

2022B, 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	2022B0504	Verification of anomalous valence Ru3+ in perovskite LnRuO3 thin films	Hiroshi Kumigashira	Tohoku University	Japan	Educational Organization	Chemical Science	3	BL14B2	Np
2	2022B0508	Application of synchrotron radiation in materials crystallography	Bo Iversen	University of Aarhus	Denmark	Foreign	Materials Science and Engineering	9	BL02B1	Np
3	2022B0509	The characterization of denary high-entropy oxide nanoparticles by X-ray absorption spectroscopy	Kohei Kusada	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL01B1	Np
4	2022B0510	The analysis of element-selective local dynamics in high-entropy alloy nanoparticles with XAFS	Hiroshi Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	12	BL01B1	Np
5	2022B0511	HAXPES analysis of interface in electroless plating on Cyclo olefin polymer with Vacuum Ultraviolet modification.	Taro Arimoto	Ushio Inc.	Japan	Industry	Materials Science and Engineering	6	BL09XU	Np
6	2022B0512	Structural investigation on metal-organic frameworks assembled from gigantic copper-organic octahedra	ShuheI Furukawa	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL02B1	Np
7	2022B0513	In situ synchrotron X-ray diffraction of mechanochemical synthesis of CuI pyrazine coordination polymers	Hidetaka Kasai	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	2.875	BL13XU	Np
8	2022B0515	Elucidation of strain state in InP/InAs/InP heterostructure nanowires	Guoqiang Zhang	Nippon Telegraph and Telephone Corporation	Japan	Industry	Materials Science and Engineering	9	BL13XU	Np
9	2022B0516	In situ synchrotron X-ray diffraction for formation of stacking faults during surfactant-free supercritical and subcritical hydrothermal synthesis of copper nanoparticles	Hidetaka Kasai	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
10	2022B0519	Development of Highly Active and Durable Precious Metal Phosphide Catalysts for the Reduction of Sulfar-containing Compounds and Investigation of Their Structure-Activity Relationship	Takato Mitsudome	Osaka University	Japan	Educational Organization	Chemical Science	3	BL01B1	Np
11	2022B0521	Crystal structure determination of sulfur-containing cobalt MOF synthesized based on materials informatics	Daisuke Tanaka	Kwansei Gakuin University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
12	2022B0522	Investigation of morphological changes mechanism of doxorubicin-loaded liposome depending on temperature by in situ USAXS (2)	Kenjirou Higashi	Chiba University	Japan	Educational Organization	Industrial Applications	3	BL19B2	Np
13	2022B0524	XAFS analysis of the local structure of PdAu alloy nanoparticles supported on metal oxides with low surface area	Hiroki Miura	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	5.75	BL14B2	Np
14	2022B0525	Unveiling the structure-performance relationship over mixed-metal metal-organic framework-based Electrocatalysts for Electrochemical Synthesis of Ammonia	Susumu Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL14B2	Np
15	2022B0526	Structural Investigation of room temperature CO2 gas sorption processes of flexible porous coordination polymer	Susumu Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
16	2022B0527	In situ XAS Study on Pt Catalyst Supported onto Metal Nitrides for Oxygen Reduction Reaction	Hiroyuki Asakura	Kindai University	Japan	Educational Organization	Chemical Science	9	BL14B2	Np
17	2022B0528	In situ monitoring iron catalysts under sequential N2 and alcohol atmosphere	Ning Yan	National University of Singapore	Singapore	Foreign	Chemical Science	6	BL14B2	Np
18	2022B0530	Structure Study of environmentally friendly copper sulfide thermoelectrics by single crystal x-ray diffraction and diffuse scattering analysis.	Eiji Nishibori	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
19	2022B0532	Unveiling mechanism of low temperature ammonia synthesis reaction under microwaves	Fuminao Kishimoto	The University of Tokyo	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
20	2022B0534	Operando Hard X-ray Photoelectron Spectroscopy (HAXPES) analysis of Lead free FASnI3 perovskite solar cell: Doping and barrier layer effects.	Ibrahima Gueye	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL09XU	Np
21	2022B0535	Construction of a combined measurement system of resonant X-ray spectroscopies for clarification of valence fluctuation mechanism in strong correlated 4f electron compounds	Kojiro Mimura	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	11.5	BL09XU	Np
22	2022B0536	Average and Local Structural Investigation of Anion Order-Disorder Transition in Molecular Solids Containing Anion Dimers	Tong Zhu	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
23	2022B0537	Utilization of hard X-ray photoemission for Characterization of electronic structure and analysis of local structure toward development of novel energy saving materials	Shigenori Ueda	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL09XU	Np

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24	2022B0538	Local structure analysis in gas adsorption state of porous coordination polymers	Yoshiki Kubota	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	6	BL13XU	Np
25	2022B0539	In situ study of dealumination in zeolites	Shik Chi Edman Tsang	University of Oxford	UK	Foreign	Materials Science and Engineering	6	BL02B2	Np
26	2022B0541	Local Structure Analysis of Cathode Additives for Lead Acid Batteries using XAFS (1)	Tomoki Uchiyama	Kyoto University	Japan	Educational Organization	Industrial Applications	6	BL14B2	Np
27	2022B0543	In-situ powder diffraction 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
28	2022B0544	Elucidation of caffeine-dicarboxylic acid complexes of co-crystal by quantum crystallography	Kunihiisa Sugimoto	Kindai University	Japan	Educational Organization	Chemical Science	2.875	BL02B1	Np
29	2022B0545	Structure elucidation of microenvironment with metal-Brønsted acid pair in zeolite-based catalysts in the regulation of catalytic selectivity	Benedict Lo	The Hong Kong Polytechnic University	Hong Kong	Foreign	Chemical Science	6	BL02B2	Np
30	2022B0550	Distortion of the BiBr6 octahedron and possible Cs disorder in Cs3Bi2Br9 induced liquid-like heat capacity	Jiawang Hong	Beijing Institute of Technology	China	Foreign	Materials Science and Engineering	3	BL02B1	Np
31	2022B0551	Light-induced phase transformation of flexible two-dimensional materials based on rhodium-organic triangles under gas sorption processes	Javier Lopez	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	5.875	BL02B2	Np
32	2022B0552	Elucidation of Thermoelectric Properties for pi-Conjugated Metal Complexes by Single-Crystal X-ray Diffraction Analysis	Michihisa Murata	Osaka Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	2.875	BL02B1	Np
33	2022B0553*	Exploration of new Ruddlesden – Popper-type layered oxide ferroelectrics	Koji Fujita	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
34	2022B0554	Relationship between stress distribution and microstructure in thermal barrier coating sprayed with fine particles subjected to in-plane compression	Yasuhiro Yamazaki	Chiba University	Japan	Educational Organization	Industrial Applications	8.625	BL19B2	Np
35	2022B0555	Formation mechanism of Ru-Pd alloy nanoparticles in room-temperature flow synthetic process	Satoshi Watanabe	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
36	2022B0559	Synthetic reaction design based on the kinetic barriers of metastable high-entropy thermoelectric materials	Aichi Yamashita	Tokyo Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
37	2022B0566	High-Rate Electrolysis of CO2 to Ethanol on Cu/Co Catalysts	Kazuhide Kamiya	Osaka University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
38	2022B0569	Structure analysis based on synchrotron X-ray powder diffraction of novel ionic conductors	Kotaro Fujii	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	5.75	BL02B2	Np
39	2022B0571	Clarification of structural aspects for intensified circularly polarized luminescence by the manipulation of linearly polarized luminescence based on monolayer stacking system	Miki Hasegawa	Aoyama Gakuin University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
40	2022B0572	Thermal vibration evaluation of high Ge composition bulk SiGe by XAFS	Kazutoshi Yoshioka	Meiji University	Japan	Educational Organization	Materials Science and Engineering	11.875	BL14B2	Np
41	2022B0573	Structure fluctuation in rock-salt-type MCl (M = Li, Na, K) by analyses of pair-distribution function and probability distribution function	Chikako Moriyoshi	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
42	2022B0574	Operand analysis of formation and structure of boundary films in lubricated areas by synchrotron X-ray diffraction technique	Kazuyuki Yagi	Kyushu University	Japan	Educational Organization	Industrial Applications	6	BL13XU	Np
43	2022B0575	XAFS measurement of novel palladium(II) radical complexes	Tsubasa Omoda	Tokyo Institute of Technology	Japan	Educational Organization	Chemical Science	0.875	BL01B1	Np
44	2022B0577	Establishment of a geochemical exploration method for IADs by XAFS analysis of weathered granite samples as candidates for rare earth ion adsorption type deposits (IADs)	Yoshio Takahashi	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	5.875	BL01B1	Np
45	2022B0578	Structure analysis of hydrophobic aggregation in hydrogels with hydrophobic cyclodextrins acting as reversible and movable cross-links	Ryohei Ikura	Osaka University	Japan	Educational Organization	Materials Science and Engineering	1	BL19B2	Np
46	2022B0581	Development of an in-situ powder X-ray diffraction measurement system under high temperature and rapid heating conditions using an infrared heating equipment	Shintaro Kobayashi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL13XU	Np
47	2022B0582	Surface structure of Pt electrode at the operation temperature of fuel cells	Masashi Nakamura	Chiba University	Japan	Educational Organization	Chemical Science	12	BL13XU	Np

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48	2022B0583	Observation of relationship between void generation and agglomerate structure change during rubber elongation	Tatsuya Kikuchi	Sumitomo Rubber Industries, Ltd.	Japan	Industry	Materials Science and Engineering	5.625	BL19B2	Np
49	2022B0586	Investigation of increased durability of bimetallic catalysts for the selective deoxygenation	Tomoo Mizugaki	Osaka University	Japan	Educational Organization	Chemical Science	3	BL14B2	Np
50	2022B0587	Effects of Oxygen Plasma Treatment by AR-HAXPES on AlScN	Hiroshi Nohira	Tokyo City University	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np
51	2022B0589	Rapid X-Ray Crystallographic Analysis of New d- π Electron Systems Containing Heavier Main Group Elements for Materials Development	Shogo Morisako	University of Tsukuba	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
52	2022B0590	Study on relationship between property of chemical bond in Ru-based oxide catalysts and stability during oxygen evolution reaction	Kousuke Beppu	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
53	2022B0591	Time-resolved lattice strain mapping on surfaces of piezoelectric oscillators	Shinobu Aoyagi	Nagoya City University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
54	2022B0593	XAFS observation of local structure of supported silver nanoparticle – polyoxometalate composites for developing the design strategy	Soichi Kikkawa	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
55	2022B0595	Evaluations of Structure and Electronic Properties of Electric Conductive Materials Based on Charged π -Electronic Systems	Yohei Haketa	Ritsumeikan University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B1	Np
56	2022B0596	Phase Behavior of Polyoxyethylene-Type Nonionic Surfactants with Multi-Branched Chains	Tomokazu Yoshimura	Nara Women's University	Japan	Educational Organization	Materials Science and Engineering	6	BL19B2	Np
57	2022B0597	In-Situ Observation of Nanoparticles Alloying via Element-Selective Galvanic Replacement	Ryota Sato	Kyoto University	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
58	2022B0598	The exploration of phase behavior on multi-element alloy nanoparticles with in situ PXRD	Hiroshi Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
59	2022B0599	Investigation of annealing conditions for organic-inorganic halide perovskite crystals	Naoyuki Shibayama	Toin University of Yokohama	Japan	Educational Organization	Chemical Science	2	BL19B2	Np
60	2022B0600	Effect of hydride ion on crystal structure and local structure of BaTiO ₃ -BaLiH ₃ -based oxyhydride perovskites	Yuki Sasahara	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
61	2022B1105	Observation of anisotropic phonon excitation in dimeric liquid crystals by inelastic X-ray scattering	Junko Morikawa	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL35XU	Np
62	2022B1106	Probing the Origin of Anomalous Thermal Transport in CrN Thin Film with Inelastic X-Ray Scattering	Bivas Saha	Jawaharlal Nehru Centre for Advanced Scientific Research	India	Foreign	Materials Science and Engineering	17.625	BL35XU	Np
63	2022B1107	Defining the molecular pathophysiology of Troponin T-related muscle diseases	Julien Ochala	University of Copenhagen	Denmark	Foreign	Life Science	12	BL40XU	Np
64	2022B1109	In situ observation of one-dimensional growth of graft copolymer assemblies by SAXS	Tomoki Nishimura	Shinshu University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
65	2022B1113	Visualisation of the functional governing factors of Heusler alloys by PEEM and machine learning	Masato Kotsugi	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	15	BL17SU	Np
66	2022B1116	Synthesis of Ternary Superconducting Superhydride LaXH ₈	Yanming Ma	Jilin University	China	Foreign	Materials Science and Engineering	9	BL10XU	Np
67	2022B1117	3D analysis of hydrogen-affected crack opening/phase transformation behavior in a structural material using imaging CT and XRD -STEP2: Effect of solute hydrogen on the phase transformation behavior-	Osamu Takakuwa	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	11.625	BL20XU	Np
68	2022B1118	Feasibility study for a fast measurement of x-ray magnetic circularly polarized emission microscopy using a pink beam	Toshiya Inami	National Institutes for Quantum Science and Technology	Japan	National and Nonprofit Organization	Industrial Applications	14.875	BL36XU	Np
69	2022B1119	Polymer chain end effects on aggregation behavior of thermoresponsive star polymers	Ken Terao	Osaka University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
70	2022B1120	Micellar structure of amphiphilic polysaccharide derivatives in aqueous solution and complex formation behavior with small molecules	Ken Terao	Osaka University	Japan	Educational Organization	Chemical Science	3	BL40B2	Np
71	2022B1121	Degradation Mechanism of Iron Ore Pellet Reduced by Hydrogen for Zero-Carbon Ironmaking -Effect of reduction temperature on the crack formation in pellet-	Taichi Murakami	Tohoku University	Japan	Educational Organization	Industrial Applications	6	BL28B2	Np
72	2022B1125	Observation of drug-supportable inorganic particles deposited on pore surface of glass-bead sintered body using X-ray tomography	Shingo Machida	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	9	BL20XU	Np

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73	2022B1126	Relationship between metal-insulator transition line and structural phase transition line of superconducting spinel compound CuRh ₂ X ₄ (X = S, Se) under pressure	NAOYUKI KATAYAMA	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	9	BL10XU	Np
74	2022B1128	Mechanism of colloidal stability of DNA-functionalized nanoparticles	Masahiro Fujita	RIKEN	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL40B2	Np
75	2022B1130	Search for quantum liquid crystal states that appear locally in quantized systems containing light transition metals.	NAOYUKI KATAYAMA	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	23.125	BL04B2	Np
76	2022B1131	Evaluation of aggregation state of molecules with POSS	Tomoyasu Hirai	Osaka Institute of Technology	Japan	Educational Organization	Chemical Science	5.625	BL40B2	Np
77	2022B1132	Studies on non-linear compression property of two-dimensional metal-organic frameworks consisting of undulating layers	Ryo Ohtani	Kyushu University	Japan	Educational Organization	Chemical Science	6	BL10XU	Np
78	2022B1134	Studies on the hydration states and librational modes in nano-confined water networks with far-infrared microspectroscopy	Hiroshi Matsui	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	3	BL43IR	Np
79	2022B1135	Dynamic observation of hydrogen-related micro-defects located on the surface layer of corrosion resistant metallic materials	Keitaro Horikawa	Osaka University	Japan	Educational Organization	Materials Science and Engineering	6	BL20B2	Np
80	2022B1136	Photo-reactivity and the crystal orientation of the polycrystal of chiral diarylethene generated by the sublimation method	Kingo Uchida	Ryukoku University	Japan	Educational Organization	Chemical Science	3	BL40XU	Np
81	2022B1137	The stability of SiO ₂ -XOOH solid solution in Earth's lower mantle	Masayuki Nishi	Osaka University	Japan	Educational Organization	Earth and Planetary Science	12	BL04B1	Np
82	2022B1138	Water Adsorption Behavior on Hydroxylated π -Conjugated Molecules	Yoshifumi Hashikawa	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL43IR	Np
83	2022B1139	Microstructural analysis of deforming magma by time-resolved X-ray diffraction	Satoshi Okumura	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	12	BL47XU	Np
84	2022B1140	Elucidation of humidity dependence of conformation and water molecules absorption of crystalline or amorphous oriented polysaccharide films	Go Matsuba	Yamagata University	Japan	Educational Organization	Chemical Science	18	BL43IR	Np
85	2022B1141	Composition Dependent Periodic-Aperiodic Structure Transition in the Pentablock Quarterpolymer of the AB1CB2D Type	Yushu Matsushita	Toyota Physical and Chemical Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL40XU	Np
86	2022B1142	The temperature and pH dependence of casein micelle structure: an in-situ SAXS study	Hideaki Takagi	High Energy Accelerator Research Organization	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL40B2	Np
87	2022B1143	Effects of gravitational environment on the 3-dimensional morphology of the plant root system architecture	Ichirou Karahara	University of Toyama	Japan	Educational Organization	Life Science	6	BL20B2	Np
88	2022B1144	Structural analysis of nanoporous structures of macrocycles and the adsorption of guest molecules characterized by polarized infrared micro-spectrometry	Shinichiro Kawano	Nagoya University	Japan	Educational Organization	Chemical Science	6	BL43IR	Np
89	2022B1146	Inelastic x-ray scattering measurements for liquid Ge _{0.2} Se _{0.8} focusing on the dynamical cross-over at small angles	Masanori Inui	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	17.875	BL35XU	Np
90	2022B1148	Simultaneous sound velocity and density measurements of iron-nickel-silicon alloys under core conditions of Mars and Mercury	Tatsuya Sakamaki	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	9	BL04B1	Np
91	2022B1149	Rapid X-Ray Crystallographic Analysis of OLED Materials by High-Brightness Microbeam	Takuji Hatakeyama	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL40XU	Np
92	2022B1150	Search for superconductivity by high-pressure synthesis of novel carbon-based network materials	Takehito Nakano	Ibaraki University	Japan	Educational Organization	Materials Science and Engineering	9	BL04B1	Np
93	2022B1151	Construction and crystallographic analysis of super low-density hexagonal frameworks	Ichiro Hisaki	Osaka University	Japan	Educational Organization	Materials Science and Engineering	8.625	BL40XU	Np
94	2022B1152	The first appearance of Chaetognatha and the oldest evidence for predation and wound-healing in the earliest Cambrian	Tsuyoshi Komiya	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	9	BL47XU	Np
95	2022B1154	Conformational Analysis of Artificial Foldamers Affected by Crystallization Conditions	Aya Tanatani	Ochanomizu University	Japan	Educational Organization	Chemical Science	6	BL26B1	Np
96	2022B1156*	Understanding Sub-nanostructure of calcium silicate hydrates and its relationship to macroscopic properties	Takahiro Ohkubo	Chiba University	Japan	Educational Organization	Materials Science and Engineering	6	BL04B2	Np

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97	2022B1157	4D-CT observation of aging process in magma	Takahiro Miwa	National Research Institute for Earth Science and Disaster Resilience	Japan	National and Nonprofit Organization	Earth and Planetary Science	9	BL20B2	Np
98	2022B1158	3D/4D multi-scale / multi-modal analyses of local deformation behaviour in dual-phase steels	Hiroyuki Toda	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	12	BL20XU	Np
99	2022B1159	X-ray powder diffraction structural analyses of polymorphic imidoylamidinato Pt(II) complexes under high pressure and their phase transition	Keisuke Umakoshi	Nagasaki University	Japan	Educational Organization	Chemical Science	6	BL10XU	Np
100	2022B1160	Conformation and Solvation Structure of Amphiphilic Alternating Copolymers Exhibiting Cosolvency	Daichi Ida	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
101	2022B1162	Exploring Novel Polymeric Nitrogen at Ultra-high Pressures above 2.4 Megabar and High Temperatures	Cheng Ji	Center for High Pressure Science and Technology Advanced Research	China	Foreign	Materials Science and Engineering	9	BL10XU	Np
102	2022B1166	Development of analytical method for elucidating distribution of drugs in mixed power, hair and fingerprint	Yasuo Seto	RIKEN	Japan	National and Nonprofit Organization	Other	6	BL43IR	Np
103	2022B1167	Role of class IIa-HDACs in the modulation of myosin heads and sarcomere shortening in the in situ myocardium of heart failure murine models	James Pearson	National Cerebral and Cardiovascular Center	Japan	National and Nonprofit Organization	Medical Applications	15	BL40XU	Np
104	2022B1169	Advanced magnetic particle guidance for accurate guidance of gene therapies to live airway surfaces	Martin Donnelley	University of Adelaide / Women's and Children's Hospital	Australia	Foreign	Medical Applications	12	BL20XU	Np
105	2022B1170	Soft x-ray photoemission spectroscopy of room-temperature ferromagnet Q-carbon	Yuji Muraoka	Okayama University	Japan	Educational Organization	Materials Science and Engineering	9	BL25SU	Np
106	2022B1171	Exploration of elastic anomaly of aluminosilicate glasses due to structural change in aluminate at high pressures	Yoshio Kono	Ehime University	Japan	Educational Organization	Earth and Planetary Science	9	BL04B1	Np
107	2022B1174	High-resolution Compton Scattering Study of Temperature Dependence of Fermi Surfaces in High-Tc Cuprate Superconductors	Hiroyuki Yamase	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	29.625	BL08W	Np
108	2022B1176	Accurate electronic states of gases under reaction environments (2)	Yoshiharu Sakurai	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	15	BL08W	Np
109	2022B1177	Direct observation of ion distribution in an electric double layer by means of scanning fluorescence X-ray microscopy	Shimpei Ono	Central Research Institute of Electric Power Industry	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL17SU	Np
110	2022B1178	Structural analysis of the 2Fe-2S cluster in Ferredoxin using X-ray fluorescence holography	Hideaki Tanaka	Osaka University	Japan	Educational Organization	Life Science	18	BL39XU	Np
111	2022B1179	Study on the Mechanism of Low Lattice Thermal Conductivity in Geometrically Frustrated Iridium Oxide $\text{Ca}_5\text{Ir}_3\text{O}_{12}$	Kazuyuki Matsuhira	Kyushu Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL35XU	Np
112	2022B1181	Structure analysis of water in electrolyte membranes for anion-exchange fuel cell in humidity- and temperature-controlled environments	Koji Yoshida	Fukuoka University	Japan	Educational Organization	Materials Science and Engineering	9	BL04B2	Np
113	2022B1182	Investigation of Hydration Behaviors of PEGylated Nanoparticles Used for DDS	Chie Kojima	Osaka Metropolitan University	Japan	Educational Organization	Chemical Science	6	BL43IR	Np
114	2022B1183	In-situ high-speed stress/strain measurements and microseismicity in deforming olivine aggregates under the pressure-temperature conditions of subducting slabs	Tomohiro Ohuchi	Ehime University	Japan	Educational Organization	Earth and Planetary Science	11.75	BL04B1	Np
115	2022B1184	Three-dimensional observation of transformational faults developed in peridotites under the pressure and temperature conditions of Earth's mantle transition zone	Tomohiro Ohuchi	Ehime University	Japan	Educational Organization	Earth and Planetary Science	3	BL20B2	Np
116	2022B1185	Application of contrast-variation method for small-angle X-ray scattering measurement of catalyst particles	Albert Mufundirwa	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL40B2	Np
117	2022B1186	Attempt to generate 80 GPa and 3000 K simultaneously using a multi-anvil press with high-precision guide blocks -2	Tomoo Katsura	University of Bayreuth	Germany	Foreign	Earth and Planetary Science	12	BL04B1	Np
118	2022B1187	Elucidation of the origin of the two-dimensional hole gas layer generation at the interface between the aluminum oxide thin film and the diamond	Mami Fujii	Kindai University	Japan	Educational Organization	Materials Science and Engineering	5.875	BL25SU	Np
119	2022B1188	Compton scattering experiment in the d-wave superconducting state of heavy fermion compound CeCoIn_5	Akihisa Koizumi	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	26.875	BL08W	Np

