

# 2021A, 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	Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/ Non-proprietary(Np)
1	2021A1044	X-ray single crystal structural analysis for structural determination of low molecular organic compound	Takahiko Hashizuka	Sumitomo Dainippon Pharma Co., Ltd.	Japan	Industry	Industrial Applications	1	BL40XU	P
2	2021A1045	Dynamic structural evaluation of bio-based material surface in solvent application process.	Hidetaka Akatsuka	Pola Chemical Industries, Inc.	Japan	Industry	Industrial Applications	1	BL05XU	P
3	2021A1046	Precision structure analysis and operand XRD analysis for ceramics	Yuki Nagamine	TDK Corporation	Japan	Industry	Industrial Applications	3	BL02B2	P
4	2021A1047	Micro-beam XAFS study for Chemical State Analysis in Ceramics Part2	Hitoshi Nishimura	Murata Manufacturing Co., Ltd.	Japan	Industry	Materials Science and Engineering	6	BL37XU	P
5	2021A1049	X-ray Imaging Study of Li-ion Battery	Hisao Yamashige	Toyota Motor Corporation	Japan	Industry	Industrial Applications	6	BL47XU	P
6	2021A1050	High-resolution X-ray CT imaging test of metal contact interface	Junishi Nakamura	Honda Motor Co., Ltd.	Japan	Industry	Industrial Applications	2	BL28B2	P
7	2021A1051	Structural evaluation of resin	Takafumi Kawanishi	Nitto Analytical Techno-Center Co., Ltd.	Japan	Industry	Industrial Applications	1	BL47XU	P
8	2021A1053	HAXPES study of semiconductor materials	Munetaka Taguchi	TOSHIBA NANOANALYSIS CORPORATION	Japan	Industry	Industrial Applications	3	BL47XU	P
9	2021A1054	In-situ observations of synthesis process of composite materials	Yuka Deguchi	Sumitomo Electric Industries, Ltd.	Japan	Industry	Materials Science and Engineering	9	BL04B1	P
10	2021A1060	Pair distribution function investigations on the distribution of local phase and lattice strain in PtxTMy (TM = Fe, Co and Ni) alloy nano-catalysts	Qiang Li	University of Science and Technology Beijing	China	Foreign	Chemical Science	12	BL08W	Np
11	2021A1061	X-ray crystallographic analysis of functional supramolecular bearings composed of tubular aromatic hydrocarbon hosts and guest rotors	Taisuke Matsuno	The University of Tokyo	Japan	Educational Organization	Chemical Science	6	BL26B1	Np
12	2021A1062	Origin for huge electrochemical Seebeck coefficient	Yutaka Moritomo	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	3	BL01B1	Np
13	2021A1065	Elucidation of the correlation between the persistence length of main chain and self-assembled structures of amphiphilic graft copolymers.	Tomoki Nishimura	Shinshu University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
14	2021A1067	Microscopic Observation of of Woody Cells based on X-ray Micro-Computed Tomography: Visualization of Lignin Degradation in Cell Walls	Hikaru Takaya	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL47XU	Np
15	2021A1068	Development of pair distribution function measurement of glass under ultrahigh pressure conditions up to 50 GPa	Yoshio Kono	Ehime University	Japan	Educational Organization	Earth and Planetary Science	12	BL37XU	Np
16	2021A1069	Polymerization induced vitrification and phase separation	Yasuhito Suzuki	Osaka Prefecture University	Japan	Educational Organization	Chemical Science	3	BL40B2	Np
17	2021A1070	Structural Analysis of Transition Metal Complexes Exhibiting the Proton Transfer and Coordination Number Change	Osamu Sato	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B1	Np
18	2021A1072	Effect of premelting on seismic attenuation by short period cyclic loading	Takashi Yoshino	Okayama University	Japan	Educational Organization	Earth and Planetary Science	15	BL04B1	Np
19	2021A1074	Oxygen Deficiency Adjusted Orbital Ordering in layered Ca2RuO4 and Ca3Ru2O7 for Constructing Negative thermal Expansion	Lei Hu	Tokyo Institute of Technology	Japan	Educational Organization	Chemical Science	6	BL02B2	Np
20	2021A1075	Microcrystal X-ray Structural Analysis for Extremely Unstable and Reactive Organometallic Compounds	Hikaru Takaya	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL40XU	Np
21	2021A1076	Monitoring the structural phase transition of nanocrystal superstructure	Masaki Saruyama	Kyoto University	Japan	Educational Organization	Chemical Science	3	BL40B2	Np

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22	2021A1077	The dispersion and bioavailability of the critical metal tellurium in the environment: Nature as an analogue for anthropogenic contamination	Joel Brugger	Monash University	Australia	Foreign	Earth and Planetary Science	12	BL37XU	Np
23	2021A1079	Correlation between pressure-induced structural phase transition and elastic/magnetic properties of Ni-based Heusler alloys	Tetsujiro Eto	Kurume Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	5.25	BL10XU	Np
24	2021A1080	Porous crystalline materials based on tetraphenylethene derivatives: elucidation of structures and stimuli-responsive properties	Ichiro Hisaki	Osaka University	Japan	Educational Organization	Chemical Science	9	BL40XU	Np
25	2021A1081	Magma crystallization and fracturing revealed by time-resolved small angle X-ray scattering	Satoshi Okumura	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	12	BL47XU	Np
26	2021A1082	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
27	2021A1083	Development of X-ray elastographic tomography using propagating shear waves — feasibility study on application to biomedical imaging	Wataru Yashiro	Tohoku University	Japan	Educational Organization	Medical Applications	9	BL28B2	Np
28	2021A1084	Single-crystal structural analyses of host-guest complex of metallomacrocycle and pi-extended porphyrins	Shinichiro Kawano	Nagoya University	Japan	Educational Organization	Chemical Science	9	BL02B1	Np
29	2021A1085	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
30	2021A1086	Amorphization kinetics of bridgmanite at high pressure	Masayuki Nishi	Osaka University	Japan	Educational Organization	Earth and Planetary Science	6	BL02B2	Np
31	2021A1087	Pair distribution function measurements of Type 1 glassy carbon with anisotropic behavior of Poisson's ratio	Yoshio Kono	Ehime University	Japan	Educational Organization	Materials Science and Engineering	6	BL04B2	Np
32	2021A1089	In situ XAFS Observations of Formation Mechanism and Redox Property of MnOx-CeO2 Mixed Oxide Derived from Metal-organic-framework	Yasutaka Kuwahara	Osaka University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
33	2021A1091	Development of Highly Active Metal Phosphide Nanoalloys for the Promotion of Glucose Hydrogenation and Investigation of Their Structure-Activity Relationship	Takato Mitsudome	Osaka University	Japan	Educational Organization	Chemical Science	9	BL01B1	Np
