2024B, 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	2024B1086	Nuclear Resonant Vibrational Spectroscopy of FePS3 nanosheets	Wei Xu	Chinese Academy of Sciences	China	Foreign	Chemical Science	17	BL19LXU	Np
2	2024B1088	High pressure studies of layered hydrides with high-temperature superconductivity	Xiaoli Huang	Jilin University	China	Foreign	Materials Science and Engineering	6	BL10XU	Np
3	2024B1092	Structural analysis of geopolymer by high-energy X-ray diffraction	Kiyofumi Kurumisawa	Hokkaido University	Japan	Educational Organization	Industrial Applications	6	BL04B2	Np
4	2024B1094	Precise analysis of internal aggregation and crystalline structures of perfluorosulfonic acid ionomer nanofibers: effect of humidity condition	Hidetoshi Matsumoto	Institute of Science Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
5	2024B1096	Morphological study of archaic Homo fossils from Taiwan by high-resolution X-ray micro-CT	Yousuke Kaifu	The University of Tokyo	Japan	Educational Organization	Life Science	1	BL28B2	Np
6	2024B1097	Identification of spatiotemporal pattern in intracellular ratio and distribution of elements in phytoplankton using soft X-ray ptychography	Taketoshi Kodama	The University of Tokyo	Japan	Educational Organization	Environmental Science	15	BL07LSU	Np
7	2024B1100	Structural characterization of near-room-temperature superconducting hydride	Yanming Ma	Jilin University	China	Foreign	Materials Science and Engineering	6	BL10XU	Np
8	2024B1102*	Elucidation of glass forming mechanism of functional high packing density glasses	Yuta Shuseki	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	8.875	BL04B2	Np
9	2024B1104	Time-resolved in-situ microstructure analysis of an ionomer layer mimicking hot press conditions.	Xiao Gao	Nanjing University of Science and Technology	China	Foreign	Materials Science and Engineering	6	BL40B2	Np
10	2024B1105	Structural Analysis of Amphiphilic Polymers Functioning as Artificial Membrane Proteins in Water and within Membranes	Tomoki Nishimura	Shinshu University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
11	2024B1106	Anomalous thermal expansion in tetracarboxylate based metal-organic frameworks	Zhanning Liu	Shandong University of Science and Technology	China	Foreign	Chemical Science	8.875	BL44B2	Np
12	2024B1107	A colossal negative thermal expansion in FeSiCuGe alloys over a wide temperature range	Jun Chen	University of Science and Technology Beijing	China	Foreign	Materials Science and Engineering	3	BL44B2	Np
13	2024B1110	Sound velocities of some dense hydrous minerals at upper mantle and mantle transition zone conditions	Nao Cai	University of Chinese Academy of Sciences	China	Foreign	Earth and Planetary Science	9	BL04B1	Np
14	2024B1112	XAFS analyses of structural changes of sulfur derivatives with high battery performances	Hirofumi Yoshikawa	Kwansei Gakuin University	Japan	Educational Organization	Chemical Science	9	BL27SU	Np
15	2024B1113	Development of nucleic acid medicine delivery technology by using nucleic acid nanoparticle including disulfide	Noriko Miyamoto	Aichi Institute of Technology	Japan	Educational Organization	Chemical Science	3	BL40B2	Np
16	2024B1114	Measurement of local dynamic stress by means of ultra-high speed camera in metallic materials: application of linear image sensor	Masakazu Kobayashi	Toyohashi University of Technology	Japan	Educational Organization	Materials Science and Engineering	12	BL47XU	Np
17	2024B1116	Measurements of conformational changes of proteins in a single molecule with white X-ray	Hirofumi Shimizu	University of Fukui	Japan	Educational Organization	Life Science	21	BL28B2	Np
18	2024B1118	Experimental determination of the three-dimensional electronic structure of distorted kagome magnets	Yuita Fujisawa	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	6	BL25SU	Np
19	2024B1120	Quantitative morphological analyses on developmental processes of vertebrates using synchrotron radiation X-ray micro-CT	Tatsuya Hirasawa	The University of Tokyo	Japan	Educational Organization	Life Science	6	BL20B2	Np
20	2024B1121	Observation of soft phonon on the ferroelectric perovskite-type oxide CdTiO3	Hiroshi Sawa	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	12	BL43LXU	Np
21	2024B1122	Temperature-induced demixing phase separation of aqueous solution of dimer model of poly(N-isopropylacrylamide)	Chihiro Minamoto	National Institute of Technology ,Tokyo College	Japan	Educational Organization	Chemical Science	2	BL41XU	Np
22	2024B1123	Investigation of Hydration Behaviors of Functional Nanoparticles for Application to DDS	Chie Kojima	Institute of Science Tokyo	Japan	Educational Organization	Chemical Science	3	BL43IR	Np
23	2024B1124	Visualization experiment of stress on polymer materials by dynamic X-ray CT	Masami Matsubara	Waseda University	Japan	Educational Organization	Materials Science and Engineering	12	BL47XU	Np
24	2024B1125	Three-dimensional analysis of grain microstructure in Ti-6Al-4V alloy melt and solidified by electrostatic levitation furnace at the International Space Station	Masakazu Kobayashi	Toyohashi University of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL20XU	Np
25	2024B1126	Sirtuin stimulation therapy for contractile dysfunction in hypertrophic cardiomyopathy and diabetic heart disease	James Pearson	National Cerebral and Cardiovascular Center	Japan	National and Nonprofit Organization	Medical Applications	12	BL40XU	Np
26	2024B1127	Gene transfer therapy to prevent the onset of coronary microcirculatory dysfunction in lifestyle disease with aging	James Pearson	National Cerebral and Cardiovascular Center	Japan	National and Nonprofit Organization	Medical Applications	12	BL20B2	Np
27	2024B1129	Study on the crack propagation mechanism of ASR in hardened cementitous mateirals with different ASR reactive aggregates by means of non-destructive integrated CT-XRD method	Hayato Takahashi	Tohoku University	Japan	Educational Organization	Industrial Applications	15	BL28B2	Np
28	2024B1130	Elucidation of negative pressure dependence of elastic wave velocity in silicate melt	Tatsuya Sakamaki	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	6	BL04B1	Np
29	2024B1131	Elastic wave velocity measurement of Fe-Si alloys simulating the solid cores of Mars and Mercury	Tatsuya Sakamaki	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	9	BL04B1	Np
30	2024B1135*	Solid solution strengthening effect of phonon dispersion in high-entropy alloys	Satoshi Tsutsui	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL35XU	Np
31	2024B1138	Determination of phase relations in the CaAl2O4-MgAl2O4 system up to 50 GPa at 1700 K by means of Kawai-type multianvil press and establishment of new pressure calibrant	Takayuki Ishii	Okayama University	Japan	Educational Organization	Earth and Planetary Science	12	BL04B1	Np

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32	2024B1139	Precise measurement of internal crack propagation in hydrogen-absorbed aluminum alloys using highspeed X-ray radiography	Keitaro Horikawa	Osaka University	Japan	Educational Organization	Materials Science and Engineering	6	BL20B2	Np
33	2024B1140	Elucidation of Structure and Property of Nanomaterials Including Aligned Metal Nanoclusters	Yuya Domoto	Gunma University	Japan	Educational Organization	Chemical Science	8.875	BL26B1	Np
34	2024B1142	Establishment of a polymorph-search method based on small-wedge data collection by synchrotron radiation	Toshiyuki Sasaki	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	7	BL41XU	Np
35	2024B1143	Penetration Mechanism of Microemulsions Influenced by Stratum Corneum with Different Lamellar Structures	Mina Sakuragi	Sojo University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
36	2024B1145	Study on the photoinduced structural change of silica glass	Yasuhiko Shimotsuma	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL04B2	Np
37	2024B1147	Effect of redox state on seismic wave attenuation of hydrous olivine aggregates by short-period oscillation experiment Part 2	Takashi Yoshino	Okayama University	Japan	Educational Organization	Earth and Planetary Science	12	BL04B1	Np
38	2024B1150	Investigation of Heating/Cooling Rate-dependent Phase Transformation in High-Entropy Shape Memory Alloys	E-Wen Huang	National Yang Ming Chiao Tung University	Taiwan, ROC	Foreign	Materials Science and Engineering	8.875	BL08W	Np
39	2024B1151	Improving resuscitation strategies in immature and mature newborn infants using phase contrast X-ray imaging	Stuart Hooper	Hudson Institute / Monash University	Australia	Foreign	Medical Applications	15	BL20B2	Np
40	2024B1152	Elucidation of the Molecular Conformation and Branching Structure of Industrial Waste-Derived Highly Branched Polysaccharides in Solution	Ken Terao	Osaka University	Japan	Educational Organization	Chemical Science	3	BL40B2	Np
41	2024B1153	Molecular conformation of polysaccharides with thermoresponsive side chains and nanoparticle formation behavior with increasing temperature	Ken Terao	Osaka University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
42	2024B1154	Identification of Eu 2p-4f (3d-2p) forbidden transitions for $EuBe_{13}$ by observation of resonant X-ray emission spectra around the Eu L_3 absorption region	Kojiro Mimura	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	12	BL39XU	Np
43	2024B1156	Effect of iron content and oxidation environment on the valence state of iron in (Mg,Fe)SiO3 and KLB-1 peridotite magmas	Yoshio Kono	Kwansei Gakuin University	Japan	Educational Organization	Earth and Planetary Science	6	BL27SU	Np
44	2024B1157	Study on calamitic and discotic liquid crystal phase transitions by way of molecular shape transformation between rod-like and disk-like anisotropy	Kingo Uchida	Ryukoku University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
45	2024B1158	Effect of iron on the elastic wave velocities of olivine at high pressures and high temperatures: Toward understanding the seismological observations in Moon and Mars	Yoshio Kono	Kwansei Gakuin University	Japan	Educational Organization	Earth and Planetary Science	12	BL04B1	Np
46	2024B1159	Elucidation of Cavitation Peening Mechanism by Microsecond Transmission X-ray Imaging	Hitoshi Soyama	Tohoku University	Japan	Educational Organization	Industrial Applications	12	BL28B2	Np
47	2024B1160	Observation of nano-dynamics of fillers in polymer nanocomposites by using time-resolved X-ray diffraction	Tatsuya Arai	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	12	BL40XU	Np
48	2024B1161	Constrains on the Fe2+/Fe3+ ratio of Fe-Ringwoodite and Fe-Al-Bridgmanite synthesized at high-pressure and high-temperature in the multianvil apparatus.	Steeve Greaux	Ehime University	Japan	Educational Organization	Earth and Planetary Science	6	BL27SU	Np
49	2024B1162	Development of high-pressure high-temperature solid-state quantum sensing technology for pioneering nanoscale material science under extreme conditions II	Keigo Arai	Institute of Science Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL10XU	Np
50	2024B1163	Far-infrared phonons interacting to the proton in $Cs_3H(SeO_4)_2$ and molecular porous crystals	Hiroshi Matsui	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	5	BL43IR	Np
51	2024B1164	Nanoscale geo-spatiotemporal microbiology: visualization of environmentalmicrobes	Yuki Morono	Japan Agency for Marine-Earth Science and Technology	Japan	National and Nonprofit Organization	Earth and Planetary Science	9	BL47XU	Np
52	2024B1165	Imaging of the rheology measurements of molten magma	Atsuko Namiki	Nagoya University	Japan	Educational Organization	Earth and Planetary Science	17.125	BL20B2	Np
53	2024B1166	Verification of superionic phase transition of hydrogen-bearing materials under deep Earth conditions by simultaneous synchrotron XRD and electrical conductivity measurements	Kenji Ohta	Institute of Science Tokyo	Japan	Educational Organization	Earth and Planetary Science	9	BL10XU	Np
54	2024B1167	Bottom-up assembly of metal-organic glass for intermediate temperature proton conductivity	Nattapol Ma	National Institute for Materials Science	Japan	National and Nonprofit Organization	Chemical Science	3	BL04B2	Np
55	2024B1168	Determination of crystal structures of molecular elastic crystals for pursing the design criteria of magnetic-electroconductive elastic crystals and the detailed mechanism of crystal softening behavior upon cooling	Yoji Horii	Nara Women's University	Japan	Educational Organization	Materials Science and Engineering	6	BL40XU	Np
56	2024B1169	Experimental constrain on the effect of partial melt velocities at 500-660 km depths in the mantle transition region	Steeve Greaux	Ehime University	Japan	Educational Organization	Earth and Planetary Science	12	BL04B1	Np
57	2024B1170	Pressure effect on V-V dimerization in ilmenite-type vanadate	Hajime Yamamoto	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	5.75	BL10XU	Np
58	2024B1171	Dynamics of valence fluctuations of Yb ions in Au-Al-Yb quasicrystal and 1/1 approximant under multi-extreme conditions studied by synchrotron-radiation-based 174Yb Mössbauer spectroscopy	Hisao Kobayashi	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	18	BL35XU	Np
59	2024B1172	Elucidation of structure formation during temperature control and stretching of self-healing polymers for sensing device with microbeam FT-IR measurements	Go Matsuba	Yamagata University	Japan	Educational Organization	Chemical Science	18	BL43IR	Np
60	2024B1173	Technical development for high pressure generation and deformation experiments on post-perovskite analogue: ~Toward understanding the viscosity structure of the lowermost lower mantle	Daisuke Yamazaki	Okayama University	Japan	Educational Organization	Earth and Planetary Science	12	BL04B1	Np
61	2024B1174	In situ molecular chain structure analyses of polymer thin films during permeation of carbon dioxide by X-ray scattering	Ken Kojio	Kyushu University	Japan	Educational Organization	Chemical Science	6	BL05XU	Np

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62	2024B1177	Elucidation of water molecules adhesion effects on cellulose nano-fiber processed regenerated cellulose fiber with FT-IR measurements.	Go Matsuba	Yamagata University	Japan	Educational Organization	Chemical Science	12	BL43IR	Np
63	2024B1178	Development of small angle gamma-ray quasi-elastic scattering system using 2-dimensional X-ray detector CITIUS for application on biological systems	Makina Saito	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	21	BL35XU	Np
64	2024B1179	Penetration structure of coordination polymer glasses obtained by melt-quench	Hiroyasu Tabe	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL04B2	Np
65	2024B1181	Detailed Analysis of Lithium-Oxygen Battery Reactions in Several Electrolytes by Operando Nano CT-XRD	Toshihiro Kondo	Ochanomizu University	Japan	Educational Organization	Chemical Science	6	BL20XU	Np
66	2024B1182	Synthesis of novel metastable alkali metal-rich compounds using thermodynamic stimuli.	Elissaios Stavrou	Guangdong Technion - Israel Institute of Technology	China	Foreign	Materials Science and Engineering	3	BL10XU	Np
67	2024B1184	Micro midinfrared spectroscopy of possible cometary dust particles recovered from Antarctic snow (2)	Takaaki Noguchi	Kyoto University	Japan	Educational Organization	Earth and Planetary Science	6	BL43IR	Np
68	2024B1185	Mercury distribution in methylmercury-exposed rat dorsal root ganglion	Yo Shinoda	Tokyo University of Pharmacy and Life Sciences	Japan	Educational Organization	Medical Applications	12	BL37XU	Np
69	2024B1186	Local and electronic structures of polymorphs in Li-substituted NaNbO3	Yasuhiro Yoneda	Japan Atomic Energy Agency	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL04B2	Np
70	2024B1189	Elucidation of the decomposition and formation process of zeolite framework during the interzeolite conversion process using Difference PDF Analysis Method	Toru Wakihara	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	18	BL08W	Np
71	2024B1190	Three-Dimensional Image Analysis of Chrysanthemum Capitulum Inflorescence Based on Micro-CT Data	Toshiaki Kozuka	Kanazawa University	Japan	Educational Organization	Life Science	6	BL20B2	Np
72	2024B1191	Development of analytical method for elucidating distribution of drugs in mixed power, hair and fingerprint	Yasuo Seto	RIKEN	Japan	National and Nonprofit Organization	Other	24	BL43IR	Np
73	2024B1192	Investigation of solvation structure of protein in deep eutectic solvent	Koji Yoshida	Fukuoka University	Japan	Educational Organization	Chemical Science	2.875	BL40B2	Np
74	2024B1194	Prevention of hydrogen-accelerated fatigue fracture by dispersing nano-particles in aluminium alloys	Hiroyuki Toda	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	9	BL20XU	Np
75	2024B1196	Elucidation of phonon dynamics which contributes to thermal conductivity of spider silks	Yui Tsuji	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	8.25	BL35XU	Np
76	2024B1197	Operando micro XAFS studies on distribution of redox species in the solutions of thermo-chemical cells	Hirofumi Yoshikawa	Kwansei Gakuin University	Japan	Educational Organization	Chemical Science	6	BL37XU	Np
77	2024B1198	Multi-scale / multi-modal / multi-dimensional analyses of relationships between stress-induced phase transformation and microscopic damage	Hiroyuki Toda	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	12	BL20XU	Np
78	2024B1199	Measurements of seismic velocity of lunar ilmenite: implications for the low velocity zone in lunar core-mantle boundary	Jiejun Jing	Ehime University	Japan	Educational Organization	Earth and Planetary Science	3	BL04B1	Np
79	2024B1200	Phase diagram and equation of state for iron-helium compounds under high pressure	Kei Hirose	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	11.875	BL10XU	Np
80	2024B1201	Effects of abnormal lipid metabolism on the microstructure of intercellular lipids in the stratum corneum	Yasuko Obata	Hoshi University	Japan	Educational Organization	Medical Applications	12	BL40B2	Np
81	2024B1202	X-ray absorption spectroscopy experiment on polymer electrolytes using a method to reduce X-ray damage	Naoya Kurahashi	National Institutes of Natural Sciences	Japan	National and Nonprofit Organization	Chemical Science	12	BL27SU	Np
82	2024B1203	Investigating the low-energy dynamics on Titanate-type antiferroelectric materials with exotic dielectric properties	Akitoshi Nakano	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	14.875	BL35XU	Np
83	2024B1205*	Investigation of local structures during discharge/charge process of Mg-rich spinel Mg1+xV2-xO4-based cathode materials for Mg rechargeable batteries	Yasushi Idemoto	Tokyo University of Science	Japan	Educational Organization	Chemical Science	9	BL04B2	Np
84	2024B1206	Exploring the origin of the Earth's pre-biotic materials based on the sub-second heating experiments under high-pressure simulating the impact of the celestial bodies	Ryosuke Sinmyo	Meiji University	Japan	Educational Organization	Earth and Planetary Science	6	BL10XU	Np
85	2024B1207	Improvement of magnetic properties of ultra-thin films composed of single-molecule magnets and functionalization by imparting extended π-conjugated systems	Yoji Horii	Nara Women's University	Japan	Educational Organization	Materials Science and Engineering	5.375	BL25SU	Np
86	2024B1209	In situ monitoring of the "reverse process" of polymerization-induced self-assembly by time-resolved SAXS	Rintaro Takahashi	Osaka University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
87	2024B1210	Development of forensic discrimination method for seized stimulants by micro-distribution analysis and chemical speciation of trace inorganic elements	Yasuo Seto	RIKEN	Japan	National and Nonprofit Organization	Other	9	BL37XU	Np
88	2024B1211	Observation of rubber fracture progression in various deformation conditions using high-speed X-ray 4D-CT method	Ryo Mashita	Sumitomo Rubber Industries, Ltd.	Japan	Industry	Industrial Applications	17.875	BL28B2	Np
89	2024B1212	Structural analyses of chiral macrocycles with D3 symmetry	Toshiya Fukunaga	The University of Tokyo	Japan	Educational Organization	Chemical Science	6	BL26B1	Np
90	2024B1215	Understanding the ordering process of amorphous aluminosilicate to zeolite using a computer-aided high-throughput PDF measurement instrument	Toru Wakihara	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	15	BL04B2	Np
91	2024B1216	Deformation experiments on olivine and ringwoodite under the pressure-temperature conditions of deep subducting slab	Tomohiro Ohuchi	Ehime University	Japan	Educational Organization	Earth and Planetary Science	6	BL04B1	Np

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92	2024B1217	Studies on the mechanism of precipitation and growth of biological CaCO3 based on behavior of amorphous CaCO3	Mayuri Inoue	Okayama University	Japan	Educational Organization	Earth and Planetary Science	15	BL17SU	Np
93	2024B1219	Synthesis of hydride superconductors using hydrogen-rich borohydrides.	Katsuya Shimizu	Osaka University	Japan	Educational Organization	Materials Science and Engineering	12	BL10XU	Np
94	2024B1221	Structural analysis of amorphas magnetic materials	Takeshi Shimada	Proterial, Ltd.	Japan	Industry	Industrial Applications	3	BL04B2	Np
95	2024B1223	Local metal distribution in mixed metal-organic polyhedra using X-ray fluorescence holography	Emily Meekel	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	15	BL37XU	Np
96	2024B1225	Structural Analysis of Carbon-Supported Cobalt Fourteen-Membered Ring Complex Catalysts for Fuel Cell Cathodes by In situ Co K-edge HERFD XAFS Spectroscopy and Kβ XES	Junya Ohyama	Kumamoto University	Japan	Educational Organization	Chemical Science	9	BL39XU	Np
97	2024B1226	Direct observation of nanocrystallization of magma under shear by time-resolved small-angle X-ray scattering and X-ray imaging	Satoshi Okumura	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	12	BL47XU	Np
98	2024B1227	Local structure analysis of novel ionic conductors from X-ray total scattering data	Kotaro Fujii	Institute of Science Tokyo	Japan	Educational Organization	Materials Science and Engineering	9	BL04B2	Np
99	2024B1228	Evaluation of formation of preferred-handed helical structure in organic-inorganic hybrid polymers using GIWXD measurements	Tomoyasu Hirai	Osaka Institute of Technology	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
100	2024B1230	Application of Compton Scattering Imaging Measurement with Coded Aperture Mask to Steel Materials and Mineral Samples	Akihisa Koizumi	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	7.875	BL08W	Np
101	2024B1231	Operando High Energy X-ray Fluorescence Spectroscopy on Cerium Radical Quencher in Polymer Electrolyte Fuel Cells	Yuki Orikasa	Ritsumeikan University	Japan	Educational Organization	Industrial Applications	15.75	BL37XU	Np
102	2024B1232	Spin State Analysis of Iron-Nickel Alloys Using Soft X-ray Emission Spectroscopy	Naoya Kurahashi	National Institutes of Natural Sciences	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL27SU	Np
103	2024B1233	Correlation of local fluctuations appearing in 1T-TaTe2 observed by X-ray fluorescence holography	NAOYUKI KATAYAMA	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	12	BL37XU	Np
104	2024B1234	Suppression of inorganic soft-viscous crystalline states in RuX (X=P,As,Sb) by high magnetic field	NAOYUKI KATAYAMA	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	14.25	BL39XU	Np
105	2024B1236	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	6	BL43IR	Np
106	2024B1237	Identification of intracellular amyloid degradation using soft X-ray ptychography	Mari Shimura	National Center for Global Health and Medicine	Japan	National and Nonprofit Organization	Life Science	15	BL07LSU	Np
107	2024B1239	Clarification of the origin of early Ordovician branched coral fossils from South China and updating of the coral evolutionary tree	Tsuyoshi Komiya	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	9	BL47XU	Np
108	2024B1240	Study on N2 molecules in III-nitrides using N K-edge XAS and N 1s2p-RIXS	Saki Imada	Kyoto Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	18	BL27SU	Np
109	2024B1241	Emerging van der Waals Ferromagnetics for Advanced Applications	Evgeny Bychkov	University of the Littoral Opal Coast	France	Foreign	Materials Science and Engineering	9	BL04B2	Np
110	2024B1243	Analysis of structure of blend plastics based on poly(lactic acid) under uni- and bi-axial stretching	Hiroshi Uyama	Osaka University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
111	2024B1244	Intestinal distribution analysis of radionuclides by wide-field imaging	Haruko Yakumaru	National Institutes for Quantum Science and Technology	Japan	National and Nonprofit Organization	Medical Applications	9	BL20B2	Np
112	2024B1246	Synchrotron tomography scan of Coprolite MOR 10878-9 and MOR 10878-4A	David Varricchio	Montana State University	USA	Foreign	Earth and Planetary Science	5	BL28B2	Np
113	2024B1247	Realization of single molecule dynimic measurements of pre-desensitization channel opening and closing at the α7 nicotinic acetylcholine receptor using caged acetylcholine.	Yuji Sasaki	The University of Tokyo	Japan	Educational Organization	Life Science	18	BL40XU	Np
114	2024B1249	Development of high-definition X-ray phase tomography with 100mm field of view	Masato Hoshino	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	12	BL20B2	Np
115	2024B1250	Validation of suppressed anharmonic phonon scatterings in Tungsten via high-resolution inelastic x-ray scattering	Hao Ma	University of Science and Technology of China	China	Foreign	Materials Science and Engineering	3	BL43LXU	Np
116	2024B1251	3D analysis of hydrogen-affected crack opening/phase transformation behavior in a structural material using imaging CT and XRD -STEP4: Tracking of phase transformation from fcc, hcp to bcc by high-resolution imaging type CT	Osamu Takakuwa	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	8.875	BL20XU	Np
117	2024B1252	High pressure-temperature phase diagram of CF phase: implications for seismic discontinuities at the base of the Earth's mantle	Izumi Mashino	Okayama University	Japan	Educational Organization	Earth and Planetary Science	3	BL10XU	Np
118	2024B1253	The Effect of Organic Ligands on the Photophysical Properties in CdSe Quantum Dot Superlattices	Daichi Eguchi	Kwansei Gakuin University	Japan	Educational Organization	Materials Science and Engineering	6	BL40XU	Np
119	2024B1254	Development of a Hard X-ray Telescope for a Balloon X-ray Polarimetry XL-Calibur VII	Yoshitomo Maeda	Japan Aerospace Exploration Agency	Japan	National and Nonprofit Organization	Other	12	BL20B2	Np
120	2024B1255	Association of electrolyte polysaccharides with whey proteins	Yoshiaki Yuguchi	Osaka Electro-Communication University	Japan	Educational Organization	Life Science	6	BL40B2	Np
121	2024B1256	Conformational and intermolecular interaction analysis of amides and sulfonamides for active substance discovery	Aya Tanatani	Ochanomizu University	Japan	Educational Organization	Chemical Science	6	BL26B1	Np