2022B, Performed General Proposals

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1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
120	2022B1190	Creation of nanomaterials with 3D molecular complexity based on collaborative metal π -coordination	Yuya Domoto	The University of Tokyo	Japan	Educational Organization	Chemical Science	12	BL26B1	Np
121	2022B1191	The Mechanistic Study of the Phase Transitions between Rod-like and Discotic Liquid Crystalline Phases of ether linkage derivatives	Kingo Uchida	Ryukoku University	Japan	Educational Organization	Materials Science and Engineering	5.875	BL40B2	Np
122	2022B1193	High-magnetic-field XMCD study of the field-induced phase transition in elemental praseodymium	Shingo Yamamoto	Helmholtz-Zentrum Dresden-Rossendorf	Germany	Foreign	Materials Science and Engineering	9	BL25SU	Np
123	2022B1194	Construction of mantle seismic attenuation profile by short-period oscillation experiment Part 1	Takashi Yoshino	Okayama University	Japan	Educational Organization	Earth and Planetary Science	9	BL04B1	Np
124	2022B1195	Local structure analysis of the novel oxide-ion conductors and proton conductors by X-ray total scattering	Kotaro Fujii	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	8.75	BL04B2	Np
125	2022B1196	Deformation process of transfersomes dispersed in hydrated deep eutectic solvents during skin penetration	Mina Sakuragi	Sojo University	Japan	Educational Organization	Chemical Science	8.875	BL40XU	Np
126	2022B1197	Operando X-ray fluorescence spectroscopic study on cerium ion diffusion phenomenon in in-plane direction of polymer electrolyte fuel cells	Yuki Oriksa	Ritsumeikan University	Japan	Educational Organization	Industrial Applications	7.625	BL37XU	Np
127	2022B1198	Solution Structure of Poly(hydroxymethylene)	Akiyuki Ryoki	Kyoto University	Japan	Educational Organization	Chemical Science	3	BL40B2	Np
128	2022B1199	In-situ high speed x-ray observation of high-pressure phase transition under fast compression using a piezo actuator driven DAC	Hitoshi Yusa	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL10XU	Np
129	2022B1201	Operando X-ray CT analysis on silicon anode/electrolyte interface of all-solid state lithium battery	Yuki Oriksa	Ritsumeikan University	Japan	Educational Organization	Industrial Applications	6	BL20XU	Np
130	2022B1202	Examination of effect of stress on cubic-tetragonal phase transition of CaSO ₃ -Pv	Noriyoshi Tsujino	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Earth and Planetary Science	5.875	BL04B1	Np
131	2022B1203	Role of compost in improving phosphorus availability of Andosols in rice paddy	Noriko Yamaguchi	National Agriculture and Food Research Organization	Japan	National and Nonprofit Organization	Environmental Science	6	BL27SU	Np
132	2022B1206	Time-resolved X-ray diffraction for the analysis on crystalline transition of cellulose during alkaline treatment	Daisuke Tatsumi	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	3	BL40XU	Np
133	2022B1207	Deformation mechanism of borosilicate glass under shear stress condition	Akihiro Yamada	University of Shiga Prefecture	Japan	Educational Organization	Materials Science and Engineering	9	BL04B1	Np
134	2022B1209	Microcrystal X-ray Structural Analysis for Extremely Unstable and Reactive Organometallic Compounds	Hikaru Takaya	TEIKYO University of Science	Japan	Educational Organization	Chemical Science	6	BL40XU	Np
135	2022B1211	Structural analysis of network structure made of water molecules inside intercalation-type fullerene molecular films	Koji Harano	National Institute for Materials Science	Japan	National and Nonprofit Organization	Chemical Science	3	BL43IR	Np
136	2022B1213	X-ray structural analysis of a single supersaturated liquid droplet and crystallization in the air levitated by electrodynamic balance	Toshio Yamaguchi	Fukuoka University	Japan	Educational Organization	Chemical Science	9	BL08W	Np
137	2022B1214	The slowing down of charge-density-wave fluctuations in BaNi ₂ As ₂	Yu Song	Zhejiang University	China	Foreign	Materials Science and Engineering	12	BL43LXU	Np
138	2022B1215	Precise SAXS analysis of double-stranded helical microphase-separated structures formed by ABAC tetrablock terpolymers.	Atsushi Takano	Nagoya University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
139	2022B1218	Crystal structure and superconductivity of alkaline earth metals calcium under low temperature and high pressure II	Yuki Nakamoto	Osaka University	Japan	Educational Organization	Materials Science and Engineering	11.875	BL10XU	Np
140	2022B1219	Direct observation of Bi ⁵⁺ , Pb ⁴⁺ +oxygen holes in negative thermal expansion candidate Bi _{0.5} Pb _{0.5} MO ₃ by soft X-ray absorption II	Yuki Sakai	Kanagawa Institute of Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL27SU	Np
141	2022B1220	Dynamics of valence fluctuations in Yb-crystal and quasicrystal compounds under multi-extreme conditions studied by synchrotron radiation-based ¹⁷⁴ Yb Mössbauer spectroscopy	Hisao Kobayashi	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	15	BL35XU	Np
142	2022B1222	Studies on short- and medium-range order in Ge-As-Se ternary amorphous mixtures	Masanori Inui	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	3	BL04B2	Np
143	2022B1223	Advanced Multibeam Optics for Millisecond 4D X-ray Tomography	Wataru Yashiro	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	17.875	BL28B2	Np
144	2022B1224	Correlation between Young's Modulus and Structure of Sulfide Solid Electrolytes	Koji Ohara	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL08W	Np

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S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
145	2022B1227	Feasibility study of ultra-high frequency X-ray elastography	Wataru Yashiro	Tohoku University	Japan	Educational Organization	Medical Applications	9	BL28B2	Np
146	2022B1228	Analysis of local ordering in supramolecular spheres formed by self-assembly of holmium complexes	Michinari Kohri	Chiba University	Japan	Educational Organization	Materials Science and Engineering	6	BL04B2	Np
147	2022B1229	Viscosity of post-perovskite: Approaches from deformation experiments on analogue materials and technical development for pressure generation	Daisuke Yamazaki	Okayama University	Japan	Educational Organization	Earth and Planetary Science	15	BL04B1	Np
148	2022B1230	Observation of fracture process of rubber under various types of deformation by fast four-dimensional X-Ray CT imaging.	Ryo Mashita	Sumitomo Rubber Industries, Ltd.	Japan	Industry	Industrial Applications	9	BL28B2	Np
149	2022B1232	Development of super-resolution X-ray phase imaging with parabola phase grating	Atsushi Momose	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	12	BL37XU	Np
150	2022B1233	Polymerization-induced self-assembly using tetra-PEG: observing the formation and transition of structure by in situ time-resolved SAXS	Rintaro Takahashi	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
151	2022B1234	Study of the local dynamics of rubber under use condition by quasielastic gamma-ray scattering.	Ryo Mashita	Sumitomo Rubber Industries, Ltd.	Japan	Industry	Industrial Applications	15	BL35XU	Np
152	2022B1235	Structure formation and phase separation during bulk polymerization of methyl methacrylate in the presence of PEG	Yasuhiro Suzuki	Osaka Metropolitan University	Japan	Educational Organization	Chemical Science	3	BL40B2	Np
153	2022B1236	Spatio-temporal heterogeneity at the vicinity of polymerization induced vitrification of methyl methacrylate	Yasuhiro Suzuki	Osaka Metropolitan University	Japan	Educational Organization	Chemical Science	3	BL43IR	Np
154	2022B1238	Effect of hydrogen on rheology of hexagonal close packed (hcp) iron 2	Yu Nishihara	Ehime University	Japan	Educational Organization	Earth and Planetary Science	11.875	BL04B1	Np
155	2022B1241	Revealing soil phosphorus immobilization using micro XANES	Yohey Hashimoto	Tokyo University of Agriculture and Technology	Japan	Educational Organization	Environmental Science	7	BL27SU	Np
156	2022B1242	Solution structure analysis of the complex of oncoprotein NCYM and GSK-3β	Tatsuhito Matsuo	National Institutes for Quantum Science and Technology	Japan	National and Nonprofit Organization	Life Science	3	BL40B2	Np
157	2022B1245	Elucidation of interfacial spin structure in Pt/Cr ₂ O ₃ by means of X-ray magnetic circular dichroism	Yu Shiratsuchi	Osaka University	Japan	Educational Organization	Materials Science and Engineering	11.75	BL39XU	Np
158	2022B1246	Understanding and preventing respiratory distress in newborn infants using phase contrast X-ray imaging	Stuart Hooper	Hudson Institute / Monash University	Australia	Foreign	Medical Applications	18	BL20B2	Np
159	2022B1247	Visualization of perpendicularly-directed antiferromagnetic domain and electric-field induced operation based on nano magnetic characterization using scanning XMCD spectromicroscopy	Yu Shiratsuchi	Osaka University	Japan	Educational Organization	Materials Science and Engineering	12	BL25SU	Np
160	2022B1248	Observation of hydration behavior of thermoresponsive polymer brush by infrared spectroscopic analysis	Kenichi Nagase	Keio University	Japan	Educational Organization	Chemical Science	6	BL43IR	Np
161	2022B1251	Microsecond molecular dynamics measurement of polymers using diffracted x-ray blinking (DXB) method	Tatsuya Arai	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	12	BL40XU	Np
162	2022B1252	Investigation of the PtOx anode for solid polymer electrolyte electrolysis by depth-resolved in-situ XAFS measurement	Shoji Iguchi	Kyoto University	Japan	Educational Organization	Chemical Science	9	BL37XU	Np
163	2022B1253	Photoelectron holography and machine learning analysis of Heusler alloy (Co _{0.143} Fe _{0.857}) _{1-x} Ag _x	Tomohiro Matsushita	Nara Institute of Science and Technology	Japan	Educational Organization	Materials Science and Engineering	11.875	BL25SU	Np
164	2022B1255	Development of a Hard X-ray Telescope for a Balloon X-ray Polarimetry XL-Calibur V	Yoshitomo Maeda	Japan Aerospace Exploration Agency	Japan	National and Nonprofit Organization	Elementary Particles, Nuclear Science	17.75	BL20B2	Np
165	2022B1258	Phonon dynamics of transition metals-containing functional zeolites	Shinya Hosokawa	Kumamoto University	Japan	Educational Organization	Materials Science and Engineering	14.625	BL35XU	Np
166	2022B1259	Elucidation of unique water tolerant of (Nb,Ta) ₆ O ₁₉ super base catalysts by time-resolved Quick XAFS	Seiji Yamazoe	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	9	BL36XU	Np
167	2022B1260	Mott Transition in Spin-Orbit Coupled Honeycomb Compounds: Structure Determination under High Pressure	Takuya Aoyama	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	5.625	BL10XU	Np
168	2022B1261	Three-dimensional morphological analysis of pterosaur fossils from Lagerstätten using high-energy X-ray laminography	Soichiro Kawabe	Fukui Prefectural University	Japan	Educational Organization	Life Science	3	BL20B2	Np
169	2022B1262	Conformation analysis on food-grade polymers in fats and oil	Noboru Osaka	Okayama University of Science	Japan	Educational Organization	Materials Science and Engineering	3	BL40B2	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)
170	2022B1264	Evaluation of the electronic structure of lattice oxygen of basic niobium oxide clusters by using O K-edge soft X-ray emission spectroscopy	Soichi Kikkawa	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	9	BL27SU	Np
171	2022B1265	High-Pressure Synthesis of High-Temperature Superconducting Tri-Hydride Systems	Katsuya Shimizu	Osaka University	Japan	Educational Organization	Materials Science and Engineering	27	BL10XU	Np
172	2022B1269	Visualization of Degradation Mechanism of Cathode Materials for Lithium Sulfur Batteries by Tender X-ray Spectroscopic Ptychography	Yukio Takahashi	Tohoku University	Japan	Educational Organization	Chemical Science	17.625	BL27SU	Np
173	2022B1270	Role of coronary dysfunction in the progression of hypertrophic cardiomyopathy due to truncated myosin binding protein C	James Pearson	National Cerebral and Cardiovascular Center	Japan	National and Nonprofit Organization	Medical Applications	14.875	BL20B2	Np
174	2022B1271	Analysis of oxidized surface on Zn based coating and Ni-Cr-Fe based alloy ~nanospectroscopy as an analytic strategy for overcoming corrosion~	Katsuhiro Nishihara	Nippon Steel Corporation	Japan	Industry	Industrial Applications	12	BL25SU	Np
175	2022B1272	Development of x-ray nanotomography at 40 keV.	Akihisa Takeuchi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Industrial Applications	15	BL20XU	Np
176	2022B1274*	Structural study of Na superionic conducting crystal and its precursor glass	Yohei Onodera	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL04B2	Np
177	2022B1276	In situ observation of tensile test of HDPE with low-molecular compounds	Asae Ito	Kanazawa University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
178	2022B1277	In-situ & dynamic observation of the formation of submicron-sized polyacrylic acid particles with an extremely narrow distribution in size	Kazuo Sakurai	The University of Kitakyushu	Japan	Educational Organization	Materials Science and Engineering	5.875	BL40B2	Np
179	2022B1281	Observation of Chemical State in oxide layer on the substrate by Soft X-ray emission spectroscopic analysis	Keiichi Nakajima	Nihon Parkerizing Co., Ltd.	Japan	Industry	Industrial Applications	9	BL27SU	Np
180	2022B1282	Development of a biaxial synchronous high-speed rotary device for submillisecond 4D X-ray tomography	Wataru Yashiro	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	9	BL28B2	Np
181	2022B1283	Probing phonons across the charge-density-wave transition in a vanadium-based kagome metal	Yu Song	Zhejiang University	China	Foreign	Materials Science and Engineering	15	BL35XU	Np
182	2022B1284	The origin of hysteresis in charge-discharge process for Li rich cathode material	Hiroshi Sakurai	Gunma University	Japan	Educational Organization	Materials Science and Engineering	15	BL08W	Np
183	2022B1288	Observation of periodic order formation process of water surface monolayer by Marangoni convection	Yohko Yano	Kindai University	Japan	Educational Organization	Chemical Science	9	BL37XU	Np
184	2022B1289	Time-resolved measurement of the formation, decomposition, and rearrangement mechanisms of zeolite framework in heterogeneous reaction mixture	Toru Wakihara	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	17.875	BL08W	Np
185	2022B1291	Mechanism for deep-focus earthquakes: dehydration-driven faulting of olivine	Sando Sawa	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	6	BL04B1	Np
186	2022B1292	Effect of pre-heat treatment on precipitation sequence and nanostructures in Si-excess AlMgSi alloys examined by ASAXS at Mg and Al K edge	Hiroshi Okuda	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL27SU	Np
187	2022B1293	Elucidation of the mechanism of onset of dynamical anomaly in supercooled liquids by quasi-elastic gamma-ray scattering system using two-dimension X-ray detector CITIUS	Makina Saito	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	18	BL35XU	Np
188	2022B1294	Mitigation effects of whole-body vibration on osteoporotic bone deterioration and its dependency on vibration intermittency	Takeshi Matsumoto	Tokushima University	Japan	Educational Organization	Medical Applications	6	BL20B2	Np
189	2022B1304	Dynamic visualization measurement of internal structural changes of woody biomass exposed to high-temperature radiation field	Tadafumi Daitoku	Akita Prefectural University	Japan	Educational Organization	Industrial Applications	3	BL20B2	Np
190	2022B1306	Interface band dispersion of insulator/Heusler alloys studied by magnetic circular dichroism in soft X-ray angle-resolved photoemission	Shigenori Ueda	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	11.375	BL25SU	Np
191	2022B1308	Study on advanced crystalline sponge method by crystallization plate measurement using synchrotron X-rays	Sota Sato	The University of Tokyo	Japan	Educational Organization	Chemical Science	12	BL26B1	Np
192	2022B1309	Feasibility study for upgrading of X-ray phase tomography using 40keV multilayer monochromator	Masato Hoshino	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	12	BL20B2	Np
193	2022B1310	Development of high-resolution and high-energy X-ray micro-tomography and laminography using 110keV multilayer monochromator	Masato Hoshino	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	6	BL20B2	Np
194	2022B1312	Exploring the metastable minerals occurred by a dynamic event using fast XRD measurements	Ryosuke Sinmyo	Meiji University	Japan	Educational Organization	Earth and Planetary Science	6	BL10XU	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)
195	2022B1314	Analysis of toxic metals and metal containing drugs distribution in the kidney and the mechanism of nephrotoxicity	Hitomi Fujishiro	Tokushima Bunri University	Japan	Educational Organization	Medical Applications	6	BL37XU	Np
196	2022B1315*	Atomic-configuration modeling of Mg1-xZnxMn2O4 nanoparticle as a positive-electrode material for a Mg rechargeable battery	Naoto Kitamura	Tokyo University of Science	Japan	Educational Organization	Chemical Science	6	BL04B2	Np
197	2022B1317	Development of high-pressure ultrasonic techniques for sound velocity measurements of minerals at mantle geotherm temperatures	Steeve Greaux	Ehime University	Japan	Educational Organization	Earth and Planetary Science	12	BL04B1	Np
198	2022B1320	Study on advanced crystalline sponge method by serial crystallography using high-flux synchrotron X-rays	Sota Sato	The University of Tokyo	Japan	Educational Organization	Chemical Science	8	BL45XU	Np
199	2022B1321	Analysis on skeletal histology of Devonian vertebrate fossils	Tatsuya Hirasawa	The University of Tokyo	Japan	Educational Organization	Life Science	3	BL20B2	Np
200	2022B1322	Phase transition and dynamics of imidazolium-based ionic liquid crystals in nanopores	Koji Fukao	Ritsumeikan University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
201	2022B1323	Quantitative evaluation of tetragonal/cubic domain distribution near electrode/BaTiO3 boundary in Multi Layered Ceramic Capacitor	Hitoshi Nishimura	Murata Manufacturing Co., Ltd.	Japan	Industry	Industrial Applications	12	BL40XU	Np
202	2022B1324	Quantitative Evaluation of Safety by Nail Penetration Test Using Visualization of Dynamic Structure Inside All-Solid-State Battery	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	9	BL28B2	Np
203	2022B1326	Elucidation of the mechanism of macroscopic mechanical property control of polymer film by UV irradiation using time-domain interferometry	Yumiko Naka	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	18	BL35XU	Np
204	2022B1327	High-resolution atlas of vertebrate morphology using synchrotron radiation X-ray micro-CT	Tatsuya Hirasawa	The University of Tokyo	Japan	Educational Organization	Life Science	9	BL20B2	Np
205	2022B1329	Study on spatial distribution of hydrophobic compounds solubilized in amphiphilic random copolymers by anomalous small-angle X-ray scattering near Bromine K edge	Isamu Akiba	The University of Kitakyushu	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
206	2022B1330	Determination of crystalline elastic modulus of microbial polyesters by real-time measurement utilizing synchrotron radiation	Hongyi Gan	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL40B2	Np
207	2022B1332	Direct observation on the electronic structure of twisted materials	Masato Sakano	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	12	BL25SU	Np
208	2022B1334	Development of particle-charge identification method for tracks in nuclear emulsion using X-ray microscopy to improve the identification efficiency of double hypernuclear events	Kazuma Nakazawa	Gifu University	Japan	Educational Organization	Elementary Particles, Nuclear Science	5.875	BL47XU	Np
209	2022B1335	Development of Electron Yield X-ray Absorption Spectroscopy on Aqueous Solution Surface at Tender X-ray Region	Hajime Tanida	Japan Atomic Energy Agency	Japan	National and Nonprofit Organization	Beamline Engineering	9	BL27SU	Np
210	2022B1337	Microplastic origin estimation based on metal catalyst information for clarification of marine pollution mechanism	Yoshinori Nishiwaki	Kochi University	Japan	Educational Organization	Environmental Science	12	BL37XU	Np
211	2022B1338	In situ white X-ray diffraction measurements of Cu-Dy alloying/dealloying process in molten LiCl-KCl	Yumi Katasho	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Chemical Science	8.875	BL28B2	Np
212	2022B1339	High-pressure ultrasonic P-wave velocity measurements on liquid Fe-rich alloys to constrain structural and seismological models for Mercury's core	Jurrien Knibbe	Royal Observatory of Belgium	Belgium	Foreign	Earth and Planetary Science	12	BL04B1	Np
213	2022B1340	Characterization of 2-dimentional metal-organic frameworks composed of single-molecule magnets by using grazing incident angle X-ray diffraction:Controlling the molecular arrangement utilizing hydrophobic-hydrophilic interface and bulkiness of the ligands	Yoji Horii	Nara Women's University	Japan	Educational Organization	Chemical Science	12	BL37XU	Np
214	2022B1341	Structural analysis of cyclic PEG-adsorbed nanoparticles	Takuya Yamamoto	Hokkaido University	Japan	Educational Organization	Chemical Science	3	BL40B2	Np
215	2022B1344	Investigation of effect of existing crack in cementitious materials on fracture behavior in demolition	Hayato Takahashi	Tokyo University of Science	Japan	Educational Organization	Industrial Applications	12	BL28B2	Np
216	2022B1345*	Local expansion of metal lattice in metal-deuterium system by using pair distribution function analysis	Keiji Itoh	Okayama University	Japan	Educational Organization	Materials Science and Engineering	6	BL04B2	Np
217	2022B1346	Structural analysis for ternary anion-based highly concentrated electrolytes for Li-ion batteries	Ryansu Sai	Osaka University	Japan	Educational Organization	Chemical Science	8	BL04B2	Np