34	2021A1092	Molecular conformation, phase separation, and complex formation with hydrophobic reagents of temperature-responsive highly branched polymers in aqueous media	Ken Terao	Osaka University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
35	2021A1093	Observation of crack growth phenomenon of rubber in stress relaxation process by fast four-dimensional X-Ray CT imaging.	Ryo Mashita	Sumitomo Rubber Industries, Ltd.	Japan	Industry	Industrial Applications	5.75	BL28B2	Np
36	2021A1094	Evolution of nematic fluctuations across a quantum critical point in isovalent-doped iron-based superconductors	Shan Wu	University of California, Berkeley	USA	Foreign	Materials Science and Engineering	12	BL43LXU	Np
37	2021A1095	Elucidation of formation mechanism of high entropy alloy nanoparticles using in-site XAFS/XRD analysis	Kohsuke Mori	Osaka University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
38	2021A1096	Pair distribution function measurement of Zr-doped silicate glasses: Investigation of crystallization mechanism of zircon	Nozomi Kondo	Ehime University	Japan	Educational Organization	Earth and Planetary Science	6	BL04B2	Np
39	2021A1098	Visualization of defect-induced electric dipoles with x-ray fluorescence holography toward development of new high-k dielectric materials	Hiroki Taniguchi	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	12	BL13XU	Np
40	2021A1099	The penetration mechanism of hydrophobic deep eutectic solvents through the stratum comeum depending on the water contents	Mina Sakuragi	Sojo University	Japan	Educational Organization	Chemical Science	9	BL40B2	Np
41	2021A1100	Composite crystal structure analysis of a single particle of ferroelectric barium titanate with a polyhedral shape and elucidation of phase transition mechanism	Yoshihiro Kuroiwa	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	6	BL40XU	Np
42	2021A1102	Elucidation of relationship of ligand desorption and catalytic activity of oxygen reduction reaction for atomically precise platinum nanocluster	Tokuhsa Kawawaki	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	9	BL01B1	Np
43	2021A1103	Creation of New Tiling Structures from Pentablock Quarterpolymers of the AB1CB2D type	Yushu Matsushita	Toyota Physical and Chemical Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL40XU	Np

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44	2021A1104	Structural determination of adsorption processes of flexible porous coordination polymers with multiple guest-free structures	Susumu Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL02B1	Np
45	2021A1105	structural analyses of small crystals of $\mu$ -nitrido-bridged iron porphyrinoid dimers that act as catalysts for converting hardly decomposable organic polymers into chemical resources	Yasuyuki Yamada	Nagoya University	Japan	Educational Organization	Chemical Science	6	BL02B1	Np
46	2021A1106	Real space mapping of microscope IR spectroscopy in molecular organic materials with strongly correlated pi-electrons	Takahiko Sasaki	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	12	BL43IR	Np
47	2021A1108	Technical development for the generation of P-T in the Kawai-type multianvil apparatus and electrical resistance of Fe <sub>2</sub> O <sub>3</sub>	Daisuke Yamazaki	Okayama University	Japan	Educational Organization	Earth and Planetary Science	15	BL04B1	Np
48	2021A1109	Elastic wave velocity measurement of lunar rocks at high pressure and temperature: Implications for the low velocity anomaly in the lunar mantle	Tatsuya Sakamaki	Tohoku University	Japan	Educational Organization	Earth and Planetary Science	9	BL04B1	Np
49	2021A1110	Local Structure of Alkali Ions in 18-Crown-6 Extraction System	Yongquan Zhou	Chinese Academy of Sciences	China	Foreign	Chemical Science	6	BL04B2	Np
50	2021A1111	Exploration of structural phase transition in LiVSe <sub>2</sub> with a two-dimensional triangular lattice	Naoyuki Katayama	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL10XU	Np
51	2021A1112	Local structural analysis on the systems with electron deficient orbital molecules	Naoyuki Katayama	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	9	BL04B2	Np
52	2021A1113	Local structural analysis of metal oxide mesocrystal photocatalysts	Takashi Tachikawa	Kobe University	Japan	Educational Organization	Materials Science and Engineering	3	BL01B1	Np
53	2021A1114	Structural analysis of metal oxide mesocrystal photocatalysts	Takashi Tachikawa	Kobe University	Japan	Educational Organization	Materials Science and Engineering	4	BL04B2	Np
54	2021A1116	Feasibility study of a D111-type guide-block for in situ deformation experiments at high-pressure and high-temperature	Yu Nishihara	Ehime University	Japan	Educational Organization	Earth and Planetary Science	18	BL04B1	Np
55	2021A1117	Exploration of new ordered/disordered phases obtained from electronic phase control of layered LiVS <sub>2</sub>	Naoyuki Katayama	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	9	BL44B2	Np
56	2021A1118	Micro-crystallographic study of aged structural concrete from a nuclear power plant	Guoqing Geng	National University of Singapore	Singapore	Foreign	Materials Science and Engineering	8.625	BL13XU	Np
57	2021A1119	Bcc-to-hcp transition of single-crystal iron under high-temperature conditions	Hiroshi Fukui	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	9	BL10XU	Np
58	2021A1121	Elucidation of effect of solidification mode on solidification cracking for high Mn steel using X-ray imaging and diffraction	Tomoya Nagira	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL20XU	Np
59	2021A1122	In situ soft X-ray absorption study of phase transitions in HxSrCoO <sub>2.5</sub> and HxBiFeO <sub>3</sub>	Haobo Li	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	18	BL25SU	Np
60	2021A1123	Wood identification of Wooden statues in East Asia using synchrotron X-ray micro tomography	Suyako Tazuru	Kyoto University	Japan	Educational Organization	Other	3	BL20XU	Np
61	2021A1124	Deformation of peridotite under the conditions of subducting slabs: in-situ high-speed stress/strain measurements and implications for the precursors of intermediate-depth earthquakes	Tomohiro Ohuchi	Ehime University	Japan	Educational Organization	Earth and Planetary Science	11.625	BL04B1	Np
62	2021A1127	Precise structural analysis and Host-Guest chemistry of porous coordination polymers prepared by functional organic ligands	Kosuke Katagiri	Konan University	Japan	Educational Organization	Chemical Science	9	BL26B1	Np
63	2021A1129	Local structure origin for zero expansion alloy with unusual chemical gradient	Kun Lin	University of Science and Technology Beijing	China	Foreign	Chemical Science	3	BL08W	Np
