiovascular Center	Japan	National and Nonprofit Organization	Life Science	1	PX-BL (BL45XU)	Np
497	2023A2540	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	23.875	PX-BL (BL26B1, BL41XU)	Np
498	2023A2542	High-resolution structural analysis of microtubule associated proteins involved in the regulation of non-centrosomal microtubule networks	Tsuyoshi Imasaki	Kobe University	Japan	Educational Organization	Life Science	6	PX-BL (EM01CT)	Np
499	2023A2543	Three-dimensional structure analysis of cell adhesion complexes that function in neuronal synapses	Shuya Fukai	Kyoto University	Japan	Educational Organization	Life Science	7	PX-BL (BL45XU, EM01CT)	Np
500	2023A2544	Structural analysis of the complex formation between major anaerobic glycolysis enzymes and their inhibitory agents	Makoto Nakabayashi	Osaka Ohtani University	Japan	Educational Organization	Life Science	4.25	PX-BL (BL45XU, EM02CT)	Np
501	2023A2546	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	20	PX-BL (BL41XU)	Np
502	2023A2548	Structural analysis of ubiquitin signaling-related proteins	Kei Okatsu	Kyoto University	Japan	Educational Organization	Life Science	6	PX-BL (EM01CT)	Np
503	2023A2549	Elucidation of the Structural Basis of the Target RNA Recognition Mechanism of RNA Binding Proteins	Takamasa Teramoto	Kyushu University	Japan	Educational Organization	Life Science	2.25	PX-BL (BL45XU)	Np

2023A, 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)
504	2023A2551	Structural analysis of proteins involved in iron acquisition and transport system	Hiroshi Sugimoto	RIKEN	Japan	National and Nonprofit Organization	Life Science	8	PX-BL (BL45XU, EM01CT)	Np
505	2023A2552	Structural basis for complex formation between HIV-1 Vif and host antiviral protein APOBEC3H	Takayuki Nagae	Tokyo University of Pharmacy and Life Sciences	Japan	Educational Organization	Life Science	0.25	PX-BL (BL45XU)	Np
506	2023A2553	Structural basis for chemical regulation of floral induction	Kotaro Nishiyama	Meiji University	Japan	Educational Organization	Life Science	0.25	PX-BL (BL32XU)	Np
507	2023A2554	Structural basis for the molecular evolution of membrane proteins	Yosuke Senju	Okayama University	Japan	Educational Organization	Life Science	1	PX-BL (BL41XU)	Np
508	2023A2555	Crystallographic study of GFP in the I state at ultra-high resolution	Kazuki Takeda	Kyoto University	Japan	Educational Organization	Life Science	5.75	PX-BL (BL41XU)	Np
509	2023A2715	Structural analysis of photosynthetic membrane protein complexes from cyanobacteria	Yoshiki Nakajima	Okayama University	Japan	Educational Organization	Life Science	15	PX-BL (EM01CT, EM02CT)	Np
510	2023A2716*	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	6	PX-BL (EM01CT)	Np
511	2023A2718	Structural analysis for elucidating the mechanism of the metalloenzyme maturation	Norifumi Muraki	Keio University	Japan	Educational Organization	Life Science	2	PX-BL (BL45XU)	Np
512	2023A2720	Structural basis of the proteins in bacterial environmental response systems	Katsumi Imada	Osaka University	Japan	Educational Organization	Life Science	1.5	PX-BL (BL41XU)	Np
513	2023A2721	Structural basis of the adhesive fimbriae of Bacteroides	Katsumi Imada	Osaka University	Japan	Educational Organization	Life Science	1.5	PX-BL (BL41XU)	Np
514	2023A2722	Structure of the component proteins of bacterial type III protein export apparatus	Katsumi Imada	Osaka University	Japan	Educational Organization	Life Science	1.5	PX-BL (BL41XU)	Np
515	2023A2723	New artificial metalloenzymes from N-heterocyclic carbene-mediated metalation of natural thiamine enzymes	Zhihong Guo	Hong Kong University of Science and Technology	Hong Kong	Foreign	Life Science	2	PX-BL (BL41XU, BL45XU)	Np
516	2023A2724	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
517	2023A2725	Elucidation of the substrate recognition mechanism of tRNA modifying enzyme complex	Akira Hirata	Tokushima University	Japan	Educational Organization	Life Science	0.25	PX-BL (BL45XU)	Np
518	2023A2726	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	PX-BL (BL45XU)	Np
519	2023A2727	Structural analysis of the Sec translocon complex, thiosulfate/sugar transporters	Tomoya Tsukazaki	Nara Institute of Science and Technology	Japan	Educational Organization	Life Science	4.5	PX-BL (BL32XU)	Np
520	2023A2728	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
521	2023A2729	Structure analyses of poor water-insoluble compound complexes with the high-strength hydrogel method	Shigeru Sugiyama	Kochi University	Japan	Educational Organization	Life Science	4.5	PX-BL (BL41XU)	Np
522	2023A2730	Alteration of peroxiredoxin assembly by chemical modification	Tomoki Himiyama	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Life Science	1.25	PX-BL (BL45XU)	Np
523	2023A2731	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 (BL32XU)	Np
524	2023A2732	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	1.5	PX-BL (BL45XU)	Np
525	2023A2733	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	15	PX-BL (BL26B1)	Np
526	2023A2734	X-ray crystallographic analysis of the nitrite reductases derived from the soil bacteria	Yukie Akutsu	National Agriculture and Food Research Organization	Japan	National and Nonprofit Organization	Life Science	2	PX-BL (BL45XU)	Np
527	2023A2735	Structural analysis of substrate specificity and signal transduction mechanism of taste receptors	Atsuko Yamashita	Okayama University	Japan	Educational Organization	Life Science	3	PX-BL (EM04CT)	Np