2024B, Performed General Proposals

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S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
122	2024B1257	Stacking structure analysis and valence band structure observation of (PbSe)1.14(NbSe2)n by photoelectron holography	Yusuke Hashimoto	Nara Institute of Science and Technology	Japan	Educational Organization	Materials Science and Engineering	12	BL25SU	Np
123	2024B1258	Elucidation of Structures and Electronic States of π-Electronic Ion-Pairing Assemblies for Organic Electronics Materials	Hiromitsu Maeda	Ritsumeikan University	Japan	Educational Organization	Materials Science and Engineering	6	BL40XU	Np
124	2024B1259	Detailed Structural Analysis of Lipid Nanoparticles Encapsulating Oligo-RNA for Functional Control by Small-Angle X-ray Scattering	Isamu Akiba	The University of Kitakyushu	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
125	2024B1261	High-pressure deformation experiments on dense hydrous mineral phase H	Yu Nishihara	Ehime University	Japan	Educational Organization	Earth and Planetary Science	12	BL04B1	Np
126	2024B1262	The involvement of soft tissue in metastatic sites in the inhibition of breast cancer-induced bone destruction through discretized low-intensity vibration	Takeshi Matsumoto	Tokushima University	Japan	Educational Organization	Medical Applications	6	BL20B2	Np
127	2024B1264	Hard X-ray XMCD induced by collinear antiparallel spin order in room-temperature altermagnets	Shinichiro Seki	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	9	BL39XU	Np
128	2024B1265	Soft X-ray XMCD induced by collinear antiparallel spin order in room-temperature altermagnets	Shinichiro Seki	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	12	BL25SU	Np
129	2024B1266	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
130	2024B1268	X-ray diffraction of supercritical-fluid hydrogen: determination of the intermolecular distances in the low and high pressure phases	Atsuko Nakayama	Iwate University	Japan	Educational Organization	Materials Science and Engineering	6	BL10XU	Np
131	2024B1269	Local structure changes by cryogenic rejuvenation in Dy-TM metallic glass	Shinya Hosokawa	Shimane University	Japan	Educational Organization	Materials Science and Engineering	12	BL47XU	Np
132	2024B1270	Change in atomic configuration of V2O5-P2O5 magnesium rechargeable battery cathode materials by ball milling treatment	Naoto Kitamura	Tokyo University of Science	Japan	Educational Organization	Chemical Science	3	BL04B2	Np
133	2024B1271	Probing nematicity in the kagome metal CsV3Sb5 via acoustic phonons	Yu Song	Zhejiang University	China	Foreign	Materials Science and Engineering	12	BL35XU	Np
134	2024B1274	Structural analysis of self-assembly of random copolymers with strong intramolecular attractive interactions in aqueous solution	Isamu Akiba	The University of Kitakyushu	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
135	2024B1276	Observation of thermotropic behaviour of softkeratin in the corneocyte using infrared microspectroscopy	Yasuko Obata	Hoshi University	Japan	Educational Organization	Medical Applications	12	BL43IR	Np
136	2024B1277	Direct Observation of Fermi Surface of High-Entropy Antimony Superconductor (RuRhPdIrPt)Sb by High-Resolution Compton Scattering	Daigorou Hirai	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	30	BL08W	Np
137	2024B1278	Observation of the domain structure in altermagnets	Sanghoon Kim	University of Ulsan	Korea	Foreign	Materials Science and Engineering	15	BL17SU	Np
138	2024B1279	Accelerating of Crystallization of Biodegradable Polyesters	Masahiro Fujita	RIKEN	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL40B2	Np
139	2024B1281	Structural Analyses of Novel Semiconducting Coordination Polymer Glass and Liquid Synthesized by High-Throughput Screening Techniques	Daisuke Tanaka	Kwansei Gakuin University	Japan	Educational Organization	Chemical Science	6	BL04B2	Np
140	2024B1282	Structural Study of High-Temperature Superconducting Hydrides BiHx under High Pressure	Liang Ma	Zhengzhou University	China	Foreign	Materials Science and Engineering	6	BL10XU	Np
141	2024B1283	Pressure-Responsive Control of Long Stacking Distances in Liquid Crystals Based on Novel π-Electronic Systems	Yohei Haketa	Ritsumeikan University	Japan	Educational Organization	Materials Science and Engineering	6	BL40XU	Np
142	2024B1284	Elucidation of the mechanism of low lattice thermal conductivity in iridium oxide Ca5Ir3O12 exhibiting electrical toroidal order	Kazuyuki Matsuhira	Kyushu Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	10	BL35XU	Np
143	2024B1285	High-pressure electronic and structural properties of 2D van der Waals compound Zn2P2S6	Takahiro Matsuoka	University of the Philippines Diliman	Philippines	Foreign	Materials Science and Engineering	6	BL10XU	Np
144	2024B1286	Response measurements of a fine spatial resolution cadmium telluride semiconductor detector for hard X-ray space observation	Miho Katsuragawa	Kyoto University	Japan	Educational Organization	Elementary Particles, Nuclear Science	6	BL20B2	Np
145	2024B1287	Elucidation of skin penetration mechanisms of macromolecular drugs using a “solution injection cell”	Kaname Hashizaki	Nihon University	Japan	Educational Organization	Life Science	6	BL40B2	Np
146	2024B1288	Observation using high-speed X-ray transmission image of the puncture of microinjection needle into artificial skin and artificial blood vessel installed inside it for minimally invasive treatment	Seiji Aoyagi	Kansai University	Japan	Educational Organization	Industrial Applications	1.875	BL28B2	Np
147	2024B1289	Elucidation of correlation between hyper-ordered structures of substituted elements and spin glass properties in iron oxides using photoelectron holography	Md Shamim Sarker	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	9	BL25SU	Np
148	2024B1291*	Comparison of equation of state between Mg-phase D, Al-phase D and new phase MgAl-phase D	TORU INOUE	Hiroshima University	Japan	Educational Organization	Earth and Planetary Science	9	BL04B1	Np
149	2024B1292	3D ligand distribution analysis around tetravalent manganese ions in high-brightness red phosphors with narrow spectral lines by x-ray fluorescence holography	Mamoru Kitaura	Yamagata University	Japan	Educational Organization	Materials Science and Engineering	12	BL47XU	Np
150	2024B1293	Development of highly functional nanocellulose filaments	Kazuho Daicho	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	3	BL40XU	Np
151	2024B1294	Mechanism of ductility deterioration and crack initiation on surface during bending test in aluminum alloy die-cast	Masakazu Kobayashi	Toyohashi University of Technology	Japan	Educational Organization	Materials Science and Engineering	12	BL20XU	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)
152	2024B1295	Elucidation of solidification cracking formation mechanism using in situ observation of arc welding behaviors under tensile force	Tomoya Nagira	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL20XU	Np
153	2024B1296	Pressure-induced structural phase transitions in 1144 iron-based superconductors and related materials	Simon Clarke	University of Oxford	UK	Foreign	Materials Science and Engineering	3	BL10XU	Np
154	2024B1297	Study on Pressure Induced Crystal Structural Phase Transition Dynamics in Liquid-like Layered AgCrSe2.	Bing Li	Chinese Academy of Sciences	China	Foreign	Materials Science and Engineering	3	BL10XU	Np
155	2024B1298	High-pressure synchrotron XRD study of barocaloric effects of NH4I plastic crystal	Bing Li	Chinese Academy of Sciences	China	Foreign	Materials Science and Engineering	6	BL10XU	Np
156	2024B1300	Experimental verification of single particles having different physical properties on optical properties and light scattering simulations	Akemi Tamanai	RIKEN	Japan	National and Nonprofit Organization	Earth and Planetary Science	6	BL43IR	Np
157	2024B1301	Single crystal structure analysis of curved pi-conjugated molecules with multiply alkynylated surfaces	Shinobu Aoyagi	Nagoya City University	Japan	Educational Organization	Chemical Science	3	BL41XU	Np
158	2024B1302	Adjustable thermal expansion and zero field cooling exchange bias in kagome Ho2Fe17Mnx	Yili Cao	University of Science and Technology Beijing	China	Foreign	Materials Science and Engineering	3	BL44B2	Np
159	2024B1303	X-ray Compton scattering measurement of metallic glasses	Kazuhiro Matsuda	Kumamoto University	Japan	Educational Organization	Materials Science and Engineering	12	BL08W	Np
160	2024B1304	High Pressure Study of High-Temperature Superconducting Hydrides Li2CaHx	Jinguang Cheng	Chinese Academy of Sciences	China	Foreign	Materials Science and Engineering	6	BL10XU	Np
161	2024B1305	Visualization of shear deformation process of unsaturated triaxial specimen under various drained conditions for air and water	Ryunosuke Kido	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	18	BL28B2	Np
162	2024B1307	Development of retrospective gating 4D-CT for in vivo timelapse measurement of lung tissue strain	Toshihiro Sera	Tokyo University of Science	Japan	Educational Organization	Medical Applications	6	BL20B2	Np
163	2024B1308	In-situ Relative viscosity measurements between CaSO3-Perovskite and bridgmanite	Noriyoshi Tsujino	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Earth and Planetary Science	12	BL04B1	Np
164	2024B1310	Real-time three-dimensional observation of strain distribution for improving the slip resistance of rubber	Wataru Yashiro	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	18	BL28B2	Np
165	2024B1311	Development of novel covalent bonded compounds based on ultra-high pressure in-situ experiments	Ken Niwa	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL10XU	Np
166	2024B1312	Detailed Analysis of Spray Behavior of Various Carbon-neutral Synthetic Fuels (e-fuels): Elucidation of Spray Behavior Dynamics during Phase Change Proces using X-ray Optical Technology	Mitsuharu Oguma	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Industrial Applications	17.875	BL40XU	Np
167	2024B1315	Analysis of water adsorption-desorption behavior of hair using infrared microspectroscopy	Hironori Kimura	Milbon Co., Ltd.	Japan	Industry	Industrial Applications	18	BL43IR	Np
168	2024B1316	Studies on the Local Structure Evolution in Carboxylate-Based Metal-Organic Framework Liquids and Glasses	Hoi Moon	Ewha Womans University	Korea	Foreign	Chemical Science	3	BL04B2	Np
169	2024B1317	Change in the elasticity and the effect of the composition of aluminoborosilicate glasses at high pressure	Akihiro Yamada	University of Shiga Prefecture	Japan	Educational Organization	Materials Science and Engineering	11.5	BL04B1	Np
170	2024B1318	Effect of hydrogen on the metal-silicate partitioning of siderophile/chalcophile elements	Shunpei Yokoo	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	3	BL10XU	Np
171	2024B1319	Self-locking mechanism of CNT yams: Assessing their potential as reinforcing agents in fiber-reinforced plastic composites	Go Yamamoto	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	3	BL20XU	Np
172	2024B1320	Understanding the origins of soft magnetism in nanocrystalline amorphous compositional spread magnetic alloys	Takahiro Yamazaki	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	11.875	BL25SU	Np
173	2024B1321	Electronic structure change analysis of sulfide solid electrolyte under humidity condition by using soft X-ray absorption spectroscopy (5)	Kentaro Yamamoto	Nara Women's University	Japan	Educational Organization	Chemical Science	6	BL27SU	Np
174	2024B1322*	Understanding the relationship between structure and dynamics in Zr-based metallic glass	Yohei Onodera	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL47XU	Np
175	2024B1323	Development of a Method to Reconstruct the Superlattice Structure from Photoelectron Holograms by Observing the Charge Density Wave in Layered Semiconductor 2H-TaS2	Tomohiro Matsushita	Nara Institute of Science and Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL25SU	Np
176	2024B1326	Investigation of the reaction mechanism of the oxygen evolution reaction on Ir-doped MnO2 catalysts in a PEM water electrolyzer using time-resolved operando HERFD-XANES and EXAFS: Part 2	Kiyohiro Adachi	RIKEN	Japan	National and Nonprofit Organization	Chemical Science	11.875	BL36XU	Np
177	2024B1327	Exploration of pressure-induced structural phase transition in ferromagnetic Heusler alloy Ni2MnIn	Tetsujiro Eto	Kurume Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL10XU	Np
178	2024B1328	Melting Diagram of Fe-O-H in the Earth's Core Conditions	Suyu Fu	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	3	BL10XU	Np
179	2024B1329	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 (3)	Kentaro Yamamoto	Nara Women's University	Japan	Educational Organization	Chemical Science	12	BL37XU	Np
180	2024B1330	In-situ X-ray imaging of Mg-Tb Alloying in LiCl-KCl	Yumi Katasho	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Chemical Science	5.625	BL28B2	Np
181	2024B1332*	Unraveling the coordination environment and incorporation mechanism of protons into hydrated silica glass	Takuo Okuchi	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL04B2	Np

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182	2024B1336	Structure of the amorphous-crystalline transition layer at the insulator/gallium nitride interface revealed by photoelectron holography and large-scale molecular dynamics simulation	Mutsunori Uenuma	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL25SU	Np
183	2024B1337	Analysis of water behavior in human hair and skin with different cluster sizes	Hiromitsu Nakazawa	Kwansei Gakuin University	Japan	Educational Organization	Life Science	6	BL43IR	Np
184	2024B1338	High-pressure phase transformation and metastable phase formation behavior of silicon-germanium alloys under hydrostatic and non-hydrostatic pressure using diamond anvil cells	Yoshifumi Ikoma	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	6	BL10XU	Np
185	2024B1340	Temperature dependent photoelectron holography of W-doped VO2	Takayoshi Yokoya	Okayama University	Japan	Educational Organization	Materials Science and Engineering	12	BL25SU	Np
186	2024B1341	Pressure dependence in Eu-valence of BiS2-based superconductor Eu3Bi2S4F4	Kento Ishigaki	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	6	BL39XU	Np
187	2024B1342	Measurement of orbital symmetry change associated with the 500K-spin-crossover in PrCoO3 by X-ray Compton scattering	Yoshihiko Kobayashi	Tokyo Medical University	Japan	Educational Organization	Materials Science and Engineering	15	BL08W	Np
188	2024B1343	In situ elastic wave velocity measurement on SiO2 glass up to ultrahigh-pressure condition above 40 GPa by ultrasonic method	Itaru Ohira	Gakushuin University	Japan	Educational Organization	Earth and Planetary Science	3	BL04B1	Np
189	2024B1344	Particular thermal expansion induced by enhanced Fe interaction in (Ti,Zr)Fe2+x alloy	Kun Lin	University of Science and Technology Beijing	China	Foreign	Chemical Science	6	BL44B2	Np
190	2024B1347	The Effect of Methylation on the Simplification of Intermolecular Structures of Molecules with Intermolecular Hydrogen Bonds and the Structural Characteristics of Derivatives	Hironori Shimakura	Niigata University of Pharmacy and Applied Life Sciences	Japan	Educational Organization	Materials Science and Engineering	6	BL04B2	Np
191	2024B1349	Investigation of the reaction mechanism of the oxygen evolution reaction on Ru-doped MnO2 catalysts in a PEM water electrolyzer using time-resolved operando XAFS measurements	Kiyohiro Adachi	RIKEN	Japan	National and Nonprofit Organization	Chemical Science	9	BL36XU	Np
192	2024B1350	Study of hydrogenation-induced novel magnetic phases in 2-17 ferrimagnetic compounds explored by XMCD under high pressure	Naoki Ishimatsu	Ehime University	Japan	Educational Organization	Materials Science and Engineering	12	BL39XU	Np
193	2024B1351	High-throughput screening of optimal particle morphology for solid-state lithium-ion battery active materials based on operando 3D high-speed and high-resolution imaging of charge-discharge reactions using imaging nano-CT-QXAFS	Yuta Kimura	Tohoku University	Japan	Educational Organization	Chemical Science	18	BL37XU	Np
194	2024B1352	Anatomical study using CT images of the fossil cranium of the genus Stegolophodon (Proboscidea) from the Lower Miocene Tamagawa Formation in Hitachi-Omiya City, Ibaraki Prefecture	Katsunori Iizumi	National Museum of Nature and Science	Japan	National and Nonprofit Organization	Life Science	3	BL28B2	Np
195	2024B1354	Efficient catalytic activity of non precious metal amorphous CrZrOx catalyst for direct dehydrogenation of propane	Qiang Li	University of Science and Technology Beijing	China	Foreign	Chemical Science	3	BL08W	Np
196	2024B1357	Metallization and B1-B2 phase transition of alkaline earth metal oxides II	Takeshi Sakai	Ehime University	Japan	Educational Organization	Earth and Planetary Science	8.75	BL10XU	Np
197	2024B1358	Investigation of the phase stability and phase relation of novel high-pressure phase transition-metal silicides under high pressure and high temperature	Takuya Sasaki	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL04B1	Np
198	2024B1359	Time-resolved X-ray diffraction analysis of ciliary movement in ctenophore comb plates using BL40XU	Kazuo Inaba	University of Tsukuba	Japan	Educational Organization	Life Science	9	BL40XU	Np
199	2024B1362	Tracking of the internal structure changes in woody biomass during pyrolysis based on dynamic observations using high-speed X-ray CT	Tadafumi Daitoku	Akita Prefectural University	Japan	Educational Organization	Industrial Applications	6	BL20B2	Np
200	2024B1364	Determination of soil phosphorus species using micro XANES: implications for soil phosphorus accumulation	Yohey Hashimoto	Tokyo University of Agriculture and Technology	Japan	Educational Organization	Environmental Science	6	BL27SU	Np
201	2024B1366	Determination of melting temperature and liquid equation of state of S-rich Fe-S in the condition of whole Martian core region using simultaneous X-ray absorption and diffraction measurements	Hidenori Terasaki	Okayama University	Japan	Educational Organization	Earth and Planetary Science	6	BL10XU	Np
202	2024B1368	Crystallization process for polymers under uniaxial stretching near the glass transition temperature	Takashi Konishi	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
203	2024B1369	Study on structure and ionic conductivity in Cu2PV1-xMoxO7+x/2	Xing Xianran	University of Science and Technology Beijing	China	Foreign	Chemical Science	3	BL08W	Np
204	2024B1370	Operando analysis of the cathode coating layer/solid electrolyte interface in all-solid-state batteries using depth-resolved soft X-ray absorption spectroscopy	Yuta Kimura	Tohoku University	Japan	Educational Organization	Chemical Science	9	BL27SU	Np
205	2024B1371	Multi-scale CT observation of metal-adhesive interface during tensile test	Takanori Itoh	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	6	BL20XU	Np
206	2024B1372	Development of multibeam CT optics using a single-crystal beam splitter	Wolfgang Voegeli	Tokyo Gakugei University	Japan	Educational Organization	Beamline Engineering	18	BL28B2	Np
207	2024B1373	Deformation experiments on Al- and H2O- bearing stishovite	Fang Xu	Zhejiang University	China	Foreign	Earth and Planetary Science	9	BL04B1	Np
208	2024B1375	Aggregation Structures of Deoxyribonucleic Acid Having Fluoroalkyl Groups	Daisuke Kawaguchi	The University of Tokyo	Japan	Educational Organization	Chemical Science	3	BL40B2	Np
209	2024B1376	Operando micro-XAFS measurements of effects of protection layer insertion on chemical potential distribution in solid oxide cell electrolytes.	Koji Amezawa	Tohoku University	Japan	Educational Organization	Chemical Science	18	BL37XU	Np
210	2024B1377	Local structure analysis around dopant atoms in Sm-doped $BiFeO_3$ thin films	Seiji Nakashima	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	9	BL32B2-P	Np