64	2021A1130	Time resolved measurement of a topochemical redox reaction by using synchrotron X-ray	Takafumi Yamamoto	Tokyo Institute of Technology	Japan	Educational Organization	Chemical Science	8.625	BL02B2	Np
65	2021A1131	Spectroscopic analysis of various polysaccharides oriented through meniscus splitting method	Kosuke Okeyoshi	Japan Advanced Institute of Science and Technology	Japan	Educational Organization	Chemical Science	3	BL43IR	Np

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66	2021A1132	Development of new methodology for study on the electronic states using non-electric dipole transitions by X-ray emission spectrometer equipped with multi-analyzer crystals	Naomi Kawamura	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL39XU	Np
67	2021A1133	The operando observation of RuIr-NCs sea water splitting OER catalyst II	Hiroshi Kitagawa	Kyoto University	Japan	Educational Organization	Chemical Science	9	BL01B1	Np
68	2021A1134	Elucidation of the origin of the reentrant phase transition in tungsten bronze ferroelectrics	Yasuhiro Yoneda	Japan Atomic Energy Agency	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL04B2	Np
69	2021A1135	Dinuclear iron complexes directed toward methane oxidation	Tomohiro Ozawa	Nagoya Institute of Technology	Japan	Educational Organization	Chemical Science	3	BL01B1	Np
70	2021A1136	Understanding of the interactions between stimuli-responseive emissive molecules and water molecules	Youhei Takeda	Osaka University	Japan	Educational Organization	Chemical Science	3	BL43IR	Np
71	2021A1139	Precious crystal structure analysis of subnano- and nano-sized metal cluster molecules constructed by the template synthesis	Yusuke Sunada	The University of Tokyo	Japan	Educational Organization	Chemical Science	6	BL02B1	Np
72	2021A1140	Crystal Structure Determination of Novel Sulfide MOFs Synthesized by Materials Informatics	Daisuke Tanaka	Kwansei Gakuin University	Japan	Educational Organization	Chemical Science	6	BL02B1	Np
73	2021A1141	Microstructural study of conduction system and atrioventricular valve apparatus in human functional single ventricle using phase-contrast X-ray CT	Yoshihiro Oshima	HYOGO PREFECTURAL KOBE CHILDREN'S HOSPITAL	Japan	National and Nonprofit Organization	Life Science	9	BL20B2	Np
74	2021A1142	Structural Investigation of He Atomic Layers on Graphene and Graphite in Ultra-Low Temperatures	Akira Yamaguchi	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	12	BL13XU	Np
75	2021A1143	Infrared microspectroscopy of biocompatible materials using high-intensity synchrotron radiation	Masae Takahashi	Tohoku University	Japan	Educational Organization	Chemical Science	6	BL43IR	Np
76	2021A1144	Local vibration analysis of silica glass using IR absorption spectroscopy	Hirokazu Masai	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL43IR	Np
77	2021A1145	Local structure analysis based on average structure in nonstoichiometric LiNbO3 with controllable nonlinear-optical property	Kun Lin	University of Science and Technology Beijing	China	Foreign	Chemical Science	6	BL44B2	Np
78	2021A1146	Precise structural analysis of A-site layer ordered double perovskite oxides related to their successive phase transitions	Masato Goto	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL02B2	Np
79	2021A1147	Interface band dispersion measurements of insulator/ferromagnet structures 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	9	BL25SU	Np
80	2021A1149	Structural determination of adsorption/desorption processes of flexible porous coordination polymers exhibiting multi-step phase changes	Susumu Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL02B2	Np
81	2021A1150	Structural analysis of polymer micelles consisting of hydrophobically modified water-soluble ring-polymers.	Isamu Akiba	The University of Kitakyushu	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
82	2021A1152	Time resolved analysis of zeolite formation mechanism on an atomic scale: Towards the rational design of zeolites	Toru Wakihara	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	18	BL04B2	Np
83	2021A1153	Designing zeolites by time resolved PDF analysis of non-crystalline ingredients and crystalline materials at an atomic scale	Toru Wakihara	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	18	BL08W	Np
84	2021A1156	Exploring New Lead-Free Piezoelectric Materials Based on tetragonal K1/2Bi1/2VO3	Zhao Pan	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
85	2021A1158	Development of a new method forming a smooth surface on CFRP mirror substrate II	Hisamitsu Awaki	Ehime University	Japan	Educational Organization	Elementary Particles, Nuclear Science	9	BL20B2	Np
86	2021A1159	Structural analyses of the antiferroelectric titanite oxide CaTiSi1-xGexO5(0 ≤ x ≤ 1) using synchrotron single crystal X-ray diffraction measurements.	Akitoshi Nakano	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	9	BL02B1	Np

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87	2021A1160	Crystal structure analysis of Wurtzite-type Sc:AlN ferroelectric ultrathin films	Takahisa Shiraishi	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL13XU	Np
88	2021A1161	Elucidation of bonding states caused by the interaction between inert molecules and Cu(I)-ion or Ag(I)-ion exchanged in MFI-type zeolite by making use of a Far-IR method	Yasushige Kuroda	Okayama University	Japan	Educational Organization	Chemical Science	2.875	BL43IR	Np
89	2021A1162	Development of Mesoporous Silica with Helical Structure using Stereoregular Organic-Inorganic Materials as Template	Tomoyasu Hirai	Osaka Institute of Technology	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
90	2021A1163	Structural analysis for supramolecular nanostructure of $\Pi$ -extended thiophene-based materials toward high-performance optoelectronic devices	Tatsuya Mori	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	3	BL40B2	Np
91	2021A1165	Structural Analyses on Reaction Intermediate Specifically Generated on Cu Ion-Exchanged Zeolites Capable of Selective Catalytic Reduction of NO at Low-Temperature	Akira Oda	Nagoya University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
92	2021A1166	Correlation between structure of SiO <sub>2</sub> glasses prepared by spark plasma sintering and the preparation conditions	Hirokazu Masai	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL04B2	Np
93	2021A1167	photo-induced valence change phenomenon of trivalent rare-earth elements in long persistent phosphorescence phosphor studied by high-energy resolution XAFS experiment	Mamoru Kitaura	Yamagata University	Japan	Educational Organization	Materials Science and Engineering	11.875	BL39XU	Np