2023A, 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)
528	2023A2737*	Structural and functional analysis for harmful mineral transporters from crop plants	Michihiro Suga	Okayama University	Japan	Educational Organization	Life Science	6.5	PX-BL (BL45XU, EM01CT)	Np
529	2023A2738	Integrative structural biology of filament-like bacterial surface appendages in enteric bacterial pathogens	Shota Nakamura	Osaka University	Japan	Educational Organization	Life Science	14	PX-BL (BL45XU, EM01CT)	Np
530	2023A2739	Structure-function analysis of heme oxygenase-like enzyme	Takahiro Mori	The University of Tokyo	Japan	Educational Organization	Life Science	3	PX-BL (BL41XU, BL45XU)	Np
531	2023A2740	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	6	PX-BL (BL26B1, BL41XU)	Np
532	2023A2741	Improvement in data collection environment at MX beamline BL41XU	Hideo Okumura	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Life Science	23.875	PX-BL (BL41XU)	Np
533	2023A2743	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	6	PX-BL (EM02CT)	Np
534	2023A2744	Crystal structure analysis of ion pumps	Chikashi Toyoshima	The University of Tokyo	Japan	Educational Organization	Life Science	3	PX-BL (BL41XU)	Np
535	2023A2745	Development of a Rapid Protein Crystal Structural Analysis Method	Satoshi Abe	Tokyo Institute of Technology	Japan	Educational Organization	Life Science	6	PX-BL (BL32XU)	Np
536	2023A2746	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
537	2023A2747	in crystallo" catalytic analysis using HAG method	Takeshi Murakawa	Osaka Medical and Pharmaceutical University	Japan	Educational Organization	Life Science	6.5	PX-BL (BL26B1, BL41XU)	Np
538	2023A2750	X-ray crystal structure analysis of tRNA seleno-modification enzyme	Toyoyuki Ose	Hokkaido University	Japan	Educational Organization	Life Science	7	PX-BL (BL41XU, BL45XU)	Np
539	2023A2751*	Integrated structural and functional analysis of a metalloprotein at a precise level	Yota Fukuda	Osaka University	Japan	Educational Organization	Life Science	0.75	PX-BL (BL41XU)	Np
540	2023A2752	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	3	PX-BL (BL41XU, BL45XU)	Np
541	2023A2754	Structure based protein engineering of PET degrading enzyme Cut190	Nobutaka Numoto	Tokyo Medical and Dental University	Japan	Educational Organization	Life Science	4.5	PX-BL (BL26B1, BL45XU)	Np
542	2023A2761	Elucidation of reaction mechanism and regulation of function of membrane-bound nitric oxide reductase based on the structural analysis	Takehiko Tosha	Hyogo Public University Corporation	Japan	Educational Organization	Life Science	13.5	PX-BL (BL32XU, EM01CT)	Np
543	2023A2762	Structural analysis of phosphatidylserine decarboxylase PISD and lysylphosphatidylglycerol hydrolyase AcvB	Yasunori Watanabe	Yamagata University	Japan	Educational Organization	Life Science	1	PX-BL (BL32XU)	Np

2023A, 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	2023A1020	Structural evaluation of soft materials by X-ray High resolution micro tomography	Takafumi Kawanishi	Nitto Analytical Techno-Center Co., Ltd.	Japan	Industry	Industrial Applications	1	BL47XU	P
2	2023A1029	Structural evaluation of porous materials by High-speed X-ray micro tomography	Takafumi Kawanishi	Nitto Analytical Techno-Center Co., Ltd.	Japan	Industry	Industrial Applications	1	BL28B2	P
3	2023A1030	Structural evaluation of porous materials by High-speed X-ray micro tomography 2	Takafumi Kawanishi	Nitto Analytical Techno-Center Co., Ltd.	Japan	Industry	Industrial Applications	1	BL28B2	P
4	2023A1047	X-ray single crystal structural analysis for structural determination of low molecular organic compound	Shun Narai	Sumitomo Pharma Co., Ltd.	Japan	Industry	Industrial Applications	2	BL40XU	P
5	2023A1048	Evaluation of the internal structure of chondroitin sulfate nanogel as a drug carrier using Spring-8 (2)	Takehisa Hanawa	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	1	BL40B2	P
6	2023A1049	Maicro-beam XAFS study for Mn Chemical States Analysis in Ceramics 23A	Hitoshi Nishimura	Murata Manufacturing Co., Ltd.	Japan	Industry	Materials Science and Engineering	6	BL37XU	P
7	2023A1050	Three-dimensional structural analysis of lithium-ion secondary battery by X-ray imaging method	Naoki Koshitani	Murata Manufacturing Co., Ltd.	Japan	Industry	Industrial Applications	6	BL20XU	P
8	2023A1051	3D structure observation of carbon materials	Hiroaki Ohara	NIPPON STEEL Chemical & Material Co., Ltd.	Japan	Industry	Industrial Applications	2	BL47XU	P
9	2023A1052	Soft X-ray absorption spectroscopy for surface analysis of li metal anode	Ryo Oosone	KYOCERA Corporation	Japan	Industry	Industrial Applications	2	BL27SU	P
10	2023A1053	Nondestructive observation of electrode plates in a lithium-ion secondary cell using synchrotron X-ray radiation laminography technique	Toshiya Shimizu	Prime Planet Energy & Solutions, Inc.	Japan	Industry	Industrial Applications	6	BL47XU	P
11	2023A1054	X-ray Imaging Study of Li-ion Battery	Hisao Yamashige	Toyota Motor Corporation	Japan	Industry	Industrial Applications	36	BL20XU	P
12	2023A1055	Crystallinity analysis of cellulose in resin	Masayuki Omoto	Seiko Epson Corporation	Japan	Industry	Industrial Applications	2	BL40XU	P
13	2023A1056	Structure analysis of watch by X-ray CT	Saotoru Masai	Seiko Epson Corporation	Japan	Industry	Industrial Applications	2	BL28B2	P
14	2023A1057	Elucidation of impurity states in ceramics by XAS and XES (2)	Seiji Kawasaki	Murata Manufacturing Co., Ltd.	Japan	Industry	Materials Science and Engineering	6	BL27SU	P
15	2023A1058	3D Observation of microstructure in ceramics substrate	Hisayuki Imamura	Proterial, Ltd.	Japan	Industry	Industrial Applications	2	BL47XU	P
16	2023A1059	Morphology observation of deposited Li on metallic Li using X-ray CT	Yuichi Ikeda	GS Yuasa International Ltd.	Japan	Industry	Industrial Applications	6	BL20XU	P
17	2023A1060	Morphology observation of deposited Li on metallic Li using X-ray CT (2)	Yuichi Ikeda	GS Yuasa International Ltd.	Japan	Industry	Industrial Applications	2	BL20XU	P
18	2023A1061	Observation of internal structure of metallic materials.	Shoya Oizumi	Yazaki Corporation	Japan	Industry	Industrial Applications	1	BL47XU	P
19	2023A1062	Evaluation of residual stress in swage part of cylindrical battery for electric vehicles.	Shin Takahashi	JFE Techno-Research Corporation	Japan	Industry	Industrial Applications	6	BL13XU	P
20	2023A1063	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
21	2023A1064	Electronic structure analysis of catalysts by HAXPES measurements	Hiroaki Suzuki	Furuya Metal Co.,Ltd.	Japan	Industry	Industrial Applications	2	BL09XU	P
22	2023A1065	Local structure analysis of catalysts by XAFS measurements	Hiroaki Suzuki	Furuya Metal Co.,Ltd.	Japan	Industry	Industrial Applications	2	BL14B2	P
23	2023A1067	USAXS analysis of polymer materials	Takahiro Nishio	DENSO CORPORATION	Japan	Industry	Materials Science and Engineering	1	BL19B2	P
24	2023A1069	Elucidation of local structure of catalysts by in-situ XAFS measurement.	Hiroaki Suzuki	Furuya Metal Co.,Ltd.	Japan	Industry	Industrial Applications	6	BL01B1	P
25	2023A1658	SAXS and USAXS measurements of polymer materials in heating condition.	Seisuke Inada	Sekisui Chemical Co., Ltd.	Japan	Industry	Industrial Applications	1	BL19B2	P