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211	2024B1378	Observation of local structure around dopant atom 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
212	2024B1379	The structural evaluation of amorphous pellets of hydrated superionic conductors by PDF analysis	Nobuto Yoshinari	Osaka University	Japan	Educational Organization	Materials Science and Engineering	5.875	BL04B2	Np
213	2024B1380	X-ray diffraction analysis of molecular structural changes in ctenophore cilia using BL05XU	Kazuo Inaba	University of Tsukuba	Japan	Educational Organization	Life Science	9	BL05XU	Np
214	2024B1382	Co-solvent Effects of Inorganic Salts on Cellulose Dissolution	Kayoko Kobayashi	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
215	2024B1383	Structure analysis of a rhenium superconducting micro-particle with high critical temperature	Yoshiki Moriwaki	University of Toyama	Japan	Educational Organization	Materials Science and Engineering	3	BL40XU	Np
216	2024B1384	DET-SIXM analyses of asteroid Bennu samples: investigation of mineralogical variation and aqueous alteration of hydrous asteroids	Megumi Matsumoto	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	17.875	BL47XU	Np
217	2024B1386	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
218	2024B1387	Elucidation of permeation behavior of water in human skin stratum corneum by synchrotron X-ray diffraction	Hiromitsu Nakazawa	Kwansei Gakuin University	Japan	Educational Organization	Industrial Applications	6	BL40B2	Np
219	2024B1388	Intravital Quantification of Brain Motion as Cerebrospinal Fluid Propulsion Mechanism in the Murine Brain	Vartan Kurtcuoglu	University of Zurich	Switzerland	Foreign	Life Science	17.875	BL20B2	Np
220	2024B1389	SAXS analysis for clarifying the relationship between macroscopic physical properties of wood and microscopic structure of lignin incorporated in wood	Soichi Tanaka	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
221	2024B1390	Time-resolved analysis of heterogeneity at the vicinity of polymerization-induced vitrification during bulk polymerization of methyol methacrylate in the presence of poly(ethylene glycol)	Yasuhito Suzuki	Osaka Metropolitan University	Japan	Educational Organization	Chemical Science	3	BL08W	Np
222	2024B1391	Multi-scale and -mode X-ray CT analysis of the asteroid Bennu samples: Search for fluid inclusions	Megumi Matsumoto	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	3	BL20XU	Np
223	2024B1392	Impact of antiferromagnetic domain structures on ferroelectrically controlled magnon transport in multiferroic BiFeO3 with different ferroelectric domain structures and phases	Di Yi	Tsinghua University	China	Foreign	Materials Science and Engineering	9	BL17SU	Np
224	2024B1396	Investigation of the spin and orbital moments of 5d Ir cations in manganite-iridate multilayers with perpendicular magnetic anisotropy	Di Yi	Tsinghua University	China	Foreign	Materials Science and Engineering	12	BL39XU	Np
225	2024B1397	Chemical Structure Analysis of Organic Insulating Films in the Local Area by SPELEEM Part.II	Ken-ichi Izumi	JSR Corporation	Japan	Industry	Industrial Applications	18	BL25SU	Np
226	2024B1398	Unveiling the Structural Determinants Enhancing Ionic Conductivity in Amorphous-chloride Solid Electrolytes	Kisuk Kang	Seoul National University	Korea	Foreign	Materials Science and Engineering	6	BL04B2	Np
227	2024B1399	Efficient pressure sensor using 4f-4f transition in soft Ln3+-complex crystal	Jumpei Ueda	Japan Advanced Institute of Science and Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL10XU	Np
228	2024B1400	Investigation of the origin of magnetism evolution in manganite-iridate superlattice by incomplete interface design	Di Yi	Tsinghua University	China	Foreign	Materials Science and Engineering	9	BL25SU	Np
229	2024B1402	Multi-modal Analysis for Investigating Structural and Electronic Properties of Heusler Alloys	Alexandre Foggiatto	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	12	BL25SU	Np
230	2024B1403	Research to elucidate the differences in the structural characteristics of aged and young skin.	Hiromitsu Nakazawa	Kwansei Gakuin University	Japan	Educational Organization	Medical Applications	6	BL40B2	Np
231	2024B1404	Observation of excavated bronze mirrors using synchrotron X-ray computed laminography to clarify their inner structure	Manako Tanaka	Tokyo University of the Arts	Japan	Educational Organization	Other	5.875	BL20B2	Np
232	2024B1405	Investigation of liquid-liquid phase transitions of sulfur under high pressure and high temperature using in-situ ultrasonic interferometry	Huiyang Gou	Center for High Pressure Science and Technology Advanced Research	China	Foreign	Materials Science and Engineering	15	BL04B1	Np
233	2024B1406	Can outer-rise faults be reactivated in deeper parts of subducting slabs?	Sando Sawa	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	3	BL04B1	Np
234	2024B1407	Influence of irradiation of optical vortex LASER for chirality selective crystallization of glass	Kazuro Kizaki	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	7	BL04B2	Np
235	2024B1408	Visualisation of H2O/D2O diffusion separation processes in MOF crystal particles.	Hirotoshi Sakamoto	Kyoto University	Japan	Educational Organization	Chemical Science	12	BL37XU	Np
236	2024B1409	Elucidation of two-dimensional ferromagnetic states and magnetic anisotropy in 4d Weyl ferromagnetic oxide SrRuO3 by x-ray magnetic circular dichroism	Masaki Kobayashi	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	18	BL25SU	Np
237	2024B1410	Investigation on local structure evolution of negative thermal expansion Fe-based amorphous alloy	Kun Lin	University of Science and Technology Beijing	China	Foreign	Materials Science and Engineering	6	BL08W	Np
238	2024B1411	Research to elucidate the percutaneous absorption enhancement effect of an electric field	Hiromitsu Nakazawa	Kwansei Gakuin University	Japan	Educational Organization	Life Science	6	BL40B2	Np
239	2024B1415	Structure and Melting Behavior of Polymer Crystals with Fully Extended Chains Prepared via Topochemical Polymerization	Yasuhito Suzuki	Osaka Metropolitan University	Japan	Educational Organization	Chemical Science	3	BL40B2	Np
240	2024B1416	Development of analysis method for the packing structure of intercellular lipid in human skin stratum corneum using infrared spectroscopy.	Hiromitsu Nakazawa	Kwansei Gakuin University	Japan	Educational Organization	Medical Applications	6	BL43IR	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)
241	2024B1417	High-pressure synchrotron XRD study of barocaloric effects of metal-organic framework ZIF-4(Co)	Bing Li	Chinese Academy of Sciences	China	Foreign	Materials Science and Engineering	3	BL10XU	Np
242	2024B1418	In-situ Chemical State Analysis of Carbon-based Tribofilms by Soft X-ray Absorption Fine Structure	Tomoko Hirayama	Kyoto University	Japan	Educational Organization	Industrial Applications	9	BL27SU	Np
243	2024B1421	Low-Temperature and High-Pressure in-situ XRD Measurement of La4Ni3O10	Yanpeng Qi	ShanghaiTech University	China	Foreign	Materials Science and Engineering	3	BL10XU	Np
244	2024B1422	Development of X-ray spectroscopy method using variable X-ray polarization optics and application to the X-ray emission spectroscopy	Naomi Kawamura	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	23.75	BL39XU	Np
245	2024B1424	Infrared study of f-electron states in valence transition material EuPd2Si2 at high pressures	Hidekazu Okamura	Tokushima University	Japan	Educational Organization	Materials Science and Engineering	17.875	BL43IR	Np
246	2024B1425	Resistive Heating & Quasi-Static Compression of Additively Manufactured Ti-6Al-4V	Blake Sturtevant	Los Alamos National Laboratory	USA	Foreign	Materials Science and Engineering	6	BL10XU	Np
247	2024B1426	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	Institute of Science Tokyo	Japan	Educational Organization	Earth and Planetary Science	15	BL47XU	Np
248	2024B1427	Investigation of phonon dispersion for GeOx/Ge interface by grazing incidence inelastic X-ray scattering	Ryo Yokogawa	Meiji University	Japan	Educational Organization	Materials Science and Engineering	15	BL35XU	Np
249	2024B1428	Modification of oxygen framework to achieve stable and high energy-density Li-rich layered cathode	Kisuk Kang	Seoul National University	Korea	Foreign	Materials Science and Engineering	6	BL04B2	Np
250	2024B1429	Observation of structure-specific rotational motion of crystalline molecular globes by time-resolved XRD	Masahiro Kuramochi	Ibaraki University	Japan	Educational Organization	Chemical Science	3	BL40XU	Np
251	2024B1431	Construction of in-situ time-resolved PDF measurement system using a cooling and heating stage	Seiya Shimono	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL08W	Np
252	2024B1432	The origin of the high-performance photovoltaic properties in Fe-doped LiNbO3 Perovskite oxides	Hiroshi Sakurai	Gunma University	Japan	Educational Organization	Materials Science and Engineering	15	BL08W	Np
253	2024B1435	Structural Analysis of Cationized Vesicles Stabilized with Novel Heterogemini Surfactants with Nonidentical Hydrophilic Groups	Tomokazu Yoshimura	Nara Women's University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
254	2024B1436	Elucidation of soaking mechanism of guest molecules into crystalline sponge using synchrotron radiation X-ray diffraction	Sota Sato	The University of Tokyo	Japan	Educational Organization	Chemical Science	8.375	BL26B1	Np
255	2024B1439	Infrared optical studies on Mott-Hubbard band and vibrational spectra with disorder induced by X-ray irradiation in a monomer charge transfer salt (BEDT-TTF)Cu[N(CN)$_2$]$_2$	Muhammad Nuryadin	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	9	BL43IR	Np
256	2024B1440	Magnon-phonon coupling in Fe3GaTe2 studied by inelastic x-ray scattering	Xueyun Wang	Beijing Institute of Technology	China	Foreign	Materials Science and Engineering	11	BL35XU	Np
257	2024B1441	Ground state of mixed valence state of Yb ion in Kondo insulator YbB12 studied by 174Yb synchrotron radiation based Mössbauer spectroscopy at ultralow temperature with external magnetic field	Nobumoto Nagasawa	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	18	BL35XU	Np
258	2024B1442	Electronic Structure Investigation of Proton Coupled Electron Transfer Mechanism of Water Adsorbed Pristine and Mn-doped ZnO Thin Films	Sreeju Sreekantan Nair Lalithambika	Deutsches Elektronen-Synchrotron	Germany	Foreign	Materials Science and Engineering	6	BL27SU	Np
259	2024B1443	Direct measurements of the lattice spacing of myosin filaments related to the sarcomere length using small and ultra-small angle X-ray diffractions in vivo	Atsuki Fukutani	Ritsumeikan University	Japan	Educational Organization	Life Science	8.25	BL20XU	Np
260	2024B1444	Inferring growth dynamics and physiology from skeletal increments of extinct vertebrates: development of a new scanning protocol at BL20B2	Martin Kundrat	Pavol Jozef Safarik University	Slovakia	Foreign	Life Science	15	BL20B2	Np
261	2024B1445	LED irradiation effect of Eu-activated phosphors by time-resolved Mossbauer spectroscopy	Shinji Kitao	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	18	BL35XU	Np
262	2024B1447	Trial of synchronous evaluation of in-situ imaging and in-situ temperature measurement of laser melting phenomena	Kohei Morishita	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	9	BL47XU	Np
263	2024B1448	Study on advanced crystalline sponge method by small-wedge data collection method using high-flux synchrotron X-rays	Sota Sato	The University of Tokyo	Japan	Educational Organization	Chemical Science	6	BL45XU	Np
264	2024B1449	Observation of electronic band structure in Cairo pentagonal layered semiconductors	Natsuki Mitsuishi	RIKEN	Japan	National and Nonprofit Organization	Materials Science and Engineering	17.625	BL25SU	Np
265	2024B1452	Visualization of the structure and luminescence properties of organic-inorganic hybrid materials in the glassy state using a simultaneous measurement system of total X-ray scattering and optical properties	Seiya Shimono	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	8.25	BL04B2	Np
266	2024B1453	Evaluation of Local High Temperature Fields of Supported Metal Nanoparticles Induced by Microwaves Based on Hard X-ray Total Scattering Measurements	Fuminao Kishimoto	The University of Tokyo	Japan	Educational Organization	Chemical Science	12	BL08W	Np
267	2024B1454	Dynamic observation of semisolid deformation during compression/tensile tests in bulk Al alloys by ultra-fast 4D-CT aided by compressed sensing with using high-brilliant X-rays monochromatized by multilayer mirror	Taka Narumi	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL20B2	Np
268	2024B1457	Determination of the thermal equation of state of cubic-calcium perovskite	Bin Chen	University of Hawaii at Manoa	USA	Foreign	Earth and Planetary Science	6	BL10XU	Np
269	2024B1458	Effect of synthesis temperature on the formation of porous materials by high-throughput PDF measurement and multi solution reaction system	Hiroki Yamada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL04B2	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)
270	2024B1459	Study of “uniform” micelle of alternate multi block copolymer with different molecular weight	Yusuke Sanada	Fukuoka University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
271	2024B1461	Influence of Phonons on Ion Transport in Lithium Battery Materials	Alexey Rulev	Swiss Federal Laboratories for Materials Science and Technology	Switzerland	Foreign	Materials Science and Engineering	11.125	BL19LXU	Np
272	2024B1462	Elucidation of the distribution of active sites in ferrosilicate and titanosilicate by HERFD-XAS measurements	Hiroki Yamada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL39XU	Np
273	2024B1464	Elucidating Structure-Function Relationships in High Entropy Electrocatalyst using In-situ High Energy X-Ray Diffraction Coupled to Atomic Pair Distribution Function Analysis	Yuwei Yang	University of New South Wales	Australia	Foreign	Materials Science and Engineering	6	BL08W	Np
274	2024B1465	Developing dynamic 3D crystallographic orientation mapping technique with time-resolved 3DXRD (1): Dynamic observation of sintering process of Cu particle using 4D-CT and 3DXRD	Taka Narumi	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL47XU	Np
275	2024B1467	Implanted oxygen molecules in metals studied by resonant inelastic x-ray scattering	Laurent Duda	Uppsala University	Sweden	Foreign	Materials Science and Engineering	14.875	BL27SU	Np
276	2024B1472	Silicate dynamo hypothesis revealed by electrical conductivity measurements of dense pyrolitic magma at high pressures and temperatures	Yoshiyuki Okuda	University of Hawaii	USA	Foreign	Earth and Planetary Science	6	BL10XU	Np
277	2024B1473	High-throughput high-energy X-ray total scattering measurements of zeolites during heating at elevated temperatures focusing on the effect of element species constituting the frameworks for the creation of novel negative thermal expansion zeolites using machine learning approaches	Yuki Sada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL04B2	Np
278	2024B1474	Structure of Amorphous Xenon Hydrate	Osamu Yamamuro	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	12	BL04B2	Np
279	2024B1475*	Analysis of Crosslinking and Degradation Reactions in Polymer Coatings based on High-Speed Time-Resolved Nano-Infrared Spectroscopy	Yoshihisa Fujii	Mie University	Japan	Educational Organization	Chemical Science	6	BL43IR	Np
280	2024B1477*	The study of chemical structure changes on the surface of amphiphilic gel using synchrotron radiation infrared spectroscopy.	Eri Ito	Menicon Co., Ltd.	Japan	Industry	Materials Science and Engineering	11.875	BL43IR	Np
281	2024B1478	Experimental determination of the thermal equation of state of diamond using a boron-doped diamond	Yoshiyuki Okuda	University of Hawaii	USA	Foreign	Materials Science and Engineering	6	BL10XU	Np
282	2024B1480	Demonstration of πXAFS using fluorescent X-rays	Koji Kimura	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL32B2-P	Np
283	2024B1481	Measurement of anharmonic phonons in rutile-type TiO2 to elucidate the origin of its high dielectric permittivity	Koji Kimura	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL43LXU	Np
284	2024B1482*	Structural analysis of luminescent center in Sn-doped ZnO–P2O5 glasses using anomalous X-ray scattering	Koji Kimura	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	11.875	BL47XU	Np
285	2024B1484	Time and energy resolved SWAXS measurements of Mg-RE-(Co,Ni)-X multinary alloys thin films on the L12 nanocluster formation process in thin films	Hiroshi Okuda	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL40B2	Np
286	2024B1485	Visualization of Pb ionic displacement in high-performance piezoelectric material using field-induced X-ray fluorescence holography	Koji Kimura	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	12	BL32B2-P	Np
287	2024B1486	Molecular and vibronic origin of proton transport in Y-substituted BaSnO3: NRVS and 119Sn phonon DOS	Artur Braun	Swiss Federal Institutes of Technology	Switzerland	Foreign	Materials Science and Engineering	15	BL35XU	Np
288	2024B1487	In Situ Viscosity Measurements on Iron-Rich Silicate Melts under High Pressure: Evaluating the Solidification Regime of the Martian Magma Ocean	Remy Pierru	University of Bayreuth	Germany	Foreign	Earth and Planetary Science	11.75	BL04B1	Np
289	2024B1488	Dopant-site analysis of Halide Perovskite Semiconductor Ag-doped CsPbBr3 by X-ray Fluorescence Holography	Kouichi Hayashi	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL47XU	Np
290	2024B1489	Development of operando lithium quantitative analysis method for lithium-ion batteries using Compton scattering and X-ray diffraction using high-energy X-rays	Kosuke Suzuki	Gunma University	Japan	Educational Organization	Chemical Science	18	BL08W	Np
291	2024B1490	Elucidation of interfacial morphology dependence of microscale delamination fracture in dissimilar materials joints using nano-computed tomography	Tomoki Matsuda	Osaka University	Japan	Educational Organization	Materials Science and Engineering	6	BL47XU	Np
292	2024B1491	Development of a time-resolved multimodal X-ray measurement technique to elucidate the formation behavior of specific high-density regions in tightly focused laser micromachining	Yasunaga Nara	Hamamatsu Photonics K.K.	Japan	Industry	Industrial Applications	18	BL40XU	Np
293	2024B1492	Exploring Tool Use in the Protozoan Homotrema rubrum Through High-Resolution CT Imaging	Kotaro Hirose	University of Hyogo	Japan	Educational Organization	Life Science	6	BL20XU	Np
294	2024B1493	Estimation of the water environment and elemental distributions in the Ryugu parent body based on the speciation of various elements using micro XRF-XAFS-XRD analysis	Yoshio Takahashi	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	15	BL37XU	Np
295	2024B1494	Size and Chemical Composition Dependent Structural Phase Transition Pressure in Cadmium Chalcogenide Quantum Dots	Daichi Eguchi	Kwansei Gakuin University	Japan	Educational Organization	Materials Science and Engineering	6	BL10XU	Np
296	2024B1496	Identification of host phase of U, Y, and Ba in underground environment using HERFD-XANES	Yoshio Takahashi	The University of Tokyo	Japan	Educational Organization	Environmental Science	15	BL39XU	Np
297	2024B1497	Magnetic domain structure based on magneto-transport property driven by altermagnetism in a ruthenium oxide	Shutaro Karube	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	18	BL17SU	Np
298	2024B1498	Investigation of interparticle distance control process by ligand exchange in nanoparticle three-dimensional superlattices	Masaki Saruyama	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL40B2	Np

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299	2024B1499	Development of wide view nano-imaging mode on multi-scale imaging system by using multi condenser zone plate 2	Masahiro Yasutake	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	6	BL47XU	Np
300	2024B1500	Survey of detectors for high-resolution Compton scattering	Naruki Tsuji	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	18	BL08W	Np
301	2024B1501	Structure Analysis of Homogeneous Polymer Network Gel Electrolytes for Zinc Aqueous Batteries	Saki Sawayama	Yamaguchi University	Japan	Educational Organization	Chemical Science	9	BL04B2	Np
302	2024B1503	Observations of dendritic structure in bulk Al-Cu specimens by 4D-CT using the multilayer X-ray optics for building the time-evolution equation	Hideyuki Yasuda	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL20B2	Np
303	2024B1505	Time-resolved measurement of crystallographic orientation and grain structure by 4D-CT+XRD and its application to a massive-like transformation in Fe alloys	Hideyuki Yasuda	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL47XU	Np
304	2024B1507*	PDF analysis of oxide glasses toward the discussion of the efficiency of energy transfer between activators	Hirokazu Masai	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL04B2	Np
305	2024B1509	Capturing the full picture of nano-rotational motion of crystalline molecular globes with pink-white X-rays	Masahiro Kuramochi	Ibaraki University	Japan	Educational Organization	Chemical Science	3	BL40XU	Np
306	2024B1510	Tracking the Formation of Martensitic Structure in Copper-Based Superelastic Alloys by Scanning Micro-XAFS Measurement under In-Situ Tensile Testing	Kakeru Ninomiya	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	9	BL37XU	Np
307	2024B1511	Quantum asymmetry derived from multipoles probed by temperature-dependent linear dichroism in core-level photoemission	Akira Sekiyama	Osaka University	Japan	Educational Organization	Materials Science and Engineering	18	BL19LXU	Np
308	2024B1512	Effects of Multiple Halogen Additions on Glass Structure and Nucleation	Kenji Shinozaki	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL04B2	Np
309	2024B1513	High energy X-ray fluorescence analysis of trace heavy elements in Nara Sansai clay	Shoko Kokura	Archaeological Institute of Kashihara, Nara Prefecture	Japan	National and Nonprofit Organization	Other	3	BL20B2	Np
310	2024B1514	X-ray scattering study on the change in the morphology of ETFE under various deformation modes	Shotaro Nishitsuji	Yamagata University	Japan	Educational Organization	Materials Science and Engineering	3	BL40B2	Np
311	2024B1515	Elucidation of the water-cellulose nanofiber interaction via resonant X-ray emission spectroscopy	Maiko Nishibori	Tohoku University	Japan	Educational Organization	Chemical Science	10	BL27SU	Np
312	2024B1517	Observation of the metallic state in heavily boron-doped Q-carbon by means of soft-x-ray photoemission spectroscopy	Yuji Muraoka	Okayama University	Japan	Educational Organization	Materials Science and Engineering	9	BL25SU	Np
313	2024B1518	Correlation between kink- microstructure and L12 cluster distribution in dilute single-crystalline MgYZn alloys with concentration fluctuation examined by SWAXS tomography	Hiroshi Okuda	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL40XU	Np
314	2024B1519	4D-CT observation of graphite forming in ultra-pure Fe-C and Fe-C-Si melt with pure Mg and S.	Akira Sugiyama	Osaka Sangyo University	Japan	Educational Organization	Industrial Applications	9	BL20B2	Np
315	2024B1520	Rapid X-ray Structure Analysis of Microcrystalline Nanocarbons Containing Main Group Elements	Masahiro Hayakawa	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL40XU	Np
316	2024B1521	Electrical conductivity measurements of superionic H_2O using laser-heated diamond anvil cells	Koutaro Hikosaka	Institute of Science Tokyo	Japan	Educational Organization	Earth and Planetary Science	3	BL10XU	Np
317	2024B1522	Ultrafast PDF Analysis to Elucidate the Formation Mechanism of Complex Glasses during Mechanochemical Reactions	Hiroki Yamada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL08W	Np
318	2024B1524	Identification of Initiation and Early Growth of Small Internal Fatigue Cracks and Surrounding Crystalline Microstructure in Beta-Titanium Alloy by Synchrotron Radiation X-ray Multiscale CT and DCT	Gaoge Xue	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	9	BL20XU	Np
319	2024B1525	Interfacial crystallization of the oil phase in O/W emulsions and additive effects	Ken Taguchi	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	5.875	BL40B2	Np
320	2024B1526	Unveiling non-relativistic spin-split bulk band structure in a potential altermagnetic Weyl semimetal GdAlSi	Jadupati Nag	Pennsylvania State University	USA	Foreign	Materials Science and Engineering	9	BL25SU	Np
321	2024B1527*	Structure of intermediate oxide glasses with hyper local ordering	Hideki Hashimoto	Kogakuin University	Japan	Educational Organization	Materials Science and Engineering	6	BL04B2	Np
322	2024B1528	Quantification of magnetic nanoparticle motion in live rat airways II: Visualising behaviour under dynamic magnetic fields	Martin Donnelley	University of Adelaide / Women's and Children's Hospital	Australia	Foreign	Medical Applications	12	BL20XU	Np
323	2024B1529	Elucidation of fracture behavior of mesoscale structure-controlled dissimilar materials joints using synchrotron radiation microtomography	Tomoki Matsuda	Osaka University	Japan	Educational Organization	Materials Science and Engineering	6	BL20XU	Np
324	2024B1535	Swelling Behavior of Ionic Liquid Gel Electrolytes Based on Partially miscible Rubber Blends with High Strength and Toughness	Noboru Osaka	Okayama University of Science	Japan	Educational Organization	Materials Science and Engineering	3	BL40B2	Np
325	2024B1536	Superconductivity and topological quantum phase transitions in a higher-order topological insulator α-Bi4I4 under high pressure and low temperature	Jinlong Zhu	Southern University of Science and Technology	China	Foreign	Materials Science and Engineering	6	BL10XU	Np
326	2024B1537	Visualization of the 3D structure of a single aerosol liquid droplet by in situ X-ray scattering	Toshio Yamaguchi	Fukuoka University	Japan	Educational Organization	Environmental Science	9	BL37XU	Np
327	2024B1538	Investigation on formation mechanism of the herringbone packing structure with high charge carrier transport capability for bent-shaped organic semiconductors	Toshihiro Okamoto	Institute of Science Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL44B2	Np
328	2024B1540	time-resolved rheo-SAXS for dynamics of shear-thickening phenomena in colloidal suspensions	Keishi Akada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL40XU	Np

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329	2024B1541	Experimental investigation of the post-antigorite reaction in a peridotite capsule under conditions where IDEQs occur	Tomoaki Kubo	Kyushu University	Japan	Educational Organization	Earth and Planetary Science	8.25	BL04B1	Np
330	2024B1542	Structural Analysis of Assemblies Formed by Quaternary-Ammonium-Salt-Type Gemini Surfactants Containing Amino Acid in Counterion	Risa Kawai	Nara Women's University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
331	2024B1545	High-pressure phase transitions of alkaline earth metals by different experimental paths	Yuki Nakamoto	Osaka University	Japan	Educational Organization	Materials Science and Engineering	6	BL10XU	Np
332	2024B1547	Elucidation of pressure- and temperature-induced structural phase transitions in neutron-irradiated HOPG using a high-precision temperature measurement method without a thermocouple for in-situ high-pressure and high-temperature observation	Shinichi Honda	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	9	BL04B1	Np
333	2024B1548	Evaluation of bubble transportation efficiency in PEM water electrolysis cell by X-ray imaging	Kota Ando	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Chemical Science	6	BL28B2	Np
334	2024B1549	Possible multipole order in the cubic $5d^1$ electron system: X-ray magnetic circular dichroism study of single-crystalline Ba_2MgReO_6	Goro Shibata	Japan Atomic Energy Agency	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL39XU	Np
335	2024B1550	Amorphization of calcium carbonate occurs under high-pressure and high-temperature conditions?	Hiroyuki Kagi	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	12	BL04B1	Np
336	2024B1551	Mechanism of Gelation of Different Oil by Lipophilic Fatty Acid Polyglyceride as a Gelator	Naoya Torikai	Mie University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
337	2024B1552	XANES analysis for the In-flight glass to reveal its melting process: toward practical application of new glass materials	Kyoko Okada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL27SU	Np
338	2024B1554	The Synchrotron X-ray Scattering Study on the Toughness of Recycled Plastic towards CE.	Takahiko Kawai	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	3	BL05XU	Np
339	2024B1555	Structural analysis of mechano-responsive hydrogels exhibiting stretch-induced phase separation by small- and wide-angle X-ray scattering measurements	Akihide Sugawara	Osaka University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
340	2024B1556	Development of simultaneous measurement system for Compton scattering and XRD	Yuki Mizuno	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	5.875	BL08W	Np
341	2024B1558	Examination of Composition and Impurity Effects on Heat Carrier Behavior in Bulk Disordered Systems	Junichiro Shiomi	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	12	BL35XU	Np
342	2024B1561	Polarized microscopic vibrational spectroscopic experiments for the analysis of guest molecule in 1D channels of butterfly-shaped indanedione dimer crystal	Yumi Yakiyama	Osaka University	Japan	Educational Organization	Chemical Science	3	BL43IR	Np
343	2024B1565	Study on the structure of covalent organic framework (COF) thin films prepared through a solution deposition–polymerization approach	Mitsuharu Suzuki	Osaka University	Japan	Educational Organization	Chemical Science	6	BL19B2	Np
344	2024B1566	Elucidation of structural changes under oxidative/reductive conditions in high entropy nanopartilces/oxide using operando XAFS/XRD observations	Kohsuke Mori	Osaka University	Japan	Educational Organization	Materials Science and Engineering	6	BL01B1	Np
345	2024B1567	Thickness and structure of liquid crystal precursor films	Shingo Maruyama	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	6	BL19B2	Np
346	2024B1569	Time-Resolved XRD Measurements of CO2 Adsorption Behaviour of Inorganic Zeolites with Gate-Opening Flexibility	Shunsuke Tanaka	Kansai University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
347	2024B1571	Elucidation of active species of Ni-metal catalytic reactor catalyzing CO2 activation using AP-HAXPES observations under reaction conditions	Kohsuke Mori	Osaka University	Japan	Educational Organization	Chemical Science	6	BL46XU	Np
348	2024B1576	Magnetic Circular Polarized Luminescent Oligomeric Brush Chain Films of Rare Earth Complexes	Miki Hasegawa	Aoyama Gakuin University	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
349	2024B1577	Study on the effects of boron doping in oxide semiconductors	Mamoru Furuta	Kochi University of Technology	Japan	Educational Organization	Materials Science and Engineering	3	BL09XU	Np
350	2024B1579	Unveiling of charge transport properties in spinel LiMn1.95M0.05O4 (M = Mn, Ga or Al) at high temperatures	Satoko Abe	University of Shiga Prefecture	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
351	2024B1581	Electronic states analysis of single-atom distribution type alloy catalysts by hard X-ray photoelectron spectroscopy	Satoshi Kameoka	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	3	BL09XU	Np
352	2024B1582	Investigation of sequential transition from PLC banding to Lüders deformation through the stress-assisted static aging in high-Mn austenitic steel	SUK YOUNG HWANG	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
353	2024B1583	Development of automated hard X-ray photoelectron spectroscopy system in BL46XU part 3	Satoshi Yasuno	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL46XU	Np
354	2024B1584	Development of constant final state hard X-ray photoelectron spectroscopy	Satoshi Yasuno	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	15	BL46XU	Np
355	2024B1585	3D-ΔPDF study of short-range ordered structure of inorganic soft-viscous crystals	NAOYUKI KATAYAMA	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	8.875	BL02B1	Np
356	2024B1586	Measurement and analysis of active site microstructure on methanol synthesis catalysts using high-pressure in situ measurements	Shohei Tada	Hokkaido University	Japan	Educational Organization	Chemical Science	9	BL14B2	Np
357	2024B1588	A deep understanding of electrode surface chemistry in aqueous rechargeable batteries	Seongjae Ko	The University of Tokyo	Japan	Educational Organization	Chemical Science	15	BL46XU	Np
358	2024B1590	Electronic state of light-element-included Ge amorphous	Shogo Hatayama	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL09XU	Np