94	2021A1168	Luminescence enhancement of perovskite mixed crystal scintillators revealed by X-ray fluorescence holography	Mamoru Kitaura	Yamagata University	Japan	Educational Organization	Materials Science and Engineering	9	BL13XU	Np
95	2021A1169	Bulk synthesis of oxide-based quasicrystals by a high-pressure method and search for the new materials	Kazunari Yamaura	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL02B2	Np
96	2021A1170	Inelastic x-ray scattering measurements of liquid ternary alloys GeCu <sub>2</sub> Te <sub>3</sub>	Masanori Inui	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	17.875	BL35XU	Np
97	2021A1171	Local structural study on a rhodium spinel under high pressure	Naoyuki Katayama	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL37XU	Np
98	2021A1172	The structure and related properties of new typed quantum functional materials tuned by high pressure and low temperature	Jinlong Zhu	Southern University of Science and Technology	China	Foreign	Materials Science and Engineering	9	BL10XU	Np
99	2021A1173	Analysis of Formation Mechanism of Ocean Microplastics by SR-IR	Atsushi Takahara	Kyushu University	Japan	Educational Organization	Environmental Science	3	BL43IR	Np
100	2021A1175	A study of intelligence based on three-dimensional analysis of human brain tissues	Ryuta Mizutani	Tokai University	Japan	Educational Organization	Life Science	21	BL37XU	Np
101	2021A1177	Three-dimensional local atomic configurations of FeSe alloy in the superconducting temperature range	Shinya Hosokawa	Kumamoto University	Japan	Educational Organization	Materials Science and Engineering	12	BL39XU	Np
102	2021A1178	Synthesis and Physical Properties of High-Temperature Superconducting Hydride Systems	Katsuya Shimizu	Osaka University	Japan	Educational Organization	Materials Science and Engineering	30	BL10XU	Np
103	2021A1180	Tracking in the internal structural changes of hemoglobin by using Lase-excited X-ray Single Molecule Observations	Yuji Sasaki	The University of Tokyo	Japan	Educational Organization	Life Science	17.625	BL40XU	Np
104	2021A1181	Hyper-ordered partial structures of Er-doped GaGeSe infrared optical fiber glasses	Shinya Hosokawa	Kumamoto University	Japan	Educational Organization	Materials Science and Engineering	15	BL13XU	Np
105	2021A1184	Identification of the occupation site of Eu <sup>2+</sup> ions in $\beta$ -SIALON for high power white LED phosphor by X-ray fluorescence holography	Mamoru Kitaura	Yamagata University	Japan	Educational Organization	Materials Science and Engineering	9	BL39XU	Np
106	2021A1185	In-situ tensile and fatigue testing for observation of interface debonding between carbon fibers and epoxy matrix of CFRP by multiscale synchrotron X-ray CT	Kosuke Takahashi	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	12	BL20XU	Np
107	2021A1186	Time-resolved crystal structure analysis of relaxor ferroelectrics under alternating electric field in high temperature phase	Shinobu Aoyagi	Nagoya City University	Japan	Educational Organization	Materials Science and Engineering	9	BL02B1	Np



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108	2021A1187	Development of high-performance polymer materials using movable cross-linking with X-ray scattering measurements	Go Matsuba	Yamagata University	Japan	Educational Organization	Chemical Science	3	BL40B2	Np
109	2021A1189	Investigation of structure of glasses and zeolites by using high-energy X-ray diffraction under high pressure	Madoka Ono	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	6	BL10XU	Np
110	2021A1190	Microrheological analyses for amorphous polymers by using diffracted X-ray tracking method	Isamu Akiba	The University of Kitakyushu	Japan	Educational Organization	Chemical Science	6	BL40XU	Np
111	2021A1192	Effect of exposure to high vacuum condition and gamma radiation on mechanical properties of wood and ultra-micro structure of wood cell-wall assuming a material of artificial satellite.	Koji Murata	Kyoto University	Japan	Educational Organization	Life Science	3	BL40B2	Np
112	2021A1194	Chemical state analysis of organic sulfur compounds by X-ray Raman scattering spectroscopy.	Fusae Kaneko	Sumitomo Rubber Industries, Ltd.	Japan	Industry	Industrial Applications	15	BL39XU	Np
113	2021A1195	Structure Analysis of Supramolecular Poly(lactic acid) Materials Using Microbeam FT-IR Measurements under Controlled Humidity	Go Matsuba	Yamagata University	Japan	Educational Organization	Chemical Science	3	BL43IR	Np
114	2021A1196	Analysis of supramolecular polylactic acid materials with mobile cross-linking	Go Matsuba	Yamagata University	Japan	Educational Organization	Chemical Science	3	BL40B2	Np
115	2021A1197	Measurements of conformational changes of proteins in a single molecule with white X-ray	Hirofumi Shimizu	University of Fukui	Japan	Educational Organization	Life Science	18	BL28B2	Np
116	2021A1198	Infrared spectroscopy study on electronic structures of spin-orbit coupled iridium oxide $\text{CaIr}_2\text{O}_{12}$	Kazuyuki Matsuhira	Kyushu Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL43IR	Np
117	2021A1200	In situ investigation of the transition of ligand removal from ligand-protected gold cluster catalyst loaded on the layered double hydroxide and characterization of its surface coordination environment	Shinya Masuda	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	6	BL01B1	Np
118	2021A1201	Investigation of the spin reorientation induced by a structural transition on mixed anion compounds	Kengo Oka	Kindai University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
119	2021A1202	Structural determination and investigation of the stability of novel Ru-based nitride NPs	Hiroshi Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
120	2021A1203	Precise structure analysis of unique 19-nuclear alkali metal ion hydrated cluster	Tatsuhiro Kojima	Osaka University	Japan	Educational Organization	Chemical Science	2.625	BL02B1	Np
121	2021A1204	Crystal-Structure Analysis on Phase-Controlled Solid-Solution Alloy NPs	Kohei Kusada	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL02B2	Np
122	2021A1205	Development of a novel evaluation methodology of skin irritation employing infrared spectroscopy	Yasuko Obata	Hoshi University	Japan	Educational Organization	Medical Applications	12	BL43IR	Np
123	2021A1206	The determination of valence states of iron in silicate melts quenched from high-pressure experiments by XAFS	Hideharu Kuwahara	Ehime University	Japan	Educational Organization	Earth and Planetary Science	6	BL27SU	Np
124	2021A1207	Operando analysis of inverse piezoelectric effect induced lattice deformation in nitride semiconductor HEMT devices by space- and time-resolved nanobeam X-ray diffraction	Akira Sakai	Osaka University	Japan	Educational Organization	Materials Science and Engineering	15	BL13XU	Np