2023A, 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	2023A1659	HAXPES study of semiconductor materials	Munetaka Taguchi	TOSHIBA NANOANALYSIS CORPORATION	Japan	Industry	Materials Science and Engineering	3	BL09XU	P
27	2023A1660	Study of structure of fluororesins by powder X-ray diffraction	Toshiyuki Fukushima	DAIKIN INDUSTRIES, LTD.	Japan	Industry	Materials Science and Engineering	2	BL19B2	P
28	2023A1661	Evaluation of residual stress in swage part of steel can for cylindrical battery	Shin Takahashi	JFE Techno-Research Corporation	Japan	Industry	Industrial Applications	12	BL13XU	P
29	2023A1662	study of the temeprature dependence of crystal strucute of materials by using in-situ X-ray diffraction	Takuya Mori	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	3	BL19B2	P
30	2023A1663	Small angle scattering measurement of polymers	Shugo Ikeda	University of Hyogo	Japan	Educational Organization	Industrial Applications	1	BL19B2	P
31	2023A1664	Analysis of crystallinity of organic thin films on Si substrate	Yuta Sasaki	SCREEN Holdings Co., Ltd.	Japan	Industry	Industrial Applications	2	BL19B2	P
32	2023A1665	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
33	2023A1666	Stress Measurement of Power Module Substrate	Masashi Fujii	Proterial, Ltd.	Japan	Industry	Industrial Applications	3	BL13XU	P
34	2023A1828	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
35	2023A1829	HAXPES study of semiconductor materials	Munetaka Taguchi	TOSHIBA NANOANALYSIS CORPORATION	Japan	Industry	Materials Science and Engineering	3	BL09XU	P
36	2023A1830	Crystal structure analysis of catalysts by XRD.	Taishi Fukazawa	Toshiba Corporation	Japan	Industry	Industrial Applications	2	BL13XU	P
37	2023A1831	Study on the electronic state of inorganic semiconductor materials	Ryouji Arai	Sony Semiconductor Solutions Corporation	Japan	Industry	Industrial Applications	3	BL46XU	P
38	2023A1832	Evaluation of paper using XRD	Masayuki Omoto	Seiko Epson Corporation	Japan	Industry	Industrial Applications	2	BL13XU	P
39	2023A1833	XAFS measurements of solid catalysts	Shota Matsuo	Kao Corporation	Japan	Industry	Industrial Applications	1	BL14B2	P
40	2023A1834	Synchrotron XRD measurement for ceramics	Yuki Nagamine	TDK Corporation	Japan	Industry	Industrial Applications	2	BL13XU	P
41	2023A1835	SR-XRD measurement for magnetic materials	Yuki Nagamine	TDK Corporation	Japan	Industry	Industrial Applications	2	BL02B2	P
42	2023A1836	Study of structure of fluororesins by powder X-ray diffraction	Toshiyuki Fukushima	DAIKIN INDUSTRIES, LTD.	Japan	Industry	Materials Science and Engineering	1	BL19B2	P
43	2023A1837	HAXPES analysis for interfaces between semiconductor and covering film	Yoshihiro Saito	Sumitomo Electric Industries, Ltd.	Japan	Industry	Industrial Applications	3	BL09XU	P
44	2023A1838	X-ray Diffraction Measurement of Semiconductor Materials with Nanobeam	Yuta Inaba	Sony Semiconductor Solutions Corporation	Japan	Industry	Industrial Applications	3	BL13XU	P
45	2023A1839	Analysis of deterioration mechanism of positive electrode in all solid battery using XAFS (Part II)	Yuichi Ikeda	GS Yuasa International Ltd.	Japan	Industry	Industrial Applications	2	BL14B2	P
46	2023A2502	Structure analysis of proteins related to disease	Noritaka Furuya	KISSEI PHARMACEUTICAL CO., LTD.	Japan	Industry	Industrial Applications	3.5	PX-BL (BL45XU)	P
47	2023A2503	Structure analysis of proteins related to disease	Kazutaka Ito	Asahi Kasei Pharma Corporation	Japan	Industry	Industrial Applications	1	PX-BL (BL45XU)	P
48	2023A2504	crystal structure analysis of protein	Ryuji Kobayashi	TOSOH CORPORATION	Japan	Industry	Life Science	1	PX-BL (BL26B1)	P
49	2023A2506	Macromolecule protein crystals for data collection	Wang Cheng	Wuxi Biortus Biosciences Co. Ltd	China	Foreign	Industrial Applications	3.75	PX-BL (BL45XU)	P
50	2023A2507	Structure analysis of disease related protein	Rie Omi	ONO PHARMACEUTICAL CO., LTD.	Japan	Industry	Life Science	0.5	PX-BL (BL32XU)	P

2023A, 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	2023A2508	Structural determination of target proteins for medical product development	Ikuko Miyaguchi	Mitsubishi Tanabe Pharma Corporation	Japan	Industry	Life Science	4.5	PX-BL (BL45XU)	P
52	2023A2509	Structural Biology of Protein-Ligand complex for Drug Discovery	Shiho Yamamoto	Shionogi & Co., Ltd.	Japan	Industry	Life Science	8	PX-BL (BL45XU)	P
53	2023A2510	Structural analysis of protein and ligand/protein complex for drug discovery	Takashi Yamano	CHUGAI PHARMACEUTICAL CO., LTD.	Japan	Industry	Industrial Applications	8.75	PX-BL (BL45XU)	P
54	2023A2511	Structure-based pesticide development	Yoshiki Tanaka	AgroDesign Studios	Japan	Industry	Industrial Applications	9	PX-BL (BL45XU)	P
55	2023A2512	Structure analysis of proteins related to disease	Yuichiro Nakaishi	Otsuka Pharmaceutical Co., Ltd.	Japan	Industry	Industrial Applications	4	PX-BL (BL45XU)	P
56	2023A2514	Diffraction data collection for x-ray crystallography of drug-target proteins	Mizuki Takahashi	DAIICHI SANKYO RD NOVARE CO., LTD.	Japan	Industry	Life Science	3.75	PX-BL (BL45XU)	P
57	2023A2515	Structure analysis of complex of disease related proteins and their regulatory compounds	Yasushi Amano	Astellas Pharma Inc.	Japan	Industry	Life Science	6.25	PX-BL (BL45XU)	P
58	2023A2516	Diffraction experiment of protein crystals grown on Internal space station (ISS) under micro gravity	Daisuke Takahashi	Space BD Inc.	Japan	Industry	Life Science	3	PX-BL (BL41XU)	P
59	2023A2517	X-ray crystallography for disease target proteins	Akinori Yamasaki	Nippon Shinyaku Co., Ltd.	Japan	Industry	Life Science	2	PX-BL (BL45XU)	P
60	2023A2518	Crystal structure analysis of target proteins in complex with drug candidate compounds	Masafumi Kamitani	Taisho Pharmaceutical Holdings Co., Ltd.	Japan	Industry	Life Science	0.75	PX-BL (BL45XU, BL32XU)	P
61	2023A2701	Structure analysis of proteins related to disease	Hiroki Omura	Teijin Pharma Limited	Japan	Industry	Industrial Applications	1.5	PX-BL (BL45XU)	P
62	2023A2702	Data collection on protein crystals for structure based drug design	Fan Jiang	Viva Biotech (Shanghai) Ltd.	China	Foreign	Life Science	30	PX-BL (BL45XU)	P
63	2023A2703	X-ray or Cryo-EM structure determination of the protein with compound	Tsuyoshi Adachi	Japan Tobacco Inc.	Japan	Industry	Industrial Applications	2.25	PX-BL (BL45XU, BL32XU)	P
64	2023A2704	Structure Determination of Protein–Ligand Complexes	Naoki Fujisawa	Eisai Co., Ltd.	Japan	Industry	Industrial Applications	0.5	PX-BL (BL45XU)	P
65	2023A2705	Structural insights into the antibody/antigen complex	Jian Sun	BeiGene Ltd.	China	Foreign	Life Science	3	PX-BL (BL45XU)	P
66	2023A2706	Evaluation of the Protein Crystals under Microgravity by Synchrotron Radiation	Momi Iwata	Japan Aerospace Exploration Agency	Japan	National and Nonprofit Organization	Life Science	4.25	PX-BL (BL45XU)	P
67	2023A2707	Structural analysis of the therapeutic target proteins or nucleic acids with its ligands	Satoshi Sogabe	Axcelead Drug Discovery Partners Inc.	Japan	Industry	Industrial Applications	0.75	PX-BL (BL45XU, BL32XU)	P
68	2023A2708	X-ray crystallography of drug-related proteins	Tatsuya Suzuki	Taiho Pharmaceutical Co., Ltd.	Japan	Industry	Industrial Applications	1.5	PX-BL (BL45XU)	P
69	2023A2710	X-ray crystallography of protein-ligand complex (2023A)	Hikaru Shimizu	PeptiDream Inc.	Japan	Industry	Life Science	2	PX-BL (BL45XU)	P
70	2023A2711	X-ray crystallography of pesticide-target proteins	Kunio Ido	Sumitomo Chemical Company, Limited	Japan	Industry	Life Science	0.5	PX-BL (BL45XU)	P
71	2023A2713	Development of efficient ligand screening methods against drug- and agricultural chemical-target proteins	Masaki Yamamoto	RIKEN	Japan	National and Nonprofit Organization	Life Science	42	PX-BL (EM01CT)	P