2024B, Performed General Proposals

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S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
359	2024B1592	Carbon dioxide reduction activity of atomically precise copper 14 nanoclusters and their geometrical effects	Tokuhisa Kawawaki	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	9	BL01B1	Np
360	2024B1594	GI-WAXS Analysis of Layered Covalent Organic Framework Films developed for a Positronium Adsorption Materials	Hikaru Takaya	TEIKYO University of Science	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
361	2024B1595	XAFS-DFT-based Investigation of Homogeneous Transition-Metal Catalysts for Ethylene Oligomerization	Hikaru Takaya	TEIKYO University of Science	Japan	Educational Organization	Industrial Applications	6	BL14B2	Np
362	2024B1596	Near-Infrared Light-Induced Spin-State Switching Based on Fe(II)-Hg(II) Spin-Crossover Network	Olaf Stefanczyk	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
363	2024B1597	Change in electronic and local structures of Mg1+x(V,Mn,Co)2-xO4 cathode material for magnesium rechargeable batteries during discharge/charge cycles	Yasushi Idemoto	Tokyo University of Science	Japan	Educational Organization	Industrial Applications	3	BL14B2	Np
364	2024B1599	Current-induced crystal structure analysis of vanadium dioxide	Shunsuke Kitou	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
365	2024B1600	Crystallographic analysis of metal complexes composed of π-extened moieties	Shinichiro Kawano	Nagoya University	Japan	Educational Organization	Chemical Science	6	BL02B1	Np
366	2024B1601	Temperature-dependent single-crystal X-ray diffuse scattering measurements and elucidation of mechanism for structural transitions of mixed-stack complexes	Tomoko Fujino	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	3	BL02B1	Np
367	2024B1602	Development of Palladium Carbide Nanoparticle Catalyst for Selective Hydrogenation of Nitrobenzene and Investigation of Their Structure-activity Relationship	Sho Yamaguchi	Osaka University	Japan	Educational Organization	Chemical Science	8	BL01B1	Np
368	2024B1604	CO2 adsorption mechanism of Al-based metal-organic frameworks under humid conditions	Takuya Kurihara	Kanazawa University	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
369	2024B1605	Structure analysis of novel ionic conductors by synchrotron X-ray powder diffraction	Kotaro Fujii	Institute of Science Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
370	2024B1606	Anomalous thermal expansion in TiNb-based alloys	Yanxu Wang	Chinese Academy of Sciences	China	Foreign	Materials Science and Engineering	6	BL13XU	Np
371	2024B1607	Investigation of synthesis conditions, crystal structure, and electrochemical performance of spinel Mg1+yV2-x-yNixO4 as cathode of magnesium secondary batteries	Yasushi Idemoto	Tokyo University of Science	Japan	Educational Organization	Industrial Applications	3	BL19B2	Np
372	2024B1608	X-ray-induced structural phase transition of spinel-type CuIr2S4	NAOYUKI KATAYAMA	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
373	2024B1610	In-situ structure observation of layered double hydroxides for nanosheet engineering	Chikako Moriyoshi	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
374	2024B1611	Crystal size dependence of structural phase transitions in lacunar spinel compounds	Shunsuke Kitou	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
375	2024B1613	Analysis of Nitric Oxide Reduction Reaction on Tree-Way Catalysts by XAFS, IR and MS Simultaneous Measurement	Hirona YAMAGISHI	CATALER Corporation.	Japan	Industry	Industrial Applications	9	BL01B1	Np
376	2024B1614	Investigations on Formation Mechanisms of Layered Oxide AxCoO2 (A = Li, Na, K) and Charge/discharge Mechanisms of AxIrO2 (A = Li, Na, K, Rb) as Positive Electrode Materials for Rechargeable Next-Generation Batteries by X-Ray Absorption Spectroscopy	Shinichi Komaba	Tokyo University of Science	Japan	Educational Organization	Chemical Science	9	BL14B2	Np
377	2024B1615	Investigations on Formation Reaction Rate of Layered Oxide KxCoO2 and Charge/discharge Mechanisms of AxIrO2 (A = Li, Na, K, Rb) as Positive Electrode Materials for Rechargeable Next-Generation Batteries Using Synchrotron X-Ray Diffraction	Shinichi Komaba	Tokyo University of Science	Japan	Educational Organization	Chemical Science	6	BL02B2	Np
378	2024B1616	Structural Analysis of Coordination Environment in Semiconductive Coordination Polymer Glass and Liquid Crystal Synthesized by Materials Informatics	Ryohei Akiyoshi	Kwansei Gakuin University	Japan	Educational Organization	Chemical Science	3	BL01B1	Np
379	2024B1617	Crystal Structure Determination and Phase transition Evaluation of Sulfur-Coordinated Semiconductive Coordination Polymer with Flexible Structure	Ryohei Akiyoshi	Kwansei Gakuin University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
380	2024B1620	Construction and Structure Analyses of Highly Ion-Conductive Inorganic Cluster-Surfactant Hybrid Crystals	Takeru Ito	Tokai University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
381	2024B1621	Studies on flexible and photoresponsive Metal-Organic Frameworks	Hoi Moon	Ewha Womans University	Korea	Foreign	Materials Science and Engineering	3	BL02B1	Np
382	2024B1622	Structure Determination and Melting-behavior Observation of Halogen-based Semiconductive MOFs Synthesized by High Throughput Screening Synthesis	Daisuke Tanaka	Kwansei Gakuin University	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
383	2024B1623	Consideration of Distribution of Atom Position in Bulk SiGe by X-ray Diffraction with Synchrotron Radiation	Ryo Yokogawa	Meiji University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B1	Np
384	2024B1624	Size Induced sliding ferroelectricity in nanoparticle	Xing Xianran	University of Science and Technology Beijing	China	Foreign	Materials Science and Engineering	3	BL01B1	Np
385	2024B1626	Determination of relative sensitivity factor for quantitative analysis of Pt-based catalysts for PEFC by HAXPES	Mayeesha Marium	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL09XU	Np
386	2024B1627	Depth-resolved HAXPES analysis of thermal degradation of oxide semiconductor thin-film transistors for memory devices	Tetsuya Miyazawa	Kobe Steel, Ltd.	Japan	Industry	Industrial Applications	6	BL09XU	Np
387	2024B1628	New design ABC(MoO4)3 compounds with enhanced negative thermal expansion	Qilong Gao	Zhengzhou University	China	Foreign	Chemical Science	3	BL02B2	Np
388	2024B1630	Electronic and local structure analysis of coating materials on cathodes for all-solid-state lithium-ion batteries under high potential	Kentaro Yamamoto	Nara Women's University	Japan	Educational Organization	Chemical Science	6	BL14B2	Np

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389	2024B1631	Structure analysis of metal-doped hexagonal perovskite oxide catalysts for aerobic oxidation of sulfide by XAFS	Keiju Wachi	Institute of Science Tokyo	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
390	2024B1634	Investigation of fine-structure of PGM loaded CeO2-based complex oxides on the oxygen storage/release dynamics by in-situ EXAFS.	Tomohisa Mizuno	CATALER Corporation.	Japan	Industry	Chemical Science	6	BL14B2	Np
391	2024B1635	Study on the relationship between the higher-order structure of porphyrans and the hardness of laver by ultra-small angle scattering	Ichiro Hirosawa	Saga Industrial Promotion Organization	Japan	National and Nonprofit Organization	Industrial Applications	2	BL19B2	Np
392	2024B1637	Depth-dependent carrier distribution in a BiS2-based superconductor CeOBiS2-xSex probed by Hard X-ray photoemission spectroscopy	Kento Ishigaki	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	3	BL09XU	Np
393	2024B1638	Observation of structural change on porous coordination polymers with interdigitated structure in the early stage of gas adsorption process	Yoshiki Kubota	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
394	2024B1639	Studies on the Structure-Properties Relationship in Carboxylate-Based Metal-Organic Framework Liquids and Glasses	Hoi Moon	Ewha Womans University	Korea	Foreign	Chemical Science	3	BL13XU	Np
395	2024B1641	Identification of the Dynamic Evolution and Catalytic Reaction Sites in Multi-Elemental Alloy Nanoparticles during NO3RR	Dongshuang Wu	Nanyang Technological University	Singapore	Foreign	Chemical Science	9	BL46XU	Np
396	2024B1643	Selective observation of 5d valence electrons on Pt-based materials investigated by using resonant HAXPES	Akira Yasui	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL09XU	Np
397	2024B1644	Structural determination of a Sulfide or Sulfate templated Silver Nanoclusters covered by thiourea and t-butylthiolate	Zi Lang Goo	Kindai University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
398	2024B1646	Measurement of effect of hydrogen on change in disloacation density with tensile deformation in hydrogen-filled stainless steel using in-situ X-ray diffraction tensile test No.4 Lowtemperature tensile test	Shiro Torizuka	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
399	2024B1647	Effect of operational voltage on oxygen vacancy generation and mobility in hafnia-based ferroelectric capacitors	Nicholas Barrett	CEA Paris-Saclay	France	Foreign	Materials Science and Engineering	14.875	BL09XU	Np
400	2024B1649	Electronic structure of double-perovskite-type oxides Sr2MMoO6 (M=Cr, Co) probed by hard x-ray photoemission spectroscopy	Tomohiko Saitoh	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	3	BL09XU	Np
401	2024B1650	in-situ XAFS measurements of electrocatalysts for hydrogenation of nonreducible chemicals using solid-polymer-electrolyte electrolysis	Shoji Iguchi	Kyoto University	Japan	Educational Organization	Chemical Science	9	BL14B2	Np
402	2024B1651	In situ nanobeam X-ray analysis of combined piezoelectric and thermal strain response in nitride-based HEMT under operating bias condition	Tetsuya Tohei	Osaka University	Japan	Educational Organization	Materials Science and Engineering	15	BL13XU	Np
403	2024B1653	Phase transformation of dynamic square metal-organic polygons	Javier Lopez	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	5.875	BL02B2	Np
404	2024B1654	“Chiral Luminescent Chromism” of a series of Transition Metal and Lanthanoid Multinuclear Complexes	Kazuma Takahara	University of Hyogo	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
405	2024B1655	Structural characterization of solution-processed IGZO thin films using GIXS method	Seiya Shimono	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL19B2	Np
406	2024B1657	Operando investigation of the resistive switching mechanism in flexible porous-coordination-polymer-based chemiresistor and memristor	Ken-ichi Otake	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	8.875	BL19B2	Np
407	2024B1658	Hydrogen insertion processes revealed by X-ray absorption spectroscopy	Daisuke Kan	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL14B2	Np
408	2024B1659	Operando measurement of electrolysis reaction of iridium catalysts by atmospheric pressure photoelectron spectroscopy	Yasumasa Takagi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL46XU	Np
409	2024B1662	Resolving the structural change of CsPbBr3 at low temperature via high energy x-ray structure analyzing system	Hao Ma	University of Science and Technology of China	China	Foreign	Materials Science and Engineering	3	BL02B1	Np
410	2024B1664	Studies on Charge/discharge Mechanisms of Potassium Silicate K2MeSiO4 (Me=Co, Mn, Fe) as Positive Electrode Materials for Rechargeable Potassium-Ion Batteries by X-Ray Absorption Spectroscopy	Shinichi Komaba	Tokyo University of Science	Japan	Educational Organization	Chemical Science	3	BL14B2	Np
411	2024B1666	Operando XAFS investigation of the synergetic effect between Ir and Mn in Ir-doped MnO2 electrocatalyst during electrolysis under industrial working conditions with ultra-high current density	Kiyohiro Adachi	RIKEN	Japan	National and Nonprofit Organization	Chemical Science	9	BL14B2	Np
412	2024B1667	Visualization of average and local structures of organic-inorganic hybrid materials containing 3d transition metal using Rietveld and PDF analysis	Seiya Shimono	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL02B2	Np
413	2024B1668	Study on Charge flexibility of hydrogen in hydride ion conducting materials using Hard X-ray Photoelectron Spectroscopy.	Genki Kobayashi	RIKEN	Japan	National and Nonprofit Organization	Materials Science and Engineering	5.875	BL46XU	Np
414	2024B1669	In operando XAFS observation of Alkaline metal promoter state for highly active hydrogenation catalysts	Fuminao Kishimoto	The University of Tokyo	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
415	2024B1670	Structural analysis and observation on the formation process of a new anion-deficient perovskite BiNi1-xMxO2.8: II	Takumi Nishikubo	Kanagawa Institute of Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL13XU	Np
416	2024B1671	Observation of rust reduction process under electrochemical reaction by time-resolved in situ XRD measurement using spiral slits	Tomotaka Nakatani	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Industrial Applications	6	BL19B2	Np
417	2024B1672	Investigating the relationship between crystal structure and thermoelectric conversion properties in multi-element doped high-performance p-type half-Heusler compounds	Hidetoshi Miyazaki	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
418	2024B1673	Atmospheric pressure photoelectron spectroscopy to measure the operando of photocatalysis under water vapor in photocatalytic materials for POME degradation.	Hidetoshi Miyazaki	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL46XU	Np

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419	2024B1674	Mechanisms of CO2 oxidation tolerance during CO2 electrolysis in the solid oxide cell with operando XRD analysis	Hirotatsu Watanabe	Ritsumeikan University	Japan	Educational Organization	Materials Science and Engineering	6	BL19B2	Np
420	2024B1676	Nitrate reduction reaction dynamics of PtCoCu alloy electrocatalyst	Feng Wang	University College London	UK	Foreign	Chemical Science	12	BL01B1	Np
421	2024B1680	In-situ observation of field-induced structural phase transition in Ce-doped HfO_2	Kazuki Okamoto	Institute of Science Tokyo	Japan	Educational Organization	Materials Science and Engineering	12	BL13XU	Np
422	2024B1682	Structural analysis of ultra-small multi-element oxide nanoparticles and analysis of reaction mechanism for oxygen evolution catalyst	Kazuyuki Iwase	Tohoku University	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
423	2024B1683	Direct observation of the effect of Frenkel Defects in Amorphous Oxide Thin Films on TFT Device Stability	Junghwan Kim	Ulsan National Institute of Science and Technology	Korea	Foreign	Materials Science and Engineering	6	BL09XU	Np
424	2024B1684	Analysis of local structure of hazardous metal adsorbents by XAFS (4)	Masaru ENDO	Daicel Corporation	Japan	Industry	Industrial Applications	3	BL14B2	Np
425	2024B1687	Investigation of structure property of spin cross over complex	Kunihisa Sugimoto	Kindai University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
426	2024B1688	Analysis for Controlled Reduction of alpha-Fe2O3 in glass by two alkaline earth elements during heating	Kyoko Okada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL19B2	Np
427	2024B1689	Clarification of the adsorption and separation mechanisms in porous coordination polymers with oxygen separation properties	Ken-ichi Otake	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
428	2024B1690	Observation of elastic-plastic deformation behavior of metallic materials with controlled dense lattice defects by in-situ X-ray diffraction during deformation	Yuki Ishii	Toyohashi University of Technology	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
429	2024B1691	Dynamic behavior of crystal structure under oxygen absorption and desorption processes in layered manganese oxides with oxygen storage property	Hiroki Ishibashi	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
430	2024B1692	Powder structure analyses of high-performance organic semiconductors toward comprehensive understanding of their diverse aggregated structures: Investigation on co-crystallization behavior of BQQDI derivatives with different substituents	Toshihiro Okamoto	Institute of Science Tokyo	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
431	2024B1693	Revealing reaction pathways in synthesis of fluorine-containing compounds using in-situ synchrotron X-ray diffraction	Yoshiyuki Inaguma	Gakushuin University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
432	2024B1694	Operando XAS/Theoretical Analysis of Bimetallic Water Splitting Catalysts Activated by Electrolyte Anion Adsorption	Masaaki Yoshida	Yamaguchi University	Japan	Educational Organization	Chemical Science	9	BL01B1	Np
433	2024B1695	Investigation of AlN/GaN interface structure at the bottom and side walls of trench structure by HAXPES	Hiroshi Nohira	Tokyo City University	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np
434	2024B1696	Clarification of the adsorption and separation mechanisms in porous coordination polymers with oxygen separation properties via in situ SCXRD	Ken-ichi Otake	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
435	2024B1697	Elucidation of the factor influencing the large grain size of organic-inorganic perovskite crystals	Naoyuki Shibayama	Toin University of Yokohama	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
436	2024B1699	Structural analysis of amorphous materials from nano to meso scale: an approach based on X-ray small angle scattering	Hirokazu Masai	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	1	BL19B2	Np
437	2024B1702	Investigation of doping effect for local structure and catalysis of SrTiO3 by XAFS measurements	Takeshi Aihara	Institute of Science Tokyo	Japan	Educational Organization	Chemical Science	5.875	BL01B1	Np
438	2024B1807	Large Negative Thermal Expansion and Related Mechanism in PbTiO3-BiMeO3-Based Ferroelectrics with Enhanced Tetragonality	Zhao Pan	Chinese Academy of Sciences	China	Foreign	Materials Science and Engineering	6	BL02B2	Np
439	2024B1812	Observation of W-type ferrite formation process at low oxygen pressure using in-situ XRD	Takeshi Waki	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
440	2024B1813	Diffuse scattering and dynamic local structure distortion of all-inorganic lead-free halide perovskites Cs3Bi2X9	Jiawei Zhang	Chinese Academy of Sciences	China	Foreign	Materials Science and Engineering	8.875	BL02B1	Np
441	2024B1814	Operando Observation of the Electronic State for Elucidation of the Solid-gas and Solid-Liquid Interfacial Phenomena using HAXPES with Ambient Pressure Cell	Eiji Ikenaga	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	18	BL09XU	Np
442	2024B1815	Low-temperature synthesis and crystalline structure of two-dimensional layered crystals	Takashi Uchino	Kobe University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
443	2024B1816	Investigation of recoil effect for standardization of HAXPES with ultra-deep detection depth using high-energy X-rays II.	Tappei Nishihara	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL46XU	Np
444	2024B1820	Structure analysis of ionomers embedding colloidal crystals	Naoto Iwata	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	4	BL19B2	Np
445	2024B1821	X-Ray Absorption Fine Structure Spectroscopy Study on Local Structure of Carbon Nitride-Supported Single-Atom Catalysts	Hiroya Ishikawa	Laboratoire de Chimie de Coordination, Centre National de la Recherche Scientifique	France	Foreign	Chemical Science	6	BL14B2	Np
446	2024B1824	Formation and crystallographic analysis of highly-ordered p-n heterojunctions of epitaxial molecular semiconductors on solution-grown organic semiconductor crystals	Yasuo Nakayama	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	12	BL19B2	Np
447	2024B1825	Structural studies of ferroelectric transitions in (NaR)MnMnTi4O12 and charge-order transitions in R2CuZnMn4O12.	Alexei Belik	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL02B2	Np
448	2024B1826	Mechanism of synergy effect of 3d-transition metal elements doped $Bi_2Ru_2O_7$ for oxygen evolution catalyst	Hidenobu Murata	Japan Fine Ceramics Center	Japan	National and Nonprofit Organization	Chemical Science	3	BL01B1	Np

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449	2024B1827	Mechanism of Fouling Material Deposition in Heat Exchangers and Non-Uniformity of Mixing in Coprocessing Based on the Stable Energy Supply Development Project	Takeshi Morita	Chiba University	Japan	Educational Organization	Industrial Applications	6	BL19B2	Np
450	2024B1829	Development of multimodal X-ray technique of HAXPES and GI-XRD under reaction conditions	Okkyun Seo	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL46XU	Np
451	2024B1830	Structural analysis of oxide glasses containing intermediate network forming oxides using small-angle X-ray scattering	Hirokazu Masai	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	1	BL19B2	Np
452	2024B1831	Surface film analysis of lithium metal secondary battery using hard X-ray photoelectron spectroscopy	Yuki Orikasa	Ritsumeikan University	Japan	Educational Organization	Chemical Science	9	BL46XU	Np
453	2024B1834	Investigation of structural origin of high ionic conductivity in novel ionic conductors	Kotaro Fujii	Institute of Science Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
454	2024B1836	Measurement of the interaction between proton-conducting polymers and water molecules using atmosphere-controlled photoelectron spectroscopy	Naoya Kurahashi	National Institutes of Natural Sciences	Japan	National and Nonprofit Organization	Chemical Science	9	BL46XU	Np
455	2024B1839	Search for charge order in a Kagome metal	Maximilian Hirschberger	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	3	BL02B1	Np
456	2024B1841	Trial of crystal structure analysis of porous coordination polymers with gas adsorption using single-shot powder diffraction data	Yoshiki Kubota	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
457	2024B1842	Structural analysis on p-orbital charge density wave compound EuTe4	Akitoshi Nakano	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	9	BL02B1	Np
458	2024B1843	Quantitative Analysis on Element–Structure–Property Relationship of Multi-Element Alloy Nanocatalysts based on XANES	Hiroshi Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL01B1	Np
459	2024B1844	Observation of the transformation process of atomic arrangement on amorphous nanoparticles with in-situ X-ray diffraction	Hiroshi Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
460	2024B1845*	Variation of crystal structure and dielectric properties with cation order/disorder in layered perovskite oxides	Koji Fujita	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
461	2024B1846	Structural analysis of Co catalysts in the electrosynthesis of pure H2O2 aqueous solution from water and oxygen	Masanori Yamamoto	Institute of Science Tokyo	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
462	2024B1848	Elucidation of thermal structural phase transitions of single crystals formed by polarized unsymmetrical dithiolene metal complexes as components for molecular electronic materials	Kazuya Kubo	University of Hyogo	Japan	Educational Organization	Chemical Science	9	BL02B1	Np
463	2024B1849	Structure analysis and ferroelectric phase transition study of SrTiO3 with O18 isotope substituted	Mingyang Shao	National Institutes for Quantum Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL02B2	Np
464	2024B1851	Tensile deformation analyses of lightly cross-linked polymer blend adhesives with nano-micelle structures	Hajime Kishi	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	6	BL19B2	Np
465	2024B1854	Development of chiral tetracoordinate boron-embedded non-planar polyaromatic aromatic hydrocarbons	Tatsuya Mori	Nagoya University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
466	2024B1856	The role of local disorder for the structural quantum criticality and in (Sr1-xCax)3Rh4Sn13 Superconductors	Jens Stellhorn	Shimane University	Japan	Educational Organization	Materials Science and Engineering	3	BL01B1	Np
467	2024B1857	Tracing the molybdenum suboxide carbonization process during high-temperature reverse water-gas shift reaction using Operando XAFS and XRD	Yasutaka Kuwahara	Osaka University	Japan	Educational Organization	Chemical Science	9	BL01B1	Np
468	2024B1858	Quantum Crystallography of Mo3S4 and Mo3S7 trinuclear complex coordinated by thiourea ligands	Zi Lang Goo	Kindai University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
469	2024B1860	Structural characterization for active site clarification of CO2 electroreduction catalysts by in situ X-ray diffraction	Tsutomu Minegishi	The University of Tokyo	Japan	Educational Organization	Chemical Science	6	BL16XU-P	Np
470	2024B1861	Precise Control of Au Cluster Size on CeO2 for Investigating CO Oxidation Mechanism	Shinya Masuda	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	5.125	BL14B2	Np
471	2024B1866	Operando Structural Analyses of Ni Alloy Oxygen Evolution Catalysts Prepared by Aqueous Solution Process	Hiro Minamimoto	Kobe University	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
472	2024B1867	Investigation of Reaction Mechanism for simultaneous removal of NO-N2O-CH4-NH3 using Fe-beta zeolite catalyst	Shunsaku Yasumura	The University of Tokyo	Japan	Educational Organization	Industrial Applications	9	BL01B1	Np
473	2024B1868	Fine Structural Analysis of Organic–Molecular Metal Oxide Hybrids Linked via Nitrogen-Containing Heterocycles	Kosuke Suzuki	The University of Tokyo	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
474	2024B1870	Investigation of the Effect of Activated Li3VO4 Anode on the Electrochemical Performances for Mg Ion Batteries	Katsuhiko Naoi	Tokyo University of Agriculture and Technology	Japan	Educational Organization	Chemical Science	9	BL01B1	Np
475	2024B1871	Probing the Origin of Hydration and Mechanism of Determination of Hydration Volume in Proton-Conducting Oxides: Innovative Photoemission Spectroscopy by AP-HAXPES Enabling Atmospheric Gas Control	Takaya Fujisaki	Shimane University	Japan	Educational Organization	Materials Science and Engineering	6	BL46XU	Np
476	2024B1872	Elucidation of carrier generation mechanism by hydrogen-related defects in amorphous oxide semiconductor thin films.	Masatake Tsuji	Institute of Science Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np
477	2024B1873	HAXPES analysis of interface of heat-assisted-plasma-treated fluoropolymers and copper thin films without atmospheric exposure	Yuji Ohkubo	Osaka University	Japan	Educational Organization	Industrial Applications	6	BL09XU	Np
478	2024B1874	Correlation between oxidation state and catalytic activity in heterogeneous transition metals catalytic reactions by in-situ XAFS measurements	Kazuhiko Maeda	Institute of Science Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL14B2	Np