125	2021A1209	Micron-sized single crystal X-ray structure analysis and investigation of charge density distributions of mixed-valence trinuclear ruthenium complexes	Masaaki Abe	University of Hyogo	Japan	Educational Organization	Chemical Science	6	BL02B1	Np
126	2021A1211	Study on charge density wave transition in spinel compound $\text{CuV}_2\text{S}_4$ by means of Cu K $\alpha$ X-ray emission spectroscopy	Hitoshi Sato	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	14.625	BL39XU	Np
127	2021A1212	Elucidating the effect of an abnormal charge screening behavior in ionic liquid solutions on the conformation change of polyelectrolytes	Atsushi Matsumoto	University of Fukui	Japan	Educational Organization	Chemical Science	3	BL40B2	Np
128	2021A1213	Investigation of molecular structure of novel platinum dimer complexes focusing on the dimensional extension of the conductive 1-D metal complex	Hiroshi Kitagawa	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B1	Np
129	2021A1214	Development of a Hard X-ray Telescope for a Balloon X-ray Polarimetry XL-Calibur IV	Yoshitomo Maeda	Japan Aerospace Exploration Agency	Japan	National and Nonprofit Organization	Elementary Particles, Nuclear Science	17.625	BL20B2	Np

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130	2021A1215	A Study of Dynamic Fermi Surfaces in High-Tc Cuprate Superconductors by High-resolution Compton Scattering	Yoshiharu Sakurai	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	21	BL08W	Np
131	2021A1219	Sulfur structure analysis in polymer material at S K-edge.	Fusae Kaneko	Sumitomo Rubber Industries, Ltd.	Japan	Industry	Industrial Applications	9	BL27SU	Np
132	2021A1221	XAFS measurement of binary phosphate glass possessing oriented phosphate chains	Hirokazu Masai	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	3	BL01B1	Np
133	2021A1222	4D in situ observation of chondrule formation process using active control of crystallization	Masayuki Uesugi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Earth and Planetary Science	15	BL20XU	Np
134	2021A1224	Local structure analysis of Mg4V5O12-based cathode materials for magnesium rechargeable batteries	Yasushi Idemoto	Tokyo University of Science	Japan	Educational Organization	Chemical Science	9	BL04B2	Np
135	2021A1226	In situ observation on high-pressure phase in Zirconium produced by High-Pressure Sliding	Takahiro Masuda	Yokohama National University	Japan	Educational Organization	Materials Science and Engineering	6	BL04B1	Np
136	2021A1227	High-pressure single-crystal X-ray structure analyses of dual-emissive photoluminescent platinum(II) dinuclear complexes	Yoshiki Ozawa	University of Hyogo	Japan	Educational Organization	Chemical Science	6	BL02B1	Np
137	2021A1228	Magnetoelectric effect driven ultrafast antiferromagnetic domain dynamics based on nano magnetic characterization using scanning XMCD spectromicroscopy	Yu Shiratsuchi	Osaka University	Japan	Educational Organization	Materials Science and Engineering	12	BL25SU	Np
138	2021A1229	Development of photoelectron holography measurement system and atomic arrangement of intercalant Alkali metals in MoS2 for device development	Tomohiro Matsushita	Nara Institute of Science and Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL25SU	Np
139	2021A1230	Analysis for chemical bonds in polycrystalline photovoltaic material (Ag,Cu)(In,Ga)S2	Kousuke Beppu	Ryukoku University	Japan	Educational Organization	Materials Science and Engineering	9	BL01B1	Np
140	2021A1231	Precise SAXS analysis of herical microphase-separated structures formed by ABAC tetrablock terpolymers.	Atsushi Takano	Nagoya University	Japan	Educational Organization	Chemical Science	6	BL40B2	Np
141	2021A1232	Structural analysis of columnar liquid-crystalline macrocycle using polarized infrared micro-spectrometry	Shinichiro Kawano	Nagoya University	Japan	Educational Organization	Chemical Science	6	BL43IR	Np
142	2021A1233	Local structural analysis of lanthanoid dopant in anatase-type titanium oxide single crystal thin film	Masaru Shimomura	Shizuoka University	Japan	Educational Organization	Materials Science and Engineering	9	BL13XU	Np
143	2021A1234	Local structure of a semi insulating p type dopant, Fe in $\beta$ Ga2O3: Direct observation with X-ray fluorescence holography	Kazushi Miki	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	12	BL39XU	Np
144	2021A1235	XAFS Studies on Active Sites and Catalysis of ReOx-Ag/CeO2 Catalysts for Deoxydehydration of Erythritol	Keiichi Tomishige	Tohoku University	Japan	Educational Organization	Chemical Science	9	BL01B1	Np
145	2021A1237	Tuning Local Structure of Polymer Electrolytes for High-Performance All-Solid Lithium-ion Batteries	Yu Katayama	Yamaguchi University	Japan	Educational Organization	Chemical Science	9	BL04B2	Np
146	2021A1238	Understanding the entropic interaction in DNA-functionalized nanoparticles and its application in biosensing	Masahiro Fujita	RIKEN	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL40B2	Np
147	2021A1239	Analyzing liquid state structure of coordination polymers which exhibit reversible phase transition	Satoshi Horike	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL04B2	Np
148	2021A1240	Determination of structure-property relationships of gum arabic using glycoside hydrolases	Noriyuki Isobe	Japan Agency for Marine-Earth Science and Technology	Japan	National and Nonprofit Organization	Life Science	6	BL40B2	Np
149	2021A1241	Evolution of clusters and its effect on kink deformability in the early stage of LPSO structures formation by in-situ oscillation SWAXS measurements	Hiroshi Okuda	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL40B2	Np
150	2021A1242	Precise determination of dynamic chiral library of chiral Au-M heterobimetallic complexes with single-crystal X-ray analysis	Nobuto Yoshinari	Osaka University	Japan	Educational Organization	Chemical Science	2.75	BL02B1	Np
151	2021A1245	Quantitative evaluation of safety by different degradation modes using visualization of dynamic structure inside battery	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	9	BL28B2	Np

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152	2021A1247	Development of analytical method for elucidating distribution of drugs in mixed power and hair	Yasuo Seto	RIKEN	Japan	National and Nonprofit Organization	Other	18	BL43IR	Np
153	2021A1250	Phase transition and structural change of ionic liquid crystals in confinement	Koji Fukao	Ritsumeikan University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
154	2021A1252	Development of DAC operating with ultra-fine actuator for improvement of pressure-generation efficiency.	Hitoshi Yusa	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL10XU	Np