2023A, Performed Budding Researchers Support 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	2023A1588	Hydrogen bonds tracking based on FT-IR spectrum under the different conditions of citric acid-modified supramolecular composite materials	Yusaku Kawai	Osaka University	Japan	Educational Organization	Materials Science and Engineering	7	BL43IR	Np
2	2023A1591	Structural analysis of monodisperse anticancer drug nanoparticles and observation of the intraparticle drug distribution	Shin Takano	The University of Kitakyushu	Japan	Educational Organization	Materials Science and Engineering	3	BL40B2	Np
3	2023A1594	Elucidation of Ga protein activation mechanism by DXT method	Manae Tatsumi	Tohoku University	Japan	Educational Organization	Life Science	3	BL40XU	Np
4	2023A1596	3D search for high-molecular hydrocarbons in mantle peridotites: elucidation of generation process in deep-earth	Itaru Mitsukawa	Kyoto University	Japan	Educational Organization	Earth and Planetary Science	6	BL20B2	Np
5	2023A1600	Breaking the wall of unseen membrane fouling by 3D visualization ~Elucidation of membrane fouling by 3D visualization using X-ray micro-/nano-CT~	Kampachiro Urasaki	Tohoku University	Japan	Educational Organization	Environmental Science	2	BL47XU	Np
6	2023A1603	Determination of saturated water content of CaSiO3 perovskite at high pressure and temperature	Goru Takaichi	Ehime University	Japan	Educational Organization	Earth and Planetary Science	9	BL04B1	Np
7	2023A1607	Polyelectrolyte counterion condensation in organic solutions	Can Hou	RWTH Aachen University	Germany	Foreign	Chemical Science	6	BL40B2	Np
8	2023A1610	Electronic structure of two-dimensional and intercalated transition metal dichalcogenides epitaxial thin-films	Bruno Saika	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	12	BL25SU	Np
9	2023A1611	Finding the "hydrogen atom" of nodal links: the Hopf Link	Tyler Cochran	Princeton University	USA	Foreign	Materials Science and Engineering	12	BL25SU	Np
10	2023A1613	Stability and behaviour of the Wadsley-type vanadium oxide V6O13 at extreme conditions	Branislav Viliam Hakala	Forschungszentrum Jülich	Germany	Foreign	Materials Science and Engineering	9	BL04B1	Np
11	2023A1616	Electromagnon dispersion probed by inelastic X-ray scattering in 2D triangular antiferromagnet LiCrTe2	Ugne Miniotaite	KTH Royal Institute of Technology	Sweden	Foreign	Materials Science and Engineering	9	BL43LXU	Np
12	2023A1617	Microstructural analysis of impact-damaged polypropylene solids under step-cycle tests	Ryohei Ippitsu	Kanazawa University	Japan	Educational Organization	Materials Science and Engineering	3	BL40B2	Np
13	2023A1620	Understanding the mechanism of water absorption on the Superhydrophobic Cyclic Olefin Polymer in different oxygen level using Infared spectroscopy	Hao Li	The University of Tokyo	Japan	Educational Organization	Chemical Science	7.875	BL43IR	Np
14	2023A1621	Analysis of extracellular matrix and pathophysiology of bone and cartilage diseases using synchrotron radiation infrared spectroscopy	Hayata Imamura	Kyoto Institute of Technology	Japan	Educational Organization	Medical Applications	6	BL43IR	Np
15	2023A1622	Time-resolved observations of crystalline polymer using Diffracted X-ray Blinking	Rena Inamasu	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL40XU	Np
16	2023A1623	Li-ion solvation structure in fluorinated acetate-based electrolytes for fast-charging Li ion batteries	Saki Sawayama	Yamaguchi University	Japan	Educational Organization	Chemical Science	9	BL04B2	Np
17	2023A1624	Infrared spectra study of the generation of water nanoclusters from a hydrated PEDOT:PSS polymer matrix: dependence on PEDOT:PSS microstructure	Ralph Ugalino	The University of Tokyo	Japan	Educational Organization	Chemical Science	3	BL43IR	Np
18	2023A1625	Mapping the detailed electronic structure of Prussian White battery cathodes by resonant inelastic x-ray scattering	Moritz Hirsbrunner	Uppsala University	Sweden	Foreign	Materials Science and Engineering	15	BL27SU	Np
19	2023A1628	In situ HERFD-XAS measurements of CO2 adsorption behavior of metal-substituted tantalum oxide cluster catalysts	Tomoki Matsuyama	Tokyo Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	9	BL39XU	Np
20	2023A1629	Clarification on the accumulation behavior of hydrogen-enhanced lattice defects and quantification of micro-scale damage evolution in BCC and FCC metals for modeling lifetime prediction on hydrogen embrittlement	Kei Saito	Sophia University	Japan	Educational Organization	Materials Science and Engineering	6	BL19B2	Np
21	2023A1630	XAFS study for local structure of Y species incorporated in water-tolerant CeO2 catalyst for 2-imidazolidinone synthesis from CO2 and ethylenediamine	Ryotaro Fujii	Tohoku University	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
22	2023A1631	Elucidation of proton storage mechanism of a new proton storage oxide	Yosuke Isoda	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
23	2023A1632	Structure and catalytic mechanism of metal nanoparticles surface-modified with metal oxide clusters	Shoji Fukuda	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	5	BL14B2	Np
24	2023A1633	Electronic States Evaluation of Noble Metal Nanosheets by Depth-Profiling X-Ray Photoelectron Spectroscopy	Sumiya Ando	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np