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218	2022B1348	Time-resolved measurement of the density of liquid/solid phase high entropy alloys during the solidification sequence	Ryoji Katsube	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL47XU	Np
219	2022B1349	Local structure analysis of high-entropy oxide semiconductors for thermoelectric energy conversion	Manabu Hagiwara	Keio University	Japan	Educational Organization	Materials Science and Engineering	2.875	BL04B2	Np
220	2022B1350	Determination of local structure around Te in Fe ₅ -xGeTe ₂ by X-ray fluorescence holography	Yoshihiro Kubozono	Okayama University	Japan	Educational Organization	Materials Science and Engineering	9	BL47XU	Np
221	2022B1356	X-ray phase imaging by using sensitivity-enhanced X-ray Talbot interferometer	Atsushi Momose	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	8.875	BL20XU	Np
222	2022B1357	Investigation of electronic structure in low-carrier charge ordered phase by soft x-ray ARPES	Kenta Kuroda	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	17.875	BL25SU	Np
223	2022B1358	Measurement of local dynamic stress by means of ultra-high speed camera in metallic materials	Masakazu Kobayashi	Toyohashi University of Technology	Japan	Educational Organization	Materials Science and Engineering	12	BL20B2	Np
224	2022B1360	In situ X-ray diffraction studies of thermogenesis in insect flight muscles – 5	Madoka Suzuki	Osaka University	Japan	Educational Organization	Life Science	9	BL40XU	Np
225	2022B1361	Elastic properties of the noble gas solid krypton and the pressure induced martensitic fcc-hcp transformation – an EXAFS study under low temperature and high pressure	Angelika Rosa	European Synchrotron Radiation Facility	France	Foreign	Materials Science and Engineering	12	BL39XU	Np
226	2022B1362	Microstructure Analysis of Printable Oxide Gels in High Temperature Environments PDF Analysis	Daisuke Hirose	Japan Advanced Institute of Science and Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL04B2	Np
227	2022B1363*	Structure of intermediate oxide glasses with hyper local ordering	Hideki Hashimoto	Kogakuin University	Japan	Educational Organization	Materials Science and Engineering	6	BL04B2	Np
228	2022B1364	Fe 3d electronic structure in the covalent-chain antiferromagnets TlFeX ₂ (X = S, Se) investigated by temperature dependence of resonant x-ray emission spectra	Kojiro Mimura	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	11.625	BL39XU	Np
229	2022B1365*	Origin of Diffuse Scattering Affected by Annealing in a Medium-Entropy Alloy	Satoshi Tsutsui	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	18	BL35XU	Np
230	2022B1366	Elucidation of the reaction mechanism in the iron active center of nitric oxide reductase by nuclear resonance vibrational spectroscopy	Takehiko Tosha	RIKEN	Japan	National and Nonprofit Organization	Life Science	15	BL19LXU	Np
231	2022B1368*	In situ PDF analysis of temperature dependence of LiPS solid electrolytes using high-energy X-ray total scattering	Hiroki Yamada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	14.875	BL04B2	Np
232	2022B1369	3d intermediate lattice structure analysis of tetravalent manganese ions in red phosphors with narrow line width	Mamoru Kitaura	Yamagata University	Japan	Educational Organization	Materials Science and Engineering	11.625	BL39XU	Np
233	2022B1372	Application of X-ray Optical Technique for High-Reynolds-Number Jet Mass and Velocity Measurement: Unraveling E-fuel Dynamics in Engine-like Conditions	Weidi Huang	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Industrial Applications	18	BL40XU	Np
234	2022B1376	Study on density fluctuations during early stages of crystallization for soft materials	Takashi Konishi	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
235	2022B1377	Mechanism of hydrogen embrittlement prevention in T-phase precipitated crossover aluminum alloys	Kazuyuki Shimizu	Iwate University	Japan	Educational Organization	Materials Science and Engineering	9	BL20XU	Np
236	2022B1378	Observation of semisolid deformation in bulk Al alloys by 4D-CT and 3DXRD using multilayer mirror	Taka Narumi	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL20B2	Np
237	2022B1379	Observation of the high order phonon-phonon interaction in chain-like structure CsCu ₂ 13	Jiawang Hong	Beijing Institute of Technology	China	Foreign	Environmental Science	12	BL43LXU	Np
238	2022B1381	Ultra-high-pressure crystal chemistry of intermetallic compounds by using diamond anvil cell	Ken Niwa	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL10XU	Np
239	2022B1382	Study on multiplet structures of 3d transition metals in AlN under UV-VIS-NIR light irradiation	Saki Imada	Kyoto Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	18	BL27SU	Np
240	2022B1383	In-situ observation of local plasticity-driven damage and fracture behavior in steels	Kazuyuki Shimizu	Iwate University	Japan	Educational Organization	Materials Science and Engineering	8.875	BL20XU	Np
241	2022B1384	In-situ observation of the effects of trace elements on solidification phenomena in copper alloys using high-resolution observation	Kohei Komori	Kobe Steel, Ltd.	Japan	Industry	Industrial Applications	9	BL20B2	Np

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1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
242	2022B1386	Evaluation and introduction of high-efficiency FZP for nano-CT at 15 keV	Kentaro Uesugi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL47XU	Np
243	2022B1387	In-situ observation of lattice distortion in Mn-doped BiFeO ₃ single crystalline thin film by norma- mode X-ray fluorescence holography under an electric field	Seiji Nakashima	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	12	BL39XU	Np
244	2022B1388	Association of negative expansion with local structure in Fe-based amorphous alloys	Kun Lin	University of Science and Technology Beijing	China	Foreign	Chemical Science	6	BL08W	Np
245	2022B1389	Monitoring anisotropic periodic structure change in nanocrystal superlattice during ion exchange reaction	Masaki Saruyama	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL40B2	Np
246	2022B1391	Effect of severe plastic deformation on Barium allotropic transformation	Zenji Horita	Saga University	Japan	Educational Organization	Materials Science and Engineering	9	BL04B1	Np
247	2022B1392	Development of micro-region X-ray fluorescence holography and its application to Pb-free piezoelectrics (Ba, Ca)(Zr, Ti)O ₃	Koji Kimura	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	12	BL39XU	Np
248	2022B1393	USAXS analysis of mesoscopic self organization of kink microstructures in strongly deformed dilute LPSO alloys	Hiroshi Okuda	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL20XU	Np
249	2022B1396	Three-dimensional analysis of ionic polarization in Pb(Zr,Ti)O ₃ thin film using in-situ X-ray fluorescence holography under an electric field	Koji Kimura	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	12	BL39XU	Np
250	2022B1397	Anomalous X-ray scattering study of Ag ₂ O and ZnO co-added B ₂ O ₃ glasses: structural correlation between Zn and Ag	Kouichi Hayashi	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	11.75	BL47XU	Np
251	2022B1399	Pressure control and infrared observation of the f electron states in mixed-valence Eu compounds under high pressure	Hidekazu Okamura	Tokushima University	Japan	Educational Organization	Materials Science and Engineering	18	BL43IR	Np
252	2022B1400	X-ray fluorescence holography analysis of metallic-ion arrangements within pores in natural zeolite single crystals	Kouichi Hayashi	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	11.875	BL47XU	Np
253	2022B1402	Nondestructive observation of steel in concrete using synchrotron radiation X-ray imaging	Katsuhiro Nishihara	Nippon Steel Corporation	Japan	Industry	Industrial Applications	5.75	BL28B2	Np
254	2022B1403	Unveiling the Weyl quantum states of ultrahigh quality ferromagnetic oxide SrRuO ₃	Masaki Kobayashi	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	9	BL25SU	Np
255	2022B1404	Local structure measurement of the nitrogen in the fluorescent device material, 6H SiC using photoelectron holography	Yuta Yamamoto	Nara Institute of Science and Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL25SU	Np
256	2022B1405	Observation of coagulation phenomenon in the process of preparing biodegradable porous body	Taizo Kabe	The University of Tokyo	Japan	Educational Organization	Chemical Science	3	BL05XU	Np
257	2022B1406	Structural Study on CO ₂ and CH ₄ Accommodated in MOF Glass	Osamu Yamamuro	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	12	BL04B2	Np
258	2022B1407	Measuring Coherent and Localized Phonon Dispersions in Quasi-periodic Superlattice	Junichiro Shiomi	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	14.875	BL35XU	Np
259	2022B1408	Mechanism of deep earthquakes occurring at the mantle transition zone: insight from the direct observation of the ultra-high-pressure faulting using rotational diamond anvil cell	Keishi Okazaki	Hiroshima University	Japan	Educational Organization	Earth and Planetary Science	18	BL47XU	Np
260	2022B1409	in-situ observation of macro-segregation evolution of light elements in a melt-pool formed by continuous laser scanning	Kohei Morishita	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	9	BL47XU	Np
261	2022B1410	Strength and crystallographic preferred orientation of the subducted slab determined from high-temperature and pressure deformation experiments with large strain using the rotational diamond anvil cell	Shintaro Azuma	Tokyo Institute of Technology	Japan	Educational Organization	Earth and Planetary Science	9	BL47XU	Np
262	2022B1416	Polarization dependence of soft X-ray emission from gas-phase samples	Naoya Kurahashi	The University of Tokyo	Japan	Educational Organization	Chemical Science	5.875	BL27SU	Np
263	2022B1418	Measurement of ultra-low energy level of Thorium-229 Isomer with high brightness X-ray light source	Koji Yoshimura	Okayama University	Japan	Educational Organization	Elementary Particles, Nuclear Science	18	BL19LXU	Np
264	2022B1419	Verification of the morphological effect of crystalline micron-sized dust and the accompanying polarization effect on the infrared absorption spectrum	Akemi Tamanai	RIKEN	Japan	National and Nonprofit Organization	Earth and Planetary Science	29.875	BL43IR	Np
265	2022B1420	Synchrotron X-ray CT analysis of Japanese swords (fire damaged swords) and Warabite sword to clarify their inner structures and making techniques	Manako Tanaka	Showa Women's University	Japan	Educational Organization	Other	18	BL28B2	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)
266	2022B1421	Investigating the intrinsic bulk electronic structure of kagome superconductor CsV3Sb5	Chaoyu Chen	Southern University of Science and Technology	China	Foreign	Materials Science and Engineering	12	BL25SU	Np
267	2022B1422	Operand Structural Analysis of Electrolytes in Lithium Ion Battery Electrodes using Total X-ray Scattering	Tomoaki Takai	SOKEN,INC.	Japan	Industry	Industrial Applications	15	BL08W	Np
268	2022B1424	Structure of liquid Fe-P under high pressure	Yoichi Nakajima	Kumamoto University	Japan	Educational Organization	Earth and Planetary Science	6	BL10XU	Np
269	2022B1426	Demonstration of magnetic imaging with magnetic Compton scattering imaging	Naruki Tsuji	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	21	BL08W	Np
270	2022B1428	Phase control and structure determination of nano-cluster crystals of transition-metal chalcogenides	Shinobu Aoyagi	Nagoya City University	Japan	Educational Organization	Materials Science and Engineering	3	BL41XU	Np
271	2022B1431	Chemical state analysis of polymer material by X-ray Raman scattering spectroscopy.	Fusae Kaneko	Sumitomo Rubber Industries, Ltd.	Japan	Industry	Industrial Applications	12	BL39XU	Np
272	2022B1432	Integrating mass spectrometry based multimodal molecular imaging for the morphological and structural studies of senile plaques in Alzheimer's disease (AD) brains	Masaya Ikegawa	Doshisha University	Japan	Educational Organization	Medical Applications	9	BL20B2	Np
273	2022B1433	Elucidation of Activation and Degradation Mechanisms of Polymer Electrolyte Water Catalysts by Total X-ray Scattering and PDF Analysis (2)	Tomoki Uchiyama	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL04B2	Np
274	2022B1435	100 nm beam XAFS study with electrodes of In/CdTe/Pt	Kyoko Okada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL37XU	Np
275	2022B1436	Elucidation of activation and degradation mechanisms of polymer electrolyte water catalysts by O K-edge X-ray absorption spectroscopy (1)	Tomoki Uchiyama	Kyoto University	Japan	Educational Organization	Chemical Science	12	BL27SU	Np
276	2022B1437	Elucidation of pressure-induced valence transition in europium-based oxyhydride using XAS measurement under high pressure	Hiroshi Takatsu	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL39XU	Np
277	2022B1438	Soft-XAFS Analysis of Cathode Materials for Fluoride Ion Batteries(2)	Tomoki Uchiyama	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL27SU	Np
278	2022B1440	Phonon dispersions of a disordered halide perovskite semiconductor: correlating structural disorder and defect chemistry in Cs ₂ SnI ₆	Nicholas Weadock	University of Colorado Boulder	USA	Foreign	Materials Science and Engineering	12	BL43LXU	Np
279	2022B1441	operando XAS study of Pt alloy nanowire catalyst for oxygen reduction reaction (1)	Tomoki Uchiyama	Kyoto University	Japan	Educational Organization	Chemical Science	9	BL37XU	Np
280	2022B1444	operando HERFD-XAS study of Pt alloy nanowire catalyst for oxygen reduction reaction (1)	Tomoki Uchiyama	Kyoto University	Japan	Educational Organization	Chemical Science	8.875	BL39XU	Np
281	2022B1446	Direct observation of grain coarsening after the massive-like transformation in Fe alloys by developing fast XRD measurements combined with 4D-CT	Hideyuki Yasuda	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL20B2	Np
282	2022B1447	Study on the relationship between the mechanical properties and morphology of high ductility sPS/SEBS alloys	Shotaro Nishitsuji	Yamagata University	Japan	Educational Organization	Materials Science and Engineering	2.875	BL40B2	Np
283	2022B1449	Observation of fluctuated dendrite structures in Fe and Ni alloys by time-resolved tomography using multilayer reflection (110keV)	Hideyuki Yasuda	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL20B2	Np
284	2022B1450	Resolving dynamic processes of nanoparticle retention and transport in nanoporous chalk rock via in-situ nanoCT.	Adrian Schiefler	Technical University of Denmark	Denmark	Foreign	Environmental Science	9	BL47XU	Np
285	2022B1451	Crystal structure analysis of novel amorphous Si-Ge thermoelectric conversion materials using high-energy X-ray diffraction	Hidetoshi Miyazaki	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL04B2	Np
286	2022B1453	Nano-3D observation of ureilite by using scanning/imaging X-ray microscopy: Investigation of catalytic diamond formation.	Masahiro Yasutake	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Earth and Planetary Science	12	BL47XU	Np
287	2022B1454	Room-temperature magnetic-structure imaging of β -Mn type chiral magnet Fe ₂ -xPdxMo ₃ N and Co ₂ -xPdxMo ₃ N epitaxial thin film	Takahiro Ito	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	8.875	BL25SU	Np
288	2022B1455	High pressure X-ray diffraction of hexagonal Fe ₃ F at above 200 GPa	Qingyang Hu	Center for High Pressure Science and Technology Advanced Research	China	Foreign	Materials Science and Engineering	9	BL10XU	Np
289	2022B1459	Precise structural analysis of hydro-fluorocarbon and hydrofluoroolefin toward separation of minor actinoides	Takashi Kajitani	Tokyo Institute of Technology	Japan	Educational Organization	Environmental Science	6	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)
290	2022B1460	High-pressure crystal structure analysis of tranuclear iodido-silver(I) complex with large crystal voids and effects on structure deformation by including of solvent molecules.	Yoshiki Ozawa	University of Hyogo	Japan	Educational Organization	Chemical Science	6	BL10XU	Np
291	2022B1462	Mechanism of cellulose molecules assembly in the cellulose synthesizing reaction by celldextrin phosphorylase	Tomoya Imai	Kyoto University	Japan	Educational Organization	Life Science	3	BL40B2	Np
292	2022B1464	Ferromagnetic coupling induced by dense hydrogenation of heavy rare-earth -transition metal compounds: a novel magnetic material explored by XMCD under high pressure	Naoki Ishimatsu	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	12	BL39XU	Np
293	2022B1465	Effect of fatty acid chain length on the dynamics of intercellular lipids in stratum comeum and its application to therapeutic agents for skin diseases	Yasuko Obata	Hoshi University	Japan	Educational Organization	Medical Applications	6	BL43IR	Np
294	2022B1466	Diffraction X-ray Tracking/Blinking using various nano-bio-labeling techniques	Yuji Sasaki	The University of Tokyo	Japan	Educational Organization	Life Science	12	BL40XU	Np
295	2022B1467	Development of time-resolved Mossbauer spectroscopy for Eu-activated phosphors	Shinji Kitao	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	18	BL35XU	Np
296	2022B1468	High-resolution analysis of ciliary motility mechanism by X-ray fiber diffraction of ctenophore comb plate	Kazuo Inaba	University of Tsukuba	Japan	Educational Organization	Life Science	17.625	BL40XU	Np
297	2022B1471	Insight into atomic structure of advanced functional materials Sb2S3 and Bi2S3	Evgeny Bychkov	University of the Littoral Opal Coast	France	Foreign	Materials Science and Engineering	12	BL04B2	Np
298	2022B1474	Precise analysis of internal aggregation structure of perfluorosulfonate ionomer nanofibers: effects of ion-exchange capacity and heat-induced insolubilization.	Hidetoshi Matsumoto	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
299	2022B1476	Structural Analysis of Micelles Formed by Amino Acid-Sugar Hybrid Surfactants: Effect of Structure of Sugar	Tomokazu Yoshimura	Nara Women's University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
300	2022B1477	Evaluation of semiconductor detectors and collimator aboard the US-Japan joint sounding rocket experiment FOXSI-4 for the first focusing imaging-spectroscopic observation of a solar flare in X-rays	Noriyuki Narukage	National Institutes of Natural Sciences	Japan	National and Nonprofit Organization	Elementary Particles, Nuclear Science	15	BL20B2	Np
301	2022B1478	Structural Analysis of Cation-Disordered Li3VO4 Anode Materials for Reversible and High-Rate Lithiation/De-lithiation	Etsuro Iwama	Tokyo University of Agriculture and Technology	Japan	Educational Organization	Chemical Science	3.875	BL04B2	Np
302	2022B1480	X-ray inelastic scattering measurement of the single crystal elastic modulus of the B19' martensitic phase in TiNi shape memory alloys	Takeshi Teramoto	Kobe University	Japan	Educational Organization	Materials Science and Engineering	8.5	BL35XU	Np
303	2022B1482	A study on the detection of ammonium in meteorites and Ryugu returned sample by scanning soft X-ray microscopy and the influence of Fe oxidation state on the presence of ammonium	Yoshio Takahashi	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	11.875	BL17SU	Np
304	2022B1487	High-pressure and high-temperature in situ measurement of formation process for the multicomponent transition-metal nitrides	Takuya Sasaki	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL04B1	Np
305	2022B1488	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	18	BL43IR	Np
306	2022B1489	Elucidation of Adsorption and Orientation States of Amphiphilic Ionic Liquids at Air/Water Interface	Tomokazu Yoshimura	Nara Women's University	Japan	Educational Organization	Materials Science and Engineering	9	BL37XU	Np
307	2022B1491	Three-dimensional Chemical State Imaging of Anode of All-solid-state Thin-Film Lithium-ion Batteries During Charging/Discharging Processes by Operando CT-XAFS	Nozomu Ishiguro	Tohoku University	Japan	Educational Organization	Chemical Science	12	BL37XU	Np
308	2022B1492*	Infrared imaging of preferential absorption of long-chain alkanes into porous materials such as carbon nanotubes	Ayano Chiba	Keio University	Japan	Educational Organization	Materials Science and Engineering	6	BL43IR	Np
309	2022B1493	Secondary structure analysis of proteins in damaged hair using infrared microspectroscopy.	Kazuki Kobayashi	Milbon Co., Ltd.	Japan	Industry	Industrial Applications	17.75	BL43IR	Np
310	2022B1494	Direct observation of interface reaction between electrode and electrolyte in the solid-state battery.	Kosuke Suzuki	Gunma University	Japan	Educational Organization	Chemical Science	17.75	BL08W	Np
311	2022B1496	Development of double-reflection soft-x-ray mirror with arbitrary aspect ratio of focused beam	Yoko Takeo	The University of Tokyo	Japan	Educational Organization	Beamline Engineering	9	BL25SU	Np
312	2022B1497	Measurement of atomic structure of polycrystalline atomically layered semiconductors and software development for photoelectron holography	Yusuke Hashimoto	Nara Institute of Science and Technology	Japan	Educational Organization	Materials Science and Engineering	12	BL25SU	Np

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313	2022B1500	In-situ N-XANES analysis of Martian hydrous alteration minerals: Investigation of the Martian N-cycle and its evolution history.	Mizuho Koike	Hiroshima University	Japan	Educational Organization	Earth and Planetary Science	12	BL27SU	Np
314	2022B1502	Kinetics of segregation layer formation by heterogeneous nucleation induced by pre-deformation in dilute MgREZn alloys	Hiroshi Okuda	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL40B2	Np
315	2022B1504	Observations of sulfur in ion introduction processes of cadmium sulfide clusters	Ryo Takahata	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL27SU	Np
316	2022B1506	Direct observation of interstitial-substitutional effect in steel by soft X-ray absorption spectroscopy	Kakeru Ninomiya	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	8.875	BL27SU	Np
317	2022B1507	In situ microscope IR measurement for the analysis of guest molecule behavior in 1D channels composed of X-shaped indanedione dimers	Yumi Yakiyama	Osaka University	Japan	Educational Organization	Chemical Science	6	BL43IR	Np
318	2022B1508	In-situ mechano-synthesis of high entropy metal nitride material and its phase transformation	Jochi Tseng	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	6	BL08W	Np
319	2022B1509	Operando 3D multi-scale analysis of the reaction distribution and microstructure in solid state battery electrodes using projection / imaging nano CT-XAFS and FIB-SEM	Yuta Kimura	Tohoku University	Japan	Educational Organization	Chemical Science	17.875	BL37XU	Np
320	2022B1510	Determination of densities and compression curves of liquid Fe, Ni, and FeS: Towards constraint on Martian core composition	Hidenori Terasaki	Okayama University	Japan	Educational Organization	Earth and Planetary Science	9	BL10XU	Np
321	2022B1511	Study on structure of micelles formed by polyglycerol based surfactants and solubilization performance of surfactants	Kenji Murashima	SAKAMOTO YAKUHHIN KOGYO CO., LTD	Japan	Industry	Industrial Applications	3	BL40B2	Np
322	2022B1513	High-resolution 3D reconstruction of the ciliary structure by X-ray fiber diffraction of ctenophore comb plate	Kazuo Inaba	University of Tsukuba	Japan	Educational Organization	Life Science	3	BL40B2	Np
323	2022B1514	Infrared Magneto-optical Spectra Measurements in Anisotropic Magnets	Satoshi Iguchi	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	18	BL43IR	Np
324	2022B1515	Search for metallization and superconductivity of hydrogen under ultra-high pressure II	Yuki Nakamoto	Osaka University	Japan	Educational Organization	Materials Science and Engineering	3	BL10XU	Np
325	2022B1516	Dopant local structure of W-doped VO2 exhibiting reentrant metal-insulator transition studied by photoelectron holography	Takayoshi Yokoya	Okayama University	Japan	Educational Organization	Materials Science and Engineering	11.625	BL25SU	Np
326	2022B1517	Structural Analysis of Methane Oxidation Coupling Catalysts at Practical Temperatures Using Total X-ray Scattering	Toru Wada	Japan Advanced Institute of Science and Technology	Japan	Educational Organization	Materials Science and Engineering	12	BL04B2	Np
327	2022B1522	SAXS/WAXD study on deformation and void formation of PTFE during uniaxial stretching	Takahiko Kawai	Gunma University	Japan	Educational Organization	Materials Science and Engineering	3	BL05XU	Np
328	2022B1523	Origin and environmental influence of elements for recent 250 years based on their speciation in aerosols recovered from ice core in the Greenland SE dome	Yoshio Takahashi	The University of Tokyo	Japan	Educational Organization	Environmental Science	12	BL37XU	Np
329	2022B1524	Time-resolved in-situ observation of formation of spattering of Ti alloy during laser scanning	Kohei Morishita	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	6	BL47XU	Np
330	2022B1525	Pressure generation in large-volume press by using 1-inch large sintered diamond anvils and determination of phase transition for BiFeO3 under high pressure	Shuangmeng Zhai	Chinese Academy of Sciences	China	Foreign	Earth and Planetary Science	6	BL04B1	Np
331	2022B1526	Snapshot imaging of pulsating blood vessels by dynamical phase-contrast X-ray CT: analyzing the entire circumferential wall deformation using high precision pulsating blood pump system.	Hiroyuki Tachibana	Kawasaki University of Medical Welfare	Japan	Educational Organization	Medical Applications	3	BL20B2	Np
332	2022B1529	The enhancing effect of the hydration and electric field for the skin permeation.	Hiromitsu Nakazawa	Kwansei Gakuin University	Japan	Educational Organization	Life Science	3	BL40B2	Np
333	2022B1531	Characterizations of interactions between microbes and metals/minerals in the deep rock interior for the extraterrestrial life exploration and the constraints on the origin of life	Yohey Suzuki	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	9	BL17SU	Np
334	2022B1533	Dynamical visualization of laser welding for dissimilar material using pink-beam 4D phase tomography	Ryosuke Ueda	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	9	BL28B2	Np
335	2022B1534	Visualizing chromium vacancy ordering in cubic chromium oxynitride thin films in lamellar structure with high hardness	Mamoru Kitaura	Yamagata University	Japan	Educational Organization	Materials Science and Engineering	8	BL25SU	Np