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479	2024B1879	Structures and catalytic properties of metal nanocluster encapsulated within molecular metal oxides	Kosuke Suzuki	The University of Tokyo	Japan	Educational Organization	Chemical Science	9	BL01B1	Np
480	2024B1881	Operando XAS observation of NiMo electrocatalysts for water electrolysis using high negative potential electrodeposition.	Takahiro Naito	Nagoya University	Japan	Educational Organization	Chemical Science	3	BL01B1	Np
481	2024B1883	Investigation of surface oxide film of Mg-X binary alloy using in-situ grazing incidence X-ray diffraction	Shinichi Inoue	Kumamoto University	Japan	Educational Organization	Materials Science and Engineering	7.75	BL19B2	Np
482	2024B1885	Structural investigation of the solid-solution RuM (M=Ni, Co, Cu, and Fe) nanoparticles by powder X-ray diffraction	Okkyun Seo	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL19B2	Np
483	2024B1887	XAFS measurement and analysis to understand the trapping mechanism for the development of selective extractants for Pd(II) and Au(III) in solution	Kozo Shinoda	Tohoku University	Japan	Educational Organization	Industrial Applications	6	BL14B2	Np
484	2024B1889	Enhanced negative thermal expansion in β-Cu2V2-yPyO7 over a wide temperature range	Qilong Gao	Zhengzhou University	China	Foreign	Chemical Science	6	BL02B2	Np
485	2024B1892	XAFS study on the battery reaction mechanism of the cathode for novel calcium-ion batteries with redox-active two-dimensional layered metal-organic frameworks	Katsuhiro Wakamatsu	Kwansei Gakuin University	Japan	Educational Organization	Chemical Science	9	BL14B2	Np
486	2024B1893	Unveiling the self-assembling structures of polymer-tethered metal-organic polyhedra in their liquid state	Zaoming Wang	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	1	BL19B2	Np
487	2024B1894	Structure determination of copper sulfide thermoelectrics including twining.	Eiji Nishibori	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	3	BL02B1	Np
488	2024B1895	Investigate Negative thermal expansion mechanism in a new system RE2ZrMo5O20 (RE=Tb-Lu, Y)	Qilong Gao	Zhengzhou University	China	Foreign	Chemical Science	6	BL02B2	Np
489	2024B1899	High-resolution polarization-dependent hard x-ray photoemission study of Al-Pd-Ru quasicrystals for examining the pseudo-gap and disorder	Akira Sekiyama	Osaka University	Japan	Educational Organization	Materials Science and Engineering	12	BL09XU	Np
490	2024B1901	Observation of Inhomogeneous Deformation Behavior of Heavy Cold-Worked Metallic Materials by In-situ X-ray Diffraction during Tensile Deformation	Yuki Ishii	Toyohashi University of Technology	Japan	Educational Organization	Materials Science and Engineering	3	BL16XU-P	Np
491	2024B1904	X-ray absorption spectrum analysis of ZrO2 and fifth oxide doped ternary silicate glasses using a high-throughput micro-melting system	Tetsuo Kishi	Institute of Science Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL14B2	Np
492	2024B1905	Chemical state of iron, zinc, and lead in aerosols using XAFS techniques	Yoshio Takahashi	The University of Tokyo	Japan	Educational Organization	Environmental Science	3	BL01B1	Np
493	2024B1906	Effect of electrolyte cations on the reduction process of Pt oxide on Pt electrodes	Masashi Nakamura	Chiba University	Japan	Educational Organization	Chemical Science	12	BL13XU	Np
494	2024B1907	Elucidation of exclusive CO2 sorption behavior of flexible porous coordination polymers	Ken-ichi Otake	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
495	2024B1908*	Complementary use of neutron and x-ray reflectivity and hard x-ray photoelectron spectroscopy to trace nanoscale structural changes on silicone thin film surfaces	Eri Ito	Menicon Co., Ltd.	Japan	Industry	Industrial Applications	6	BL46XU	Np
496	2024B1909	Temperature dependence of spin-polarized electronic structures probed by magnetic circular dichroism in core-level hard x-ray photoemission in halfmetallic Heusler alloys	Hidenori Fujiwara	Osaka University	Japan	Educational Organization	Materials Science and Engineering	15	BL09XU	Np
497	2024B1910	Studies on the structural evolution and mechanism of cobalt phosphosulphide with anion composition	Vidhya Lalan	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
498	2024B1915	Study of Charge Compensation Mechanisms in Uranium and Thorium Doped Ionic Crystals	Sayuri Takatori	Okayama University	Japan	Educational Organization	Elementary Particles, Nuclear Science	6	BL14B2	Np
499	2024B1916	Investigation of degradation of mixed halide perovskite crystals during simultaneous exposure to water and light	Naoyuki Shibayama	Toin University of Yokohama	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
500	2024B1917	Evaluation for domain structure in BiS2-based chalcogenides	Satoshi Demura	Nihon University	Japan	Educational Organization	Materials Science and Engineering	8.875	BL02B1	Np
501	2024B1918	Analysis for glass-base of soda-lime glass during heating	Kyoko Okada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	4	BL19B2	Np
502	2024B1920	Structural refinement of Dimer-of-Dimers-type tetranuclear rhodium complexes for highly efficient hydrogen evolution	Yusuke Kataoka	Shimane University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
503	2024B1921	Direct Observation of Electronic States in Electron-Doped Co-Based Heusler Compounds by Hard X-ray Photoemission Spectroscopy to Elucidate the Mechanism of Anomalous Nernst Effect Performance Enhancement	Hidetoshi Miyazaki	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL46XU	Np
504	2024B1922	In-situ analysis of initial stage in organic thin film growth by grazing incidence X-ray diffraction	Ryosuke Matsubara	Shizuoka University	Japan	Educational Organization	Materials Science and Engineering	9	BL19B2	Np
505	2024B1923	Analysis of electron density distribution around hydride in perovskite-type transition metal oxyhydrides	Yuki Sasahara	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL02B2	Np
506	2024B1924	Correlation between Secondary Phases Generation, Thermodynamic calculation, and Magnetic Properties of C-doped Nd-Fe-B Sintered Magnets during Post-sinter Annealing Process	Keisuke Ishigami	Tohoku University	Japan	Educational Organization	Industrial Applications	9	BL02B2	Np
507	2024B1925	Solvent-Driven Assembly of Amphiphilic Charged π-Electronic Systems	Yohei Haketa	Ritsumeikan University	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
508	2024B1926	Structural analysis of mechano-responsive hydrogels exhibiting stretch-induced phase separation by ultra-small angle X-ray scattering measurements	Akihide Sugawara	Osaka University	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np

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509	2024B1950	Investigating Structural Changes in Bent Organic Crystals with Synchrotron FTIR Microspectroscopy	Ejaz Ahmed	New York University Abu Dhabi	UAE	Foreign	Materials Science and Engineering	6	BL43IR	Np
510	2024B1951	Visualization study of damage state in human hair subjected to various treatments	Yuki Utsuki	Mandom Corporation	Japan	Industry	Life Science	3	BL43IR	Np
511	2024B1952	Material analysis to discuss the provenance of the stone statue found in the area where underground Christians were being exiled: Comparative analysis among pyrophyllite used as base material for the stone statue and pyrophyllite samples mined from deposits (Mitsuishi area, Okayama prefecture and Goto area, Nagasaki prefecture) in Japan	Sumiaki Nakano	Shitennoji University	Japan	Educational Organization	Other	3	BL27SU	Np
512	2024B1954	Development of depth-resolved XAS analysis framework and its application to lithium battery electrode	Masako Suzuki	Gunma University	Japan	Educational Organization	Materials Science and Engineering	7	BL27SU	Np
513	2024B1955	Characterization of optical spectra in nonlinear organic crystals by using microspectroscopy from far-infrared to near-infrared regions	Noriaki Kida	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL43IR	Np
514	2024B1956	In-situ chemical state analysis of carbon-based tribofilms by installing a tribometer in the beamline	Tomoko Hirayama	Kyoto University	Japan	Educational Organization	Industrial Applications	8.625	BL27SU	Np
515	2024B1957	X-ray absorption spectroscopy on transition metal L edge for thermoelectric material Al-Pd-Ru quasicrystals	Hidenori Fujiwara	Osaka University	Japan	Educational Organization	Materials Science and Engineering	6	BL27SU	Np
516	2024B1960	Study on the electronic structure of oxygen in Fe-based oxide cathode for all-solid-state fluoride-ions batteries by resonant inelastic X-ray scattering	Kentaro Yamamoto	Nara Women's University	Japan	Educational Organization	Chemical Science	9	BL27SU	Np
517	2024B1962	Microscopic FTIR analysis of spatial distribution and state of water molecules in White and Black Smoker Chimney collected from deep sea-2	Kiyohiro Adachi	RIKEN	Japan	National and Nonprofit Organization	Earth and Planetary Science	12	BL43IR	Np
518	2024B1963	Infrared study of f-electron states in valence transition material EuPd2Si2 at high pressures	Hidekazu Okamura	Tokushima University	Japan	Educational Organization	Materials Science and Engineering	6	BL43IR	Np
519	2024B1999	Operando XAS study for the structure revolution of CeZr-Cu catalyst during methanol-water reforming (メタノール-水改質反応中の CeZr-Cu 触媒の構造変化に関する Operando XAS 研究)	Ding Ma	Peking University	China	Foreign	Chemical Science	15	BL01B1	Np
520	2024B2001	Observation of a redox reaction on the LaSr3Fe3O10-d by using in-situ XRD measurements	Takafumi Yamamoto	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL13XU	Np
521	2024B2003	Structural Elucidation of low-valent active Ru species catalyzing CO2 activation at low temperatures using operando XAFS observations	Kohsuke Mori	Osaka University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
522	2024B2006	BioHAXPES trial of for a functional metal ion in protein II	Toyohiko Kinoshita	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Life Science	8.375	BL46XU	Np
523	2024B2007	Structural study of ReSTe and NbSeI, thermoelectric material candidates	Keita Kojima	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
524	2024B2008	Development of hard X-ray photoelectron spectroscopy excited by photo energy of 40 keV	Satoshi Yasuno	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL46XU	Np
525	2024B2010	Search for 3Q charge density wave order in novel Kagome metals	Maximilian Hirschberger	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
526	2024B2011	Single crystal X-ray diffraction study of domain-controlled low-temperature synthesized magnetite	NAOYUKI KATAYAMA	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	9	BL02B1	Np
527	2024B2012	In situ X-ray absorption spectroscopy of cobalt-dithiolene complexes as nitrous oxide reduction electrocatalysts	Masaru Kato	Hokkaido University	Japan	Educational Organization	Chemical Science	9	BL14B2	Np
528	2024B2014	Crystal structure determination of alkyl-containing semiconductive MOF synthesized based on materials informatics	Daisuke Tanaka	Kwansei Gakuin University	Japan	Educational Organization	Chemical Science	2.625	BL02B1	Np
529	2024B2017	Direct observation of valence electron density distribution in B20-type chiral crystals via core differential fourier synthesis method and elucidation of the origin of their chiral phenomena	Naoya Kanazawa	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	3	BL02B1	Np
530	2024B2018	A deep understanding of electrode surface chemistry in aqueous rechargeable batteries	Seongjae Ko	The University of Tokyo	Japan	Educational Organization	Chemical Science	11.25	BL46XU	Np
531	2024B2020	Time-resolved analysis on spontaneous strain introduction during initial crystallization process in rapid-quenched soft-magnetic amorphous ribbons	Satoshi Okamoto	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
532	2024B2022	Operando XANES-TPR study on the redox behaviors of multinary oxide catalysts	Shinya Furukawa	Osaka University	Japan	Educational Organization	Chemical Science	9	BL01B1	Np
533	2024B2023	Establishment of a method for measuring insulators using atmospheric pressure HAXPES II	Tappei Nishihara	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL46XU	Np
534	2024B2024	Evaluation of X-ray flux dependence for interpretation of bias applied HAXPES on MOS structure sample	Tappei Nishihara	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL09XU	Np
535	2024B2025	Total scattering study of mixed-linker topologically aperiodic metal-organic frameworks.	Emily Meekel	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
536	2024B2026	Crystal Structures and Phase Transitions of Sodium-Niobate Based Perovskite Antiferroelectrics	Hirofumi Akamatsu	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
537	2024B2028	Structural Characterization on Metastable phases and amorphous Si phase of noble joint material Ag–Si alloy	Masahiko Nishijima	Osaka University	Japan	Educational Organization	Materials Science and Engineering	2	BL19B2	Np

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538	2024B2032	Ce 4f-5d Coulomb repulsion Ufd for $CePd_2Si_2$ and $CeNi_2Si_2$ by Ce L_3 resonant hard x-ray photoemission spectroscopy: verification of universality of Ufd in quantum critical phenomena	Kojiro Mimura	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	9	BL09XU	Np
539	2024B2033	Elucidating the Thermoresponsive Behavior of Metal-Organic Frameworks Incorporating Flexible Medium-Sized Ring Ligands	Junichi Usuba	Nagoya University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
540	2024B2034	Study on crystallization mechanism of tartar in wine by in-situ measurements of synchrotron XRD and electric conductivity	Takahiro Takei	University of Yamanashi	Japan	Educational Organization	Chemical Science	6	BL19B2	Np
541	2024B2036	Structure Determination and Phase-Transition-Behavior Observation of Liquid-Crystalline Semiconductive MOFs Synthesized by High-Throughput Screening Synthesis	Daisuke Tanaka	Kwansei Gakuin University	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
542	2024B2038	In situ vapor sorption on dynamic molecular tessellations	Javier Lopez	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	5.625	BL02B2	Np
543	2024B2039	Structural analysis of human skin stratum corneum under surfactant action by small-angle and wide-angle X-ray scattering measurements	Aika Kishimoto	Milbon Co., Ltd.	Japan	Industry	Industrial Applications	3	BL19B2	Np
544	2024B2040	Evaluation of X-ray induced structural phase transition in CuIr2S4 using the difference PDF method	NAOYUKI KATAYAMA	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	9	BL02B1	Np
545	2024B2041	Elucidation of nano-micro phase separated hierarchical structures in phosphonium salt-type ionic liquid/aqueous systems at their LCST phase transition by temperature change time-resolved observation - II	Takahiro Ichikawa	Tokyo University of Agriculture and Technology	Japan	Educational Organization	Materials Science and Engineering	4	BL19B2	Np
546	2024B2043	Operando measurement of Ag loaded Ga2O3 photocatalysts under CO2 gas and water vapor by atmospheric pressure photoelectron spectroscopy	Tomoko Yoshida	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	3	BL46XU	Np
547	2024B2045	Evaluation of toughening mechanisms of natural rubber/algae biomass by synchrotron X-ray analysis	Hiromitsu Sogawa	Kansai University	Japan	Educational Organization	Chemical Science	3	BL19B2	Np
548	2024B2047	Investigation on the mechanism of triclinic-triclinic phase transition in titanite-type oxide PbTiGeO5 and the sequential phase transitions in related solid-solutions (Pb,Ca)TiGeO5	Tarou Kuwano	Institute of Science Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
549	2024B2053	Hydrogen chemical potential across oxide heterostructures probed by X-ray absorption spectroscopy	Daisuke Kan	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL14B2	Np
550	2024B2054	Elucidation of a structural change from amorphous PdSx to hcp-type PdCy nanoparticles	Kenshi Matsumoto	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
551	2024B2055	Operand observation of Platinum-Group-Metal High-Entropy Alloy (PGM-HEA) Nanoparticles showing catalytic activity for hydrogen evolution reaction by XAFS Ⅳ	Hiroshi Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL01B1	Np
552	2024B2058	Observation and Crystal Structure Analysis of Phase Transitions in Ternary FeRhRu Solid Solution Alloy Nanoparticles by In-situ X-ray Diffraction Measurement under a Gas Atmosphere	Hiroshi Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
553	2024B2059	Crystallography beyond average structure: Electron density and correlated disorder from single crystals X-ray scattering	Bo Iversen	University of Aarhus	Denmark	Foreign	Materials Science and Engineering	4.625	BL02B1	Np
554	2024B2063	Effect of glass transition temperature and melting temperature on X-ray small angle scattering	Hirokazu Masai	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	1	BL19B2	Np
555	2024B2065	Hydration layer structure at mineral catalyst-water interfaces probed by in situ X-ray reflectivity: a fundamental study for green hydrogen production	Ayumi Koishi	RIKEN	Japan	National and Nonprofit Organization	Chemical Science	9	BL13XU	Np
556	2024B2071	Phase transition of hafnia two-dimensional ferroelectrics	Daisuke Kan	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	11.875	BL16XU-P	Np
557	2024B2077	Detection of small amount of segregated additive elements in Steel and evaluation of their chemical states by HAPXES mapping	Kazushi Hayashi	Kobe Steel, Ltd.	Japan	Industry	Industrial Applications	3	BL09XU	Np
558	2024B2078	Gigant porous coordination polymers based on tetrahedral supermolecular building block	Javier Lopez	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B1	Np
559	2024B2079	Measurement of effect of hydrogen on change in disloacation density with tensile deformation in hydrogen-filled stainless steel using in-situ X-ray diffraction tensile test No.5 Lowtemperature tensile test	Shiro Torizuka	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
560	2024B2083	Electronic state and structural analysis of doped phosphomolybdate catalysts effective for selective methane oxidation at room temperature	Ning Yan	National University of Singapore	Singapore	Foreign	Chemical Science	6	BL01B1	Np
561	2024B2084	Elucidation of the structural phase transition of oxyfluoride A3Sb4O6F6 (A : Fe, Ni, Zn)	Seiya Shimono	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL02B2	Np
562	2024B2085	Mechanochemical synthesis of novel oxyhydrides	Fumitaka Takeiri	Kindai University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
563	2024B2086	In situ Powder X-ray Diffraction toward Understanding Negatively Cooperative Gas Binding in Cu(I)-based Metal–Organic Frameworks for Efficient Gas Separations	Jeffrey Long	University of California, Berkeley	USA	Foreign	Chemical Science	8.875	BL02B2	Np
564	2024B2088	In situ XAFS Spectroscopy to Examine Negatively Cooperative Gas Binding in Cu(I)-based Metal–Organic Frameworks for Efficient Gas Separations	Jeffrey Long	University of California, Berkeley	USA	Foreign	Chemical Science	6	BL01B1	Np
565	2024B2094	Observation of crystallization process of two-dimensional perovskite crystals	Naoyuki Shibayama	Toin University of Yokohama	Japan	Educational Organization	Industrial Applications	3	BL19B2	Np
566	2024B2096	Structural investigation of Sr(Ba, Ca)FeO2Fx (Pm-3m) perovskite crystal, one of the most promising rechargeable fluoride ion batteries	Toshiyuki Matsunaga	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np

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567	2024B2097	Single-crystal X-ray diffraction analysis of 3D pi-networks toward energy conversion materials	Michihisa Murata	Osaka Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	3	BL02B1	Np
568	2024B2100	Quantum Crystallographic Structural Investigation of a Solvatochromic Silver Complex	Zi Lang Goo	Kindai University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
569	2024B2101	Clarification of the unique thermoelectric conversion properties of Ru2TiSi compounds, thermoelectric conversion materials for high temperatures, using high-resolution hard X-ray photoelectron spectroscopy.	Hidetoshi Miyazaki	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	5.875	BL09XU	Np
570	2024B2102	Development of XRD-XAS measurement systems at BL14B2	Takeshi Watanabe	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	6	BL14B2	Np
571	2024B2103	Clarification of the unique thermoelectric conversion properties of Ru2TiSi compounds, thermoelectric conversion materials for high temperatures, using high-resolution powder X-ray diffraction.	Hidetoshi Miyazaki	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
572	2024B2104	Elucidation of formation mechanism of intermetallic alloy compounds by using time-resolved XRD-XAS observation of electrochemical reduction of Ag-In mixed metal oxides	Soichi Kikkawa	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	8	BL14B2	Np
573	2024B2105	Elucidation of selective sorption behavior of flexible porous coordination polymer toward C2 and C3 olefins	Ken-ichi Otake	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
574	2024B2106	Determination of the origin and distribution of electric field stress-induced charge traps in SiN by voltage-applied AR-HAXPES	Hiroshi Nohira	Tokyo City University	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np
575	2024B2107	Elucidation of selective sorption behavior of flexible porous coordination polymer toward C2 and C3 olefins via in situ SCXRD studies	Ken-ichi Otake	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B1	Np
576	2024B2109	Analysis for Controlled Reduction of alpha-Fe2O3 in glass by TiO2 during heating	Kyoko Okada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	5.625	BL19B2	Np
577	2024B2110	Exploratory synthesis of polar oxy-fluorides and elucidation of the origin of their polarity	Yoshiyuki Inaguma	Gakushuin University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
578	2024B2518	Structural analysis of ubiquitin signaling for intracellular degradation	Kei Okatsu	Kyoto University	Japan	Educational Organization	Life Science	1	PX-BL (BL45XU)	Np
579	2024B2519	Structural analysis of membrane transport protein complexes	Kazuhiro Abe	Hokkaido University	Japan	Educational Organization	Life Science	21	PX-BL (EM01CT)	Np
580	2024B2520	Functional characterization of solute-binding proteins associated with algal pathogenicity in Sulfitobacter D7 by metabolome screening	Benjamin Clifton	Okinawa Institute of Science and Technology Graduate University	Japan	Educational Organization	Life Science	1	PX-BL (BL45XU)	Np
581	2024B2521	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	31	PX-BL (BL26B1, BL41XU)	Np
582	2024B2522	CD28 binding of signal-transducing protein PI3K regulatory subunit and its interdomain interactions	Masayuki Oda	Kyoto Prefectural University	Japan	Educational Organization	Life Science	3	PX-BL (BL38B1)	Np
583	2024B2523	Structural and functional analysis of CRISPR-Cas system	Tomoyuki Numata	Kyushu University	Japan	Educational Organization	Life Science	45	PX-BL (BL45XU, EM01CT, EM02CT, EM04CT)	Np
584	2024B2524	Structural basis of catalytic mechanism and substrate specificity of L-2-Keto-3-deoxyrhamnonate 4-dehydrogenase (L-KDRDH) from bacteria	Seiya Watanabe	Ehime University	Japan	Educational Organization	Life Science	1.75	PX-BL (BL41XU, BL45XU)	Np
585	2024B2527	Structural analysis for heme-related sensor protein	Rei Tohda	University of Hyogo	Japan	Educational Organization	Life Science	12	PX-BL (EM02CT)	Np
586	2024B2529	Crystal structure analysis of computationally designed artificial oligomeric proteins, antibody light chain oligomer, and artificially stabilized antibody	Tsuyoshi Mashima	Nara Institute of Science and Technology	Japan	Educational Organization	Life Science	4.5	PX-BL (BL45XU)	Np
587	2024B2531	Antibiotics development targeting gram-negative bacteria outer membrane proteins	Tsuyoshi Imasaki	Kobe University	Japan	Educational Organization	Life Science	9	PX-BL (EM01CT)	Np
588	2024B2532	Structure determination of the transcription regulator complex	Tsuyoshi Imasaki	Kobe University	Japan	Educational Organization	Life Science	15	PX-BL (EM01CT, EM02CT, EM03CT)	Np
589	2024B2533	Crystal structure of daptomycin stably complexed with phosphatidylglycerol responsible for the drug uptake	Zhihong Guo	Hong Kong University of Science and Technology	Hong Kong	Foreign	Life Science	1.75	PX-BL (BL41XU, BL45XU)	Np
590	2024B2535	Structural biology of agonist activity derived from antibodies	Chikashi Toyoshima	The University of Tokyo	Japan	Educational Organization	Life Science	2	PX-BL (BL41XU)	Np
591	2024B2536	Rational design of molecular glue that induces non-natural protein complexes	Hironori Hayashi	Tohoku University	Japan	Educational Organization	Life Science	2	PX-BL (BL41XU)	Np
592	2024B2537	Crystallographic study of photoreaction intermediates of GFP using synchrotron X-rays	Kazuki Takeda	Kyoto University	Japan	Educational Organization	Life Science	2	PX-BL (BL41XU)	Np
593	2024B2538	Structural studies of proteins involved in the white spot syndrome infection of black tiger shrimp	Min Fey Chek	Nara Institute of Science and Technology	Japan	Educational Organization	Life Science	2.25	PX-BL (BL45XU)	Np
594	2024B2539	Screening of conditions for long-time quality control of large photosystem II crystals	Keisuke Kawakami	RIKEN	Japan	National and Nonprofit Organization	Life Science	12	PX-BL (BL41XU)	Np
595	2024B2540	Structural analysis of Trypanosoma cruzi GMP reductase in complex with substrate or inhibitor by means of X-ray crystallography	Takashi Inui	Osaka Metropolitan University	Japan	Educational Organization	Life Science	5	PX-BL (BL26B1)	Np
596	2024B2541	Molecular structural basis toward elucidation and regulation of plant development	Kotaro Nishiyama	Meiji University	Japan	Educational Organization	Life Science	0.25	PX-BL (BL32XU)	Np