155	2021A1253	Electronic structure in heavy fermion compound CeCoIn5 studied by Compton scattering experiment	Akihisa Koizumi	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	30	BL08W	Np
156	2021A1257	Structural analysis of surface alloy layer activating for hydrogen evolution reaction	Masashi Nakamura	Chiba University	Japan	Educational Organization	Chemical Science	11.875	BL13XU	Np
157	2021A1259	Exploring magnetic topological phases in non-cleavable materials investigated by SX-ARPES	Kenta Kuroda	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	18	BL25SU	Np
158	2021A1261	Visualization of dynamical damage propagation induced by laser processing by pink-beam 4D phase tomography	Atsushi Momose	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	8.625	BL28B2	Np
159	2021A1262	Development of high-energy X-ray microlaminography	Masato Hoshino	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	9	BL20B2	Np
160	2021A1263	Direct observation of electric double layer electret by means of operando X-ray nanospectroscopy	Shimpei Ono	Central Research Institute of Electric Power Industry	Japan	National and Nonprofit Organization	Chemical Science	9	BL17SU	Np
161	2021A1265	Optimization of X-ray imaging detector in high-resolution imaging using 200keV X-ray microtomography, especially in relation between scintillator thickness and spatial resolution	Masato Hoshino	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Beamline Engineering	12	BL28B2	Np
162	2021A1266	Elucidation of the relationship between the oxygen desorption/absorption property and crystal host structure for oxygen storage material, AFe1-xInxO3-δ (A=Ba, Sr), using in situ XAFS.	Masatsugu Oishi	Tokushima University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
163	2021A1267	Evaluation of Atmospheric Stability of Sulfide Solid Electrolytes by Time-Resolved PDF Analysis	Koji Ohara	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL08W	Np
164	2021A1269	Study on strain-induced crystallization of cross-linked rubbers having controlled molecular weights and their distributions between cross-linked points	Yuko Ikeda	Kyoto Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	3	BL40XU	Np
165	2021A1270	Ring-Like Self-Assembly of Silica Nanoparticles in the Presence of Amphiphilic Polymers: Elucidating the mechanism using time-resolved SAXS	Rintaro Takahashi	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
166	2021A1271*	Coordination environment of alkali cations responsible for the mixed alkali effect in silicate glass	Yohei Onodera	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL04B2	Np
167	2021A1272	Elucidation of effect of local structural distortion and flexibility on base catalysis	Seiji Yamazoe	Tokyo Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	8.625	BL01B1	Np
168	2021A1273	Demonstration of magnetic imagin with magnetic Compton scattering imaging	Naruki Tsuji	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL08W	Np
169	2021A1275	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	6	BL02B1	Np
170	2021A1276	X-ray imaging of molten marks using SR X-ray CT	Naoki Miyamoto	HYOGO Prefectural Police	Japan	National and Nonprofit Organization	Other	6	BL28B2	Np
171	2021A1278	Observation of solid solution phase in amorphous-mixed high capacity positive electrode materials of next-generation lithium-ion secondary batteries by pair distribution function analysis.	Masatsugu Oishi	Tokushima University	Japan	Educational Organization	Chemical Science	6	BL04B2	Np
172	2021A1279*	Direct observation of rubidium coordination environment in mixed alkali silicate glass by anomalous X-ray scattering	Yohei Onodera	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL13XU	Np
173	2021A1280	Probing the nature of the pressure-induced phase transformations in Mg2Si by ultrasonic and synchrotron X-ray techniques	Nico Gaida	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	9	BL04B1	Np



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174	2021A1281	Determination of the life-related chemical compound delivered by shock process	Ryosuke Sinmyo	Meiji University	Japan	Educational Organization	Earth and Planetary Science	3	BL10XU	Np
175	2021A1282	Clarification of temperature induced charge distribution change in Bi0.5Pb0.5MO3	Masaki Azuma	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
176	2021A1283	Local structural analysis of highly-durable Rh automotive catalysts prepared through hybrid clustering	Shun Hayashi	National Museum of Nature and Science	Japan	National and Nonprofit Organization	Chemical Science	6	BL01B1	Np
177	2021A1284	X-ray diffraction studies on the essential role of myosin head leverarm domain in muscle contraction	Haruo Sugi	Teikyo University	Japan	Educational Organization	Life Science	6	BL40XU	Np
178	2021A1285	Elucidation of a mechanism of characteristic fluorescence of radioactive Cs-bearing microparticles emitted from Fukushima Nuclear Accident by means of microbeam X-ray multiple analyses	Yoshinari Abe	Tokyo Denki University	Japan	Educational Organization	Environmental Science	6	BL37XU	Np
179	2021A1286	Structural investigation of Ruddlesden–Popper compounds Sr3(1–x)Ca3xFe2O5Fx	Toshiyuki Matsunaga	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
180	2021A1287	Photo-activated structure of bistable rhodopsin	Yasushi Imamoto	Kyoto University	Japan	Educational Organization	Life Science	6	BL40B2	Np
181	2021A1288	Understanding the musculoskeletal mechanism underlying ultra-fast jump in the trap jaw ant	Hitoshi Aonuma	Hokkaido University	Japan	Educational Organization	Life Science	12	BL40XU	Np
182	2021A1289	Optimization study of non-polar wurtzite AlN-base film deposition for a seed layer of Deep UV LEDs	Saki Imada	Kyoto Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	14.75	BL27SU	Np
183	2021A1291	Effect of Chain Flexibility on Polymer Micelles Consisting of Amphiphilic Triblock Copolymers	Isamu Akiba	The University of Kitakyushu	Japan	Educational Organization	Chemical Science	5.625	BL40B2	Np
184	2021A1292	Quantitative evaluation of glass structure by inelastic X-ray scattering to track the evolution of structural inhomogeneity in cooling process of metallic glasses	Tetsu Ichitsubo	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	17.625	BL35XU	Np
185	2021A1293	Mechanistic Insight into Mechanically Flexible Single-Crystal Coordination Polymers	Biswajit Bhattacharya	BAM Federal Institute for Materials Research and Testing	Germany	Foreign	Materials Science and Engineering	3	BL40XU	Np
186	2021A1294	in situ analyses of high-rate CO2 reduction reactions on gas diffusion electrodes	Kazuhide Kamiya	Osaka University	Japan	Educational Organization	Chemical Science	6	BL01B1	Np