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336	2022B1535	Development of ultra-high-speed hard X-ray burst imaging technology by single bunch exposure and afterglow restoration for in-situ observation of high-speed single-shot phenomena	Yasunaga Nara	Hamamatsu Photonics K.K.	Japan	Industry	Beamline Engineering	14.875	BL40XU	Np
337	2022B1536	Investigation of thermal history of Ryugu samples by heating experiment	Masayuki Uesugi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Earth and Planetary Science	9	BL20XU	Np
338	2022B1537	Development of in-situ observation method for pressure / temperature-induced structural phase transition in high-temperature region and elucidation of phase transition kinetics of neutron-irradiated highly oriented pyrolytic graphite (HOPG) to compressed graphite	Shinichi Honda	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	9	BL04B1	Np
339	2022B1538*	Structural changes accompanied by absorption and desorption of alkanes into P4MP1	Ayano Chiba	Keio University	Japan	Educational Organization	Materials Science and Engineering	3	BL40B2	Np
340	2022B1539	Determination of host phases of rare earth ions (La and Y) in ion-adsorption type ore	Yoshio Takahashi	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	12	BL39XU	Np
341	2022B1541	High-spatial/temporal resolved operando measurements of oxygen chemical potential distribution in solid oxide fuel cell electrolyte by using high temperature electrochemical nano XAFS	Koji Amezawa	Tohoku University	Japan	Educational Organization	Chemical Science	18	BL37XU	Np
342	2022B1542	Operando and high spatial resolution 3D analysis of reaction distribution in a composite anode for all-solid-state batteries using X-ray imaging nano CT	Koji Amezawa	Tohoku University	Japan	Educational Organization	Chemical Science	6	BL37XU	Np
343	2022B1543	Extreme static pressure generation above 500 GPa (II)	Takeshi Sakai	Ehime University	Japan	Educational Organization	Earth and Planetary Science	12	BL10XU	Np
344	2022B1546	Chromonic Liquid Crystals Comprising Amphiphilic π -Electronic Ion Pairs	Yohei Haketa	Ritsumeikan University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
345	2022B1548	Mechanism of interactive polymorphic crystallization of triacylglyceride mixture systems	Ken Taguchi	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	5.875	BL40B2	Np
346	2022B1552	Rheology of MORB at the upper part of the mantle transition zone	Tomoaki Kubo	Kyushu University	Japan	Educational Organization	Earth and Planetary Science	15	BL04B1	Np
347	2022B1553	Phonon Dynamics of Organosuperelastic Soft Crystals	Junko Morikawa	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL35XU	Np
348	2022B1554	Study for the transdermal absorption properties of GE/BG formulation.	Hiroimitsu Nakazawa	Kwansei Gakuin University	Japan	Educational Organization	Life Science	3	BL40B2	Np
349	2022B1558	Phase transition and deformation of metastable enstatite under subduction zone conditions	Yumiko Tsubokawa	Kyushu University	Japan	Educational Organization	Earth and Planetary Science	12	BL04B1	Np
350	2022B1561	Single Crystal Structural Refinement of Vanadium Perovskite Oxyhydrides	Takafumi Yamamoto	Tokyo Institute of Technology	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
351	2022B1564	Elucidation of the causal relationship between the electronic states of the atoms in the binary-alloy catalysts made from Pt and In and their catalytic properties	Tomoaki Takayama	Nara Institute of Science and Technology	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
352	2022B1565	In-situ HAXPES study of the spontaneous phase separation of In atoms in In-doped non-stoichiometric Ga ₂ O ₃ -x thin films.	Hyon Chol Kang	Chosun University	Korea	Foreign	Materials Science and Engineering	17.75	BL46XU	Np
353	2022B1566	X-ray structure analysis of luminescent chiral ceramics	Kazuro Kizaki	The University of Tokyo	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
354	2022B1567	High-spatial-resolution 3D tomographic analysis using symmetric and asymmetric reflection differential aperture technique for AlN/NPSS nanostructures	Yusuke Hayashi	Osaka University	Japan	Educational Organization	Materials Science and Engineering	15	BL13XU	Np
355	2022B1569	Effect of liquid crystal buffer layers on the crystallization dynamics of amorphous rubrene thin films	Shingo Maruyama	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	6	BL19B2	Np
356	2022B1570	Pioneering Mesoscopic Textures Created in Quantified Systems	NAOYUKI KATAYAMA	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
357	2022B1571	Elucidation of photoinduced phase transition phenomenon of photochromic diarylethene crystals	Kingo Uchida	Ryukoku University	Japan	Educational Organization	Materials Science and Engineering	5.875	BL02B1	Np
358	2022B1572	Investigation of the Structure of amorphous film using synchrotron X-ray diffraction technique	Madoka Ono	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	5.625	BL13XU	Np

2022B, 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	2022B1573	Investigation of Magnetoelectric Coupling Effect and Ferroelectric Transition in New Mixed-Anion Multiferroic Materials	Tong Zhu	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
360	2022B1574	Direct Observation of Photo-Induced Metal-Insulator Transition in λ -Ti3O5 Films for Optical Device	Hiroshi Kumigashira	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	12	BL09XU	Np
361	2022B1575	Time-resolved analysis on the nano-structural changes in a negative electrode material with good cycling ability in sodium-ion batteries	Tomohiko Okada	Shinshu University	Japan	Educational Organization	Chemical Science	6	BL13XU	Np
362	2022B1576	Measurement of structure and surface coordination environment of ligand-protected gold cluster intercalated into layered double hydroxide	Shinya Masuda	The University of Tokyo	Japan	Educational Organization	Chemical Science	5.875	BL14B2	Np
363	2022B1578	Understanding the kinetics of gate adsorption behavior on metal-organic frameworks	Shotaro Hiraide	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
364	2022B1579	Rietveld analysis of Sub-second Time resolved XRD measurement for a topochemical redox reaction on Sr3Fe2O7	Takafumi Yamamoto	Tokyo Institute of Technology	Japan	Educational Organization	Chemical Science	9	BL13XU	Np
365	2022B1580	The effect of tensile deformation on the fibrillar hierarchical structure of Poly (ethylene terephthalate) fiber.	Ren Tomisawa	Shinshu University	Japan	Educational Organization	Industrial Applications	6	BL19B2	Np
366	2022B1582	Observation of valence electron density distribution in spin crossover of LaCoO3	Shunsuke Kitou	RIKEN	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL02B1	Np
367	2022B1583	Crystal Structure Determination of Novel 3d Transition-Metal-Sulfide MOFs Synthesized based on Materials Informatics	Daisuke Tanaka	Kwansei Gakuin University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
368	2022B1584	Structure Determination of Low-Crystalline Sulfide MOFs Synthesized by Materials Informatics	Daisuke Tanaka	Kwansei Gakuin University	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
369	2022B1585	XAFS Measurements of Precious Metal Phosphide Catalysts Promoting Selective Reductions of Sulfar-containing Compounds and Investigation of Factors Affecting High Activity and Durability of the Catalysts	Takato Mitsudome	Osaka University	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
370	2022B1586	Investigation of crystal structure of novel Sn2+-included hexagonal tungsten bronze, $\text{Sn}_x\text{M}(\text{O},\text{F})_3$ (M=Nb,Ta, Ti)	Tetsuhiro Katsumata	Tokai University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
371	2022B1587	Microfibril angle orientations of "SAGAN-SUGI" (Japanese cedar) characterized by SAXS	Ichiro Hirosawa	Kyushu Synchrotron Light Research Center	Japan	National and Nonprofit Organization	Industrial Applications	2	BL19B2	Np
372	2022B1588	Temperature dependence of coordination geometry around Ge and Sb atoms in Ge-Sb-S glasses	Naoyuki Kitamura	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL14B2	Np
373	2022B1589	Effect of ionic bond strength on the structure and properties of tough and self-healing polyampholyte hydrogels	Takayuki Kurokawa	Hokkaido University	Japan	Educational Organization	Chemical Science	3	BL19B2	Np
374	2022B1590	Structure determination of illicit drugs and their metabolites by single crystal X-ray crystallography using crystalline sponge method	Shimpei Watanabe	RIKEN	Japan	National and Nonprofit Organization	Other	3	BL02B1	Np
375	2022B1591	in situ diffraction measurements of multiple consecutive transformations in coordination polymer	Yukihiro Yoshida	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	8.875	BL02B2	Np
376	2022B1592	Precious crystal structure analysis of subnanosized late transition metal cluster molecules	Yusuke Sunada	The University of Tokyo	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
377	2022B1595	Development of measurement technique for dynamic and static quantum crystallography	Eiji Nishibori	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
378	2022B1596	Local structural analysis of mixed metal oxide mesocrystal photocatalysts	Takashi Tachikawa	Kobe University	Japan	Educational Organization	Materials Science and Engineering	3	BL01B1	Np
379	2022B1598	Crystal structure analysis of pseudo-cubic fractured ferroelectric ceramics with giant piezoelectric response under applied DC electric field	Yoshihiro Kuroiwa	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	6	BL13XU	Np
380	2022B1599	Fabrication of emissive molecular solids through Lewis pairing and micron-sized single crystal X-ray structure analysis	Keishiro Tahara	University of Hyogo	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
381	2022B1601	Design of the operando HAXPES measurements for an all-solid-state lithium-ion battery	Okkyun Seo	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Chemical Science	12	BL46XU	Np
382	2022B1602	Single-crystal anomalous X-ray diffraction study on spatial distribution of Sb in sulfosalt mineral cosalite $\text{Pb}_2\text{Bi}_2\text{S}_5$	Ryo Yamane	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
383	2022B1603	X-Ray Single Crystal Structural Analysis for Microcrystals of Novel Highly Reactive Compounds containing Heavier Group 14 Elements	Mao Minoura	Rikkyo University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np

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S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
384	2022B1604	Observation of the Electronic Structure of Platinum-Group-Metal High-Entropy Alloy (PGM-HEA) Nanoparticles showing high catalytic activity for hydrogen evolution reaction	Hiroshi Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL46XU	Np
385	2022B1605	Precise Crystal Structural Analysis of Polyoxometalate-based Hybrid Molecular Catalysts	Kosuke Suzuki	The University of Tokyo	Japan	Educational Organization	Chemical Science	2.625	BL02B1	Np
386	2022B1609	3D visualization of active surface structures on water electrolysis catalysts by operando observation of all elements and theoretical analysis	Masaaki Yoshida	Yamaguchi University	Japan	Educational Organization	Chemical Science	9	BL01B1	Np
387	2022B1617	Structural analysis of heterogeneous catalysts composed of coordination polymer glass encapsulating metal complexes	Satoshi Horike	Kyoto University	Japan	Educational Organization	Chemical Science	2	BL14B2	Np
388	2022B1619	Electronic state of quadruple perovskite oxide exhibiting negative thermal expansion	Ikuya Yamada	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	5.75	BL14B2	Np
389	2022B1621	In-situ XAFS measurements of 14-membered ring structured complex catalysts for CO2 electrochemical reduction	Kentaro Teramura	Kyoto University	Japan	Educational Organization	Chemical Science	9	BL01B1	Np
390	2022B1622	Development of new borosilicate glasses with low dielectric constant and low density and their glass formation mechanism	Tetsuji Yano	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL19B2	Np
391	2022B1623	Structural Investigation of flexible two-dimensional materials based on rhodium-organic triangles under gas sorption processes	Javier Lopez	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
392	2022B1624	Structural investigation on porous frameworks assembled from gigantic copper-organic octahedra	Shuhei Furukawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
393	2022B1626	Single-Crystal X-ray Diffraction Analysis of Organometallic Materials for Thermoelectric Conversion	Michihisa Murata	Osaka Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	3	BL02B1	Np
394	2022B1627	Development of higher-energy photoelectron spectroscopy	Satoshi Yasuno	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	11.875	BL46XU	Np
395	2022B1628	In-situ observation of changes in filler network structure with increasing breaking strain of nanocomposite rubber materials	Tatsuya Kikuchi	Sumitomo Rubber Industries, Ltd.	Japan	Industry	Industrial Applications	8.875	BL19B2	Np
396	2022B1629	Development of low temperature catalytic ammonia synthesis process	Fuminao Kishimoto	The University of Tokyo	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
397	2022B1630	Temperature- and polarization-dependent hard X-ray photoemission of Weyl fermion Heusler alloys	Shigenori Ueda	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	5.875	BL09XU	Np
398	2022B1633	Elucidation of caffeine-dicarboxylic acid complexes of co-crystal by quantum crystallography	Kunihisa Sugimoto	Kindai University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
399	2022B1634	Composition dependence study of short-range ordered structure observed in Hf-based amorphous alloys	Toru Kawamata	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	23.5	BL19B2	Np
400	2022B1635	Identification of cadmium chemical forms in roots of higher plants to elucidate the regulation mechanism of cadmium behaviors triggered by glutathione	Shin-ichi Nakamura	Tokyo University of Agriculture	Japan	Educational Organization	Environmental Science	3	BL01B1	Np
401	2022B1641	Yb 4f-5d Coulomb repulsion for the valence fluctuation mediated quantum critical phenomena in the Au-Al-Yb quasicrystal and approximant crystal: Yb L ₃ resonant hard x-ray photoemission spectroscopy	Kojiro Mimura	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	9	BL09XU	Np
402	2022B1643	In-situ measurement of structural change of layered rare-earth hydroxides during the anion exchange, the interlayer lift-up, and dehydration process: Investigation of the interrelationship between the interlayer distances as a reaction space and their catalytic activities	Takayoshi Hara	Chiba University	Japan	Educational Organization	Chemical Science	6	BL02B2	Np
403	2022B1644	Investigation of the average and local structures in gas adsorption on porous coordination polymers	Yoshiki Kubota	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
404	2022B1647	Structure refinement analyses of MMX-type polymeric chain complexes with mixed-valence dirhodium units	Yusuke Kataoka	Shimane University	Japan	Educational Organization	Chemical Science	6	BL02B1	Np
405	2022B1651	Structural Investigation of gas adsorption processes of flexible porous coordination polymers exhibiting cycle-dependent sorption property	Susumu Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
406	2022B1654	Investigation of the anomalous thermoelectric property in valence fluctuating material Yb3Si5 by state-of-the-art hard x-ray photoemission spectroscopy	Kentaro Kuga	Toyota Technological Institute	Japan	Educational Organization	Materials Science and Engineering	9	BL09XU	Np
407	2022B1655	Formation mechanism of a high-density metal/metal-oxide interface on a supported Ir-based hybrid clustering catalyst	Shun Hayashi	National Museum of Nature and Science	Japan	National and Nonprofit Organization	Chemical Science	2	BL01B1	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)
408	2022B1656	Elucidation of Chemical States, Coordination Structures, and Selectivity Factors of Supported Hybrid Metal Nanoparticle Catalysts Promoting C-C Bond Formation in Carbon Dioxide Hydrogenation. We want to elucidate the ligand and ensemble effect, and metal-support interaction before/after the reaction.	Tomohiro Yabe	The University of Tokyo	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
409	2022B1658	Development of high performance anomalous XRD technique by Debye-Scherrer camera combined with multi-soller slit system	L. S. Kumara	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	6	BL19B2	Np
410	2022B1659	Solvent-controlled molecular symmetry of the rare-earth metal clusters loaded in the internal space of single-crystals	Nobuto Yoshinari	Osaka University	Japan	Educational Organization	Chemical Science	2.875	BL02B1	Np
411	2022B1660	HAXPES analysis of valence state and Fermi level in nano-cluster crystals of transition-metal chalcogenides	Shinobu Aoyagi	Nagoya City University	Japan	Educational Organization	Materials Science and Engineering	5.875	BL46XU	Np
412	2022B1662	Analysis for electronic and local structures in perovskite-type oxyfluoride cathode materials with fluoride ion intercalation/deintercalation(3)	Tomoki Uchiyama	Kyoto University	Japan	Educational Organization	Industrial Applications	9	BL14B2	Np
413	2022B1663	Clarification of the mechanism of the giant thermoelectric effect in Cu ₂ Se compounds studied by X-ray absorption fine structure	Hidetoshi Miyazaki	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	2.625	BL01B1	Np
414	2022B1664	Accurate Structural Analysis of Ru-Based Heusler-Type Alloys for High-Temperature Thermoelectric Conversion Devices Using High-Resolution Powder X-ray Diffraction	Hidetoshi Miyazaki	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
415	2022B1665	Phase stability mechanism of LPSO-type Mg-Y-Zn alloys studied by energy tunable and ultra-high resolution hard x-ray photoelectron spectroscopy	Hidetoshi Miyazaki	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL46XU	Np
416	2022B1666	Electronic structure and phase stability of Co-based Heusler-type thermoelectric materials studied by hard x-ray photoelectron spectroscopy	Hidetoshi Miyazaki	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np
417	2022B1667	Exploration on the local structure and the catalytic mechanism of MnO ₂ catalysts for the oxygen evolution reaction by operando XAFS techniques	Kiyohiro Adachi	RIKEN	Japan	National and Nonprofit Organization	Chemical Science	12	BL14B2	Np
418	2022B1668*	Exploration of new perovskite-related layered oxide ferroelectrics	Koji Fujita	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	2.875	BL02B2	Np
419	2022B1669	Structural analysis of catalytically active species in titanium and vanadium, and niobium complexes by solution XAFS analysis	Kotohiro Nomura	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
420	2022B1670	Determination of the local structure of the ordered and disordered Fe ₇₂ Pt ₂₈ negative thermal expansion alloys by using EXAFS and RMC calculation	Naoki Ishimatsu	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	9	BL01B1	Np
421	2022B1672	In-situ analysis on change in dislocation density during tensile deformation of heat treated 3D additive manufactured Inconel 718 Ni alloy	Shiro Torizuka	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	2	BL19B2	Np
422	2022B1675	A study on structural changes of the ligand-introducing Na _x Mn[Fe(CN) ₆] positive electrode during charge/discharge in sodium batteries by synchrotron X-ray diffraction	Shinichi Komaba	Tokyo University of Science	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
423	2022B1677	Controlling charge-density-wave instability in ZrTe ₃ via chemical substitution	Naoki Murai	Japan Atomic Energy Agency	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL02B1	Np
424	2022B1679	Elucidation of the relationship between crystal structure degradation and capacity change of Innovative oxyfluorinated cathode materials during charging and discharging	Toshiyuki Matsunaga	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
425	2022B1682	Characterization of long range order in L10-FeNi film by nano-beam anomalous X-ray diffraction	Takahiro Nishio	DENSO CORPORATION	Japan	Industry	Materials Science and Engineering	6	BL13XU	Np
426	2022B1683	Relation between copper nanoparticles and reaction field revealed by in situ synchrotron X-ray diffraction of supercritical hydrothermal synthesis	Hidetaka Kasai	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
427	2022B1684	Operando time-resolved XAS-DRIFTS observation of aggregation-redispersion dynamics of supported PGM nanoparticles for development of highly-durable practical exhaust catalyst	Soichi Kikkawa	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	8.875	BL01B1	Np
428	2022B1689	Extraction of 5d electronic state in valence band on Pt nano catalyst investigated by using resonant HAXPES	Akira Yasui	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL09XU	Np
429	2022B1690	Structural study of stimuli-responsive functional crystals composed of non-planar π -conjugated molecules	Yumi Yakiyama	Osaka University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np