2023A, Performed Budding Researchers Support 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)
25	2023A1635	Local structural analysis of robust Au cluster catalysts supported on carbon owing to non-covalent ligand-support interaction	Kosuke Sakamoto	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	4	BL14B2	Np
26	2023A1637	Revealing the polar-nonpolar phase diagram of the solid solution between polar metal and polar insulator	Kantaro Murayama	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
27	2023A1639	Elucidation of support effects, chemical states, and coordination structures of diiron-introduced supported polyoxometalate catalysts for methane selective oxidation.	Takaaki Suzuki	The University of Tokyo	Japan	Educational Organization	Chemical Science	3	BL14B2	Np
28	2023A1641	in situ/operando measurements for crystal phase changes of intermetallic compound-reducible metal oxide composite oxygen carrier	Hiroshi Sampei	Waseda University	Japan	Educational Organization	Chemical Science	6	BL02B2	Np
29	2023A1643	In-situ XAFS analysis during CO preferential oxidation (PROX) reaction over supported gold cluster catalysts utilizing layered double hydroxide nanoparticles	Akihiro Nakayama	Tokyo Metropolitan University	Japan	Educational Organization	Industrial Applications	9	BL14B2	Np
30	2023A1645	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
31	2023A1647	Synthesis of Novel Oxide-Based Lithium-Ion Conductors Using a Material Recommender System and Analysis of Their Crystal Structures and Electrochemical Properties	Toshiya Nakayama	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
32	2023A1649	Evaluation of Al2O3/SnOx/SiO2 for optimal structure determination 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
33	2023A1790	Observation of diffuse scattering associated with lattice anomalies near phase transitions in RuPn (Pn=P,As,Sb)	Keita Kojima	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	9	BL02B1	Np
34	2023A1791	In situ XAFS measurements of electrocatalysts for the nitrous oxide reduction	Zhengwei Ma	Hokkaido University	Japan	Educational Organization	Chemical Science	9	BL14B2	Np
35	2023A1792	Study of oxygen release and insertion of A-site layer-ordered/disordered perovskites	Makoto Iihoshi	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL02B2	Np
36	2023A1793	Crystallization kinetics study of low-loss nanocrystalline Fe-Si-B-P-Cu-C alloy	Shozo Hiramoto	Hiroshima University	Japan	Educational Organization	Industrial Applications	6	BL02B2	Np
37	2023A1794	Development of Cationic Fused π -Systems toward Organic Electron Transporting Materials	Satoshi Takahashi	Nagoya University	Japan	Educational Organization	Chemical Science	6	BL02B1	Np
38	2023A1795	In situ monitoring of electrochemical morphosynthesis crystallization of NiFe hydroxide	Xuelei Pan	University of Oxford	UK	Foreign	Chemical Science	5	BL01B1	Np
39	2023A1796	Investigation of interfacial structure and activation factors of organic materials in the HER reaction	Shunnosuke Tanaka	Chiba University	Japan	Educational Organization	Chemical Science	9	BL13XU	Np
40	2023A1797	In-Situ Observation of the Flexible Structural Dynamics of External-Stimuli Responsive Chromic Molecular Crystals	Yuki Matsuda	University of Hyogo	Japan	Educational Organization	Chemical Science	6	BL02B2	Np
41	2023A1798*	XAFS and IR Measurements for Local Structural Analysis of Solids Containing Anion-Molecules	Kantaro Murayama	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL14B2	Np
42	2023A1799	Single Crystal X-ray Diffraction of the Charge Density Wave State in Fe Doped 2H-TaS2	Frank Elson	KTH Royal Institute of Technology	Sweden	Foreign	Materials Science and Engineering	3	BL02B1	Np
43	2023A1801	Temperature-dependent and time-resolved observations of crystalline polymer surface using Grazing Incidence Diffracted X-ray Blinking	Rena Inamasu	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL19B2	Np
44	2023A1802	Doping and temperature dependence of chemical potential in the high-Tc superconductor La2-xSrxCuO4 using bulk-sensitive hard x-rays photoemission spectroscopy	Tatsuhiro Ishida	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL09XU	Np
45	2023A1931	Operando QXAFS on selective catalytic reduction catalysts of NO with H2 identified by machine learning	Duotian Chen	Hokkaido University	Japan	Educational Organization	Industrial Applications	12	BL01B1	Np
46	2023A1933	Quantitative analysis and elucidation of the most crucial driving force of hydrogen spillover effect using operando XAFS-IR measurement	Kazuki Shun	Osaka University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
47	2023A1934	In situ analysis of CO2/CO reduction reactions by Cu-modified covalent triazine frameworks	Keitaro Ohashi	Osaka University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np

2023A, Performed Budding Researchers Support 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)
48	2023A1936	Investigation of Structural Phase Transition in Layered Chalcogenides Ba2MS2Ag2Te2 (M = transition metal) with Unique Square Planar Metal-Sulfide Layer	Yang Yang	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
49	2023A1939	Evaluation of Al2O3/TiOx/GeO2/Ge-sub. for optimal structure determination of field-induced interface dipole modulation mechanism by voltage-applied HAXPES	Yoshiharu Kiriara	Tokyo City University	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np
50	2023A2763	Structural insights of Rubisco reactivation in chemolithoautotrophic hydrogen-oxidizing bacteria	Zengwei Liao	The University of Tokyo	Japan	Educational Organization	Life Science	12	PX-BL (EM01CT)	Np
51	2023A2764	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	4	PX-BL (BL41XU, BL32XU)	Np
52	2023A2765	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

2023A, 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	2023A0302	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	2023A0304	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