187	2021A1295	Investigation of phase purity for a dynamic chiral library of chiral Au-M heterobimetallic complexes with powder X-ray analysis	Nobuto Yoshinari	Osaka University	Japan	Educational Organization	Chemical Science	3	BL02B2	Np
188	2021A1296	Investigation of crystal structures of platinum-dimer based metal–organic frameworks having a pre-installed cationic guest	Kazuya Otsubo	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
189	2021A1297	Structural origin of glass formation revealed by structural analyses of levitated oxide melts	Atsunobu Masuno	Hirosaki University	Japan	Educational Organization	Materials Science and Engineering	9	BL04B2	Np
190	2021A1299	High pressure far-infrared study of excitonic insulator related compounds Ta2Ni(Se,S)5	Hidekazu Okamura	Tokushima University	Japan	Educational Organization	Materials Science and Engineering	9.125	BL43IR	Np
191	2021A1300	Quantitative evaluation of disordered level in functional Heusler ultra thin film using anomalous XRD	Yuya Sakuraba	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL13XU	Np
192	2021A1301	Study on the band structure anisotropy of 3d-transition metal-doped AlN films for photoelectrode design	Saki Imada	Kyoto Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	18	BL27SU	Np
193	2021A1302	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	9	BL26B1	Np
194	2021A1303	Optical variations of the lens with species, disease and culture conditions	Barbara Pierscionek	Staffordshire University	UK	Foreign	Life Science	9	BL20B2	Np
195	2021A1305	Rheology of the Earth’s inner core revealed by ultra-high pressure deformation experiments combined with synchrotron X-ray laminography and X-ray diffraction measurements	Ryuichi Nomura	Kyoto University	Japan	Educational Organization	Earth and Planetary Science	9	BL47XU	Np

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196	2021A1306	Characterisation of Novel Pb containing mixed ruthenium perovskites	Sean Injac	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL01B1	Np
197	2021A1307	Shear instability induced by pyroxene-gamet transformation at high pressures	Yuki Mori	Kyushu University	Japan	Educational Organization	Earth and Planetary Science	12	BL04B1	Np
198	2021A1308	Influence of stress on (dis)charge reaction of two-phase electrode materials for solid state batteries revealed by Operando synchrotron X-ray diffraction	Yuta Kimura	Tohoku University	Japan	Educational Organization	Chemical Science	6	BL02B2	Np
199	2021A1311	X-ray fluorescence holography study of the local structures in the multiferroic barium hexaferrite BaFe <sub>12</sub> 12O <sub>19</sub> .	Artoni Ang	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL13XU	Np
200	2021A1312	Establishing atomic-resolution holography for hypermaterials	Jens Stellohorn	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	9	BL39XU	Np
201	2021A1313	The effect of a crystal size and an orientation of Ni on an alloying process of Ni-RE system in high temperature molten salt by in-situ measurement	Yumi Katasho	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Chemical Science	9	BL28B2	Np
202	2021A1314	Structural analysis of a colloidal particle in Bokuju using small angle X-ray scattering	Hideaki Takagi	High Energy Accelerator Research Organization	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL40B2	Np
203	2021A1315	Study on advanced crystalline sponge method by serial crystallography using high-flux synchrotron X-rays	Sota Sato	The University of Tokyo	Japan	Educational Organization	Chemical Science	6	BL45XU	Np
204	2021A1316	Structural investigation of high-performance Li-rich layered materials Li <sub>2</sub> (Ni-Co-Mn)O <sub>3</sub> -xFx	Toshiyuki Matsunaga	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
205	2021A1317	Investigation of electronic and local-site structures of magnetic Eu-intercalated black phosphor	Kenta Kuroda	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	17.625	BL25SU	Np
206	2021A1318	Dynamics of high-speed fuel jet impingement upon a wall: time-resolved visualization and characteristic measurement	Weidi Huang	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Industrial Applications	9	BL40XU	Np
207	2021A1319	Diffusion process for forming Z <sub>3</sub> -Fe(Pd,In) <sub>3</sub> layered structure from A1-PdInx@FeOy core@shell nanoparticles	Kenshi Matsumoto	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL01B1	Np
208	2021A1322	Low-lying Atomic Dynamics of Actinide Ions in ThBe <sub>13</sub>	Satoshi Tsutsui	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL43LXU	Np
209	2021A1323	Improvement of the utility of x-ray nano-CT in the higher energy region than 30 keV by optimization of optical devices.	Akihisa Takeuchi	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	15	BL20XU	Np
210	2021A1326	The effect of strain generated by a rotating-type DAC on the phase transition pressure	Hitoshi Yusa	National Institute for Materials Science	Japan	National and Nonprofit Organization	Earth and Planetary Science	12	BL04B2	Np
211	2021A1327	Studies of Salt Concentration Dependence of the Dimension and the Particle Scattering Function of Star-Like Polyelectrolytes	Yo Nakamura	Kyoto University	Japan	Educational Organization	Chemical Science	3	BL40B2	Np
212	2021A1328	Analysis of Solute Atom Clusters formed in a Dilute Mg-Zn-Y Alloy using X-ray Fluorescence Holography	Koji Kimura	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL13XU	Np
213	2021A1329	Exploration of topological nodal lines in Fe based ferromagnetic alloys	Akio Kimura	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	17.875	BL25SU	Np
214	2021A1330	Observation of Formation Processes of Dopant Clusters in Mg <sub>97</sub> Zn <sub>1</sub> Gd <sub>2</sub> Alloy using Photoelectron Holography	Koji Kimura	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL25SU	Np
215	2021A1331	Formation Processes of Dopant Clusters in Mg <sub>97</sub> Zn <sub>1</sub> Gd <sub>2</sub> Light Weight Structural Material Studied by X-ray Fluorescence Holography	Koji Kimura	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	12	BL39XU	Np
216	2021A1332	Study on the electronic states of lattice oxygen of superbase metal oxide clusters	Soichi Kikkawa	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	6	BL27SU	Np
217	2021A1333	Crystal Structure Analysis of Nano-sized Crystals in Amorphous Bismuth Ferrite Ceramics with Enhanced Dielectric Properties	Shintaro Ueno	University of Yamanashi	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np

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218	2021A1334	Construction of the composition-temperature phase diagram of Cu-doped BiMn7O12	Alexei Belik	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL02B2	Np