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430	2022B1693	4f-5d Coulomb interaction in the critical valence-fluctuation mediated quantum-critical phenomena on CeTIn5 (T = Co, Rh, Ir) probed by linearly polarized resonant HAXPES	Hidegori Fujiwara	Osaka University	Japan	Educational Organization	Materials Science and Engineering	11.625	BL09XU	Np
431	2022B1694	Precise structural analysis of perovskite typed complex anion compounds having unusually high valence ions related to the oxygen ion dynamics	Masato Goto	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL02B2	Np
432	2022B1695	In situ XAFS measurement on the hydrogenation reaction of internal alkynes catalyzed by atomically precise palladium nanoclusters	Tsubasa Omoda	Tokyo Institute of Technology	Japan	Educational Organization	Chemical Science	3	BL01B1	Np
433	2022B1699	Investigation of increased durability of bimetallic catalysts for the selective deoxygenation of esters	Tomoo Mizugaki	Osaka University	Japan	Educational Organization	Chemical Science	3	BL14B2	Np
434	2022B1771	Measurements of conformational changes of proteins in a single molecule with white X-ray	Hirofumi Shimizu	University of Fukui	Japan	Educational Organization	Life Science	14.875	BL28B2	Np
435	2022B1773	Visualization of changes in soil particle structure and water retention state of unsaturated silica sand under triaxial compression	Ryunosuke Kido	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	26.625	BL28B2	Np
436	2022B1774	Observation of damaged concrete and rocks using wide-scope and high resolution X-ray CT	Takashi Hitomi	OBAYASHI CORPORATION	Japan	Industry	Industrial Applications	6	BL28B2	Np
437	2022B1806	Monitoring of the solvent-induced transformation of rare-earth clusters loaded in a crystalline host using powder X-ray diffraction experiments	Nobuto Yoshinari	Osaka University	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
438	2022B1807	Operant XAFS/XRD observation of the change of local fine structure of high entropy alloy nanoparticles and elucidation of CO2 activation mechanism	Kohsuke Mori	Osaka University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
439	2022B1811	Development of dimension-controlled perovskite solar cells and orientation evaluation of their multicrystalline films	Akinori Saeki	Osaka University	Japan	Educational Organization	Industrial Applications	3	BL13XU	Np
440	2022B1812	Synthesis and elucidation of the reaction behavior of novel complex oxyfluorides	Yoshiyuki Inaguma	Gakushuin University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
441	2022B1814	Hydrate structures of saccharides recognized by dynamic water cluster	Makoto Tadokoro	Tokyo University of Science	Japan	Educational Organization	Chemical Science	6	BL02B1	Np
442	2022B1815	Investigation of the valence arrangement of warped metal-organic nanotubes with sulfide-based ligands	Kazuya Otsubo	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
443	2022B1816	Crystal structure refinement of the quadruple perovskite oxides and mechanism of negative/zero thermal expansion	Ikuya Yamada	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	6	BL19B2	Np
444	2022B1817	Nanobeam X-ray diffraction analysis of local lattice strain in strained SiGe spintronic devices	Akira Sakai	Osaka University	Japan	Educational Organization	Materials Science and Engineering	15	BL13XU	Np
445	2022B1820	Structural analysis of ion-exchangeable MOF	Teppei Yamada	The University of Tokyo	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
446	2022B1822	Observation of the Electronic Structure of RhPdIrPtAu High-Entropy Alloy Nanoparticles showing catalytic activity for hydrogen evolution reaction	Hiroshi Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL46XU	Np
447	2022B1823	Atomically-precise nickel nanocluster for oxygen evolution reaction	Tokuhiwa Kawawaki	Tokyo University of Science	Japan	Educational Organization	Chemical Science	8	BL01B1	Np
448	2022B1825	Structure-function relationship on a novel thermoelectric semimetal Ta2PdSe6:Cu	Akitoshi Nakano	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	9	BL02B1	Np
449	2022B1826	Effect of electron-doping on cation dimerization in ilmenite-type vanadates	Hajime Yamamoto	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	5	BL02B2	Np
450	2022B1830	Development of novel negative thermal expansion materials with apatite type structures	Kengo Oka	Kindai University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
451	2022B1831	Observation of the Structural Change on Ultra High Entropy Alloy (PGM-HEA) Nanoparticles under Gas Atmosphere	Hiroshi Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL13XU	Np
452	2022B1832	Effect of trace additional element on AlFeSi intermetallic compounds in aluminum alloy die-cast	Masakazu Kobayashi	Toyohashi University of Technology	Japan	Educational Organization	Industrial Applications	6	BL47XU	Np
453	2022B1833	Structural Analysis of Sulfur-Based Cathode Materials for All-Solid-State Batteries by Powder X-ray	Toshiyuki Matsunaga	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL19B2	Np
454	2022B1834	Materials structure physics on origin of particle shape effect on ferroelectric phase transitions of polyhedral barium titanate fine particles	Yoshihiro Kuroiwa	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np

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455	2022B1836	Investigation of CO ₂ -adsorption mechanism of a metal-organic framework with guest-induced structural transition by powder XRD and solid-state NMR	Takuya Kurihara	Kanazawa University	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
456	2022B1837	Investigation of the crystal structure and electronic structure of Mg _x -yCo _y V ₃ -xO ₄ as a new cathode material for magnesium secondary batteries.	Yasushi Idemoto	Tokyo University of Science	Japan	Educational Organization	Industrial Applications	3	BL14B2	Np
457	2022B1838	Revealing the mechanism of improved cycling performance of lithium-ion batteries by hard-X-ray photoelectron spectroscopy: the effect of styrene-acrylic-rubber binders in positive electrode	Shinichi Komaba	Tokyo University of Science	Japan	Educational Organization	Industrial Applications	12	BL46XU	Np
458	2022B1840	Analysis of local structure of precious-group-metal catalysts having high thermal stability and catalytic performance for environmental protection	Saburo Hosokawa	Kyoto Institute of Technology	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
459	2022B1842	Study of piezoelectric actuation mechanism by clarify extrinsic/intrinsic contribution in nano/macro domain engineered BiFeO ₃ -BaTiO ₃ based piezoelectrics.	Sangwook Kim	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
460	2022B1843	Insitu Structural investigation of guest-induced structural responses in a flexible porous-coordination-polymer with radical moieties	Susumu Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
461	2022B1844	In-situ XAFS measurements of amorphous thin-film Li-ion batteries	Isaku Kanno	Kobe University	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
462	2022B1845	Effect of nucleating agents on structure formation of biomass-derived polymers	Masahiro Fujita	RIKEN	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL19B2	Np
463	2022B1847	High-temperature In-situ XRD Measurement of Fluorides with Lone Pair Electrons	Chengchao Zhong	Ritsumeikan University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
464	2022B1848	Elucidation of diffusion process from two-type well-designed core@shell nanoparticles to Z3-type Fe(Pd,In) ₃ nanoparticles	Kenshi Matsumoto	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
465	2022B1850	Investigation of coloration and crystallization in silicate glass by local structure analysis of dopants (Fe, Ni, Zr) in glass using XAFS	Tetsuo Kishi	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL14B2	Np
466	2022B1852	In-situ observation of the synthesis process of functional oxides using amorphous precursors	Takumi Nishikubo	Kanagawa Institute of Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL02B2	Np
467	2022B1853	Crystal structure determination of the high-rank ordered η-Fe ₂ Al ₅ phase	Haruyuki Inui	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
468	2022B1857	Ce K edge XAFS Study on Cerium Based Oxygen Storage Materials	Feng Wang	University College London	UK	Foreign	Chemical Science	10	BL01B1	Np
469	2022B1858	In situ XRD measurement of BaO-SiO ₂ glasses during crystallization	Takato Kajihara	AGC Inc.	Japan	Industry	Industrial Applications	6	BL13XU	Np
470	2022B1859	Precise Crystal Structural Analysis of Organic-Polyoxometalate Hybrid Molecular Catalysts	Kosuke Suzuki	The University of Tokyo	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
471	2022B1860	In situ XAFS Analysis of Formation of Metal Nanoclusters Using a Cavity within a Ring-shaped Polyoxometalate	Kosuke Suzuki	The University of Tokyo	Japan	Educational Organization	Chemical Science	9	BL01B1	Np
472	2022B1862	Study on structural properties of magnetic anisotropy and electronic states of strong permanent magnet Nd ₂ Fe ₁₄ B and related materials	Hiroshi Sawa	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	12	BL02B1	Np
473	2022B1865	Study on interface control and reliability improvement of HfO ₂ -based ferroelectric devices deposited by ALD using hard x-ray photoelectron spectroscopy	Takahiro Nagata	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL09XU	Np
474	2022B1868	Evaluation of negative thermal expansion property of low-temperature operation giant negative thermal expansion material BiNi _{1-x} Fe _x O ₃	Masaki Azuma	Tokyo Institute of Technology	Japan	Educational Organization	Industrial Applications	6	BL19B2	Np
475	2022B1869	XAFS study of Pd catalyst for ethanol dehydration-hydrogenation reaction to reduce hydrogen in CO ₂ methanation product gas(2)	Tomoki Uchiyama	Kyoto University	Japan	Educational Organization	Chemical Science	12	BL14B2	Np
476	2022B1878	Development of higher-energy photoelectron spectroscopy II	Satoshi Yasuno	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL46XU	Np
477	2022B1882	Crystal Structure Determination of Novel Semiconductive Cobalt MOFs Synthesized based on Materials Informatics	Daisuke Tanaka	Kwansei Gakuin University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
478	2022B1883	Visualization of Changes in Moisture Distribution of Dry Noodles during Drying Process.	Masafumi Hidaka	Tohoku University	Japan	Educational Organization	Industrial Applications	2	BL14B2	Np

2022B, Performed General Proposals

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

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
479	2022B1885	XAFS study in AgFe dual co-catalyst of highly active photocatalysts for CO ₂ reduction	Shoji Iguchi	Kyoto University	Japan	Educational Organization	Chemical Science	9	BL14B2	Np
480	2022B1886	Mitigation of antisite defect formation and structural phase transitions in high-temperature LiNbO ₃ -type fluorides	Hirofumi Akamatsu	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
481	2022B1889	Investigation of molecular structure of conductive platinum 1-D complexes with a coordinating functional group focusing on the dimensional extension	Hiroshi Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL02B1	Np
482	2022B1890	Observation of cationic reaction field formed on gold nanoparticles by adsorption of oxygen	Yuta Uetake	Osaka University	Japan	Educational Organization	Chemical Science	7	BL14B2	Np
483	2022B1891	Zirconium codoping effect for GSO scintillators revealed by high-energy XAFS experiment	Mamoru Kitaura	Yamagata University	Japan	Educational Organization	Materials Science and Engineering	3	BL14B2	Np
484	2022B1892	Understanding the kinetics of gate adsorption behavior on metal-organic frameworks II	Shotaro Hiraide	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
485	2022B1896	Plastic deformation behaviors of high entropy alloys investigated by in-situ synchrotron X-ray diffraction	Daixiu Wei	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
486	2022B1904	Understanding the mechanism of resistive switching in heterostructures based on AlFeO ₃ epitaxial thin-films, probed using HAXPES.	Badari Narayana Rao	Chiba University	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np
487	2022B1905	Gas adsorption behavior of porous polyoxometalates	Kunihisa Sugimoto	Kindai University	Japan	Educational Organization	Chemical Science	6	BL13XU	Np
488	2022B1906	Clarification of factors affecting the crystallinity of perovskite crystal layers	Naoyuki Shibayama	Toin University of Yokohama	Japan	Educational Organization	Chemical Science	4	BL19B2	Np
489	2022B1907	Elucidation of gas adsorption behavior of porous cobalt complexes by charge density study	Kunihisa Sugimoto	Kindai University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
490	2022B1908	Characterization of oxide film on Ni-Cr-Fe based alloy using angle-resolved hard X-ray photoemission spectroscopy	Katsuhiro Nishihara	Nippon Steel Corporation	Japan	Industry	Industrial Applications	12	BL09XU	Np
491	2022B1910*	Identification of high-density metastable structures of Si formed using dry laser peening	Tomokazu Sano	Osaka University	Japan	Educational Organization	Materials Science and Engineering	9	BL13XU	Np
492	2022B1911	Operando time-resolved XAFS observation of in situ formation of In-Cu alloy nanoparticles for highly selective electrochemical reduction of CO ₂	Soichi Kikkawa	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	9	BL01B1	Np
493	2022B1913	Development of p-type organic semiconductor layers for perovskite solar cells	Naoyuki Shibayama	Toin University of Yokohama	Japan	Educational Organization	Chemical Science	6	BL46XU	Np
494	2022B1914	The in-situ GIWAXS study on the effect of interfaces number on the dynamics of solid-state reactions in Ni/Ti layered thin films	Andrii Orlov	National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute"	Ukraine	Foreign	Materials Science and Engineering	6	BL19B2	Np
495	2022B1917	Identify coordination environment of polyoxometalate supported Pd catalyst for hydrodeoxygenation [new user]	Ning Yan	National University of Singapore	Singapore	Foreign	Chemical Science	6	BL01B1	Np
496	2022B1918	Evaluation of voltage-induced Ti valence modulation of Al ₂ O ₃ / TiO _x / SiO ₂ with different TiO _x film thickness by voltage-applied hard X-ray photoelectron spectroscopy	Hiroshi Nohira	Tokyo City University	Japan	Educational Organization	Materials Science and Engineering	5.875	BL09XU	Np
497	2022B1919	Elucidation of the mechanism of the structural phase transition responsible for the ferroelectricity of barium titanate	Kazunari Yamaura	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL02B2	Np
498	2022B1920	Investigation of Heating Effects in Ammonia Decomposition Process Using Microwave Heating	Katsutoshi Sato	Nagoya University	Japan	Educational Organization	Chemical Science	9	BL01B1	Np
499	2022B1925	Electric polarization instability in the ferroelectric tunneling junction studied by Angle-resolved hard x-ray photoemission spectroscopy	Jun Kano	Okayama University	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np
500	2022B1926	Chemical Analysis of the Impurity Ions Incorporated in Liquid Crystals / Liquid Crystal Alignment Film Interface using In-situ Hard X-ray Photoelectron Spectroscopy	Hisao Kiuchi	The University of Tokyo	Japan	Educational Organization	Industrial Applications	18	BL09XU	Np
501	2022B1927	Electronic structures of high mobility amorphous semiconductors: Investigation of carrier generation mechanisms by superoxide ions.	Junghwan Kim	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL46XU	Np
502	2022B1928	Evaluation of the formation area for Q-carbon by Hard X-ray photoelectron spectroscopy	Yuji Muraoka	Okayama University	Japan	Educational Organization	Materials Science and Engineering	7.875	BL46XU	Np

2022B, Performed General Proposals

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1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
503	2022B1934	Analysis on Degradation of Materials with Movable Cross-links by X-ray Scattering Measurements	Yoshinori Takashima	Osaka University	Japan	Educational Organization	Materials Science and Engineering	1	BL19B2	Np
504	2022B1936	Evaluation of new Th:CaF2 crystals for nuclear clock	Sayuri Takatori	Okayama University	Japan	Educational Organization	Elementary Particles, Nuclear Science	3	BL14B2	Np
505	2022B2522	Structural analysis of membrane active transporters	Kazuhiro Abe	Nagoya University	Japan	Educational Organization	Life Science	36	PX-BL (EM01CT)	Np
506	2022B2523	SAXS and cryoTEM studies on the structural changes of plant photoreceptor proteins upon light irradiation	Masayoshi Nakasako	Keio University	Japan	Educational Organization	Life Science	10	PX-BL (BL38B1, EM01CT)	Np
507	2022B2524	Drug discovery to suppress the unexpected viral outbreaks and pandemics	Hironori Hayashi	Tohoku University	Japan	Educational Organization	Medical Applications	1.5	PX-BL (BL41XU)	Np
508	2022B2525	Crystal structure analysis of protein oligomers and nanostructures based on 3D domain swapping	Shun Hirota	Nara Institute of Science and Technology	Japan	Educational Organization	Life Science	1.5	PX-BL (BL41XU, BL45XU)	Np
509	2022B2526*	Structural and functional analysis for mineral transporters from crop plants	Michihiro Suga	Okayama University	Japan	Educational Organization	Life Science	30	PX-BL (EM01CT, EM02CT)	Np
510	2022B2527	crystal structure of adenosine A2a receptor in complex with dual-antagonists	Gaojie Song	East China Normal University	China	Foreign	Life Science	2.5	PX-BL (BL45XU)	Np
511	2022B2529	Relationship of structural dynamics and function of PET-degrading enzyme upon metal-ion binding	Masayuki Oda	Kyoto Prefectural University	Japan	Educational Organization	Life Science	3	PX-BL (BL38B1)	Np
512	2022B2530	Structural analysis of Trypanosoma brucei GMP reductase in complex with ribavirin 5'-monophosphate (RMP) by means of X-ray crystallography	Takashi Inui	Osaka Metropolitan University	Japan	Educational Organization	Life Science	2	PX-BL (BL26B1)	Np
513	2022B2533	Structural and functional analysis of CRISPR-Cas effector complex	Tomoyuki Numata	Kyushu University	Japan	Educational Organization	Life Science	33.5	PX-BL (BL41XU, BL45XU, EM01CT)	Np
514	2022B2535	New artificial metalloenzymes from N-heterocyclic carbene-mediated metalation of natural thiamine enzymes	Zhihong Guo	Hong Kong University of Science and Technology	Hong Kong	Foreign	Life Science	2	PX-BL (BL45XU)	Np
515	2022B2536	Structural analysis of a series of proteins involved in intracellular iron dynamics	Hitomi Sawai	Nagasaki University	Japan	Educational Organization	Life Science	6	PX-BL (BL38B1)	Np
516	2022B2537	Elucidation of substrate recognition and catalytic mechanisms of carbohydrate-related enzymes from microorganisms and plants	Shinya Fushinobu	The University of Tokyo	Japan	Educational Organization	Life Science	4	PX-BL (BL45XU)	Np
517	2022B2540	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	38.5	PX-BL (BL26B1, BL41XU)	Np
518	2022B2542	High-resolution structural analysis of microtubule associated proteins involved in the regulation of non-centrosomal microtubule networks	Tsuyoshi Imasaki	Kobe University	Japan	Educational Organization	Life Science	9	PX-BL (EM01CT)	Np
519	2022B2543	Three-dimensional structure analysis of cell adhesion complexes that function in neuronal synapses	Shuya Fukai	Kyoto University	Japan	Educational Organization	Life Science	8	PX-BL (BL45XU, EM02CT)	Np
520	2022B2544	Structural analysis of the complex formation between major anaerobic glycolysis enzymes and their inhibitory agents	Makoto Nakabayashi	Osaka Ohtani University	Japan	Educational Organization	Life Science	1	PX-BL (BL41XU)	Np
521	2022B2546	Single crystal structure analysis of giant artificial protein molecules using synchrotron radiation X-ray	Sota Sato	The University of Tokyo	Japan	Educational Organization	Chemical Science	11.875	PX-BL (BL26B1, BL41XU)	Np
522	2022B2548	Structural analysis of ubiquitin signaling-related proteins	Kei Okatsu	Kyoto University	Japan	Educational Organization	Life Science	8	PX-BL (BL45XU, EM02CT)	Np
523	2022B2549	Elucidation of the Structural Basis of the Target RNA Recognition Mechanism of RNA Binding Proteins	Takamasa Teramoto	Kyushu University	Japan	Educational Organization	Life Science	3	PX-BL (BL41XU, BL45XU)	Np
524	2022B2551*	Structural analysis of proteins involved in iron acquisition and transport system	Hiroshi Sugimoto	RIKEN	Japan	National and Nonprofit Organization	Life Science	26.5	PX-BL (BL41XU, BL45XU, BL32XU, EM01CT)	Np
525	2022B2552	Structural basis for complex formation between HIV-1 Vif and host antiviral protein APOBEC3H	Takayuki Nagae	Tokyo University of Pharmacy and Life Sciences	Japan	Educational Organization	Life Science	0.5	PX-BL (BL45XU)	Np
526	2022B2553	Structural basis for chemical regulation of floral induction	Kotaro Nishiyama	RIKEN	Japan	National and Nonprofit Organization	Life Science	2	PX-BL (BL45XU)	Np

2022B, Performed General Proposals

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1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
527	2022B2554	Structural basis for the molecular evolution of membrane proteins	Yosuke Senju	Okayama University	Japan	Educational Organization	Life Science	2	PX-BL (BL41XU, BL45XU)	Np
528	2022B2555	Crystallographic study of GFP in the I state at ultra-high resolution	Kazuki Takeda	Kyoto University	Japan	Educational Organization	Life Science	3.25	PX-BL (BL41XU)	Np
529	2022B2712	Alteration of peroxiredoxin assembly by chemical modification	Tomoki Himiyama	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Life Science	2.75	PX-BL (BL45XU)	Np
530	2022B2713	Conserved allostery buried in Complex IV	Yasunori Shintani	National Cerebral and Cardiovascular Center	Japan	National and Nonprofit Organization	Life Science	3	PX-BL (EM01CT)	Np
531	2022B2714	Understanding and controlling dynamic structures that produce oxygen-binding cooperativity using artificial myoglobin oligomers	Satoshi Nagao	University of Hyogo	Japan	Educational Organization	Life Science	3	PX-BL (BL41XU, BL45XU)	Np
532	2022B2715	Analysis of stereospecificity of class I aldolase and the bioindustrial application	Seiya Watanabe	Ehime University	Japan	Educational Organization	Life Science	3.5	PX-BL (BL41XU, BL45XU)	Np
533	2022B2717	Structural and functional analysis for mineral transporters from crop plants	Michihiro Suga	Okayama University	Japan	Educational Organization	Life Science	3.5	PX-BL (BL41XU)	Np
534	2022B2718	Analysis of cold-adaptation and thermal stability mechanism for cold-adapted enzymes from psychrotrophic bacteria in Antarctic Ocean	Masaki Horitani	Saga University	Japan	Educational Organization	Life Science	5	PX-BL (BL41XU, BL45XU)	Np
535	2022B2721	Structural elucidation of enzymes related to biodegradable polymer and plastic-degradation.	Min Fey Chek	Nara Institute of Science and Technology	Japan	Educational Organization	Life Science	2	PX-BL (BL45XU)	Np
536	2022B2722	To understand eukaryogenesis using structural biology	Robert Robinson	Okayama University	Japan	Educational Organization	Life Science	5.875	PX-BL (BL41XU)	Np
537	2022B2723	Mechanisms of polymerization and ATP hydrolysis in eukaryotic and archaeal actin	Shuichi Takeda	Okayama University	Japan	Educational Organization	Life Science	1.5	PX-BL (BL41XU)	Np
538	2022B2725	Development of novel plant hormone receptor harboring the agonist-specific response	Kohji Murase	The University of Tokyo	Japan	Educational Organization	Life Science	1	PX-BL (BL45XU)	Np
539	2022B2726	Structural biology on phosphorylation-dependent activity regulation of plant FEN1	Takuji Oyama	University of Yamanashi	Japan	Educational Organization	Life Science	0.75	PX-BL (BL41XU)	Np
540	2022B2728	Structural analysis of photosynthetic membrane protein supercomplexes by the combination of X-ray crystallography and cryo-electron microscopy	Jian-Ren Shen	Okayama University	Japan	Educational Organization	Life Science	40	PX-BL (BL41XU, EM01CT, EM02CT)	Np
541	2022B2729	"in crystallo" catalytic analysis using HAG method	Takeshi Murakawa	Osaka Medical and Pharmaceutical University	Japan	Educational Organization	Life Science	6.5	PX-BL (BL26B1, BL45XU)	Np
542	2022B2731	Elucidation of the molecular recognition mechanism on steroid X receptor	Shigeru Sugiyama	Kochi University	Japan	Educational Organization	Life Science	5.5	PX-BL (BL26B1, BL41XU)	Np
543	2022B2733	Structural basis of the molecular mechanism of T cell activity regulation by CD28 family molecules and SH2 domains	Nobutaka Numoto	Tokyo Medical and Dental University	Japan	Educational Organization	Life Science	1.5	PX-BL (BL45XU)	Np
544	2022B2734	Structural biology of Wnt signaling proteins activating cancer proliferative signal	Naoki Shibata	University of Hyogo	Japan	Educational Organization	Life Science	7.5	PX-BL (BL32XU, EM02CT)	Np
545	2022B2735	Development of a Rapid Structural Analysis Method for Protein Crystals	Satoshi Abe	Tokyo Institute of Technology	Japan	Educational Organization	Life Science	9	PX-BL (BL32XU)	Np
546	2022B2736	Crystallographic analysis of enzymes utilizing high-energy phosphate bonds	Masahiro Fujihashi	Osaka Medical and Pharmaceutical University	Japan	Educational Organization	Life Science	2	PX-BL (BL41XU, BL45XU)	Np
547	2022B2738	Structural analysis of the Sec translocon complex, thiosulfate/sugar transporters	Tomoya Tsukazaki	Nara Institute of Science and Technology	Japan	Educational Organization	Life Science	9	PX-BL (BL32XU)	Np
548	2022B2739	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
549	2022B2740	Structural basis of the adhesion mechanism of Bacteroides	Katsumi Imada	Osaka University	Japan	Educational Organization	Life Science	1.5	PX-BL (BL41XU)	Np
550	2022B2741	Structural basis of the bacterial type III protein export	Katsumi Imada	Osaka University	Japan	Educational Organization	Life Science	1.5	PX-BL (BL41XU)	Np