2023A, 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	2023A2301	HAXPES study of semiconductor materials	Munetaka Taguchi	TOSHIBA NANOANALYSIS CORPORATION	Japan	Industry	Materials Science and Engineering	2	BL09XU	P
2	2023A2303	Internal visualization of electrification components by high-energy high-brilliance synchrotron radiation x-ray imaging	Hidehiko Kimura	Toyota Central R&D Labs., Inc.	Japan	Industry	Industrial Applications	1	BL05XU	P
3	2023A2304	Internal visualization of electrification components by high-energy high-brilliance synchrotron radiation x-ray imaging II	Hidehiko Kimura	Toyota Central R&D Labs., Inc.	Japan	Industry	Industrial Applications	1	BL05XU	P
4	2023A2311	Trace element analysis by synchrotron radiation	Naoki Miyamoto	HYOGO Prefectural Police	Japan	National and Nonprofit Organization	Other	2	BL20B2	P
5	2023A2313	Structure study of 2.5 dimensional micrometer size device by X-ray diffraction	Eiji Nishibori	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	0.25	BL41XU	P
6	2023A2321	Internal visualization of electrification components by high-energy high-brilliance synchrotron radiation x-ray imaging III	Hidehiko Kimura	Toyota Central R&D Labs., Inc.	Japan	Industry	Industrial Applications	1	BL05XU	P
7	2023A2334	Mechanistic study of hair quality improvement materials	Hiroki Hotta	Kobe University	Japan	Educational Organization	Life Science	1	BL40XU	P
8	2023A2335	Mechanistic study of hair quality improvement materials -2	Hiroki Hotta	Kobe University	Japan	Educational Organization	Life Science	0.5	BL40XU	P
9	2023A2338	Damage observation of sensor coatings using X-ray CT	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	0.125	BL20B2	P
10	2023A2351	Mechanical compression properties of polymer under glass transition temperature.	Shin Takahashi	JFE Techno-Research Corporation	Japan	Industry	Industrial Applications	2	BL28B2	P
11	2023A2359	Analysis of inner structure of composite materials	Junichiro Koike	DIC Corporation	Japan	Industry	Materials Science and Engineering	0.5	BL47XU	P
12	2023A2361	Crystal structure analysis of high-pressure stabilized osmium oxides	Kazunari Yamaura	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	0.25	BL02B2	P
13	2023A2370	Crystal structure analysis of metallic materials	Ryo Shimamura	Yazaki Corporation	Japan	Industry	Industrial Applications	1	BL02B2	P

2023A, 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	2023A2305	XAFS measurement of Ru, Zr and Ni compounds	Shogo Suehiro	Sumika Chemical Analysis Service, Ltd.	Japan	Industry	Industrial Applications	1.625	BL14B2	P
2	2023A2306	XAFS measurement of Fe-Ti oxides	Kengo Noami	Nippon Steel Technology Co., Ltd.	Japan	Industry	Industrial Applications	0.375	BL14B2	P
3	2023A2307	Ceramics powder XRD measurement	Hiromi Seki	KYOCERA Corporation	Japan	Industry	Industrial Applications	0.5	BL19B2	P
4	2023A2308	3D observation of composite materials	Takuto Maeda	Mitsui Chemicals, Inc.	Japan	Industry	Industrial Applications	0.25	BL28B2	P
5	2023A2310	3D observation of bonded surfaces in neodymium magnets	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	0.25	BL28B2	P
6	2023A2314	XAFS analysis of Palladium on fibers	Yasuo Yamauchi	Yazaki Corporation	Japan	Industry	Industrial Applications	0.5	BL14B2	P
7	2023A2315	XAFS measurements of metallic materials	Koto Wang	School Research Co. LTD	China	Foreign	Industrial Applications	0.5	BL14B2	P
8	2023A2316	3D fiber orientation measurement of GFRP	Yutaka Ohtake	The University of Tokyo	Japan	Educational Organization	Industrial Applications	0.125	BL28B2	P
9	2023A2317	Powder XRD measurements of battery materials	Kazunori Fukuda	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
10	2023A2318	USAXS measurement of polymers	Kei Kubobuchi	Denka Company Limited.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
11	2023A2319	Crystal structure analysis of materials for lithium ion battery using XRD.	Shugo Yamada	Panasonic Holdings Corporation	Japan	Industry	Industrial Applications	1	BL19B2	P
12	2023A2320	XRD measurement of ceramics powder	Hiromi Seki	KYOCERA Corporation	Japan	Industry	Industrial Applications	0.375	BL19B2	P
13	2023A2322	Q-XAFS measurements of battery materials	Kazunori Fukuda	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.5	BL14B2	P
14	2023A2323	XAFS measurement of SOFC catalyst	Qiuyi Yuan	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	0.5	BL14B2	P
15	2023A2324	Powder XRD measurements of battery materials	Kazunori Fukuda	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
16	2023A2325	Powder X-ray diffraction method for evaluation of polymorphism of low molecular organic compound	Takahiko Hashizuka	Sawai Pharmaceutical Co., Ltd.	Japan	Industry	Industrial Applications	0.125	BL19B2	P
17	2023A2326	XRD analysis of GDC catalysts	Chulho Song	NISSAN ARC, LTD.	Japan	Industry	Materials Science and Engineering	0.25	BL19B2	P
18	2023A2328	X-ray diffraction measurement of electronics materials	Takeshi Shimada	Proterial, Ltd.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
19	2023A2329	XAFS measurements of metallic materials	Koto Wang	School Research Co. LTD	China	Foreign	Industrial Applications	0.75	BL14B2	P
20	2023A2330	XRD measurement of ceramics powder	Hiromi Seki	KYOCERA Corporation	Japan	Industry	Industrial Applications	0.375	BL19B2	P
21	2023A2331	XRD measurement of ceramics powder	Hiromi Seki	KYOCERA Corporation	Japan	Industry	Industrial Applications	0.5	BL19B2	P
22	2023A2332	Pd K-edge XAFS in rubber	Takayuki Saito	Zeon Corporation	Japan	Industry	Industrial Applications	0.625	BL14B2	P
23	2023A2336	XAFS of lithium ion battery	Huishu Huang	Fudan University	China	Foreign	Industrial Applications	0.25	BL14B2	P
24	2023A2339	3D observation of precision machinery	Saotoru Masai	Seiko Epson Corporation	Japan	Industry	Industrial Applications	1	BL28B2	P
25	2023A2340	XAFS measurements of metallic materials	Koto Wang	School Research Co. LTD	China	Foreign	Industrial Applications	0.5	BL14B2	P