2024B, Performed General Proposals

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

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
597	2024B2543	Structural basis of microtubule network formation and repair	Ryo Nitta	Kobe University	Japan	Educational Organization	Life Science	6	PX-BL (EM02CT)	Np
598	2024B2544*	Structural analysis of proteins involved in iron acquisition and transport system	Hiroshi Sugimoto	RIKEN	Japan	National and Nonprofit Organization	Life Science	13.5	PX-BL (BL45XU, EM01CT, EM02CT, EM04CT)	Np
599	2024B2545	Single crystal structure analysis of automatically synthesized giant artificial protein molecules using synchrotron radiation X-ray	Sota Sato	The University of Tokyo	Japan	Educational Organization	Chemical Science	11	PX-BL (BL41XU)	Np
600	2024B2546	Structural basis for the molecular evolution of membrane proteins	Yosuke Senju	Okayama University	Japan	Educational Organization	Life Science	0.5	PX-BL (BL41XU)	Np
601	2024B2717	Structure analyses of poor water-insoluble compound complexes with the high-strength hydrogel method	Shigeru Sugiyama	Kochi University	Japan	Educational Organization	Life Science	8.25	PX-BL (BL45XU)	Np
602	2024B2719	Structural and functional analysis for harmful mineral transporters from crop plants	Michihiro Suga	Okayama University	Japan	Educational Organization	Life Science	0.5	PX-BL (BL41XU, BL45XU)	Np
603	2024B2722	Alteration of peroxiredoxin assembly by chemical modification	Tomoki Himiyama	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Life Science	9.75	PX-BL (BL45XU, EM02CT)	Np
604	2024B2723	Binding-mode analysis of phenylpropanoic acid-type pan-antagonists to the nuclear receptor PPAR ligand binding domains by X-ray crystallography	Takuji Oyama	University of Yamanashi	Japan	Educational Organization	Life Science	0.75	PX-BL (BL45XU)	Np
605	2024B2724	Temperature dependence of the relationship between structure and activity for cold atapted enzymes by HAG and in-situ methods, and the structural studies on enzymes from plant	Masaki Horitani	Saga University	Japan	Educational Organization	Life Science	12	PX-BL (BL26B1, BL41XU, BL45XU)	Np
606	2024B2725	Rapid Protein Structure Analysis using Spontaneous Crystallization	Satoshi Abe	Kyoto Prefectural University	Japan	Educational Organization	Life Science	12	PX-BL (BL32XU)	Np
607	2024B2726	Mechanistic analysis on substrate specificity and stereo chemistry of enoyl reduction in polyketide synthesis	Toyoyuki Ose	Hokkaido University	Japan	Educational Organization	Life Science	4	PX-BL (BL45XU)	Np
608	2024B2728	Integrative structural biology of filament-like bacterial surface appendages in enteric bacterial pathogens	Shota Nakamura	Osaka University	Japan	Educational Organization	Life Science	3	PX-BL (BL45XU)	Np
609	2024B2729	Structural basis of bifunctional catalytic reaction mechanism of tRNA-modifying enzyme complex through enzyme-enzyme interaction	Akira Hirata	Tokushima University	Japan	Educational Organization	Life Science	0.25	PX-BL (BL45XU)	Np
610	2024B2730	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
611	2024B2731	Structural principle of modification of fluorescence proteins toward long wavelength fluorescence emission	Katsumi Imada	Osaka University	Japan	Educational Organization	Life Science	1.5	PX-BL (BL41XU)	Np
612	2024B2733	Structure study on enzymes related to non-typical high-energy phosphate bonds	Masahiro Fujihashi	Osaka Medical and Pharmaceutical University	Japan	Educational Organization	Life Science	1	PX-BL (BL45XU)	Np
613	2024B2734	Rapid sample screening for time-resolved structural analysis with a variety of reaction initiation techniques	Takaaki Fujiwara	Tohoku University	Japan	Educational Organization	Life Science	2	PX-BL (BL45XU)	Np
614	2024B2735	Elucidation of structural variety and function in photosynthetic membrane protein complexes from cyanobacteria by structural analysis	Yoshiki Nakajima	Okayama University	Japan	Educational Organization	Life Science	1.5	PX-BL (BL41XU)	Np
615	2024B2738	Crystallographic analysis of ion pumps	Chikashi Toyoshima	The University of Tokyo	Japan	Educational Organization	Life Science	3	PX-BL (BL41XU)	Np
616	2024B2739	“in crystallo” catalytic analysis using HAG method at various pH and various temperature	Takeshi Murakawa	Osaka Medical and Pharmaceutical University	Japan	Educational Organization	Life Science	10.75	PX-BL (BL26B1, BL45XU)	Np
617	2024B2740	Structural analysis of cyanide-related proteins to elucidate cyanide resistance	Norifumi Muraki	Keio University	Japan	Educational Organization	Life Science	13.25	PX-BL (BL41XU, BL45XU, EM02CT)	Np
618	2024B2741	Study on substrate recognition and catalytic mechanisms of carbohydrate-active and biosynthetic enzymes from microorganisms	Shinya Fushinobu	The University of Tokyo	Japan	Educational Organization	Life Science	6.75	PX-BL (BL45XU)	Np
619	2024B2742	Structural analysis of the Sec translocon complex and thiosulfate/cysteine transporters	Tomoya Tsukazaki	Nara Institute of Science and Technology	Japan	Educational Organization	Life Science	25.5	PX-BL (BL32XU, EM01CT)	Np
620	2024B2744	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	12	PX-BL (EM04CT)	Np
621	2024B2748	Elucidating the mode of actions of synthetic molecules that control plant growth	Shuhei Kusano	RIKEN	Japan	National and Nonprofit Organization	Life Science	1	PX-BL (BL32XU)	Np
622	2024B2749	Improvement in data collection environment at MX beamline BL41XU	Naomine Yano	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Life Science	52	PX-BL (BL41XU)	Np
623	2024B2752	Structural and Functional Analysis of Nuclear Receptor Ligand Binding Domains for Pharmacological Applications	Yuya Hanazono	Institute of Science Tokyo	Japan	Educational Organization	Life Science	1.5	PX-BL (BL45XU, BL32XU)	Np
624	2024B2753	X-ray structural analysis of cell-cell or virus-cell junction related membrane proteins	Shun Nakamura	Institute of Science Tokyo	Japan	Educational Organization	Life Science	2	PX-BL (BL45XU)	Np
625	2024B2755	The structure determination of catalytic intermediates of cytochrome c oxidase by the pump-probe time-resolved analysis using CO-bound reduced cytochrome c oxidase	Atsuhiro Shimada	Gifu University	Japan	Educational Organization	Life Science	3.875	PX-BL (BL41XU)	Np
626	2024B2756	Molecular mechanism of the reaction catalyzed by membrane-integrated nitric oxide reductase proved by X-ray crystallography and single particle analysis with cryo electron microscopy	Takehiko Tosha	University of Hyogo	Japan	Educational Organization	Life Science	15	PX-BL (BL32XU, EM01CT, EM02CT)	Np

2024B, 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)
627	2024B2757	X-ray crystallography of proteins involved in phospholipid transport and metabolism in bacteria	Yasunori Watanabe	Yamagata University	Japan	Educational Organization	Life Science	1.5	PX-BL (BL41XU, BL32XU)	Np
628	2024B2758	Elucidation of functions of food-related enzymes by X-ray analysis with cryo and room-temperature crystals.	Bunzo Mikami	Kyoto University	Japan	Educational Organization	Life Science	15.875	PX-BL (BL26B1)	Np
629	2024B2762	Structural biology of molecular systems in glycosaminoglycan-targeting pathogenic bacteria	Wataru Hashimoto	Kyoto University	Japan	Educational Organization	Life Science	1.5	PX-BL (BL26B1, BL41XU)	Np

2024B, 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	2024B1046	Valence analysis of transition metals in Ceramics	Tsutomu Totsuka	Murata Manufacturing Co., Ltd.	Japan	Industry	Industrial Applications	3	BL39XU	P
2	2024B1047	Elemental mapping analysis of trace elements contained in sugar powder	Satoshi Nishimura	LOTTE Co., Ltd.	Japan	Industry	Industrial Applications	2	BL37XU	P
3	2024B1048	3D structure observation of carbon materials	Hideaki Yoshino	NIPPON STEEL Chemical & Material Co., Ltd.	Japan	Industry	Industrial Applications	2	BL47XU	P
4	2024B1049	Structural analysis of sulfur-based solid electrolytes using XRD-CT and nano-CT	Naoki Koshitani	Murata Manufacturing Co., Ltd.	Japan	Industry	Industrial Applications	6	BL20XU	P
5	2024B1050	Three-dimensional structural analysis of electronic components by X-ray imaging method	Naoki Koshitani	Murata Manufacturing Co., Ltd.	Japan	Industry	Materials Science and Engineering	9	BL20XU	P
6	2024B1051	X-ray Imaging Study of Li-ion Battery	Hisao Yamashige	Toyota Motor Corporation	Japan	Industry	Industrial Applications	12	BL20XU	P
7	2024B1052	Observation of membrane structure of medical coating materials by nano-X-ray computed tomography	Koki Fuse	Terumo Corporation	Japan	Industry	Industrial Applications	1	BL47XU	P
8	2024B1053	X-ray imaging observation of compound materials	Kazumi Kurooka	Panasonic Holdings Corporation	Japan	Industry	Industrial Applications	2	BL47XU	P
9	2024B1054	High energy XRD measurement for inorganic compounds	Yu Fujiki	Nissan Chemical Corporation	Japan	Industry	Industrial Applications	4	BL04B2	P
10	2024B1055	X-ray imaging	Shino Isaji	Toyota Motor Corporation	Japan	Industry	Industrial Applications	3	BL05XU	P
11	2024B1056	X-ray imaging	Shino Isaji	Toyota Motor Corporation	Japan	Industry	Industrial Applications	3	BL20B2	P
12	2024B1057	XAFS analysis on tramp elements in steels.	Shin Takahashi	JFE Techno-Research Corporation	Japan	Industry	Industrial Applications	3	BL37XU	P
13	2024B1058	Chemical state analysis of Pt in silicone resin by HERFD-XAFS	Shinsuke Nishida	Furukawa Electric Co., Ltd.	Japan	Industry	Industrial Applications	2	BL39XU	P
14	2024B1059	Observation of the 3D structure of the actuator	Saotoru Masai	Seiko Epson Corporation	Japan	Industry	Industrial Applications	3	BL28B2	P
15	2024B1060	HERFD-XAFS measurement	Kazuhiko Komori	SPring-8 Service Co., Ltd.	Japan	Industry	Industrial Applications	1	BL39XU	P
16	2024B1061	PDF measurement	Kazuhiko Komori	SPring-8 Service Co., Ltd.	Japan	Industry	Industrial Applications	1	BL04B2	P
17	2024B1062	In-situ tensile observation of resin using X-ray CT	Soya Hayashi	Seiko Epson Corporation	Japan	Industry	Industrial Applications	5.625	BL47XU	P
18	2024B1063	Observation of LiB internal structure	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	3	BL28B2	P
19	2024B1064	X-ray Imaging Study of Li-ion Battery	Naoto Onodera	Prime Planet Energy & Solutions, Inc.	Japan	Industry	Industrial Applications	9	BL20XU	P
20	2024B1065	Element distribution analysis of optical fiber using μ-XRF	Shinsuke Nishida	Furukawa Electric Co., Ltd.	Japan	Industry	Industrial Applications	2	BL37XU	P
21	2024B1066	Crystallinity analysis of cellulose in resin	Masayuki Omoto	Seiko Epson Corporation	Japan	Industry	Industrial Applications	3	BL40XU	P
22	2024B1067	Observation of dissolution behavior of Li metal negative electrode	Katsutoshi Sakurai	Honda R&D Co.,Ltd.	Japan	Industry	Industrial Applications	6	BL47XU	P
23	2024B1068	Structural study of a nematic liquid crystal using in-situ SAXS/WAXS analysis.	Chihiro Yogi	Murata Manufacturing Co., Ltd.	Japan	Industry	Materials Science and Engineering	2	BL40B2	P
24	2024B1069	Analysis of Radical Quencher in Fuel Cells	Yuki Orikasa	Ritsumeikan University	Japan	Educational Organization	Chemical Science	2	BL37XU	P
25	2024B1070	Observation of LiB anode material particle structure	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	3	BL20XU	P
26	2024B1071	Crystal orientation mapping in the steel using laminographic three-dimensional x-ray diffraction microscopy (2)	Shin Takahashi	JFE Techno-Research Corporation	Japan	Industry	Industrial Applications	6	BL29XU	P
27	2024B1072	Observation of Zirconia Ceramics by Multiscale X-ray CT	Kenta Kawamura	TOSOH CORPORATION	Japan	Industry	Materials Science and Engineering	2	BL20XU	P
28	2024B1073	Visualization of the internal structure of polymer materials	Kosuke Yamazoe	Ajinomoto Co., Inc.	Japan	Industry	Industrial Applications	2	BL47XU	P
29	2024B1074	Observation of internal structure during GFRP tensile test	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	6	BL20B2	P
30	2024B1075	Small and wide angle X-ray scattering studies of structure of fluororesins	Toshiyuki Fukushima	DAIKIN INDUSTRIES, LTD.	Japan	Industry	Materials Science and Engineering	1	BL40B2	P
31	2024B1076	Nondestructive observation of internal cracks in steel using syncrotoron radiation X-ray laminography(2)	Ayuki Yoshizumi	Nippon Steel Corporation	Japan	Industry	Industrial Applications	3	BL20B2	P

2024B, 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)
32	2024B1077	Morphology observation of All-Solid-State batteries in charge and discharge process using X-ray CT (4)	Yuichi Ikeda	GS Yuasa International Ltd.	Japan	Industry	Industrial Applications	3	BL20B2	P
33	2024B1079	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
34	2024B1080	Electronic structure analysis of catalysts by HAXPES measurements	Taishi Fukazawa	Toshiba Corporation	Japan	Industry	Industrial Applications	2	BL46XU	P
35	2024B1081	Electronic structure analysis of catalysts using HAXPES measurements	Taishi Fukazawa	Toshiba Corporation	Japan	Industry	Industrial Applications	2	BL46XU	P
36	2024B1082	Study on the electronic state of inorganic semiconductor materials	Ryouji Arai	Sony Semiconductor Solutions Corporation	Japan	Industry	Industrial Applications	6	BL09XU	P
37	2024B1083	Particle size evaluation of alloy catalysts by X-ray small-angle scattering analysis	Masafumi Sakota	Honda R&D Co.,Ltd.	Japan	Industry	Industrial Applications	5	BL19B2	P
38	2024B1084	Crystal structure analysis of catalysts by XRD	Kenta Kozakai	TOSHIBA NANOANALYSIS CORPORATION	Japan	Industry	Industrial Applications	1	BL13XU	P
39	2024B1085	X-ray Imaging Study of Li-ion Battery	Hisao Yamashige	Toyota Motor Corporation	Japan	Industry	Industrial Applications	30	BL37XU	P
40	2024B1784	structure determination of pharmaceutical compounds and stracutual investigation of amprphous form	Taeko Shinozaki	Daiichi Sankyo Co., Ltd.	Japan	Industry	Life Science	1	BL19B2	P
41	2024B1785	Observation of the chemical bonding state in HfO2 thin films	Hideaki Tanimura	SCREEN Semiconductor Solutions Co., Ltd.	Japan	Industry	Materials Science and Engineering	3	BL09XU	P
42	2024B1786	Synchrotron XRD measurement for battery	Tetsuya Ueno	TDK Corporation	Japan	Industry	Industrial Applications	3	BL13XU	P
43	2024B1787	Powder X-ray diffraction method for evaluation of polymorphism of low molecular organic compound	Takahiko Hashizuka	Sawai Pharmaceutical Co., Ltd.	Japan	Industry	Industrial Applications	1	BL19B2	P
44	2024B1788	Detailed Analysis of Silica Hierarchical Structure Formation Mechanism in Rubber Materials Using Silane Coupling Agents by Small-Angle X-ray Scattering	Yukiko Tamura	ENEOS Materials Corporation	Japan	Industry	Industrial Applications	1	BL19B2	P
45	2024B1789	Evaluation of Fermi Level of Insulating Materials by AP-XPS (2)	Seiji Kawasaki	Murata Manufacturing Co., Ltd.	Japan	Industry	Materials Science and Engineering	2	BL46XU	P
46	2024B1790	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	6	BL09XU	P
47	2024B1791	Evaluation of residual stress in swage part of steel can for cylindrical battery.	Rei Oyama	JFE Techno-Research Corporation	Japan	Industry	Industrial Applications	9	BL13XU	P
48	2024B1792	A HAXPES study on semiconductor 3	Takahiro Nishio	DENSO CORPORATION	Japan	Industry	Industrial Applications	1	BL09XU	P
49	2024B1793	Structure analysis of the iodine species sorbed on barrier material	Naomi Sano	Kyuden Sangyo Co., Inc	Japan	Industry	Industrial Applications	1	BL14B2	P
50	2024B1794	Electronic structure analysis of catalysts by HAXPES measurements	Taishi Fukazawa	Toshiba Corporation	Japan	Industry	Industrial Applications	2	BL46XU	P
51	2024B1795	Electronic structure analysis of catalysts using HAXPES measurements	Taishi Fukazawa	Toshiba Corporation	Japan	Industry	Industrial Applications	2	BL46XU	P
52	2024B1796	High-precision powder X-ray diffraction measurement	Kenta Kozakai	TOSHIBA NANOANALYSIS CORPORATION	Japan	Industry	Medical Applications	1	BL19B2	P
53	2024B1797	Reaction distribution analysis of laminated all-solid-state Li-ion secondary battery	Katsutoshi Sakurai	Honda R&D Co.,Ltd.	Japan	Industry	Industrial Applications	6	BL13XU	P
54	2024B1798	A HAXPES study on semiconductor	Takahiro Nishio	DENSO CORPORATION	Japan	Industry	Industrial Applications	1	BL09XU	P
55	2024B1799	Elucidation of local structure of catalysts by XAFS measurement.	Hiroaki Suzuki	Furuya Metal Co.,Ltd.	Japan	Industry	Industrial Applications	3	BL01B1	P
56	2024B1800	Analysis of electronic state of inorganic semiconductors by hard x-ray photoelectron spectroscopy	Takaki Hatsui	RIKEN	Japan	National and Nonprofit Organization	Industrial Applications	9	BL09XU	P
57	2024B1801	Analysis of structural changes in pure iron by in-situ XAFS	Noriko Yamazaki	Mitsubishi Heavy Industries, Ltd.	Japan	Industry	Industrial Applications	4	BL14B2	P
58	2024B1802	Analyses of small additive elements on BaTiO3-based ceramics using synchrotron radiation	Kiyotaka Tanaka	Samsung Japan Corporation	Japan	Industry	Materials Science and Engineering	1	BL14B2	P
59	2024B1980	Local Domain Analysis of BaTiO3 by Synchrotron Nanobeam X-ray Diffraction	Kentaro Watanabe	Murata Manufacturing Co., Ltd.	Japan	Industry	Industrial Applications	4.25	BL13XU	P
60	2024B1981	Thin film X-ray structural analysis of organic thin film	Hisashi Tetsutani	Nissan Chemical Corporation	Japan	Industry	Industrial Applications	1.875	BL13XU	P
61	2024B1982	A HAXPES study on semiconductor 4	Takahiro Nishio	DENSO CORPORATION	Japan	Industry	Industrial Applications	1	BL09XU	P

2024B, 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)
62	2024B1983	SEI analysis of SiO/Gr anode on lithium-ion battery	Teruhisa Baba	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	3	BL09XU	P
63	2024B1984	Analysis of crystallinity of organic thin films on Si substrate	Yuta Sasaki	SCREEN Holdings Co., Ltd.	Japan	Industry	Industrial Applications	6	BL19B2	P
64	2024B1985	Study on the electronic state of inorganic semiconductor materials	Ryouji Arai	Sony Semiconductor Solutions Corporation	Japan	Industry	Industrial Applications	10	BL09XU	P
65	2024B1986	Structural analysis of thin film materials	Hirokazu Sasaki	Furukawa Electric Co., Ltd.	Japan	Industry	Industrial Applications	2	BL13XU	P
66	2024B1987	Small-angle x-ray scattering measurement of industrial materials	Hirokazu Sasaki	Furukawa Electric Co., Ltd.	Japan	Industry	Industrial Applications	1	BL19B2	P
67	2024B1988	Electronic structure analysis of catalysts by HAXPES measurements	Taishi Fukazawa	Toshiba Corporation	Japan	Industry	Industrial Applications	2	BL46XU	P
68	2024B1989	Electronic structure analysis of catalysts using HAXPES measurements	Taishi Fukazawa	Toshiba Corporation	Japan	Industry	Industrial Applications	2	BL46XU	P
69	2024B1990	Chemical state analysis of inorganic materials using XAFS	Shinsuke Nishida	Furukawa Electric Co., Ltd.	Japan	Industry	Industrial Applications	1	BL14B2	P
70	2024B1991	XAFS analysis of compounds containing Rh, Ru, Ir	Takanori Sakamoto	JX Nippon Mining & Metals Corporation	Japan	Industry	Industrial Applications	0.875	BL01B1	P
71	2024B1992	Measurement of chemical states of the resin by hard X-ray photoelectron spectroscopy	Shoko Murofushi	IHI Corporation	Japan	Industry	Chemical Science	3	BL09XU	P
72	2024B1993	Analysis of formation behavior of voids in hair fibres due to photo-damage using X-ray CT	Kota Yamamoto	Milbon Co., Ltd.	Japan	Industry	Industrial Applications	1	BL24XU-P	P
73	2024B1994	In situ XRD measurement of new materials	Ryosuke Yamamoto	Toyota Motor Corporation	Japan	Industry	Industrial Applications	6	BL02B2	P
74	2024B1995	Analysis of deterioration mechanism of positive electrode in all solid battery using XAFS (Part V)	Yuichi Ikeda	GS Yuasa International Ltd.	Japan	Industry	Industrial Applications	2	BL14B2	P
75	2024B1996	Surface analysis of sulfide solid electrolyte by hard X-ray photoelectron spectroscopy under atmospheric pressure	Yuichi Ikeda	GS Yuasa International Ltd.	Japan	Industry	Industrial Applications	3	BL46XU	P
76	2024B1997	Analyses of additive elements on BaTiO3-based ceramics using synchrotron radiation	Kiyotaka Tanaka	Samsung Japan Corporation	Japan	Industry	Materials Science and Engineering	1.875	BL14B2	P
77	2024B2502	Structural Biology of Protein-Ligand complex for Drug Discovery	Shiho Yamamoto	Shionogi & Co., Ltd.	Japan	Industry	Life Science	5.25	PX-BL (BL41XU, BL45XU)	P
78	2024B2504	Structural insights into the antibody/antigen complex	Jian Sun	BeiGene Ltd.	China	Foreign	Life Science	3	PX-BL (BL45XU)	P
79	2024B2505	Structural analysis of protein and ligand/protein complex for drug discovery	Takashi Yamano	CHUGAI PHARMACEUTICAL CO., LTD.	Japan	Industry	Industrial Applications	7.75	PX-BL (BL45XU)	P
80	2024B2506	X-ray crystallography for disease-related proteins	Akinori Yamasaki	Nippon Shinyaku Co., Ltd.	Japan	Industry	Life Science	1.5	PX-BL (BL45XU)	P
81	2024B2507	Structural analysis of disease-related protein	Rie Omi	ONO PHARMACEUTICAL CO., LTD.	Japan	Industry	Life Science	3.25	PX-BL (BL32XU, EM04CT)	P
82	2024B2508	Macromolecule protein crystals for data collection	Wang Cheng	Wuxi Biortus Biosciences Co. Ltd	China	Foreign	Industrial Applications	25	PX-BL (BL41XU, BL45XU)	P
83	2024B2509	Structure-based pesticide development	Yoshiki Tanaka	AgroDesign Studios	Japan	Industry	Industrial Applications	3	PX-BL (BL41XU, BL45XU)	P
84	2024B2510	Structure analysis of complex of disease related proteins and theirregulatory compounds	Yasushi Amano	Astellas Pharma Inc.	Japan	Industry	Life Science	4.5	PX-BL (BL45XU)	P
85	2024B2511	Structural analysis of disease-related proteins for drug discovery	Daiki Kato	Asahi Kasei Pharma Corporation	Japan	Industry	Industrial Applications	44.5	PX-BL (BL45XU, EM01CT, EM04CT)	P
86	2024B2512	X-ray crystallography of disease-related protein MSP1, anti-MSP1 antibody, and MSP1 in complex with anti-MSP1 antibody	Yuuji Kado	Meiji Seika Pharma Co., Ltd.	Japan	Industry	Industrial Applications	0.25	PX-BL (BL45XU)	P
87	2024B2513	Diffraction data collection for x-ray crystallography of drug-target proteins	Yosuke Nishikawa	Daiichi Sankyo Co., Ltd.	Japan	Industry	Life Science	0.75	PX-BL (BL45XU)	P
88	2024B2514	Structure analysis of proteins related to disease	Yuichiro Nakaishi	Otsuka Pharmaceutical Co., Ltd.	Japan	Industry	Industrial Applications	4	PX-BL (BL41XU, BL45XU)	P
89	2024B2515	Structural determination of target proteins for medical product development	Norie Fujikawa	Mitsubishi Tanabe Pharma Corporation	Japan	Industry	Life Science	4.75	PX-BL (BL41XU, BL45XU)	P
90	2024B2517	Structure analysis of proteins related to disease	Noritaka Furuya	KISSEI PHARMACEUTICAL CO., LTD.	Japan	Industry	Industrial Applications	2.5	PX-BL (BL45XU)	P
91	2024B2701	X-ray crystallography of drug-related proteins	Tatsuya Suzuki	Taiho Pharmaceutical Co., Ltd.	Japan	Industry	Industrial Applications	1	PX-BL (BL45XU)	P
92	2024B2702	Evaluation of the Protein Crystals under Microgravity by Synchrotron Radiation	Momi Iwata	Japan Aerospace Exploration Agency	Japan	National and Nonprofit Organization	Life Science	10.75	PX-BL (BL41XU, BL45XU)	P

2024B, 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)
93	2024B2705	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
94	2024B2708	X-ray crystallography of protein-ligand complex (2024A)	Hikaru Shimizu	PeptiDream Inc.	Japan	Industry	Life Science	2	PX-BL (BL45XU)	P
95	2024B2710	X-ray crystallography of pesticide-target proteins	Kunio Ido	Sumitomo Chemical Company, Limited	Japan	Industry	Life Science	0.5	PX-BL (BL45XU)	P
96	2024B2711	X-ray or Cryo-EM structure determination of the protein with compound	Tsuyoshi Adachi	Japan Tobacco Inc.	Japan	Industry	Industrial Applications	3.25	PX-BL (BL45XU)	P
97	2024B2712	Crystal structure analysis of target proteins in complex with drug candidate	Masashi Mima	Taisho Pharmaceutical Holdings Co., Ltd.	Japan	Industry	Life Science	0.5	PX-BL (BL32XU)	P
98	2024B2714	Development of efficient ligand screening methods against drug- and agricultural chemical-target proteins	Masaki Yamamoto	RIKEN	Japan	National and Nonprofit Organization	Life Science	66	PX-BL (EM01CT)	P