2022B, Performed General Proposals

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1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
551	2022B2742	Structural analysis of mutant viral antigen proteins	Yusuke Nakamichi	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Life Science	1	PX-BL (BL26B1)	Np
552	2022B2744	Elucidation of functions of food-related enzymes by X-ray analysis with freezing and nonfreezing crystals.	Bunzo Mikami	Kyoto University	Japan	Educational Organization	Life Science	18	PX-BL (BL26B1)	Np
553	2022B2745	Development of BL41XU for the time-resolved crystallography	Kazuya Hasegawa	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Life Science	12	PX-BL (BL41XU)	Np
554	2022B2746	X-ray structural analysis of tight junction related membrane proteins	Shun Nakamura	Tokyo Medical and Dental University	Japan	Educational Organization	Life Science	2	PX-BL (BL45XU)	Np
555	2022B2747	Integrative structural biology of type IV pilus system in enteric bacterial pathogens	Shota Nakamura	Osaka University	Japan	Educational Organization	Life Science	15	PX-BL (BL41XU, BL45XU, EM01CT)	Np
556	2022B2748	Development of an experimental method for visualising enzymatic reaction induced by temperature shift.	Takaaki Fujiwara	Tohoku University	Japan	Educational Organization	Life Science	2.25	PX-BL (BL26B1, BL45XU)	Np
557	2022B2751	Structural determination of the full-length molecule of tRNA methyltransferase Trm56 from thermophilic archaea.	Akira Hirata	Tokushima University	Japan	Educational Organization	Life Science	0.5	PX-BL (BL41XU)	Np
558	2022B2752	Research and development to improve the performance of crystallization plate in situ diffraction measurement method	Hideo Okumura	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Life Science	10	PX-BL (BL41XU, BL45XU)	Np
559	2022B2753	X-ray crystal structural analysis of tRNA modification enzymes with metal ions	Min Yao	Hokkaido University	Japan	Educational Organization	Life Science	5	PX-BL (BL41XU, BL45XU)	Np
560	2022B2754	Elucidation of reaction mechanisms for metalloenzymes involved in nitrification and denitrification	Takehiko Tosha	RIKEN	Japan	National and Nonprofit Organization	Life Science	13.125	PX-BL (BL41XU, BL32XU, EM01CT, EM02CT)	Np
561	2022B2755	Structural studies of light-induced energy conversion in photosynthetic proteins	Yasufumi Umena	Nagoya University	Japan	Educational Organization	Life Science	3.25	PX-BL (BL41XU)	Np
562	2022B2756	Determination of the temperature sensor regions in the TRP channels by X-ray crystallography	Tomoya Hino	Tottori University	Japan	Educational Organization	Life Science	15	PX-BL (BL26B1, BL45XU, EM01CT, EM02CT)	Np
563	2022B2761	Diffraction data measurement for elucidating the mechanism of the metal-containing sensor system construction	Norifumi Muraki	Keio University	Japan	Educational Organization	Life Science	3	PX-BL (BL45XU)	Np
564	2022B2762	Integrated structural and functional analysis of a metalloprotein at a precise level	Yota Fukuda	Osaka University	Japan	Educational Organization	Life Science	1	PX-BL (BL41XU, BL45XU)	Np

2022B, 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	2022B1064	Observation of voids in rubber materials with high-resolution X-ray CT method	Yukiko Tamura	ENEOS Materials Corporation	Japan	Industry	Industrial Applications	1	BL47XU	P
2	2022B1065	X-ray single crystal structural analysis for structural determination of low molecular organic compound	Shun Narai	Sumitomo Pharma Co., Ltd.	Japan	Industry	Industrial Applications	2	BL40XU	P
3	2022B1066	Three-dimensional structural analysis of lithium-ion secondary battery by X-ray imaging method	Naoki Koshitani	Murata Manufacturing Co., Ltd.	Japan	Industry	Industrial Applications	6	BL20XU	P
4	2022B1067	XAFS measurements of metal surface	Jun Yamashita	Yazaki Corporation	Japan	Industry	Industrial Applications	1	BL37XU	P
5	2022B1068	3D structure observation of carbon materials	Takayuki Harano	NIPPON STEEL Chemical & Material Co., Ltd.	Japan	Industry	Industrial Applications	2	BL47XU	P
6	2022B1069	Micro-beam XAFS Study for Chemical States Analysis in Ceramics Part3	Hitoshi Nishimura	Murata Manufacturing Co., Ltd.	Japan	Industry	Materials Science and Engineering	6	BL37XU	P
7	2022B1070	HERFD-XAS study for Chemical State of V in Ceramics_No.2	Shota Fujinaka	Murata Manufacturing Co., Ltd.	Japan	Industry	Materials Science and Engineering	6	BL39XU	P
8	2022B1071	Observation of internal structure of resin materials.	Shoya Oizumi	Yazaki Corporation	Japan	Industry	Industrial Applications	1	BL47XU	P
9	2022B1073	Measurement of the distribution of impurity on polyolefin	Kiminori Uchida	Mitsui Chemicals, Inc.	Japan	Industry	Industrial Applications	1.875	BL17SU	P
10	2022B1074	Structural evaluation of resin	Takafumi Kawanishi	Nitto Analytical Techno-Center Co., Ltd.	Japan	Industry	Industrial Applications	1	BL47XU	P
11	2022B1075	Structural evaluation of porous materials	Takafumi Kawanishi	Nitto Analytical Techno-Center Co., Ltd.	Japan	Industry	Industrial Applications	1	BL28B2	P
12	2022B1076	Small and wide angle X-ray scattering studies of structure of fluororesins	Toshiyuki Fukushima	DAIKIN INDUSTRIES, LTD.	Japan	Industry	Materials Science and Engineering	2	BL40B2	P
13	2022B1077	Analysis of applied materials by Soft X-ray spectroscopy	Takashi Oyama	Murata Manufacturing Co., Ltd.	Japan	Industry	Industrial Applications	7.75	BL25SU	P
14	2022B1078	Elucidation of the mechanism of chemical bond change at the interface between organic and inorganic thin films	Kyungsung Yun	Dexerials Corporation	Japan	Industry	Industrial Applications	3	BL17SU	P
15	2022B1079	Elucidation of impurity states in ceramics by XAS and XES	Seiji Kawasaki	Murata Manufacturing Co., Ltd.	Japan	Industry	Materials Science and Engineering	6	BL27SU	P
16	2022B1080	X-ray fluorescence imaging analysis of fuel cells	Yuki Oriasa	Ritsumeikan University	Japan	Educational Organization	Industrial Applications	1	BL37XU	P
17	2022B1081	Understanding of Li coordination in electrolyte	Tomohiro Ikeda	Honda R&D Co.,Ltd.	Japan	Industry	Materials Science and Engineering	9	BL04B2	P
18	2022B1082	X-ray Imaging Study of Li-ion Battery	Hisao Yamashige	Toyota Motor Corporation	Japan	Industry	Industrial Applications	30	BL20XU	P
19	2022B1083	XAFS Study of Li-ion Battery	Hisao Yamashige	Toyota Motor Corporation	Japan	Industry	Industrial Applications	4	BL27SU	P
20	2022B1084	Structural analysis of molecular-containing micelles by small angle X-ray scattering	Yui Toyoda	JSR Corporation	Japan	Industry	Industrial Applications	0.875	BL40B2	P
21	2022B1085	3D chemical Imaging of metal oxide materials	Toshio Akai	Mitsubishi Chemical Corporation	Japan	Industry	Chemical Science	3	BL37XU	P
22	2022B1086	Structural Analysis of Polymer Materials in High Temperature and/or Elongational Conditions	Seisuke Inada	Sekisui Chemical Co., Ltd.	Japan	Industry	Materials Science and Engineering	1	BL40B2	P
23	2022B1087	Electronic structure analysis of solid/liquid interface by soft X-ray absorption and emission spectroscopy	Masahide Kaneko	NGK Spark Plug Co., Ltd.	Japan	Industry	Industrial Applications	1	BL27SU	P
24	2022B1088	Analysis of Magnetic Domain of Soft Magnetic Material	Hiroyuki Nose	IHI Corporation	Japan	Industry	Materials Science and Engineering	2.5	BL17SU	P
25	2022B1089	Study of disease resistance effect mechanism of tomato by utilizing converter slag fertilizer	Daiki Takahashi	City of Sendai	Japan	National and Nonprofit Organization	Life Science	2	BL37XU	P

2022B, Performed Proprietary General Proposals

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
26	2022B1090	Nondestructive observation of internal cracks in steel using synchrotron radiation X-ray laminography	Ayuki Yoshizumi	Nippon Steel Corporation	Japan	Industry	Industrial Applications	3	BL20B2	P
27	2022B1091	Structural Study of Li-Air Battery by Micro-CT and Nano-CT-XRD	Toshihiro Kondo	Ochanomizu University	Japan	Educational Organization	Chemical Science	6	BL20XU	P
28	2022B1092	Analysis of the negative electrode reaction mechanism of a lithium-ion battery using soft X-ray absorption spectroscopy	Jun Sakuma	KYOCERA Corporation	Japan	Industry	Industrial Applications	2.75	BL27SU	P
29	2022B1093	Analysis of electroless plating reaction by time-resolved XAFS	Junichi Nakajima	Nissan Chemical Corporation	Japan	Industry	Industrial Applications	3	BL01B1	P
30	2022B1094	HAXPES study of semiconductor materials	Munetaka Taguchi	TOSHIBA NANOANALYSIS CORPORATION	Japan	Industry	Materials Science and Engineering	3	BL09XU	P
31	2022B1095	Evaluation of residual stress around swaging part of cylindrical battery.	Shin Takahashi	JFE Techno-Research Corporation	Japan	Industry	Industrial Applications	6	BL13XU	P
32	2022B1096	Evaluation of valence band spectra of oxide semiconductor by hard X-ray photoelectron spectroscopy	Nozomi Kubota	Foundation for Promotion of Material Science and Technology of Japan	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL09XU	P
33	2022B1097	Analysis of Battery Materials by HAXPES	Akihiro Saeki	TOYOTA INDUSTRIES CORPORATION	Japan	Industry	Industrial Applications	1	BL46XU	P
34	2022B1098	X-ray Diffraction Measurement of Layerd Materials with Microbeam	Yuta Inaba	Sony Semiconductor Solutions Corporation	Japan	Industry	Industrial Applications	2.75	BL13XU	P
35	2022B1099	Thin film X-ray structural analysis of organic thin film	Hisashi Tetsutani	Nissan Chemical Corporation	Japan	Industry	Industrial Applications	2	BL13XU	P
36	2022B1100	HAXPES measurement	Kazuhiko Komori	SPring-8 Service Co., Ltd.	Japan	Industry	Industrial Applications	1	BL46XU	P
37	2022B1101	SAXS measurement	Kazuhiko Komori	SPring-8 Service Co., Ltd.	Japan	Industry	Industrial Applications	1	BL19B2	P
38	2022B1102	Synchrotron XRD measurement for ceramics	Yuki Nagamine	TDK Corporation	Japan	Industry	Industrial Applications	2.875	BL13XU	P
39	2022B1103	In-situ analysis on change in dislocation density during tensile deformation of 3D additive manufactured Hastelloy X and Inconel 738 Ni alloy at high temperature	Shiro Torizuka	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	2	BL13XU	P
40	2022B1786	Structural analysis of hydrogels	Takuji Kume	Kao Corporation	Japan	Industry	Industrial Applications	1	BL19B2	P
41	2022B1787	HAXPES study of semiconductor materials	Munetaka Taguchi	TOSHIBA NANOANALYSIS CORPORATION	Japan	Industry	Materials Science and Engineering	3	BL09XU	P
42	2022B1788	In-situ XAFS analysis of nano-order metal particles	Yasuo Yamauchi	Yazaki Corporation	Japan	Industry	Industrial Applications	1	BL14B2	P
43	2022B1789	Control of Ordering by Calcination Conditions in Magnesium Secondary-Battery Cathode Materials	Naoya Ishida	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Industrial Applications	4	BL19B2	P
44	2022B1791	Study of structure of fluororesins by powder X-ray diffraction	Toshiyuki Fukushima	DAIKIN INDUSTRIES, LTD.	Japan	Industry	Materials Science and Engineering	1	BL19B2	P
45	2022B1792	Synchrotron Radiation X-Ray data collection for thin films	hyosung Kim	Samsung Display	Korea	Foreign	Materials Science and Engineering	2	BL13XU	P
46	2022B1793	ASAXS measurement of Pd-Au catalysts supported on SiO2 -2	Hiroshi Takahashi	Showa Denko K.K.	Japan	Industry	Industrial Applications	1	BL19B2	P
47	2022B1794	XAS analysis of positive electrode material for Li-ion battery	Toyoki Okumura	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Chemical Science	2	BL01B1	P
48	2022B1795	Surface analysis of lithium metal anode by hard X-ray photoelectron spectrometry	Ryo Oosone	KYOCERA Corporation	Japan	Industry	Industrial Applications	1	BL46XU	P
49	2022B1796	Understanding of solid electrolyte strain and phase transition	Tomohiro Ikeda	Honda R&D Co.,Ltd.	Japan	Industry	Industrial Applications	3	BL13XU	P

2022B, 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)
50	2022B1797	Study on the electronic state of inorganic semiconductor materials	Ryouji Arai	Sony Semiconductor Solutions Corporation	Japan	Industry	Industrial Applications	3	BL46XU	P
51	2022B1798	Particle size analysis of the reaction process under special environment with in-situ SAXS	Syuhei Torigoe	Murata Manufacturing Co., Ltd.	Japan	Industry	Industrial Applications	2	BL19B2	P
52	2022B1799	Non-destructive observation of lithium-ion secondary batteries by synchrotron radiation X-ray laminography	Jun Sakuma	KYOCERA Corporation	Japan	Industry	Industrial Applications	2	BL47XU	P
53	2022B1800	In-situ observation of HASClay using X-ray small angle scattering measurement	Takao Akabori	Higashinohon Kiden Kaihatsu	Japan	Industry	Industrial Applications	1	BL19B2	P
54	2022B1801	Measuring residual stress on the surface of metal materials by laser cleaning	Keizo Nishihara	Tosei Electrobeam Co., Ltd.	Japan	Industry	Industrial Applications	2	BL13XU	P
55	2022B1803	Particle size evaluation of alloy catalysts by X-ray small-angle scattering analysis	Hiroto Tsuchiya	Honda R&D Co.,Ltd.	Japan	Industry	Chemical Science	2	BL19B2	P
56	2022B1804	Basic performance evaluation of X-ray detector.	Yuka Yanai	Holiba, Ltd.	Japan	Industry	Industrial Applications	3	BL14B2	P
57	2022B1976	HAXPES study of semiconductor materials	Munetaka Taguchi	TOSHIBA NANOANALYSIS CORPORATION	Japan	Industry	Materials Science and Engineering	3	BL09XU	P
58	2022B1977	Study of the temperature dependence of crystal struture of materials by using in-situ X-ray diffraction	Takuya Mori	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	3	BL19B2	P
59	2022B1978	Internal residual stress measurement by press punching	Ryo Matsumoto	AISIN corporation	Japan	Industry	Industrial Applications	6	BL13XU	P
60	2022B1979	Thin film X-ray structural analysis of organic thin film	Hisashi Tetsutani	Nissan Chemical Corporation	Japan	Industry	Industrial Applications	2	BL13XU	P
61	2022B1980	XAFS study on the local structures of heterogeneous catalysts	Shota Matsuo	Kao Corporation	Japan	Industry	Industrial Applications	1	BL14B2	P
62	2022B1981	Structural analysis of Pd complex ion	Manami Hieda	Kyuden Sangyo Co., Inc	Japan	Industry	Industrial Applications	1	BL14B2	P
63	2022B1982	Study of structure of fluororesins by powder X-ray diffraction	Toshiyuki Fukushima	DAIKIN INDUSTRIES, LTD.	Japan	Industry	Materials Science and Engineering	1	BL19B2	P
64	2022B1983	Chemical state analysis of inorganic materials using XAFS	Shinsuke Nishida	Furukawa Electric Co., Ltd.	Japan	Industry	Industrial Applications	2	BL14B2	P
65	2022B1984	Chemical state analysis of FT synthetic catalysts	Nobuharu Kimura	ENEOS Corporation	Japan	Industry	Industrial Applications	3	BL01B1	P
66	2022B1985	Study of application of X-ray scattering measurement for liquid food and beverages	Michio Komai	Tohoku University	Japan	Educational Organization	Industrial Applications	2	BL19B2	P
67	2022B1986	X-ray CT Evaluation of Vegetables.	Masafumi Hidaka	Tohoku University	Japan	Educational Organization	Industrial Applications	1	BL14B2	P
68	2022B1987	Particle size evaluation of alloy catalysts by X-ray small-angle scattering analysis	Hiroto Tsuchiya	Honda R&D Co.,Ltd.	Japan	Industry	Industrial Applications	2	BL19B2	P
69	2022B1988	Characterization of oxide film on metal using HAXPES	Katsuhiro Nishihara	Nippon Steel Corporation	Japan	Industry	Industrial Applications	3	BL09XU	P
70	2022B1989	XPS analysis of Corrosion Inhibitor on Copper Surface	Suzunosuke Shimomura	Kitanihon Electric Cable Co.,Ltd.	Japan	Industry	Industrial Applications	2	BL09XU	P
71	2022B1990	HAXPES analysis for interfaces between different materials	Yoshihiro Saito	Sumitomo Electric Industries, Ltd.	Japan	Industry	Industrial Applications	2	BL09XU	P
72	2022B1991	Analysis on the mechanism of its excellent strength and ductility balance	Shiro Torizuka	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	1	BL13XU	P
73	2022B1992	Structural analysis of OER catalyst for PEM water electrolysis under voltage change by in-situ XRD measurement.	Hiroaki Suzuki	Furuya Metal Co.,Ltd.	Japan	Industry	Industrial Applications	2.75	BL13XU	P
74	2022B1993	Crystal structure analysis of catalysts by XRD.	Norihiro Yoshinaga	Toshiba Corporation	Japan	Industry	Industrial Applications	2	BL19B2	P

2022B, 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)
75	2022B1994	Local structure analysis of catalysts by XAFS measurements	Masakazu Yamagiwa	Toshiba Corporation	Japan	Industry	Industrial Applications	2	BL14B2	P
76	2022B1995	Electronic structure analysis of catalysts by HAXPES measurements	Taishi Fukazawa	Toshiba Corporation	Japan	Industry	Industrial Applications	2	BL09XU	P
77	2022B1996	Analysis of deterioration mechanism of positive electrode in all solid battery using XAFS	Yuichi Ikeda	GS Yuasa International Ltd.	Japan	Industry	Industrial Applications	2	BL14B2	P
78	2022B2502	Structure analysis of proteins related to disease	Noritaka Furuya	KISSEI PHARMACEUTICAL CO., LTD.	Japan	Industry	Industrial Applications	5	PX-BL (BL41XU, BL45XU)	P
79	2022B2503	Structure analysis of proteins related to disease	Kazutaka Ito	Asahi Kasei Pharma Corporation	Japan	Industry	Industrial Applications	13	PX-BL (BL41XU, BL45XU, EM01CT)	P
80	2022B2504	crystal structure analysis of protein	Ryuji Kobayashi	TOSOH CORPORATION	Japan	Industry	Life Science	1	PX-BL (BL26B1)	P
81	2022B2505	Structural analysis of the therapeutic target proteins or nucleic acids with its ligands	Satoshi Sogabe	Axcelead Drug Discovery Partners Inc.	Japan	Industry	Industrial Applications	1.75	PX-BL (BL26B1, BL41XU)	P
82	2022B2507	Structure analysis of disease related protein	Rie Omi	ONO PHARMACEUTICAL CO., LTD.	Japan	Industry	Life Science	6.5	PX-BL (BL32XU, EM01CT)	P
83	2022B2508	Structural determination of target proteins for medical product development	Hiroyuki Kishida	Mitsubishi Tanabe Pharma Corporation	Japan	Industry	Life Science	7.75	PX-BL (BL41XU, BL45XU)	P
84	2022B2509	Structural Biology of Protein-Ligand complex for Drug Discovery	Shiho Yamamoto	Shionogi & Co., Ltd.	Japan	Industry	Life Science	6	PX-BL (BL41XU, BL45XU)	P
85	2022B2510	Structural analysis of protein and ligand/protein complex for drug discovery	Takashi Yamano	CHUGAI PHARMACEUTICAL CO., LTD.	Japan	Industry	Industrial Applications	7.5	PX-BL (BL41XU, BL45XU)	P
86	2022B2511	Structure-based pesticide development	Yoshiki Tanaka	AgroDesign Studios	Japan	Industry	Industrial Applications	19	PX-BL (BL41XU, BL45XU, EM01CT)	P
87	2022B2512	Structure analysis of proteins related to disease	Yuichiro Nakaishi	Otsuka Pharmaceutical Co., Ltd.	Japan	Industry	Industrial Applications	3.75	PX-BL (BL45XU)	P
88	2022B2513	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	0.75	PX-BL (BL45XU)	P
89	2022B2515	Structure analysis of complex of disease related proteins and their regulatory compounds	Yasushi Amano	Astellas Pharma Inc.	Japan	Industry	Life Science	13	PX-BL (BL41XU, BL45XU, BL32XU, EM01CT)	P
90	2022B2516	Diffraction experiment of protein crystals grown on Internal space station (ISS) under micro gravity	Daisuke Takahashi	Space BD Inc.	Japan	Industry	Life Science	3	PX-BL (BL41XU)	P
91	2022B2517	X-ray crystallography for disease target proteins	Akinori Yamasaki	Nippon Shinyaku Co., Ltd.	Japan	Industry	Life Science	1	PX-BL (BL41XU, BL45XU)	P
92	2022B2518	Crystal structure analysis of target proteins in complex with drug candidate compounds	Masafumi Kamitani	Taisho Pharmaceutical Holdings Co., Ltd.	Japan	Industry	Life Science	3.75	PX-BL (BL41XU, BL45XU, BL32XU)	P
93	2022B2701	X-ray or Cryo-EM structure determination of the protein with compound	Tsuyoshi Adachi	Japan Tobacco Inc.	Japan	Industry	Industrial Applications	1.5	PX-BL (BL41XU, BL32XU)	P
94	2022B2703	Data collection on protein crystals for structure based drug design	Fan Jiang	Viva Biotech (Shanghai) Ltd.	China	Foreign	Life Science	30	PX-BL (BL41XU, BL45XU)	P
95	2022B2704	Evaluation of the Protein Crystals under Microgravity by Synchrotron Radiation	Momi Iwata	Japan Aerospace Exploration Agency	Japan	National and Nonprofit Organization	Life Science	6.75	PX-BL (BL41XU, BL45XU)	P
96	2022B2705	Structural insights into antibody/antigen complex.	Jian Sun	BeiGene Ltd.	China	Foreign	Life Science	3	PX-BL (BL41XU)	P
97	2022B2706	Macromolecule protein crystals for data collection	Wang Cheng	Wuxi Biortus Biosciences Co. Ltd	China	Foreign	Industrial Applications	8.75	PX-BL (BL41XU, BL45XU)	P
98	2022B2710	Development of the efficient ligand screening methods against drug target proteins	Masaki Yamamoto	RIKEN	Japan	National and Nonprofit Organization	Life Science	60	PX-BL (EM01CT)	P