2023A, 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	2023A2342	3D observation of composite materials	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	0.375	BL28B2	P
27	2023A2343	Microstructural evaluation of nanocrystalline soft magnetic materials	Hiroaki Mamiya	National Institute for Materials Science	Japan	National and Nonprofit Organization	Industrial Applications	0.25	BL19B2	P
28	2023A2344	Analysis of dispersion state of Nanoparticles	Yasutaka Nishi	Nikon Corporation	Japan	Industry	Industrial Applications	0.375	BL19B2	P
29	2023A2345	X-ray absorption fine structure measurements of battery materials	Takuya Mori	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.25	BL14B2	P
30	2023A2347	XAFS measurements of metallic materials	Koto Wang	School Research Co. LTD	China	Foreign	Industrial Applications	0.25	BL14B2	P
31	2023A2348	Analysis of ruthenium chemical form in upland soil	Yusuke Unno	Institute for Environmental Sciences	Japan	National and Nonprofit Organization	Industrial Applications	1	BL14B2	P
32	2023A2349	EXAFS measurement of thin films containing Sn compound	Masashi Ohno	Nissan Chemical Corporation	Japan	Industry	Industrial Applications	1.5	BL14B2	P
33	2023A2352	XRD measurement of ceramic powder	Hiromi Seki	KYOCERA Corporation	Japan	Industry	Industrial Applications	0.375	BL19B2	P
34	2023A2353	XAFS Analysis of Sn in Quartz Glass	Hirokazu Kurashige	TOSOH Analysis and Research Center Co., Ltd.	Japan	Industry	Industrial Applications	0.25	BL14B2	P
35	2023A2354	3D internal observation of viscoelastic material	Toshiaki Nishi	Tohoku University	Japan	Educational Organization	Industrial Applications	0.125	BL28B2	P
36	2023A2355	3D observation of precision machinery	Saotoru Masai	Seiko Epson Corporation	Japan	Industry	Industrial Applications	0.125	BL28B2	P
37	2023A2356	Observation of Rechargeable Battery by Synchrotron X-ray Tomography	Takashi Nakayama	Shimadzu Techno-Research, Inc.	Japan	Industry	Industrial Applications	0.5	BL28B2	P
38	2023A2357	3D observation of rechargeable batteries	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	0.25	BL28B2	P
39	2023A2362	Powder XRD measurement of battery materials	Kazunori Fukuda	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
40	2023A2363	Nanostructure of materials for polymer electrolyte fuel cells	Masashi Harada	Toyota Central R&D Labs., Inc.	Japan	Industry	Industrial Applications	0.5	BL19B2	P
41	2023A2364	Analysis of Structural Changes in Cellulose Fibers Using Small-Angle Scattering	Masayuki Omoto	Seiko Epson Corporation	Japan	Industry	Industrial Applications	0.375	BL19B2	P
42	2023A2365	HAXPES Analysis of Rare Metal Carbon Composite Films	Gen Kiyotaki	Kawasaki Heavy Industries, Ltd.	Japan	Industry	Industrial Applications	0.5	BL46XU	P
43	2023A2366	XRD measurement of ceramics powder	Hiromi Seki	KYOCERA Corporation	Japan	Industry	Industrial Applications	0.375	BL19B2	P
44	2023A2367	Local structure analysis of positive active material for Li-ion battery	Yuichi Ikeda	GS Yuasa International Ltd.	Japan	Industry	Industrial Applications	0.25	BL14B2	P
45	2023A2368	Pore size distribution measurements of the electrode layer with SAXS and USAXS	Atsuhiko Kunishige	UBE Scientific Analysis Laboratory, Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
46	2023A2369	SAXS analyze(Metaric Powder)	Sonoko Kosuga	Daido Bunseki Research, INC.	Japan	Industry	Industrial Applications	0.625	BL19B2	P

2023A, 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	2023A0201	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	Osami Sakata	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Chemical Science	17.875	BL13XU	Np
2	2023A0202	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	Osami Sakata	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Chemical Science	6	BL09XU	Np
3	2023A0203	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	Osami Sakata	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Chemical Science	18	BL39XU	Np
4	2023A0205	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	26	PX-BL(BL41XU)	Np
5	2023A0206	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	7	PX-BL(BL45XU)	Np
6	2023A0207	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	45	PX-BL(EM01CT)	Np
7	2023A0208	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	21	PX-BL(EM02CT)	Np
8	2023A1001	Structural study for solid state ionics interface using differential PDF analysis	Koji Ohara	Shimane University	Japan	Educational Organization	Materials Science and Engineering	9	BL04B2	Np
9	2023A1002	Structure of oxide glasses synthesized under microgravity	Shinji Kohara	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL04B2	Np
10	2023A1003	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	8.875	BL40XU	Np
11	2023A1004	Analysis of tin in glass phosphors using anomalous x-ray scattering	Hirokazu Masai	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL47XU	Np
12	2023A1005	3D/4D multi-scale / multi-modal analyses of local deformation behaviour in dual-phase steels	Hiroyuki Toda	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	10	BL20XU	Np
13	2023A1006	Tomography for bridging nano and macro: semi-spontaneous interfacial debonding	Hiroyuki Toda	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	9	BL20XU	Np
14	2023A1007	Observation of MnO ₅ cluster structure in Mn-doped BiFeO ₃ single crystalline thin film by Photoelectron holography	Seiji Nakashima	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	9	BL25SU	Np
15	2023A1008	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
16	2023A1009	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	18	BL04B2	Np
17	2023A1010	Visualizing Liquid Water in PEFC using Compton Scattering Imaging	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Industrial Applications	21	BL08W	Np
18	2023A1011	operando soft X-ray absorption spectroscopy study of Pt-based catalyst for Polymer Electrolyte Fuel Cell (6)	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Chemical Science	18	BL27SU	Np
19	2023A1012	Analysis of Radical Quencher in Polymer Electrolyte Membrane of PEM Fuel Cells using Time-resolved Micro-beam X-ray Fluorescence Spectroscopy	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Chemical Science	18	BL37XU	Np
20	2023A1013	Effect of the specific adsorption of sulfonate group in ionomer and adsorbed oxide species on the oxygen reduction reaction activity of PEFC catalyst (3)	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Chemical Science	18	BL39XU	Np