2024B, Performed Budding Researchers Support Proposals

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
1	2024B1705	3D crystal size distributions of lave microlites from micro computed tomography. Comparing magnetite and pyroxene.	Silvia Catalina Moreno Alfonso	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	3	BL47XU	Np
2	2024B1707	Reduction Disintegration Behavior of Acid Iron Ore Pellet Reduced by Hydrogen for Hydrogen Reduction Shaft Furnace and Evaluation of its Mechanism	Koki Momma	Tohoku University	Japan	Educational Organization	Industrial Applications	6	BL28B2	Np
3	2024B1713	Spin/orbit interaction and alignment in (Nd,Gd)N solid solutions	Kiri Van Koughnet	Victoria University of Wellington	New Zealand	Foreign	Materials Science and Engineering	17.75	BL39XU	Np
4	2024B1714	Structural analysis of plumbene on Pd(111)	Xu Li	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	12	BL25SU	Np
5	2024B1716	Crystal structure analysis of dibenzoylmethanato boron difluoride complex with aggregation-induced emission and polymorphism-dependent luminescence properties	Yushi Fujimoto	Shinshu University	Japan	Educational Organization	Chemical Science	6	BL40XU	Np
6	2024B1717	Precise structural analysis of nonstoichiometric, non-homogenous co-crystalline frameworks and evaluation of their absorption properties.	Taito Hashimoto	Osaka University	Japan	Educational Organization	Materials Science and Engineering	6	BL40XU	Np
7	2024B1720	Revealing the mechanism of magnetic ordering on Au-Al-Tb quasicrystal approximants by using HERFD-XAS	Goro Nozue	Osaka University	Japan	Educational Organization	Materials Science and Engineering	9	BL39XU	Np
8	2024B1723	Investigation of magnetic ordering in Nd(Co1-xNix)2P2 by Ni-61 synchrotron Mössbauer spectroscopy	Azumi Ishita	The University of Electro-Communications	Japan	Educational Organization	Materials Science and Engineering	18	BL35XU	Np
9	2024B1724	Phonon measurements in Newly Discovered Kagome Material CsCr3Sb5	Yifan Wang	Zhejiang University	China	Foreign	Materials Science and Engineering	12	BL35XU	Np
10	2024B1725	Evaluation of in-plane aromaticity based on precise structural analysis of cyclo-oligo(dibenzopentafulvalene)s ultrafine crystals	Shu Takagi	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL40XU	Np
11	2024B1727	Probing a charge-density-wave nematic liquid under uniaxial strain	Jiayu Guo	Zhejiang University	China	Foreign	Materials Science and Engineering	9	BL35XU	Np
12	2024B1728	Study of redox and magnetic orbitals of Na ion cathode materials by Compton scattering	Veenavee Kothalawala	Lappeenranta-Lahti University of Technology	Finland	Foreign	Materials Science and Engineering	8.625	BL08W	Np
13	2024B1732	Crystal structure analysis of unknown high-pressure phases of ice crystallising only from ultrasmall water droplets	Hiroki Kobayashi	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	9	BL32XU	Np
14	2024B1733	Structure study of spinel type compounds with charge frustration under high pressure using single crystals	Masatoshi Emi	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL10XU	Np
15	2024B1735	Colloidal crystal structure analysis using small angle X-ray scattering: in-situ observation of crystal growth process in microdrops	Shoko Kojima	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
16	2024B1736	X-ray diffraction at low temperature under high pressure for Au-Al-Yb Quasicrystal and Approximant	Yumi Kinoshita	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	6	BL10XU	Np
17	2024B1739	Investigation of mechanism of enhancement of transverse Seebeck coefficients at the ferromagnetic/ semiconductor interfaces	Reona Kitaura	Osaka University	Japan	Educational Organization	Materials Science and Engineering	9	BL39XU	Np
18	2024B1741	Damage processes at the steel fiber/cement interface in steel fiber pull-out tests	Riki Nagao	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	3	BL20XU	Np
19	2024B1744	A systematic study of the impact of magnetic multipole order on the electronic state through the comparison of the antiferromagnet $PdCrO_2$ and the nonmagnetic $PdCoO_2$ using SX-ARPES	Takuma Iwata	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	18	BL25SU	Np
20	2024B1745	Colloidal single crystal structure analysis using small angle X-ray scattering with rotating crystal method: High-quality single crystal assembly of DNA-functionalized nanoparticle superlattices in droplet.	Lidong Zhang	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
21	2024B1749	Operando QXAFS on CH4 combustion catalysts identified by machine learning	Duotian Chen	Hokkaido University	Japan	Educational Organization	Industrial Applications	15	BL01B1	Np
22	2024B1752	XAFS study on structure-activity relationship of Ru-Ir/C catalysts for one-pot epimerization of 1,4-anhydroerythritol	Shogen Mihara	Tohoku University	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
23	2024B1753	Dynamic Behavior Analysis of Anion Exchange Reactions in Layered Double Hydroxides	Masaki Moriwaki	Shinshu University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
24	2024B1754	Study of phase transition behaviours in rare-earth mixed A-site layer-ordered perovskites R1-xR'xBaFe2O6	Makoto Iihoshi	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL02B2	Np
25	2024B1756	Particle size and volume fraction measurement of the secondary and tertiary phases of thermoelectric Al2Fe3Si3 nanocomposites by small-angle X-ray scattering	Zhiyang Zhao	Ibaraki University	Japan	Educational Organization	Materials Science and Engineering	1	BL19B2	Np
26	2024B1757	X-ray Single Crystal Structural Analysis for Microcrystals of Highly Reactive Unsaturated Heavier Group 14 elements Compounds Utilizing Crystal Engineering Techniques	Yui Wakasa	Rikkyo University	Japan	Educational Organization	Chemical Science	6	BL02B1	Np
27	2024B1759	Investigation of the contribution of substitution elements to charge transfer in high-entropy substituted BiNiO3	Qiumin Liu	Institute of Science Tokyo	Japan	Educational Organization	Materials Science and Engineering	9	BL09XU	Np
28	2024B1760	Time-resolved USXAS analysis of solid-liquid transition phenomena in mixed suspensions of colloidal particles and polymers under flow	Shunsuke Sato	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	9	BL19B2	Np
29	2024B1761	In-Situ Observation of Vapor-Induced Dynamic Phase Transitions among the Amorphous, Non-Solvated Crystalline and Guest-Inclusion Crystalline State	Yuki Matsuda	University of Hyogo	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
30	2024B1762	Formation mechanism of alloy nanoparticles in room-temperature flow process II	Shotaro Danjo	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL13XU	Np

2024B, Performed Budding Researchers Support Proposals

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
31	2024B1765	Structure Determination of New Organic-Inorganic Hybrid Perovskite Compounds with Defect Orderings and Pursuit Their Temperature-Induced Structural Phase Transitions	Takuya Ohmi	Institute of Science Tokyo	Japan	Educational Organization	Chemical Science	6	BL02B1	Np
32	2024B1766	Structural determination of gas-responsive metal-organic framework showing multi-step luminescence variations along with gas adsorption using in situ single crystal X-ray diffraction measurement	Chisa Itoh	Tohoku University	Japan	Educational Organization	Chemical Science	12	BL02B1	Np
33	2024B1927	In situ high temperatures single crystal X-ray structure analysis of organic crystals showing anisotropic thermal expansion	Yuto Hino	Kochi University of Technology	Japan	Educational Organization	Materials Science and Engineering	8.125	BL02B1	Np
34	2024B1928	Formation mechanism of alloy nanoparticles in room-temperature flow process III	Shotaro Danjo	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL13XU	Np
35	2024B1930	probing molecular orbital in Mn-based compounds	Jiayu Guo	Zhejiang University	China	Foreign	Materials Science and Engineering	3	BL02B1	Np
36	2024B1931	X-ray Single Crystal Structural Analysis for Microcrystals of Highly Reactive Heavier Group 14 elements Compounds Having Novel Unsaturated Bonds	Yui Wakasa	Rikkyo University	Japan	Educational Organization	Chemical Science	6	BL02B1	Np
37	2024B1932	Aggregation Structures of Polyethylene Having Fluoroalkyl Chain Ends	Kaoru Tashiro	The University of Tokyo	Japan	Educational Organization	Chemical Science	3	BL16XU-P	Np
38	2024B1937	Quantification of Mineral Products in Fluid-Rock Interactions Using Powder X-ray Diffraction: A Data-Driven Approach to Petrology	Satoshi Matsuno	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	3	BL19B2	Np
39	2024B1938	Operando evaluation of oxidation state of Ag nanoparticle spray-coated Cu electrode to improve ethylene production rate in electrochemical CO_2 reduction	Kazuki Koike	Meiji University	Japan	Educational Organization	Chemical Science	9	BL46XU	Np
40	2024B1939	Local Structures and Reentrant Phase Transition Investigation in Oxychloride Photocatalysts with Triple Fluorite Layers	Artem Gabov	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
41	2024B1940	Analysis of anion exchange reactions in layered double hydroxides using in-situ XRD	Masaki Moriwaki	Shinshu University	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
42	2024B1941	CO2 electroreduction using polymer-added porous copper electrodes	Yoshitomo Seki	The University of Tokyo	Japan	Educational Organization	Chemical Science	3	BL16XU-P	Np
43	2024B1942	Analysis of electronic structure change of manganese dioxide positive electrode in alkaline electrolyte during charge and discharge process.	Ryohei Kosasa	Institute of Science Tokyo	Japan	Educational Organization	Industrial Applications	6	BL14B2	Np
44	2024B1943	Superstructure in the Magnetic Soliton Lattice Compound Mn0.25TaS2	Saizheng Cao	Zhejiang University	China	Foreign	Materials Science and Engineering	3	BL02B1	Np
45	2024B1948	Impact of scaffold design on formation of small silver clusters in porous ionic crystals based on polyoxometalates	Naoya Haraguchi	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	9	BL14B2	Np
46	2024B1967	Understanding the mechanism of water absorption on the Superhydrophobic Polymer in different oxygen level using Infared spectroscopy	Hao Li	The University of Tokyo	Japan	Educational Organization	Chemical Science	9	BL43IR	Np
47	2024B1968	The electronic structure analysis of Co-doped SrTiO3 by X-ray absorption spectroscopy	Ryosuke Sugimoto	Kyoto Institute of Technology	Japan	Educational Organization	Chemical Science	11.875	BL27SU	Np
48	2024B1969	Elucidation of low-energy electronic structures of organic conductors with disordered anion layers at low temperatures	Souichirou Yasaka	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL43IR	Np
49	2024B2113	Formation mechanism of alloy nanoparticles in room-temperature flow process IV	Shotaro Danjo	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
50	2024B2115	In-situ XAFS analysis of hydrogen adsorption sites and chemical states of Pd nanoparticles-metaloxoclusters composites	Naoya Haraguchi	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	9	BL14B2	Np
51	2024B2118	Achieving super high-performance nitrate reduction based on coordination-controlled single TM atom anchored on graphene framework: identify the coordination environment of single-atom catalyst by XAFS characterization.	Qiang Zhou	The University of Tokyo	Japan	Educational Organization	Chemical Science	1	BL14B2	Np
52	2024B2119	Dimension-Controlled Assemblies Based on π-Electronic Ion Pairs That Form Radical Pairs via Electronic Transfer	Yuto Maruyama	Ritsumeikan University	Japan	Educational Organization	Materials Science and Engineering	2.875	BL19B2	Np
53	2024B2124	Elucidation of the multi-electron reduction behavior and development of functional materials based on precise structural analysis of microcrystals of oligo(pentafulvalene)s and multi-electron reduction species	Shu Takagi	Kyoto University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
54	2024B2125	Evaluation of Al2O3/SnOx/TiO2 structure for detailed elucidation of field-induced interface dipole modulation mechanism by voltage-applied HAXPES	Yoshiharu Kirihara	Tokyo City University	Japan	Educational Organization	Materials Science and Engineering	4.75	BL09XU	Np
55	2024B2547	Molecular insights into phospholipid recognition by P4-ATPase flippase	Yuheng Qian	Hokkaido University	Japan	Educational Organization	Life Science	12	PX-BL (EM01CT)	Np
56	2024B2548	Characterizing Evolved Variants of Fluoroacetate Dehalogenase	Amy Gooch	Okinawa Institute of Science and Technology Graduate University	Japan	Educational Organization	Life Science	0.25	PX-BL (BL32XU)	Np
57	2024B2550	Structural analysis of cysteine biosynthesis enzymes by X-ray and cryo-electron microscopy	Sayaka Tsuji	Kagoshima University	Japan	Educational Organization	Life Science	0.5	PX-BL (BL45XU)	Np
58	2024B2552	Structural and functional analysis of end-resection complex involved in DNA double strand break repair in archaea.	Keishiro Uda	Kyushu University	Japan	Educational Organization	Life Science	18	PX-BL (EM01CT, EM02CT)	Np
59	2024B2759	Elucidation of Selective Sugar Uptake Mechanisms in Bacteria	Yutaro Takahashi	Nara Institute of Science and Technology	Japan	Educational Organization	Life Science	9	PX-BL (EM01CT)	Np

2024B, 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	2024B0304	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
2	2024B0306	The Determination of Martian Core Structure by High-Pressure in-situ X-ray Diffraction Experiments	Fumiya Sakai	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	11.625	BL10XU	Np
3	2024B0307	3D investigation of organic compounds inclusions in mantle peridotites using multi-beamline multi-scale CT	Itaru Mitsukawa	Kyoto University	Japan	Educational Organization	Earth and Planetary Science	6	BL20B2	Np
4	2024B0312	Large-strain deformation experiments on lower mantle LLSVP candidate minerals under in situ pressure temperature conditions: Towards understanding the development of crystallographic preferred orientation in LLSVP	Bunrin Natsui	Institute of Science Tokyo	Japan	Educational Organization	Earth and Planetary Science	9	BL47XU	Np
5	2024B0314	P–V–T Measurement of dhcp-FeH	Yuichiro Mori	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	9	BL04B1	Np
6	2024B0317	In-situ experiments on the faulting process under seismogenic conditions from the brittle-plastic transition to the deep earthquakes	Rikuto Honda	Kyushu University	Japan	Educational Organization	Earth and Planetary Science	9	BL04B1	Np
7	2024B0318	3D investigation of organic compounds inclusions in mantle peridotites using multi-beamline multi-scale CT	Itaru Mitsukawa	Kyoto University	Japan	Educational Organization	Earth and Planetary Science	9	BL47XU	Np
8	2024B0319	Analysis of the transposition mechanism of CRISPR-associated transposon and development of the CRISPR-Cas complex mutants for genome engineering	Kazuki Ishihara	Kyushu University	Japan	Educational Organization	Life Science	18	PX-BL(EM01CT)	Np
9	2024B0320	Large-strain deformation experiments on lower mantle LLSVP candidate minerals under in situ pressure temperature conditions: Towards understanding the development of crystallographic preferred orientation in LLSVP	Bunrin Natsui	Institute of Science Tokyo	Japan	Educational Organization	Earth and Planetary Science	3	BL10XU	Np
10	2024B0321	Functional and structural studies of a novel Cas9 isolated from hot spring	Osamu Kikko	Kyushu University	Japan	Educational Organization	Life Science	15	PX-BL(EM01CT)	Np
11	2024B0322	Functional and structural studies of a novel Cas9 isolated from hot spring	Osamu Kikko	Kyushu University	Japan	Educational Organization	Life Science	3	PX-BL(EM02CT)	Np

2024B, 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	2024B2301	Structure determination of inorganic compounds	Sho Ito	DIC Corporation	Japan	Industry	Materials Science and Engineering	0.25	BL02B1	P
2	2024B2302	High-temperature in-situ diffraction experiments of functional metallic materials	Masaki Tahara	Institute of Science Tokyo	Japan	Educational Organization	Materials Science and Engineering	1	BL13XU	P
3	2024B2304	X-ray Imaging Study of Li-ion Battery	Hisao Yamashige	Toyota Motor Corporation	Japan	Industry	Industrial Applications	3	BL47XU	P
4	2024B2305	SAXS Study of Li-ion Battery	Hisao Yamashige	Toyota Motor Corporation	Japan	Industry	Industrial Applications	9	BL05XU	P
5	2024B2309	XRD measurements of dielectrics	Takanori Itoh	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	1	BL13XU	P
6	2024B2310	Reaction analyses of layered oxides and carbonate	Akira Miura	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	0.25	BL13XU	P
7	2024B2311	X-ray Imaging Study of Li-ion Battery	Hisao Yamashige	Toyota Motor Corporation	Japan	Industry	Industrial Applications	3	BL20XU	P
8	2024B2312	Revealing zeolite crystallization mechanism using synchrotron X-ray multiscale CT	Toru Wakihara	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	2	BL20XU	P
9	2024B2314	3D vasualization of human cardiac conduction system	Tomokazu Kawashima	Toho University	Japan	Educational Organization	Medical Applications	0.25	BL20B2	P
10	2024B2321	Observation of altered area in glass by X-ray CT	Masaaki Nagao	Nippon Electric Glass Co.,Ltd.	Japan	Industry	Industrial Applications	1	BL47XU	P
11	2024B2322	Electronic/Local Structural Analysis for Li-ion battery materials 3	Toyoki Okumura	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Industrial Applications	3	BL14B2	P
12	2024B2325	Comparative survey of residual stress distribution before and after torsion testing of quenched and tempered high carbon steel.	koji Yamamoto	Komatsu Ltd.	Japan	Industry	Industrial Applications	2	BL19LXU	P
13	2024B2326	Non-destructive observation of internal structure of engineering ceramics using SR-CT	Ryo Oosone	KYOCERA Corporation	Japan	Industry	Industrial Applications	2	BL20XU	P
14	2024B2330	Evaluation of the mechanism of action of liquid embolic materials (Lipiodol, Lipiodol and Optiray emulsion) in a rabbit ear inflammation model.	Hiroki Nakamura	Kawasaki Medical School	Japan	Educational Organization	Medical Applications	3	BL20B2	P
15	2024B2332	X-ray crystallography of protein-complex for creation of new proteins	Motoki Tanaka	JSR Corporation	Japan	Industry	Life Science	0.5	BL45XU	P
16	2024B2336	Mass Transport Analysis in Toluene Direct Hydrogenation Electrolyzer	Takuto Araki	Yokohama National University	Japan	Educational Organization	Industrial Applications	3	BL20B2	P
17	2024B2344	Observation of the upper part of LiB	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	0.125	BL20B2	P
18	2024B2352	3D observation of precision devices	Saotoru Masai	Seiko Epson Corporation	Japan	Industry	Industrial Applications	2	BL20XU	P
19	2024B2353	Multi-scale CT measurements of polymers	Takanori Itoh	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	1	BL20XU	P
20	2024B2356	Structure analysis by X-ray CT	Sho Ito	DIC Corporation	Japan	Industry	Materials Science and Engineering	1	BL47XU	P
21	2024B2357	Analysis of the internal structure of electrodes in all-solid-state batteries	Takanori Kobayashi	Honda R&D Co.,Ltd.	Japan	Industry	Industrial Applications	1	BL47XU	P
22	2024B2366	Compositional analysis of Al/Ni nano layered foil before and after self-propagating high temperature synthesis	Jun Yamashita	Yazaki Corporation	Japan	Industry	Industrial Applications	0.25	BL13XU	P
23	2024B2370	X ray CT observation of all solid state battery	Chulho Song	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	2	BL20XU	P
24	2024B2382	Observation of glass specimens	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	0.25	BL20B2	P
25	2024B2383	Visualization of formation path of layered oxides	Akira Miura	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	1	BL02B2	P
26	2024B2384	Structural observation of porous materials	Takafumi Kawanishi	Nitto Analytical Techno-Center Co., Ltd.	Japan	Industry	Industrial Applications	1	BL47XU	P
27	2024B2391	In-Situ Analysis of Water Electrolysis Electrode	Yusuke Iida	Kawasaki Heavy Industries, Ltd.	Japan	Industry	Industrial Applications	0.5	BL14B2	P
28	2024B2393	Multi-scale CT observation of alloys	Takanori Itoh	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	1	BL20XU	P
29	2024B2397	Analysis of Rh valence in solution	Ryosuke Yamamoto	Toyota Motor Corporation	Japan	Industry	Materials Science and Engineering	0.5	BL01B1	P
30	2024B2402	Structural and volumetric behavior of an organic cathode during charging and discharging process by operando X-ray CT scan.	Shuntaro Miyakawa	SoftBank Corp.	Japan	Industry	Materials Science and Engineering	2	BL20XU	P
31	2024B2404	Observation of inorganic/organic composite materials	Hiroaki Kakinuma	GC JAPAN	Japan	Industry	Industrial Applications	0.25	BL47XU	P

2024B, 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)
32	2024B2407	Data collection for protein crystals and Structural determination of target proteins for drug discovery	Ping Huang	Pharmaron Beijing Co., Ltd.	China	Foreign	Life Science	0.5	BL45XU	P
33	2024B2410	XAFS analysis in magnetic materials	Tetsuya Nakamura	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	1	BL01B1	P
34	2024B2414	X-ray CT Imaging of All-Solid-State Battery Materials	Toyoki Okumura	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Chemical Science	0.5	BL28B2	P
35	2024B2419	Structure analysis of Fe-C nanoparticles	Akira Miura	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	0.125	BL02B2	P
36	2024B2420	X-ray crystallography of protein-complex for creation of new proteins (1)	Shunsuke Onogi	JSR Corporation	Japan	Industry	Life Science	0.5	BL41XU	P
37	2024B2421	X-ray crystallography of protein-complex for creation of new proteins (2)	Shunsuke Onogi	JSR Corporation	Japan	Industry	Life Science	0.25	BL41XU	P
38	2024B2422	Observation of metal materials	Keisuke Itoh	Industrial Technology Institute, Miyagi Prefectural Government	Japan	National and Nonprofit Organization	Industrial Applications	0.25	BL47XU	P
39	2024B2429	Single Crystal Structure Analysis of Sulfur-Based Resin	Sho Ito	DIC Corporation	Japan	Industry	Chemical Science	0.25	BL02B1	P

2024B, 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	2024B2303	Ru chemical form analysis of paddy field soil	Yusuke Unno	Institute for Environmental Sciences	Japan	National and Nonprofit Organization	Industrial Applications	0.5	BL14B2	P
2	2024B2306	Characterization of high entropy alloy	Yoshikazu Ito	University of Tsukuba	Japan	Educational Organization	Industrial Applications	0.375	BL14B2	P
3	2024B2307	EXAFS structure analysis for catalyst powder	Hiroyuki Ishikawa	Toyota Motor Corporation	Japan	Industry	Industrial Applications	0.625	BL14B2	P
4	2024B2313	3D observation of precision machinery	Saotoru Masai	Seiko Epson Corporation	Japan	Industry	Industrial Applications	0.5	BL28B2	P
5	2024B2315	XAFS of lithium ion battery	Huishu Huang	Fudan University	China	Foreign	Industrial Applications	0.5	BL14B2	P
6	2024B2316	Powder SR-XRD measurement of battery materials	Yusuke Yasuda	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
7	2024B2317	XAFS analysis of Inorganic Materials	Yoji Matsuo	Sumitomo Chemical Company, Limited	Japan	Industry	Industrial Applications	0.5	BL14B2	P
8	2024B2318	Three-dimensional observation of metal devices	Tetsuya Hyakutake	SOKEN,INC.	Japan	Industry	Industrial Applications	2	BL28B2	P
9	2024B2319	XRD measurement of ceramic powder	Hiromi Seki	KYOCERA Corporation	Japan	Industry	Industrial Applications	0.375	BL19B2	P
10	2024B2320	3D observation of plastic materials	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	0.125	BL28B2	P
11	2024B2323	SAXS measurements of precipitates in spring steel	Shintaro Kumai	NHK Spring Co., Ltd.	Japan	Industry	Industrial Applications	0.375	BL19B2	P
12	2024B2324	3D observation of ceramic materials	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	0.125	BL28B2	P
13	2024B2327	Electronic/Local Structural Analysis for Li-ion battery materials 2	Toyoki Okumura	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Industrial Applications	0.75	BL14B2	P
14	2024B2328	Observation of ceramic materials	Yusuke Yasuda	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.375	BL28B2	P
15	2024B2329	3D observation of internal defect distribution in bronze castings	Yukihiro Taira	Takatori Seisakusho Co., Ltd.	Japan	Industry	Industrial Applications	0.125	BL28B2	P
16	2024B2333	XRD measurement of organic compounds	Masashi Ohno	Nissan Chemical Corporation	Japan	Industry	Industrial Applications	0.25	BL19B2	P
17	2024B2334	Structural Analysis of Inorganic Materials.	Kazuya Tokuda	Sumitomo Electric Industries, Ltd.	Japan	Industry	Industrial Applications	0.125	BL19B2	P
18	2024B2335	Crystal analysis in rubber	Takuji Kume	Kao Corporation	Japan	Industry	Industrial Applications	0.375	BL19B2	P
19	2024B2338	XAFS measurements of ceramics	Masayuki Omoto	Seiko Epson Corporation	Japan	Industry	Industrial Applications	0.5	BL14B2	P
20	2024B2339	X-ray diffraction measurement for functional materials	Takeshi Shimada	Proterial, Ltd.	Japan	Industry	Industrial Applications	0.375	BL19B2	P
21	2024B2340	Fe-K edge XAFS measurement of cathode active material	Qiuyi Yuan	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	0.25	BL14B2	P
22	2024B2342	3D observation of mixed rock-iron alloy samples	Ayuki Yoshizumi	Nippon Steel Corporation	Japan	Industry	Industrial Applications	1.5	BL28B2	P
23	2024B2343	Observation of the upper part of LiB	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	0.25	BL28B2	P
24	2024B2345	3D observation of rock and organic mixture samples	Akira Seo	Kyoto University	Japan	Educational Organization	Other	0.5	BL28B2	P
25	2024B2346	XAFS measurements of metallic materials	Koto Wang	School Research Co. LTD	China	Foreign	Industrial Applications	0.5	BL14B2	P
26	2024B2347	Rietveld analysis of inorganic compounds	Sho Ito	DIC Corporation	Japan	Industry	Industrial Applications	0.25	BL19B2	P
27	2024B2348	SR-XRD measurement of steel wires	Yusuke Yasuda	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
28	2024B2349	SAXS USAX analysis of Fe-Ni-Al	Sonoko Kosuga	Daido Bunseki Research, INC.	Japan	Industry	Industrial Applications	0.375	BL19B2	P
29	2024B2350	Structural analysis of crystalline ionic conductors	Naoki Matsui	Institute of Science Tokyo	Japan	Educational Organization	Industrial Applications	1	BL19B2	P
30	2024B2351	3D observation of composite materials	Shinnosuke Katsuyama	Sony Corporation	Japan	Industry	Industrial Applications	1.125	BL28B2	P
31	2024B2354	XAFS of Lithium ion battery	Zhendong Zhang	Fudan University	China	Foreign	Industrial Applications	0.25	BL14B2	P