2022B, 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)
99	2022B2711	Structure analysis of proteins related to disease	Hiroki Omura	Teijin Pharma Limited	Japan	Industry	Industrial Applications	1.5	PX-BL (BL41XU, BL45XU)	P

2022B, 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	2022B0607	Structural analysis of low-temperature phase in layered VS2 with two dimensional triangular lattice	Keita Kojima	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	9	BL02B1	Np
2	2022B0608	In situ XAFS measurements of electrocatalysts for the nitrous oxide reduction	Yu Zhuang	Hokkaido University	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
3	2022B0611	Operando X-ray diffraction study of the Li+ insertion/extraction reaction process in turbostratic graphene	Satoshi Yamamoto	Nagoya University	Japan	Educational Organization	Chemical Science	9	BL19B2	Np
4	2022B0616	Gas adsorption-induced structural phase transition and tuning of thermal expansivity of porous molecular magnets, Prussian Blue analogues	Naoya Yoshikane	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
5	2022B0617	Temperature-dependent and time-resolved observations of crystalline polymer surface using Grazing Incidence Diffracted X-ray Blinking	Rena Inamasu	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL19B2	Np
6	2022B0618	Elucidation of unique water tolerant of Lindqvist-type niobium oxide cluster superbase catalysts by in situ XAS	Tomoki Matsuyama	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
7	2022B1704	Analysis of the water state of polymer materials with movable dual cross networks by FT-IR measurements	Soumei Kin	Osaka University	Japan	Educational Organization	Materials Science and Engineering	5.875	BL43IR	Np
8	2022B1705	Structure analysis of organic-inorganic supramolecular composite materials by X-ray scattering measurements	Yusaku Kawai	Osaka University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
9	2022B1706	The role of hydrogen bonding on the polydiacetylene biosensor	Jianlu Zheng	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL43IR	Np
10	2022B1710	Characterization of atomic configurations around efficient Eu luminescent centers in Eu-doped GaN	Atsushi Takeo	Osaka University	Japan	Educational Organization	Materials Science and Engineering	12	BL47XU	Np
11	2022B1713	Structural analysis of oligo nucleotide carriers composed of cationic molecular bottlebrushes	Shin Takano	The University of Kitakyushu	Japan	Educational Organization	Materials Science and Engineering	3	BL40B2	Np
12	2022B1716	Effect of Al and Fe on the viscosity of bridgmanite	Longli Guan	Okayama University	Japan	Educational Organization	Earth and Planetary Science	6	BL04B1	Np
13	2022B1717	Influence of applying external electrical current on electric states to iridium oxide $\text{Ca}_3\text{Ir}_2\text{O}_{12}$ using synchrotron radiation-based infrared spectroscopy	Hiroki Hanate	Kyushu Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	8.875	BL43IR	Np
14	2022B1718	Synthesis of novel transition metal nitrides under high pressure and investigation of their formation process	Shuto Asano	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	2.875	BL10XU	Np
15	2022B1720	The stability of hydrous SiO_2 stishovite in the deep mantle	Goru Takaichi	Ehime University	Japan	Educational Organization	Earth and Planetary Science	9	BL04B1	Np
16	2022B1723	Evaluation of defects and extra-framework species in zeolites by high-energy X-ray total scattering	Tatsushi Yoshioka	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	5.875	BL04B2	Np
17	2022B1725	Structural analysis of novel supramolecular architectures created in microfluidic field	Chisako Kanzaki	Kyoto Prefectural University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
18	2022B1729	Pressure dependence of lattice parameters on a line-nodal superconductor CaSb_2	Hidemitsu Takahashi	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL10XU	Np
19	2022B1730	Structural phase transition and mixed-valency-state of rare-earth metals in the ternary fullerides M_2AC_60 at high pressures	Keisuke Matsui	Osaka Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	8.875	BL10XU	Np
20	2022B1731	Dynamic response of molecular entanglements to deformation rate in ultrahigh-molecular-weight polyethylene melt	Ayaka Takazawa	Gunma University	Japan	Educational Organization	Materials Science and Engineering	6	BL40XU	Np
21	2022B1732	Structural and dynamic analysis of supramolecular hydrogen-bonded networks	Chisako Kanzaki	Kyoto Prefectural University	Japan	Educational Organization	Materials Science and Engineering	3	BL43IR	Np
22	2022B1733	Structural change in caries dentin after silver diamine fluoride and glass ionomer treatment.	Xuefei Chen	Tokyo Medical and Dental University	Japan	Educational Organization	Medical Applications	6	BL37XU	Np
23	2022B1735	Electronic structure study of micro-single crystal using u-ARPES : direct observation of electronic structure in exotic superconductor candidate electron-doped HfNiCl	Noriyuki Kataoka	Okayama University	Japan	Educational Organization	Materials Science and Engineering	9	BL25SU	Np
24	2022B1736	Density measurement of liquid Fe using X-ray absorption method combined with laser heating up to Martian core condition	Ryo Tsuruoka	Osaka University	Japan	Educational Organization	Earth and Planetary Science	9	BL10XU	Np
25	2022B1737	Measuring Vibron Effective Dispersion in an Amorphous and Amorphous Superlattice	Ryohei Nagahiro	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	8.875	BL35XU	Np

2022B, 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)
26	2022B1740	Infrared spectra study of the generation of water nanoclusters from a hydrated PEDOT:PSS polymer matrix	Ralph Ugalino	The University of Tokyo	Japan	Educational Organization	Chemical Science	6	BL43IR	Np
27	2022B1741	Polymer topology effects on the chain morphology of cyclic poly(ethylene glycol)	Tomohisa Watanabe	Hokkaido University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
28	2022B1742	Colloidal single crystal structure analysis using small angle X-ray scattering with rotating crystal method: lattice distortion analysis of DNA-NP superlattices for high-quality crystals	Lidong Zhang	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
29	2022B1743	HERFD-XAS Study on Local Structural Changes in Tantalum Oxide Clusters by Pairing Cations and Selective Activation of Carbon Dioxide	Tomoki Matsuyama	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	11.875	BL39XU	Np
30	2022B1746	XAFS study on active sites of boron nitride- and carbon-supported iridium-iron catalysts for synthesizing mono-alcohols from biomass-derived vicinal diols	Ben Liu	Tohoku University	Japan	Educational Organization	Industrial Applications	5.875	BL14B2	Np
31	2022B1748	Elucidation of unique CO2 adsorption mechanism of GME zeolite showing gate-opened type adsorption behavior and GME/CHA composite zeolite which adsorbs a large amount of CO2 at low pressure for DAC by in situ Powder X-ray Diffraction Measurements	Yuto Higuchi	Kansai University	Japan	Educational Organization	Materials Science and Engineering	2.75	BL02B2	Np
32	2022B1752	Study on organic solvent stabilized metal nanoparticles during solvent desorption	Kazuki Tabaru	Kansai University	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
33	2022B1754	Stacking Assemblies of Charged π -Electronic Systems: Evaluation of Charge Density Distribution through High Resolution Crystal Structure X-ray Analysis	Hiroki Tanaka	Ritsumeikan University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B1	Np
34	2022B1757	In-situ observation of the vapor-induced structural dynamics of metal complexes containing a novel pyridylthiazole ligand	Yuki Matsuda	University of Hyogo	Japan	Educational Organization	Chemical Science	6	BL02B2	Np
35	2022B1758	Tuning Pt-Cu interactions by Galvanic replacement synthesis for selective NH3 oxidation	Xuze Guan	University College London	UK	Foreign	Chemical Science	12	BL14B2	Np
36	2022B1761	Understanding of the mechanism of the ferromagnetism in Fe-doped ferromagnetic semiconductors by the observation of the element-specific magnetic polarizations	Takahito Takeda	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np
37	2022B1763	Direct observation of reaction intermediates in the Rh/La cooperative catalyzed reductive silylation of phenol derivatives by in situ XAFS analysis	Rin Seki	Kyoto University	Japan	Educational Organization	Chemical Science	3	BL14B2	Np
38	2022B1764	Structure and electronic state analysis of dopant metal species to copper-based catalysts for methanol reforming with impurities	Katsutoshi Nomoto	Tokyo Metropolitan University	Japan	Educational Organization	Industrial Applications	2.875	BL01B1	Np
39	2022B1765	Electronic state analysis by hard X-ray photoemission spectroscopy of synthetic copper-based sulfide minerals with high thermoelectric performance to verify T-site substitution effects	Tatsuhiro Ishida	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	8.875	BL09XU	Np
40	2022B1768	Effect of strain on PZT thin film on domain structure	Keisuke Ishihama	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	12	BL19B2	Np
41	2022B1941	Hard X-ray photoelectron spectroscopy (HAXPES) study on the correlation between valence electronic states and catalytic activities of metal phosphide nanoparticles	Hiroya Ishikawa	Osaka University	Japan	Educational Organization	Materials Science and Engineering	4.5	BL46XU	Np
42	2022B1943	In situ investigation of the structural transformation in the topochemical synthesis of A3MN3H	Yu Cao	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL02B2	Np
43	2022B1944	Controlling the Molecular Orientation through Iodine-Iodine Interactions: Microstructure Analysis of Solution-Processable Organic Semiconductors and Investigation of Charge-Transport Mechanism	Amane Matsunaga	Yamagata University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
44	2022B1945	Elucidation of the mechanism of chemical state change at silicon anode / sulfide solid electrolyte Li3PS4 interface under battery operation.	Sho Asano	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL46XU	Np
45	2022B1946	In situ synchrotron X-ray diffraction of mechanochemical reduction of AgCl with metals	Yanyan Zheng	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
46	2022B1949	Observation of bulk electronic structure of bipolar magnetic semiconductors	Jadupati Nag	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	6	BL09XU	Np
47	2022B1952	Solution-phase XAFS analysis of Pd nanoparticles as effective catalysts for oxidative coupling	Kazuki Tabaru	Kansai University	Japan	Educational Organization	Materials Science and Engineering	6	BL14B2	Np
48	2022B1954	Crystal and local structure in H ⁻ ion conductors with molecular borohydride anions	Hiroki Ubukata	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np

2022B, Performed Budding Researchers Support Proposals

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
49	2022B1958	Characterization of Crystalline Structure in Thin Film of multiblock copolymers comprised of polyisobutene and naphthalene-diimide-based n-type semiconducting polymer segments	Megumi Matsuda	Yamagata University	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np
50	2022B2556	Structural analysis of hydrogen oxidizing bacteria-originated chaperonin complex-part II	Zengwei Liao	The University of Tokyo	Japan	Educational Organization	Life Science	18	PX-BL (EM01CT, EM02CT)	Np
51	2022B2557	Elucidation of photosynthetic electron transfer mechanism by precise crystallographic analysis of Ferredoxin-NADP+reductase	Midori Uenaka	Osaka University	Japan	Educational Organization	Life Science	1	PX-BL (BL41XU)	Np
52	2022B2769	Structural analysis of GH19 chitinase with a different number of loops and activity depending on the evolutionary stage	Dan Kozome	Okinawa Institute of Science and Technology Graduate University	Japan	Educational Organization	Life Science	1	PX-BL (BL32XU)	Np
53	2022B2770	Control of protein crystallization and microcrystal structure analysis	Junko Tanaka	Tokyo Institute of Technology	Japan	Educational Organization	Life Science	6	PX-BL (BL32XU)	Np
54	2022B2771	Rapid protein crystal structure analysis using in-cell protein crystallization	Mariko Kojima	Tokyo Institute of Technology	Japan	Educational Organization	Life Science	8.5	PX-BL (BL32XU)	Np

2022B, 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	2022B0301	Investigation of the interactions of cubic phase liquid-crystalline nanoparticles in stopped-flow apparatus using time resolved small-angle X-ray scattering.	Wakileh Ward	Osaka University	Japan	Educational Organization	Materials Science and Engineering	3	BL40XU	Np
2	2022B0302	Structural analysis of the local information for highly efficient alloy catalysts in the dehydrogenation of alkanes using in-situ XAFS measurement	Yuki Nakaya	Hokkaido University	Japan	Educational Organization	Chemical Science	11.625	BL01B1	Np
3	2022B0304	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
4	2022B0305	Creation of highly functional catalysts through understanding the correlation between the environment of the active site and its catalytic activity by EXAFS measurements of porous silica-based catalysts (porous inorganic frameworks) synthesized through building block method.	Takuya Hikino	Waseda University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
5	2022B0308	Investigation of the interactions of cubic phase liquid-crystalline nanoparticles in stopped-flow apparatus using time resolved small-angle X-ray scattering.	Wakileh Ward	Osaka University	Japan	Educational Organization	Materials Science and Engineering	3	BL40B2	Np
6	2022B0314	Investigation of Fe-H-Si ternary phase diagram and determination of hydrogen-induced volume expansion coefficient for elucidation of the composition of the Earth's core	Yuichiro Yuichiro	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	11.875	BL04B1	Np

2022B, 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	2022B2002	Internal analysis of components by high-energy high-brilliance synchrotron radiation x-ray imaging	Hidehiko Kimura	Toyota Central R&D Labs., Inc.	Japan	Industry	Industrial Applications	1	BL05XU	P
2	2022B2003	Visualization of the three-dimensional internal crack propagation process of the cement material	Kosuke Takahashi	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	1	BL20XU	P
3	2022B2006	Morphology observation of deposited Li on metallic Li using X-ray CT	Yuichi Ikeda	GS Yuasa International Ltd.	Japan	Industry	Industrial Applications	2	BL20XU	P
4	2022B2007	Nondestructive analysis of the whole structure of a single polymer electrolyte fuel cell using laminography	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Chemical Science	3	BL20B2	P
5	2022B2009	Comparative survey of residual stress distribution before and after testing of quenched and tempered high carbon steel	koji Yamamoto	Komatsu Ltd.	Japan	Industry	Industrial Applications	4.875	BL19LXU	P
6	2022B2011	Investigation of film surface by using HAXPES	Keisuke Yamanaka	JFE Techno-Research Corporation	Japan	Industry	Industrial Applications	1	BL46XU	P
7	2022B2013	Investigation for the formation mechanism of Kink structure by 4D in-situ observation using synchrotron radiation CT	Kazuya Aizawa	Japan Atomic Energy Agency	Japan	National and Nonprofit Organization	Materials Science and Engineering	2.875	BL20B2	P
8	2022B2015	Morphological observation of deposited Li on metallic Li by means of X-ray CT	Yuichi Ikeda	GS Yuasa International Ltd.	Japan	Industry	Industrial Applications	1	BL20XU	P
9	2022B2016	SR-XRD measurement for magnetic materials	Yuki Nagamine	TDK Corporation	Japan	Industry	Industrial Applications	1	BL02B2	P
10	2022B2021	Internal analysis of components by high-energy high-brilliance synchrotron radiation x-ray imaging 2	Hidehiko Kimura	Toyota Central R&D Labs., Inc.	Japan	Industry	Industrial Applications	1	BL05XU	P
11	2022B2028	High energy x-ray Laue diffraction measurement identifies crystal structures of bulk metal blades	Shi-Wei Chen	National Synchrotron Radiation Research Center	Taiwan, ROC	Foreign	Materials Science and Engineering	1	BL28B2	P
12	2022B2032	Structural analysis of nanobubble solution by small-angle X-ray scattering.	Atsushi Nioh	Pola Chemical Industries, Inc.	Japan	Industry	Materials Science and Engineering	1	BL38B1	P
13	2022B2033	Analysis of transmission parts by HAXPES	Naoko Takahashi	Toyota Central R&D Labs., Inc.	Japan	Industry	Industrial Applications	3	BL09XU	P
14	2022B2036	Study on the electronic state of inorganic semiconductor materials	Ryouji Arai	Sony Semiconductor Solutions Corporation	Japan	Industry	Industrial Applications	1	BL46XU	P
15	2022B2038	In-situ analysis on change in dislocation density during tensile deformation of 3D additive manufactured Hastelloy X, Inconel 738 and Inconel 718 Ni alloy at high temperature	Shiro Torizuka	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	1	BL13XU	P
16	2022B2039	Characterization of self-heating mechanism of all-solid-state battery with sulfide electrolyte by in-situ heating XRD measurement	Koichi Sugiura	Consortium for Lithium Ion Battery Technology and Evaluation Center	Japan	Industry	Chemical Science	5.875	BL13XU	P
17	2022B2041	Interaction analysis of surfactant and plastic under stress	Chigusa Nagano	Mitsubishi Electric Corporation	Japan	Industry	Materials Science and Engineering	3	BL38B1	P
18	2022B2042	Evaluation of the internal structure of chondroitin sulfate nanogel as a drug carrier using Spring-8 (2)	Takehisa Hanawa	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	1	BL40B2	P
19	2022B2046	2D-GIXD measurement of Organic thin films	Yuta Inaba	Sony Semiconductor Solutions Corporation	Japan	Industry	Industrial Applications	0.25	BL13XU	P
20	2022B2047	Orientation analysis of printed organic semiconductor in organic-TFT	Makoto Nakazumi	Nikon Corporation	Japan	Industry	Industrial Applications	0.125	BL13XU	P
21	2022B2048	X-ray crystallography of protein-ligand complex	Hikaru Shimizu	PeptiDream Inc.	Japan	Industry	Life Science	1	BL45XU	P
22	2022B2055	In-situ XRD measurements of laminated battery cells in discharging process.	Masayuki Inaba	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	0.25	BL13XU	P
23	2022B2059	HAXPES measurement of LIB anode	Qiuyi Yuan	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	2	BL46XU	P
24	2022B2062	Structure Determination of Protein-Ligand Complexes	Naoki Fujisawa	Eisai Co., Ltd.	Japan	Industry	Life Science	0.75	BL41XU	P

2022B, Performed Proprietary Time-Designated Proposals

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
25	2022B2063	Evaluation of residual stress in swage part of cylindrical battery for electric vehicles.	Shin Takahashi	JFE Techno-Research Corporation	Japan	Industry	Industrial Applications	3	BL13XU	P
26	2022B2065	Structural analysis by phase contrast CT	Takafumi Kawanishi	Nitto Analytical Techno-Center Co., Ltd.	Japan	Industry	Industrial Applications	0.25	BL20B2	P
27	2022B2073	Structure Measurement Using High-energy Micro CT	Yutaka Ohtake	The University of Tokyo	Japan	Educational Organization	Industrial Applications	2	BL28B2	P
28	2022B2076	High-temperature X-ray diffraction analysis of inorganic compounds	Shogo Suehiro	Sumika Chemical Analysis Service, Ltd.	Japan	Industry	Industrial Applications	1	BL19B2	P
29	2022B2092	Crystalline structure of organic thin film	Masaru Nakada	Toray Research Center, Inc.	Japan	Industry	Industrial Applications	0.125	BL13XU	P
30	2022B2095	In-situ XRD measurements of laminated battery cells in discharging process.	Masayuki Inaba	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	1	BL13XU	P
31	2022B2096	In-situ XRD measurements of laminated battery cells in discharging process.	Masayuki Inaba	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	0.25	BL13XU	P
32	2022B2097	Characterization of polymer electrolyte fuel cell catalysts by synchrotron radiation infrared absorption spectrometry	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Industrial Applications	2	BL43IR	P
33	2022B2098	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	3	BL04B2	P
34	2022B2099	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	3	BL09XU	P
35	2022B2101	A Study on the Correlation between Voids Formed in Electric Cable Melt Scars and Oxidation State around Voids	Takahiro Tsukame	National Research Institute of Fire and Disaster	Japan	Educational Organization	Materials Science and Engineering	1	BL28B2	P

2022B, 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	2022B2001	XAFS analysis of SiO2 glass	Masahiro Kunisu	Toray Research Center, Inc.	Japan	Industry	Industrial Applications	0.25	BL14B2	P
2	2022B2004	XAFS measurement of Zr compounds.	Shogo Suehiro	Sumika Chemical Analysis Service, Ltd.	Japan	Industry	Industrial Applications	1	BL14B2	P
3	2022B2005	XAFS measurement of Nb, Ti and Ni compounds.	Shogo Suehiro	Sumika Chemical Analysis Service, Ltd.	Japan	Industry	Industrial Applications	1	BL14B2	P
4	2022B2008	State analysis of Ni in solid catalyst	Tsuyoshi Hirota	Kao Corporation	Japan	Industry	Industrial Applications	0.25	BL14B2	P
5	2022B2010	Crystal Structural Analysis of Sulfide Positive Electrodes for All-Solid-State Batteries in Increasing Temperature	Misae Otoyama	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Industrial Applications	1	BL19B2	P
6	2022B2012	6th Evaluation of silicon crystals using hard X-ray photoemission spectroscopy (HAXPES)	Masataka Hourai	SUMCO CORPORATION	Japan	Industry	Industrial Applications	5	BL46XU	P
7	2022B2014	XAFS of Lithium ion battery	Zhendong Zhang	Fudan University	China	Foreign	Industrial Applications	0.5	BL14B2	P
8	2022B2019	U-SAXS measurement of organic film (2)	Noriyuki Iwata	Ricoh Company, Ltd.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
9	2022B2020	XAFS measurement of Zr compounds	Shogo Suehiro	Sumika Chemical Analysis Service, Ltd.	Japan	Industry	Industrial Applications	0.5	BL14B2	P
10	2022B2022	XAFS analysis of Mn and V compounds	Shogo Suehiro	Sumika Chemical Analysis Service, Ltd.	Japan	Industry	Industrial Applications	0.5	BL14B2	P
11	2022B2023	Powder XRD measurement of solid-state battery materials	Kazunori Fukuda	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.75	BL19B2	P
12	2022B2024	Investigation into microphase-separated structure of sugar-based brush block copolymers	Takuya Isono	Hokkaido University	Japan	Educational Organization	Chemical Science	0.25	BL19B2	P
13	2022B2025	Investigation of Li ion battery materials IV	Na Zhao	SANKA High Technology Co. Ltd.	Japan	Industry	Industrial Applications	0.5	BL19B2	P
14	2022B2026	Crystal structure analysis of materials for lithium ion battery using XRD.	Shugo Yamada	Panasonic Holdings Corporation	Japan	Industry	Industrial Applications	1	BL19B2	P
15	2022B2027	Powder XRD measurement	Hiromi Seki	KYOCERA Corporation	Japan	Industry	Industrial Applications	1	BL19B2	P
16	2022B2029	Chemical form analysis of ruthenium and related elements in environmental samples	Yusuke Unno	Institute for Environmental Sciences	Japan	National and Nonprofit Organization	Industrial Applications	1	BL14B2	P
17	2022B2030	XAFS measurements of metal catalysts	Seisuke Inada	Sekisui Chemical Co., Ltd.	Japan	Industry	Industrial Applications	0.75	BL14B2	P
18	2022B2031	Depth analysis of friction scar by HAXPES	Shuichi Ogawa	Tohoku University	Japan	Educational Organization	Industrial Applications	0.5	BL46XU	P
19	2022B2034	Analysis of P concentration in the oxide films on Fe-P alloys	Masashi Nishimoto	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	0.5	BL46XU	P
20	2022B2035	XAFS measurements of metallic materials	Koto Wang	School Research Co. LTD	China	Foreign	Industrial Applications	0.75	BL14B2	P
21	2022B2037	SAXS/USAXS study of polymer film	Yuuichi Kondou	Nitto Analytical Techno-Center Co., Ltd.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
22	2022B2040	Synchrotron powder XRD measurements of lithium-ion battery materials	Kazunori Fukuda	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
23	2022B2043	XAFS measurements of metallic materials	Koto Wang	School Research Co. LTD	China	Foreign	Industrial Applications	0.75	BL14B2	P
24	2022B2044	Powder X-ray diffraction measurements	Takeshi Nakagawa	Toray Research Center, Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
25	2022B2045	XAFS analysis of Palladium on fibers	Yasuo Yamauchi	Yazaki Corporation	Japan	Industry	Industrial Applications	0.5	BL14B2	P