2023A, 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)
21	2023A1014	Observation of liquid water in gas diffusion layer and catalyst layer of polymer electrolyte fuel cells using operando CT (5)	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Chemical Science	12	BL20XU	Np
22	2023A1015	Biometal distribution in tissues or cells by high energy SR-XRF analysis	Shino Takeda	National Institutes for Quantum Science and Technology	Japan	National and Nonprofit Organization	Medical Applications	9	BL37XU	Np
23	2023A1016	Uranium distribution in bone tissues of rats exposed to uranyl acetate by high energy SR-XRF analysis	Shino Takeda	National Institutes for Quantum Science and Technology	Japan	National and Nonprofit Organization	Medical Applications	9	BL20B2	Np
24	2023A1017	Evaluation of molecular aggregation state in Nafion films using micro beam X-ray	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Chemical Science	6	BL40XU	Np
25	2023A1018	Hard X-ray magnetic tomography based multimodal analysis for magnetization reversal mechanism of advanced Nd-Fe-B hot-deformed magnets	Satoshi Okamoto	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	18	BL39XU	Np
26	2023A1019	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	12	BL40B2	Np
27	2023A1021	Molecular Aggregation Structure of Glassy Polymer under Various Elongation Deformation Modes Using Multi-scale Structure Analyses	Ken Kojo	Kyushu University	Japan	Educational Organization	Chemical Science	6	BL05XU	Np
28	2023A1022	Observation of Pressure-Induced Structural Variations Using High-Pressure X-ray Fluorescence Holography	Koji Kimura	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL39XU	Np
29	2023A1023	Observation of morphological changes in lithium-ion batteries with nickel-based high-capacity cathode during overcharging using operando X-ray imaging method.	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	16	BL20XU	Np
30	2023A1024	Analysis of Insafety Phenomena in Lithium-ion Secondary Batteries with Nickel-based High Capacity Cathode (2)	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	9	BL28B2	Np
31	2023A1025	Simultaneous WAXD and SAXS Measurements of Internal Crystal Structure in Wet-Electro-Spun Cellulose Nanofiber Elongation	Yoshihiro Yamashita	University of Fukui	Japan	Educational Organization	Materials Science and Engineering	9	BL40XU	Np
32	2023A1026	operando study of PEFC catalyst by HERFD-XAS (1)	Toshiki Watanabe	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL39XU	Np
33	2023A1027	operando XAS study of nanowire core Platinum shell catalyst for oxygen reduction reaction (5)	Toshiki Watanabe	Kyoto University	Japan	Educational Organization	Chemical Science	3	BL37XU	Np
34	2023A1028	operando soft X-ray absorption spectroscopic study of Pt-based catalyst for Polymer Electrolyte Fuel Cell (2)	Toshiki Watanabe	Kyoto University	Japan	Educational Organization	Chemical Science	9	BL27SU	Np
35	2023A1031	Soft x-ray XANES studies of in-flight melting glass	Kyoko Okada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	2	BL27SU	Np
36	2023A1032	Three dimensional profiling of gradient composition in materials by 100 nm synchrotron X-ray mapping XAFS and position sensitive muonic atom spectroscopy	Kyoko Okada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	1	BL37XU	Np
37	2023A1033	Correlation between lattice distortion and Ce-O chemical bonding in CeO2 nanoparticles synthesized by a supercritical method	Maiko Nishibori	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	5.875	BL39XU	Np
38	2023A1034	In-situ analysis of the dilatancy phenomenon under high-speed vibration to solid and liquid composite.	Soichiro Okubo	Sumitomo Electric Industries, Ltd.	Japan	Industry	Industrial Applications	18	BL40XU	Np
39	2023A1035	In-situ USAXS analysis of the dilatancy phenomenon under high-speed shearing to solid and liquid composite.	Soichiro Okubo	Sumitomo Electric Industries, Ltd.	Japan	Industry	Industrial Applications	8.875	BL20XU	Np
40	2023A1036	Fine structure analysis of alloy catalysts for highly efficient hydrogen production by biomass conversion	Yasushi Sekine	Waseda University	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
41	2023A1037	Electronic states analysis of complex intermetallic compound catalysts by hard X-ray photoelectron spectroscopy (2)	Satoshi Kameoka	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np
42	2023A1038	In-situ diffraction experiments during deformation for controlling different deformation modes in metallic materials VII	Nobuhiro Tsuji	Kyoto University	Japan	Educational Organization	Industrial Applications	6	BL13XU	Np

2023A, 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)
43	2023A1039	Determination of Cr oxidation state of nano-sized particles in metal fume	Yasuto Matsui	Kyoto University	Japan	Educational Organization	Environmental Science	3	BL01B1	Np
44	2023A1040	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
45	2023A1041	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
46	2023A1042	Exploring new molybdenum nitrides and their synthesis mechanism by in-situ measurement	Akira Miura	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
47	2023A1043	Examination of Ti dimerization in pseudobrookites M1-xTi2+xO5 (M=Al, Mg) probed by hard X-ray photoemission spectroscopy	Tomohiko Saitoh	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	3	BL09XU	Np
48	2023A1044	operando XAS study of PEFC catalyst on the oxygen reduction reaction activity (4)	Toshiki Watanabe	Kyoto University	Japan	Educational Organization	Chemical Science	3	BL01B1	Np
49	2023A1045	In-situ study of intercalation of sodium into bilayer graphene by thin film X-ray diffraction	Eiji Nishibori	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	1	BL13XU	Np
50	2023A1046	Measurement test with 100 nm x-rays	Kyoko Okada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	1	BL13XU	Np
51	2023A1650	Single-crystal structures determination of mixed anion materials synthesized under high pressure	Fenghua Ding	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL02B1	Np
52	2023A1651	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
53	2023A1652	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
54	2023A1653	Structure study of 2.5 dimensional micrometer size device by X-ray diffraction	Eiji Nishibori	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	2	BL13XU	Np
55	2023A1654	Effect of Rare Earth Addition on Nanocrystallization Process in Oxyfluoride Glasses	Kenji Shinozaki	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	2	BL02B2	Np
56	2023A1655	Characterization of diamond crystals by rocking curve measurements	Kyoko Okada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	1	BL13XU	Np
57	2023A1656	Structural investigation of Ruddlesden–Popper compounds YSr2–xCaMn2O7Fx	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
58	2023A1657	Fe-K XANES for low concentration iron ions in soda-lime glass	Kyoko Okada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	2	BL14B2	Np
59	2023A1814	Structural investigations of elements in hyper-ordered structure using X-ray absorption fine structure	Hirokazu Masai	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL14B2	Np
60	2023A1815	Precise Structural Analysis of aquatic functional materials on micron/sub-micron scale	Go Matsuba	Yamagata University	Japan	Educational Organization	Chemical Science	1	BL19B2	Np
61	2023A1816	Characterization of electronic structures toward development of novel energy saving 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
62	2023A1817	Investigation of the Structure of amorphous SiO2 film using synchrotron X-ray diffraction technique	Madoka Ono	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	6	BL13XU	Np
63	2023A1818	Analysis on the role of dislocation behavior	Shiro Torizuka	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np

2023A, 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)
64	2023A1819	Structure analysis of polymer electrolyte fuel cell catalyst by hard X-ray photoelectron spectroscopy	Hidetoto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Industrial Applications	6	BL09XU	Np
65	2023A1820	Structure analysis of polymer electrolyte fuel cell catalyst by X-ray diffraction	Hidetoto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Industrial Applications	3	BL19B2	Np
66	2023A1821	Observation of elasto-plastic deformation behavior during tensile test in additively manufactured Al-Si-X alloy with hetero-microstructure	Hiroki Adachi	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
67	2023A1822	Structure analysis of polymer electrolyte fuel cell catalyst by hard X-ray photoelectron spectroscopy	Hidetoto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Industrial Applications	6	BL46XU	Np
68	2023A1823	In-situ diffraction experiments during deformation for controlling different deformation modes in metallic mate VIII	Nobuhiro Tsuji	Kyoto University	Japan	Educational Organization	Industrial Applications	3	BL13XU	Np
69	2023A1824	Development of organic semiconductors for high-efficiency organic solar cells	Itaru Osaka	Hiroshima University	Japan	Educational Organization	Industrial Applications	2	BL13XU	Np
70	2023A1825	Impurity addition to halide perovskite crystals	Naoyuki Shibayama	Toin University of Yokohama	Japan	Educational Organization	Materials Science and Engineering	1	BL02B2	Np
71	2023A1826	New approach for Compound refractive lenses (CRL) of Diamond with 35 keV	Kyoko Okada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	1	BL13XU	Np

2023A, Performed Long-term 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	2023A0181	Study of iron alloys under ultrahigh pressures and the core light element composition	Kei Hirose	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	42	BL10XU	Np
2	2023A0185	Initial and detailed analysis of Hayabusa2 return samples using X-ray tomography	Megumi Matsumoto	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	15	BL20XU	Np
3	2023A0188	Initial and detailed analysis of Hayabusa2 return samples using X-ray tomography	Megumi Matsumoto	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	24	BL47XU	Np