2024B, 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)
32	2024B2355	Analysis of Shape Memory Alloy for Bone Bonding Using Synchrotron Radiation Nanotechnology	Takehito Hananouchi	Hiroshima University	Japan	Educational Organization	Medical Applications	0.125	BL28B2	P
33	2024B2358	SAXS study of polymer film	Yuuichi Kondou	Nitto Analytical Techno-Center Co., Ltd.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
34	2024B2359	SAXS Study of Polymer tube	Yuuichi Kondou	Nitto Analytical Techno-Center Co., Ltd.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
35	2024B2360	Structural study of polymer electrolytes using USAXS measurements	Masanori Sunagawa	DENSO CORPORATION	Japan	Industry	Industrial Applications	0.125	BL19B2	P
36	2024B2361	Microstructural evaluation of nanocrystalline soft magnetic ribbons	Hiroaki Mamiya	National Institute for Materials Science	Japan	National and Nonprofit Organization	Industrial Applications	0.25	BL19B2	P
37	2024B2362	Scattering measurements of polymer materials	Ren Tomisawa	Shinshu University	Japan	Educational Organization	Industrial Applications	0.25	BL19B2	P
38	2024B2363	XRD measurement of corrosion product powders	Takashi Doi	Nippon Steel Corporation	Japan	Industry	Industrial Applications	0.25	BL19B2	P
39	2024B2364	Powder ceramics XRD measurement	Hiromi Seki	KYOCERA Corporation	Japan	Industry	Industrial Applications	0.5	BL19B2	P
40	2024B2367	Aggregation-State Observation of Aroma compounds	Daigo Ibusuki	Suntory Global Innovation Center Limited	Japan	Industry	Industrial Applications	0.25	BL19B2	P
41	2024B2368	Ultra Small Angle Scattering Measurement of Gelatin	Masafumi Hidaka	Tohoku University	Japan	Educational Organization	Industrial Applications	0.25	BL19B2	P
42	2024B2369	SAXS measurements of steel	Shintaro Kumai	NHK Spring Co., Ltd.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
43	2024B2371	3D observation of metallic composite materials	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	0.375	BL28B2	P
44	2024B2372	3D observation of precision machinery	Saotoru Masai	Seiko Epson Corporation	Japan	Industry	Industrial Applications	0.25	BL28B2	P
45	2024B2373	Characterization of Metal Nanoparticles doped Nanoporous Materials	Anna Nagai	Kumamoto University	Japan	Educational Organization	Chemical Science	0.125	BL19B2	P
46	2024B2374	Three-dimensional observation of bar-shaped alloys	Kazuhiro Goto	Sumitomo Electric Industries, Ltd.	Japan	Industry	Industrial Applications	0.375	BL28B2	P
47	2024B2375	X-ray diffraction measurement for functional materials 2	Takeshi Shimada	Proterial, Ltd.	Japan	Industry	Industrial Applications	0.375	BL19B2	P
48	2024B2376	XRD Analysis of SmFeN	Sonoko Kosuga	Daido Bunseki Research, INC.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
49	2024B2377	Powder SR-XRD measurement of battery materials	Yusuke Yasuda	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
50	2024B2378	XAFS measurements of metallic materials	Koto Wang	School Research Co. LTD	China	Foreign	Industrial Applications	0.25	BL14B2	P
51	2024B2379	Analysis of starch accumulation in brown rice.	Hiroyuki Maki	Hyogo Prefectural Technology Center for Agriculture, Forestry and Fisheries	Japan	National and Nonprofit Organization	Industrial Applications	0.125	BL28B2	P
52	2024B2380	Structure analysis of high entropy materials	Sho Ito	DIC Corporation	Japan	Industry	Industrial Applications	0.25	BL19B2	P
53	2024B2385	Non-Destructive Analysis of Fine Precipitates in Low Carbon Steels by SAXS	Ayuki Yoshizumi	Nippon Steel Corporation	Japan	Industry	Industrial Applications	0.125	BL19B2	P
54	2024B2386	Measurement of particles in austenitic alloys	Satoshi Sugano	Nippon Steel Corporation	Japan	Industry	Industrial Applications	0.25	BL19B2	P
55	2024B2387	Small-angle scattering measurements of complex oxides_2	Jin Nakamura	Japan Metals & Chemicals Co., Ltd.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
56	2024B2388	Nanostructure analysis of fuel cell materials	Naoki Hasegawa	Toyota Central R&D Labs., Inc.	Japan	Industry	Industrial Applications	0.5	BL19B2	P
57	2024B2389	Small angle scattering measurement of catalyst	Rei Oyama	JFE Techno-Research Corporation	Japan	Industry	Industrial Applications	0.25	BL19B2	P
58	2024B2390	Effect of Bi and Cu addition to MnO2 cathode materials	Tomoya Kawaguchi	Tohoku University	Japan	Educational Organization	Industrial Applications	1	BL14B2	P
59	2024B2392	Chemical state analysis of Mo-containing catalysts	Atsushi Yao	Idemitsu Kosan Co.,Ltd.	Japan	Industry	Industrial Applications	0.75	BL14B2	P
60	2024B2394	Internal structure analysis of metal materials	Junko Mine	Ebara Corporation	Japan	Industry	Industrial Applications	0.25	BL19B2	P
61	2024B2395	Analysis of Microphase-Separated Structures from Brush Block Copolymers	Takuya Isono	Hokkaido University	Japan	Educational Organization	Chemical Science	0.125	BL19B2	P

2024B, 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)
62	2024B2396	Local Structural Analysis of Superconducting Thin Films	Maki Okube	Faraday Factory Japan LLC	Japan	Industry	Industrial Applications	0.5	BL14B2	P
63	2024B2398	3D observation of metallic materials	Ayuki Yoshizumi	Nippon Steel Corporation	Japan	Industry	Industrial Applications	0.5	BL28B2	P
64	2024B2399	3D observation of precision machinery	Saotoru Masai	Seiko Epson Corporation	Japan	Industry	Industrial Applications	0.125	BL28B2	P
65	2024B2400	3D observation of metallic steel	Ayuki Yoshizumi	Nippon Steel Corporation	Japan	Industry	Industrial Applications	0.25	BL28B2	P
66	2024B2401	XRD measurement of corrosion product powders	Takashi Doi	Nippon Steel Corporation	Japan	Industry	Industrial Applications	0.25	BL19B2	P
67	2024B2403	Local structure analysis of positive active material in secondary battery	Yuichi Ikeda	GS Yuasa International Ltd.	Japan	Industry	Industrial Applications	0.25	BL14B2	P
68	2024B2405	SAXS for solid materials	Takayuki Harano	Toyota Motor Corporation	Japan	Industry	Industrial Applications	0.375	BL19B2	P
69	2024B2406	Small-angle X-ray scattering analysis of synthesized polypeptides	Hikaru Yabuta	Hiroshima University	Japan	Educational Organization	Earth and Planetary Science	0.125	BL19B2	P
70	2024B2408	Observation of the Molecular Aggregation State of Fragrances	Taito Kobayashi	Suntory Global Innovation Center Limited	Japan	Industry	Industrial Applications	0.25	BL19B2	P
71	2024B2409	Non-destructive internal inspection of mechanical components	Kazuhisa Isegawa	Toyota Central R&D Labs., Inc.	Japan	Industry	Industrial Applications	2.5	BL28B2	P
72	2024B2412	3D observation of metallic composite materials	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	1	BL28B2	P
73	2024B2413	3D observation of precision machinery	Saotoru Masai	Seiko Epson Corporation	Japan	Industry	Industrial Applications	0.375	BL28B2	P
74	2024B2415	SAXS/USAXS Study of Polymer particles	Yuuichi Kondou	Nitto Analytical Techno-Center Co., Ltd.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
75	2024B2416	3D observation of devices	Kei Miyamoto	Sony Group Corporation	Japan	Industry	Industrial Applications	0.5	BL28B2	P
76	2024B2417	3D observation of composite resin parts	Takuji Ohsawa	KRI Inc.	Japan	Industry	Industrial Applications	0.875	BL28B2	P
77	2024B2418	Powder SR-XRD measurement of battery materials	Yusuke Yasuda	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
78	2024B2424	3D observation of rock and organic mixture samples (1)	Akira Seo	Kyoto University	Japan	Educational Organization	Other	2.625	BL28B2	P
79	2024B2425	Evaluation of crystallinity of oxide semiconductor nanoparticles	Naoyuki Shibayama	Toin University of Yokohama	Japan	Educational Organization	Industrial Applications	0.125	BL19B2	P
80	2024B2426	3D observation of rock and organic mixture samples (2)	Akira Seo	Kyoto University	Japan	Educational Organization	Other	0.5	BL28B2	P
81	2024B2427	Rietveld analysis of inorganic conpounds	Sho Ito	DIC Corporation	Japan	Industry	Chemical Science	0.125	BL19B2	P

2024B, 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	2024B0201	Optimization of leaf structure dynamics in plant adaptation to the environment	Eiji Gotoh	Kyushu University	Japan	Educational Organization	Life Science	3	BL20B2	Np
2	2024B0202	Development of X-ray polarization spatial modulation method and X-ray polarization imaging method using diffraction gratings	Wataru Yashiro	Tohoku University	Japan	Educational Organization	Beamline Engineering	6	BL20XU	Np
3	2024B0203	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 (II)	Naomi Kawamura	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Chemical Science	20.875	BL13XU	Np
4	2024B0204	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 (II)	Naomi Kawamura	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Chemical Science	17.875	BL46XU	Np
5	2024B0205	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 (II)	Naomi Kawamura	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Chemical Science	18	BL39XU	Np
6	2024B0206	Nondestructive three-dimensional internal structure analysis of steel using synchrotron radiation X-ray imaging	Ayuki Yoshizumi	Nippon Steel Corporation	Japan	Industry	Industrial Applications	6	BL47XU	Np
7	2024B0207	Nondestructive three-dimensional internal structure analysis of steel using synchrotron radiation X-ray imaging	Ayuki Yoshizumi	Nippon Steel Corporation	Japan	Industry	Industrial Applications	6	BL20XU	Np
8	2024B0208	Nondestructive three-dimensional internal structure analysis of steel using synchrotron radiation X-ray imaging	Ayuki Yoshizumi	Nippon Steel Corporation	Japan	Industry	Industrial Applications	6	BL20B2	Np
9	2024B0209	Nondestructive three-dimensional internal structure analysis of steel using synchrotron radiation X-ray imaging	Ayuki Yoshizumi	Nippon Steel Corporation	Japan	Industry	Industrial Applications	5	BL28B2	Np
10	2024B0210	Killer defects visualization and dynamic strain investigation of GaN vertical power devices using time-resolved nanobeam X-ray diffraction under device operation	Yusuke Hayashi	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	5	BL13XU	Np
11	2024B0211	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	34	BL41XU	Np
12	2024B0212	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	16	BL45XU	Np
13	2024B0213	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	60	PX-BL(EM01CT)	Np
14	2024B0214	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	33	PX-BL(EM02CT)	Np
15	2024B0215	Structural Analysis of Nanoparticles Dispersion Stabilized by Cyclic Polymers	Takuya Yamamoto	Hokkaido University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
16	2024B1001	A Study on the Discrimination of Primary and Secondary Molten Marks in Electric Wire by 3-Dimensional Microstructural Analysis in Fire Investigation	Yasuhiro Sato	National Research Institute of Fire and Disaster	Japan	Educational Organization	Materials Science and Engineering	4	BL28B2	Np
17	2024B1002	Microcrack observation in glass-ceramics aiming dental materials.	Kei Maeda	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	5	BL20XU	Np
18	2024B1003	Correlation between degradation and crystallization of polymers	Go Matsuba	Yamagata University	Japan	Educational Organization	Chemical Science	1	BL40XU	Np
19	2024B1004	PDF analysis of amorphous materials with hyper-ordered structure	Hirokazu Masai	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL04B2	Np
20	2024B1005	In-situ synchrotron X-ray CT observation of interface delamination and crack propagation in CMC during tensile test	Gaku Okuma	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	5	BL20XU	Np
21	2024B1006	Structural Study for 2.5 dimensional thin films	Eiji Nishibori	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	2	BL41XU	Np
22	2024B1007	Three-dimensional visualization of supplementary domains in a grain-oriented electrical steel sheet	Toshiya Inami	National Institutes for Quantum Science and Technology	Japan	National and Nonprofit Organization	Industrial Applications	6	BL36XU	Np
23	2024B1008	operando X-ray CT analysis of Lithium-ion battery silicon anode	Yuki Orikasa	Ritsumeikan University	Japan	Educational Organization	Chemical Science	5	BL20XU	Np
24	2024B1009	Electronic structure change analysis of sulfide solid electrolyte under humidity condition by using soft X-ray absorption spectroscopy (4)	Kentaro Yamamoto	Nara Women's University	Japan	Educational Organization	Chemical Science	6	BL27SU	Np
25	2024B1010	Degradation Mechanism Analysis of High Nickel Cathode Materials for Lithium-ion Batteries by Soft X-ray Absorption Spectroscopy	Kentaro Yamamoto	Nara Women's University	Japan	Educational Organization	Chemical Science	6	BL27SU	Np
26	2024B1012	Clarification of a main crack of CFRP laminate under cyclic loads	Kosuke Takahashi	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	9	BL20XU	Np
27	2024B1014	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	6	BL04B2	Np
28	2024B1015	Visualizing Liquid Water in PEFC using Compton Scattering Imaging	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Industrial Applications	12	BL08W	Np

2024B, 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)
29	2024B1016	Observation of liquid water in gas diffusion layer and catalyst layer of polymer electrolyte fuel cells using operando CT (8)	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Chemical Science	12	BL20XU	Np
30	2024B1017	3D analysis of hydrogen embrittlement suppression behaviour in grain boundary character-controlled structural materials using multimodal imaging combined with CT and XRD.	Kyosuke Hirayama	Kagawa University	Japan	Educational Organization	Materials Science and Engineering	9	BL20XU	Np
31	2024B1018	Analysis of Radical Quencher Transport Phenomena in MEA of Polymer Electrolyte Fuel Cells by High-Energy Micro-Focused X-ray Fluorescence Spectroscopy	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Other	20.75	BL37XU	Np
32	2024B1019	Analysis of Unsafety Phenomena in Lithium-ion Secondary Batteries with Nickel-based High Capacity Cathode (4)	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	12	BL28B2	Np
33	2024B1020	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	6	BL40B2	Np
34	2024B1021	Evaluation of molecular aggregation state in oriented Nafion membrane	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Chemical Science	6	BL40XU	Np
35	2024B1022	Investigation of Li dendrite deposition mechanism in lithium-ion secondary batteries with concentrated electrolyte using X-ray computed tomography (2)	Toshiki Watanabe	Kyoto University	Japan	Educational Organization	Chemical Science	4	BL20XU	Np
36	2024B1023	Quantification of mechanism of Li dendrites and reaction distribution generation in all-solid-state battery electrodes using X-ray computed tomography (3)	Toshiki Watanabe	Kyoto University	Japan	Educational Organization	Chemical Science	12	BL20XU	Np
37	2024B1024	Structure analysis of fuel cell catalyst and catalyst layer by FT-IR with high brilliance infrared synchrotron radiation	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Industrial Applications	6	BL43IR	Np
38	2024B1025	II. Observation of the surface layer formation process of iridium-based oxides as solid-state macromolecular water electrolysis anode catalysts by in-situ PDF analysis	Koji Ohara	Shimane University	Japan	Educational Organization	Materials Science and Engineering	9	BL08W	Np
39	2024B1026	Structural analysis of amorphous/crystalline composites for all-solid-state batteries by PDF technique	Koji Ohara	Shimane University	Japan	Educational Organization	Materials Science and Engineering	15	BL04B2	Np
40	2024B1027	Cell-scale analyses of morphological variations in Corallina (Rhodophyta) in response to environmental changes	Miho Kitazawa	Osaka University	Japan	Educational Organization	Life Science	6	BL20B2	Np
41	2024B1028	operando soft X-ray absorption spectroscopy study of IrO2 catalyst for Polymer Electrolyte Water Electrolysis	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	27	BL27SU	Np
42	2024B1029	Electronic structure analysis of water electrolysis catalysts using high-resolution X-ray absorption spectroscopy	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	18	BL39XU	Np
43	2024B1030	Structural Analysis of PEMWE Iridium Oxides by X-ray Total Scattering・PDF Analysis	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL04B2	Np
44	2024B1031	Crystal Structure Analysis for Designing New Protein Functions	Eriko Nango	Tohoku University	Japan	Educational Organization	Life Science	0.5	BL45XU	Np
45	2024B1032	XAFS studies on uranium in bone tissues	Shino Takeda	National Institutes for Quantum Science and Technology	Japan	National and Nonprofit Organization	Medical Applications	9	BL37XU	Np
46	2024B1033	Wide-field imaging of uranium in bone tissues	Shino Takeda	National Institutes for Quantum Science and Technology	Japan	National and Nonprofit Organization	Medical Applications	9	BL20B2	Np
47	2024B1034	Analysis of Charge Compensation Mechanism of Nickel-Based High-Capacity Cathode Materials by operando Soft X-ray Absorption Spectroscopy	Toshiki Watanabe	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL27SU	Np
48	2024B1035	Relationship between intermediate-range structure and physicochemical properties in crystalline hyper-ordered structure oxides with network structure	Naoto Kitamura	Tokyo University of Science	Japan	Educational Organization	Chemical Science	3	BL44B2	Np
49	2024B1036	Fine structure analysis of catalysts for converting energy carrier	Yasushi Sekine	Waseda University	Japan	Educational Organization	Chemical Science	5.875	BL14B2	Np
50	2024B1037	Crystal Structure Control in Thin Films of Non-fullerene Electron Acceptor Materials And Its Application to Organic Solar Cells	Keisuke Tajima	RIKEN	Japan	National and Nonprofit Organization	Industrial Applications	3	BL13XU	Np
51	2024B1038	Evaluation of Fermi Level of Insulating Materials by AP-XPS	Seiji Kawasaki	Murata Manufacturing Co., Ltd.	Japan	Industry	Materials Science and Engineering	2	BL46XU	Np
52	2024B1039	Observation of elasto-plastic deformation behavior in Al-Fe-X alloy manufactured by LPBF or EBM	Hiroki Adachi	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	2.875	BL13XU	Np
53	2024B1040	Origin of Differences in Phase Transition Behavior between Bulk Ferroelectric Ceramic Materials and Their Crushed Powder Materials	Shintaro Ueno	University of Yamanashi	Japan	Educational Organization	Materials Science and Engineering	6	BL13XU	Np
54	2024B1041	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
55	2024B1042	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

2024B, 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)
56	2024B1043	In situ synchrotron X-ray diffraction of intercalation into multilayer graphene with changing number of layers and temperature	Eiji Nishibori	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	2	BL13XU	Np
57	2024B1044	Structural degradation investigation of Li-excess layered cathode material Li2MnO3 with LiF passivation film through charge/discharge process	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
58	2024B1045	Structural and electronic structure analysis of alkaline water electrolysis anode catalysts by X-ray absorption spectroscopy for screening based on performance and degradation dominant factors	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	9	BL01B1	Np
59	2024B1767	A study on the migration of uranium and other elements in Ningyo-Toge Center (former uranium deposit) based on the XAFS analysis	Kouhei Tokunaga	Japan Atomic Energy Agency	Japan	National and Nonprofit Organization	Earth and Planetary Science	6	BL01B1	Np
60	2024B1768	Quantification of the volume fraction of intermetallic compounds in Al-X alloys fabricated by additive manufacturing	Hiroki Adachi	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	2	BL19B2	Np
61	2024B1769	Microstructural Analysis of Ru Catalysts for Ammonia Synthesis and Decomposition	Yasushi Sekine	Waseda University	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
62	2024B1770	Structure physics of Ag doped ZnSb.	Eiji Nishibori	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	2	BL13XU	Np
63	2024B1771	Evaluation of new dyeing process with cellulose nanofibers	Go Matsuba	Yamagata University	Japan	Educational Organization	Industrial Applications	3	BL19B2	Np
64	2024B1772	Investigation of the in-plane orientation-dependent surface fine structure of Ir oxide single crystals under the oxygen evolution reaction using operando total-reflection X-ray absorption spectroscopy	Naoto Todoroki	Tohoku University	Japan	Educational Organization	Chemical Science	3	BL14B2	Np
65	2024B1773	Identification of high-density metastable structures induced from dense lattice defects	Tomokazu Sano	Osaka University	Japan	Educational Organization	Materials Science and Engineering	6	BL13XU	Np
66	2024B1774	Time-resolved crystal structure analysis under AC electric field for fluctured ferroelectric ceramics	Yoshihiro Kuroiwa	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	6	BL13XU	Np
67	2024B1775	Elucidation of molecular adsorption mechanism on cluster hybrid materials by in-situ XAFS measurements	Seiji Yamazoe	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	15	BL01B1	Np
68	2024B1776	Structural investigation on perovskite-type F- ion conducting ande energy storage Devices	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
69	2024B1777	Efficient Exploratory Synthesis of Quaternary Cesium Halides Guided by In Silico Predictions	Akira Miura	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
70	2024B1778	Studies of positive and negative electrode for Na-ion batteries using near ambient pressure hard X-ray photoelectron spectroscopy	Satoshi Yasuno	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL46XU	Np
71	2024B1779	Structural Metallic Materials Managing Ultra High Strength and Large Ductility by High-Order Control of Deformation: Clarifying Deformation Mechanisms by in-situ Synchrotron XRD (1)	Nobuhiro Tsuji	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL13XU	Np
72	2024B1780	Structure analysis of polymer electrolyte fuel cell catalyst by X-ray diffraction	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Industrial Applications	2	BL19B2	Np
73	2024B1781	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
74	2024B1782	In situ synchrotron X-ray diffraction of mechanochemical synthesis using green solvent	Hidetaka Kasai	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	2	BL13XU	Np
75	2024B1783	Research on the relationship between corrosion of EfW boiler tubes and its deposit under O2/CO2 combustion	Hiroki Harada	Kyoto University	Japan	Educational Organization	Environmental Science	6	BL01B1	Np
76	2024B1949	Photoelectron holography experiments for tender x-ray	Yusuke Hashimoto	Nara Institute of Science and Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL27SU	Np
77	2024B1970	Improvement of lead halide perovskite solar cells by passivation with bifacial molecules	Akinori Saeki	Osaka University	Japan	Educational Organization	Industrial Applications	2	BL13XU	Np
78	2024B1971	Structual analysis for solution, gel, fibrillar materials and films with CNF and other polymers	Go Matsuba	Yamagata University	Japan	Educational Organization	Industrial Applications	3	BL19B2	Np
79	2024B1972	Local structure analysis of bond cleavage in oxyhalides	Daichi Kato	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
80	2024B1973	Elucidating the crystal structure of a new magnetic oxide Sr2PtO4 synthesized by molecular beam epitaxy	Hideki Yamamoto	Nippon Telegraph and Telephone Corporation	Japan	Industry	Industrial Applications	3	BL13XU	Np
81	2024B1974	State analysis of redox materials that contribute to the recycling of carbon dioxide using the chemical looping method	Yasushi Sekine	Waseda University	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
82	2024B1975	Hard X-ray photoemission measurements of novel semiconductors and devices for development of energy saving materials	Shigenori Ueda	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL09XU	Np
83	2024B1976	Temperature dependence of X-ray absorption fine structure in hyper-ordered structure	Hirokazu Masai	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL14B2	Np
84	2024B1977	In situ synchrotron X-ray diffraction of mechanochemical reaction of coordination polymers	Hidetaka Kasai	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	2	BL13XU	Np

2024B, Performed Non-Proprietary Grant-Aided Proposals

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S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
85	2024B1978	Measurement of effect of hydrogen on change in disloacation density with tensile deformation in hydrogen-filled stainless steel using in-situ X-ray diffraction tensile test No.6 Lowtemperature tensile test	Shiro Torizuka	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	1	BL13XU	Np
86	2024B1979	Clarification of the chemical state of Cs and I adsorbed onto geopolymer solidification material	Yusuke Watanabe	Japan Atomic Energy Agency	Japan	National and Nonprofit Organization	Earth and Planetary Science	5.875	BL01B1	Np