2022B, Performed Measurement Services

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
26	2022B2049	Measurement of filler orientation in resin/filler composite sheet	Kyohei Sawaki	DAIKIN INDUSTRIES, LTD.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
27	2022B2050	Ultra-small angle X-ray scattering measurement of fuel cell materials	Yuji Kurotani	Toyota Motor Corporation	Japan	Industry	Industrial Applications	0.25	BL19B2	P
28	2022B2051	USAXS analysis of ceramic materials and fluoropolymers	Saki Ozawa	AGC Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
29	2022B2052	USAXS measurement of macromolecular films containing SiO2	Masashi Ohno	Nissan Chemical Corporation	Japan	Industry	Industrial Applications	0.25	BL19B2	P
30	2022B2054	Xafs measurements of metallic materials	Koto Wang	School Research Co. LTD	China	Foreign	Industrial Applications	0.25	BL14B2	P
31	2022B2056	Confirmation of the detection limit of trace low molecular weight organic compound crystals in D-mannitol mixture	Daiki Birukawa	Sawai Pharmaceutical Co., Ltd.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
32	2022B2058	Powder XRD measurement of battery materials	Kazunori Fukuda	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.5	BL19B2	P
33	2022B2060	Analysis of nanometer-sized precipitates in thin nonferrous alloy sheets	Kazuhiro Goto	Sumitomo Electric Industries, Ltd.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
34	2022B2061	Structural analysis of crystalline ionic conductors	Naoki Matsui	Tokyo Institute of Technology	Japan	Educational Organization	Industrial Applications	0.25	BL19B2	P
35	2022B2064	Pd K-edge XAFS in rubber and Silica	Takayuki Saito	Zeon Corporation	Japan	Industry	Industrial Applications	0.625	BL14B2	P
36	2022B2066	XAFS measurements of Zr compounds	Shogo Suehiro	Sumika Chemical Analysis Service, Ltd.	Japan	Industry	Industrial Applications	1	BL14B2	P
37	2022B2067	Mineral determination in rocks	Kentaro Masuoka	Taisei Corporation	Japan	Industry	Industrial Applications	0.125	BL19B2	P
38	2022B2068	Powder XRD measurement of synthesized battery materials	Kazunori Fukuda	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
39	2022B2069	Confirmation of the detection limit of trace low-molecular-weight organic compound crystals in D-mannitol mixture	Daiki Birukawa	Sawai Pharmaceutical Co., Ltd.	Japan	Industry	Industrial Applications	1	BL19B2	P
40	2022B2070	XAFS measurement of metallic materials	Koto Wang	School Research Co. LTD	China	Foreign	Industrial Applications	0.5	BL14B2	P
41	2022B2071	XAFS measurements of Zr, Nb, and Ni compounds	Shogo Suehiro	Sumika Chemical Analysis Service, Ltd.	Japan	Industry	Industrial Applications	0.5	BL14B2	P
42	2022B2072	Chemical form analysis of ruthenium and other elements in environmental samples	Yusuke Unno	Institute for Environmental Sciences	Japan	National and Nonprofit Organization	Industrial Applications	1	BL14B2	P
43	2022B2074	3D shape observation of ceramic materials for microwave heating applications	Keiichiro Kashimura	Chubu University	Japan	Educational Organization	Materials Science and Engineering	0.5	BL28B2	P
44	2022B2075	XAFS measurement of Oxide	Atsushi Nakamura	Koito Manufacturing Co., Ltd.	Japan	Industry	Industrial Applications	1	BL14B2	P
45	2022B2077	Xafs measurements of metallic materials	Koto Wang	School Research Co. LTD	China	Foreign	Industrial Applications	0.25	BL14B2	P
46	2022B2078	Ultra small-angle X-ray scattering measurements of Carbon/Polymer composite materials	Masashi Harada	Toyota Central R&D Labs., Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
47	2022B2079	Analysis of Structural Changes in Cellulose Fibers Using Small-Angle Scattering	Masayuki Omoto	Seiko Epson Corporation	Japan	Industry	Industrial Applications	0.375	BL19B2	P
48	2022B2080	3D shape observation of glass substrate	Saotoru Masai	Seiko Epson Corporation	Japan	Industry	Industrial Applications	0.125	BL28B2	P
49	2022B2081	3D shape observation of precision machinery	Saotoru Masai	Seiko Epson Corporation	Japan	Industry	Industrial Applications	0.5	BL28B2	P
50	2022B2082	3D shape observation of metal parts	Saotoru Masai	Seiko Epson Corporation	Japan	Industry	Industrial Applications	0.125	BL28B2	P

2022B, 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)
51	2022B2083	Small Angle X-ray Scattering of Inorganic Materials.	Kazuya Tokuda	Sumitomo Electric Industries, Ltd.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
52	2022B2084	U-SAXS measurement of organic film (3)	Noriyuki Iwata	Ricoh Company, Ltd.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
53	2022B2085	Powder XRD measurement of battery materials	Kazunori Fukuda	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.75	BL19B2	P
54	2022B2086	XAFS analysis of Palladium on fibers	Yasuo Yamauchi	Yazaki Corporation	Japan	Industry	Industrial Applications	0.5	BL14B2	P
55	2022B2087	3D shape observation of resin	Hayate Saito	Hitachi, Ltd.	Japan	Industry	Industrial Applications	0.125	BL28B2	P
56	2022B2088	SAXS Analsys of Sheet Samples	Sonoko Kosuga	Daido Bunseki Research, INC.	Japan	Industry	Industrial Applications	0.125	BL19B2	P
57	2022B2089	Ceramics powder XRD measurement	Hiromi Seki	KYOCERA Corporation	Japan	Industry	Industrial Applications	0.5	BL19B2	P
58	2022B2090	Powder XRD	Sonoko Kosuga	Daido Bunseki Research, INC.	Japan	Industry	Industrial Applications	0.5	BL19B2	P
59	2022B2091	Analysis on 3D Shape of Metallic Material	Yusaku Yamamoto	Mitsui Mining & Smelting Co., Ltd.	Japan	Industry	Industrial Applications	0.25	BL28B2	P
60	2022B2093	Structural analysis of crystalline lithium ionic conductors	Naoki Matsui	Tokyo Institute of Technology	Japan	Educational Organization	Industrial Applications	0.75	BL19B2	P
61	2022B2100	XRD analysis of cathode materials for Li ion batteries	Masanobu Karasawa	Sumitomo Metal Mining Co., Ltd.	Japan	Industry	Industrial Applications	0.5	BL19B2	P

2022B, 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	2022B1001	The Extraction of Serious Defaults in the Conventional Evaluation Methods of Ultimate Mechanical Property of Polymer Substances and the Challenge to Find the True Values as a Guiding Principle for the Development of Ultra-Strong Polymer Materials	Kohji Tashiro	Aichi Center for Industry and Science Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	18	BL40XU	Np
2	2022B1002	Visualization of Solid-Liquid-Gas Phase Dynamics in an Electrolyzer for Numerical Modeling of Toluene Direct Electro-hydrogenation	Kensaku Nagasawa	Yokohama National University	Japan	Educational Organization	Industrial Applications	9	BL20B2	Np
3	2022B1003	Elucidation of effect of solidification mode on bead cracking in Fe-Mn-Si alloy during arc welding	Tomoya Nagira	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	7	BL20XU	Np
4	2022B1004	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
5	2022B1005	Changes over time in the three-dimensional structure of Achilles Enthesis during rat development	Hideaki Takahashi	Niigata University of Health and Welfare	Japan	Educational Organization	Life Science	6	BL20B2	Np
6	2022B1006	Structure analysis of polymer electrolyte fuel cell catalyst by X-ray total scattering	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Industrial Applications	18	BL04B2	Np
7	2022B1007	Investigating materials behaviors in PEFC using Compton Scattering Imaging	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Industrial Applications	18	BL08W	Np
8	2022B1008	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	11.75	BL40B2	Np
9	2022B1009	Observation of liquid water in gas diffusion layer and catalyst layer of polymer electrolyte fuel cells using operando CT (4)	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Chemical Science	12	BL20XU	Np
10	2022B1010	operando soft X-ray absorption spectroscopy study of Pt-based catalyst for Polymer Electrolyte Fuel Cell (5)	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Chemical Science	18	BL27SU	Np
11	2022B1011	Analysis of Radical Quencher in Polymer Electrolyte Membrane of PEM Fuel Cells using Time-resolved Micro-beam X-ray Fluorescence Spectroscopy	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Industrial Applications	23.625	BL37XU	Np
12	2022B1012	Effect of the specific adsorption of sulfonate group in ionomer and adsorbed oxide species on the oxygen reduction reaction activity of PEFC catalyst (2)	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Chemical Science	18	BL39XU	Np
13	2022B1013	Evaluation of degradation behavior in Nafion films using micro beam X-ray	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Chemical Science	6	BL40XU	Np
14	2022B1014	Local structures of intercalated fluoride ions in layered perovskite oxyfluorides	Hirofumi Akamatsu	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	9	BL25SU	Np
15	2022B1015	Investigation on distribution of components and localized deformation of carbon fiber/epoxy polymer blend matrix composites	Takuya Matsumoto	Kobe University	Japan	Educational Organization	Chemical Science	6	BL47XU	Np
16	2022B1016	Development of millisecond-temporal-resolution X-ray tomography using super-compressed sensing	Wataru Yashiro	Tohoku University	Japan	Educational Organization	Life Science	18	BL28B2	Np
17	2022B1017	Accurate pair distribution function analysis on small disordered materials	Shinji Kohara	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL47XU	Np
18	2022B1018	Accurate pair distribution function analysis with a high Q resolution on crystalline materials	Shinji Kohara	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL47XU	Np
19	2022B1019	Development of catalyst coating resin for PEFC by structural analysis for thin film under control humidity	Go Matsuba	Yamagata University	Japan	Educational Organization	Chemical Science	3	BL40B2	Np
20	2022B1020	X-ray CT measurement of structural change of all solid state lithium ion battery with charge and discharge 2	Manabu Kodama	Tokyo Institute of Technology	Japan	Educational Organization	Industrial Applications	4	BL20XU	Np
21	2022B1021	Structural analysis of multi-element nanoalloys by ex-situ PDF method	Koji Ohara	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL04B2	Np

2022B, 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)
22	2022B1022	Development and application of high-pressure X-ray fluorescence holography using diamond anvil cell	Koji Kimura	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL39XU	Np
23	2022B1023	Development of free-form X-ray mirror based on ultra-precise film thickness correction	Yusuke Matsuzawa	Natsume Optical Corporation	Japan	Industry	Beamline Engineering	6	BL25SU	Np
24	2022B1024	Tomography for bridging nano and macro: semi-spontaneous interfacial debonding	Hiroyuki Toda	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	7	BL20XU	Np
25	2022B1026	Development of a method for analyzing electronic states of multi-element nano-alloy catalysts by high-energy resolution X-ray emission spectroscopy	Naomi Kawamura	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Chemical Science	18	BL39XU	Np
26	2022B1027	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	9	BL45XU	Np
27	2022B1028	Integrated Structure Analyses on 'Basis for Supporting Innovative Drug Discovery and Life Science Research (BINDS)'	Masaki Yamamoto	RIKEN	Japan	National and Nonprofit Organization	Life Science	26	BL41XU	Np
28	2022B1029	Molecular Aggregation Structure of Glassy Polymer under Biaxial Elongation Deformation Using Multi-scale Structure Analyses	Ken Kojo	Kyushu University	Japan	Educational Organization	Chemical Science	6	BL05XU	Np
29	2022B1030	Visualization of Initiation process of a transverse crack in carbon fiber reinforced plastic (CFRP) under cyclic loads	Kosuke Takahashi	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	7	BL20XU	Np
30	2022B1031	operando XAS study of nanowire core Platinum shell catalyst for oxygen reduction reaction (4)	Tomoki Uchiyama	Kyoto University	Japan	Educational Organization	Chemical Science	9	BL37XU	Np
31	2022B1033	operando study of water electrolysis catalyst by HERFD-XAS(1)	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	5.875	BL39XU	Np
32	2022B1034	Structural Analysis of Water Electrocatalysts by Total X-ray Scattering (2)	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL04B2	Np
33	2022B1035	operando study of water electrolysis by soft X-ray absorption spectroscopy (1)	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	9	BL27SU	Np
34	2022B1036	In-situ analysis of the dilatancy phenomenon under high-speed vibration to solid and liquid composite.	Soichiro Okubo	Sumitomo Electric Industries, Ltd.	Japan	Industry	Industrial Applications	12	BL40XU	Np
35	2022B1037	XAFS study on electronic structure of Sulfur-based cathode materials for all-solid-state battery during charge-discharge cycle	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	12	BL27SU	Np
36	2022B1038	Direct observation of Li metal dendrite growth inside all-solid-state lithium battery using operando X-ray imaging method (3)	Toshiki Watanabe	Kyoto University	Japan	Educational Organization	Chemical Science	16	BL20XU	Np
37	2022B1039	Evaluation of renal tubular dynamics of actinide	Shino Takeda	National Institutes for Quantum Science and Technology	Japan	National and Nonprofit Organization	Medical Applications	8.875	BL37XU	Np
38	2022B1040	Localization analysis of intracellular bio-metals	Shino Takeda	National Institutes for Quantum Science and Technology	Japan	National and Nonprofit Organization	Medical Applications	6	BL37XU	Np
39	2022B1041	Resonant soft X-ray emission spectroscopy of oxide nanoparticles synthesized by supercritical method	Maiko Nishibori	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	6	BL27SU	Np
40	2022B1042	Internal analysis in battery with high safety and low cost for grid energy storage	Takeshi Kobayashi	Central Research Institute of Electric Power Industry	Japan	National and Nonprofit Organization	Chemical Science	8.875	BL27SU	Np
41	2022B1043	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	51	PX-BL(EM01CT)	Np
42	2022B1044	Structure Analysis of Freezing-thawing of the Lattice and Electron Systems in the Zirconium Molybdate	Masao Morishita	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
43	2022B1045	Electronic states analysis of complex intermetallic compound catalysts by hard X-ray photoelectron spectroscopy	Satoshi Kameoka	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	3	BL09XU	Np
44	2022B1046	Investigation of origin of thermally reversible tri-phase change in nickelates based on perovskite structure	Hideyuki Kawasoko	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
45	2022B1047	Observation of elasto-plastic deformation behavior in additively manufactured Al-Fe alloy with heteromicrostructure	Hiroki Adachi	University of Hyogo	Japan	Educational Organization	Industrial Applications	3	BL13XU	Np
46	2022B1048	Investigation of Local Structure in Novel Layered Perovskite with Redox Activity	Takahiro Takei	University of Yamanashi	Japan	Educational Organization	Materials Science and Engineering	3	BL01B1	Np

2022B, 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)
47	2022B1049	Structure analysis of polymer electrolyte fuel cell catalyst by X-ray absorption spectroscopy	Hideto Imai	Fuel Cell Cutting-Edge Research Center Technology Research Association	Japan	Industry	Industrial Applications	3	BL14B2	Np
48	2022B1050	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
49	2022B1051	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	9	BL46XU	Np
50	2022B1052	Search of new low thermal expansion oxides by using synchrotron X-ray diffraction	Nobuhiro Kumada	University of Yamanashi	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
51	2022B1053	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
52	2022B1054	Reaction analysis of the solid-state synthesis of high-entropy oxides	Akira Miura	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
53	2022B1055	Structural investigations of elements in hyper-ordered structure using X-ray absorption fine structure	Hirokazu Masai	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	0.75	BL01B1	Np
54	2022B1056	In-situ diffraction experiments during deformation for controlling different deformation modes in metallic materials VI	Nobuhiro Tsuji	Kyoto University	Japan	Educational Organization	Industrial Applications	6	BL13XU	Np
55	2022B1057	Development of high-throughput XRD measurement method for Structural analysis of multi-element nanoalloys	Shogo Kawaguchi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL13XU	Np
56	2022B1058	operando XAS study of PEFC catalyst on the oxygen reduction reaction activity (3)	Tomoki Uchiyama	Kyoto University	Japan	Educational Organization	Chemical Science	3	BL01B1	Np
57	2022B1059	Evaluation of the local structure of InGaN/GaN multi quantum well by nanobeam X-ray diffraction	Kazushi Sumitani	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL13XU	Np
58	2022B1060	Crystal structure change analysis of sulfide solid electrolyte under humidity condition by using soft X-ray diffraction	Toshiki Watanabe	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL02B2	Np
59	2022B1061	In-situ XAFS observation of redox behavior of oxide nanoparticles synthesized by supercritical method	Maiko Nishibori	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	6	BL01B1	Np
60	2022B1062	Electronic structure analysis of multi-element nano alloy catalyst materials by HAXPES	Yasumasa Takagi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL46XU	Np
61	2022B1063	Structural investigations of elements in hyper-ordered structure using X-ray absorption fine structure	Hirokazu Masai	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL14B2	Np
62	2022B1769	Detailed Analysis of Gas Pores in Ni-alloy powers	Joe Yoshikawa	Industrial Technology Institute, Miyagi Prefectural Government	Japan	National and Nonprofit Organization	Industrial Applications	1	BL28B2	Np
63	2022B1775	Development of highly active catalyst for CO2 utilization	Yasushi Sekine	Waseda University	Japan	Educational Organization	Chemical Science	6	BL14B2	Np
64	2022B1776	Analysis of nanostructural changes during curdling reaction, the initial process of cheese production	Isamu Kaneda	Rakuno Gakuen University	Japan	Educational Organization	Industrial Applications	1	BL19B2	Np
65	2022B1777	In-situ study of intercalation of alkali metal into bilayer graphene by thin film X-ray diffraction	Eiji Nishibori	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
66	2022B1778	XAFS measurement in nanocrystallization process of glass using high temperature in situ measurement	Kenji Shinozaki	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	2	BL14B2	Np
67	2022B1779	High-energy X-ray diffraction and scattering measurement for Structural analysis of multi-element nanoalloys	Shogo Kawaguchi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL13XU	Np
68	2022B1780	Electronic structure study on the candidate and related materials for a spacecraft radiator with thermal switching3	Tomohiko Saitoh	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	3	BL09XU	Np

2022B, 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)
69	2022B1781	Precise Crystal Structural Analysis of Hybrid Polyoxometalates as Advanced Functional Energy Materials by High-flux X-ray Diffraction Analysis	Tatsuhiro Kojima	Osaka University	Japan	Educational Organization	Chemical Science	3	BL02B1	Np
70	2022B1782	In-situ USAXS analysis of the dilatancy phenomenon under high-speed shearing to solid and liquidcomposite.	Soichiro Okubo	Sumitomo Electric Industries, Ltd.	Japan	Industry	Industrial Applications	9	BL19B2	Np
71	2022B1783	Electronic structure analysis of multi-element nano alloy catalyst materials by HAXPES II	Yasumasa Takagi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL46XU	Np
72	2022B1784	Local structure analysis of heteroatoms in zeolite framework by X-ray absorption spectroscopy	Maiko Nishibori	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	6	BL01B1	Np
73	2022B1785	Deformation Mechanism of Nano-Heterostructured Metallic Materials Composed of Soft Domains and Hard Domains 3	Nobuhiro Tsuji	Kyoto University	Japan	Educational Organization	Industrial Applications	3	BL13XU	Np
74	2022B1963	Precise Structural Evaluation of Micellar Solutions Formed by Aquatic Functional Materials	Go Matsuba	Yamagata University	Japan	Educational Organization	Chemical Science	1	BL19B2	Np
75	2022B1964	Structure and phase transition of mixed-anion fluoride conductors	Daichi Kato	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	5.875	BL02B2	Np
76	2022B1965	Analysis of electronic states and local structures for multi-element nano-alloy catalysts by X-ray absorption spectroscopy	Naomi Kawamura	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Chemical Science	6	BL01B1	Np
77	2022B1966	In-situ study of intercalation of metal chloride into bilayer graphene by thin film X-ray diffraction	Eiji Nishibori	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
78	2022B1967	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	9	BL09XU	Np
79	2022B1968	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
80	2022B1969	Utilization of hard X-ray photoemission for Characterization of electronic structure and analysis of local structure toward development of novel energy saving materials	Shigenori Ueda	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	8.75	BL09XU	Np
81	2022B1970	Observation of elasto-plastic deformation behavior during hot tensile test in additively manufactured Al-Fe-X alloy with hetero-microstructure	Hiroki Adachi	University of Hyogo	Japan	Educational Organization	Industrial Applications	2.375	BL13XU	Np
82	2022B1971	Local structure analysis of elements in hyper-ordered structures using X-ray absorption fine structure	Hirokazu Masai	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL14B2	Np
83	2022B1972	High-energy X-ray diffraction and total scattering measurement for Structural analysis of multi-element nanoalloys	Shogo Kawaguchi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL13XU	Np
84	2022B1973	Electronic structure analysis of multi-element nano alloy catalyst materials by HAXPES III	Yasumasa Takagi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL09XU	Np
85	2022B1974	In-situ USAXS analysis of the dilatancy phenomenon under high-speed shearing to solid and liquidcomposite.	Soichiro Okubo	Sumitomo Electric Industries, Ltd.	Japan	Industry	Industrial Applications	8.875	BL19B2	Np
86	2022B1975	In-situ analysis on change in dislocation density during 760°C high temperature tensile deformation of 3D additive manufactured, Inconel738, Inconel718, Hastelloy X Ni alloy	Shiro Torizuka	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	3	BL13XU	Np
87	2022B1997	Effect of grain size refinement on austenite stability related hydrogen embrittlement in austenitic stainless steel	Atsushi Ito	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	3	BL19B2	Np

2022B, Performed Long-term Proposals

1Shift =8Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/Non-proprietary(Np)
1	2022B0181	Study of iron alloys under ultrahigh pressures and the core light element composition	Kei Hirose	Tokyo Institute of Technology	Japan	Educational Organization	Earth and Planetary Science	41.875	BL10XU	Np
2	2022B0185	Initial and detailed analysis of Hayabusa2 return samples using X-ray tomography	Megumi Matsumoto	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	14.875	BL20XU	Np
3	2022B0188	Initial and detailed analysis of Hayabusa2 return samples using X-ray tomography	Megumi Matsumoto	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	23.5	BL47XU	Np