219	2021A1337	Sound velocity measurements on basalt-pyrolite materials at the pressure and temperature conditions of the Earth's lower mantle	Steeve Greaux	Ehime University	Japan	Educational Organization	Earth and Planetary Science	9	BL04B1	Np
220	2021A1339	Ordered Arrangement of $\pi$ -Electronic Ion Pairs Exhibiting Polarized Structures	Hiromitsu Maeda	Ritsumeikan University	Japan	Educational Organization	Materials Science and Engineering	6	BL40XU	Np
221	2021A1341	Structural studies of Pt-Ir/ $\alpha$ -MoC for hydrogen production through ethanol reforming by high energy X-ray XAS	Hiroyuki Asakura	Kyoto University	Japan	Educational Organization	Chemical Science	3	BL01B1	Np
222	2021A1342	Colossal negative thermal expansion induced by a triple effect in (1-x)(Pb,Sr)VO3-xBiCoO3	Hajime Yamamoto	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
223	2021A1343	Investigation of interfacial electrochemical reactions at the interface of all-solid-state Li batteries by operando depth resolved soft X-ray absorption spectroscopy	Takashi Nakamura	Tohoku University	Japan	Educational Organization	Chemical Science	18	BL27SU	Np
224	2021A1344	Local structure analysis of Lanthanoid elements in their complex oxides using Resonant Inelastic X-ray Scattering(2)	Hiroyuki Asakura	Kyoto University	Japan	Educational Organization	Chemical Science	9	BL39XU	Np
225	2021A1345	Preparation of organic-inorganic hybrid materials using frustrated Lewis pairs	Ryohei Yamakado	Yamagata University	Japan	Educational Organization	Materials Science and Engineering	6	BL40XU	Np
226	2021A1346	Measurement of electronic states for Fe/Co multilayer films with large magnetostriction effects	Hiroshi Sakurai	Gunma University	Japan	Educational Organization	Materials Science and Engineering	14.625	BL08W	Np
227	2021A1347	Search for metallization and superconductivity of hydrogen under ultra-high pressure using a toroidal diamond anvil cell II	Yuki Nakamoto	Osaka University	Japan	Educational Organization	Materials Science and Engineering	12	BL10XU	Np
228	2021A1348	Crystal structure and superconductivity of alkaline earth metals strontium and calcium under low temperature and high pressure II	Yuki Nakamoto	Osaka University	Japan	Educational Organization	Materials Science and Engineering	18	BL10XU	Np
229	2021A1349*	Development of direct bandgap type Si solar cell: Determination of concentration of Active Sn in 0.1% Sn doped Ge thin film	Kenji Ohoyama	Ibaraki University	Japan	Educational Organization	Materials Science and Engineering	9	BL13XU	Np
230	2021A1350	Development of imaging method for soft x-ray MCD microscope to enable 3D observation using a four-quadrant detector	Yoshinori Kotani	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL25SU	Np
231	2021A1351	J multiplet ground state in EuBe13 investigated by linear dichroism of resonant x-ray emission spectroscopy	Kojiro Mimura	Osaka Prefecture University	Japan	Educational Organization	Materials Science and Engineering	12	BL39XU	Np
232	2021A1354	Resistive switching mechanism of resistive RAM: variation of the interface valence probed by HERFD-XAFS method	Nobuo Nakajima	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	12	BL39XU	Np
233	2021A1356	In-situ XAFS study on the mechanism of charge discharge for lithium vanadium phosphate cathode materials for multivalent ion batteries	Katsuhiko Naoi	Tokyo University of Agriculture and Technology	Japan	Educational Organization	Chemical Science	11	BL01B1	Np
234	2021A1357	In-operando measurement of lithium ion distribution with charge-discharge speed on all solid batteries	Kosuke Suzuki	Gunma University	Japan	Educational Organization	Chemical Science	12	BL08W	Np
235	2021A1358	Electrical activation of As clusters by co-implantation of As and B in Si: Analyses from the viewpoint of atomic arrangements	Kazuo Tsutsui	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	12	BL25SU	Np
236	2021A1361	X-Ray Structural Analysis for Microcrystals of Novel Unsaturated Spices Containing Main Group Elements	Mariko Yukimoto	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL40XU	Np
237	2021A1362	in situ X-ray scattering of the cloud formation and aging process of an aerosol single droplet ultrasonically levitated	Toshio Yamaguchi	Fukuoka University	Japan	Educational Organization	Chemical Science	9	BL08W	Np
238	2021A1363	Investigation of phonon lifetime at low energy side and optical modes for single-crystalline bulk SiGe by inelastic x-ray scattering	Ryo Yokogawa	Meiji University	Japan	Educational Organization	Materials Science and Engineering	9	BL43LXU	Np
239	2021A1365	Elucidation of the nitrogen-cycle and evolution on Martian surface environment	Mizuho Koike	Hiroshima University	Japan	Educational Organization	Earth and Planetary Science	11.875	BL27SU	Np

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240	2021A1368	Elucidation of the mechanism of undoped superconductivity in T*-type copper oxide	Masaki Fujita	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	6	BL47XU	Np
241	2021A1369	Non-destructive analysis of deterioration mechanism on a large-size high-power layered capacitor	Kosuke Suzuki	Gunma University	Japan	Educational Organization	Chemical Science	12	BL08W	Np
242	2021A1374	Pressure dependence on local structures of glass-forming molecular liquids	Osamu Yamamuro	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	9	BL37XU	Np
243	2021A1375	Operando observation of the oxygen chemical potential distribution in the electrolyte of solid oxide fuel cell under operation by using high temperature electrochemical nano XAFS	Koji Amezawa	Tohoku University	Japan	Educational Organization	Chemical Science	24	BL37XU	Np
244	2021A1376	3D local structure analysis of lead-free ferroelectric BCZT using X-ray fluorescence holography	Kouichi Hayashi	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	12	BL37XU	Np
245	2021A1377	X-ray Diffraction Study of Nano-Confined Liquids Under Shear	Kazue Kurihara	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	12	BL40B2	Np
246	2021A1378	In-situ observation of atomic structure in BiFeO <sub>3</sub> single crystalline thin film under an electric field	Seiji Nakashima	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	12	BL39XU	Np
247	2021A1380	Distinguished Temperature Dependent Properties of Au Clusters	Ryo Takahata	Kyoto University	Japan	Educational Organization	Chemical Science	5.875	BL01B1	Np
248	2021A1381	N-XANES analysis of various nitrogen-bearing organic molecules aiming for the biosignature detection in Martian carbonates grains	Haruna Sugahara	Japan Aerospace Exploration Agency	Japan	National and Nonprofit Organization	Earth and Planetary Science	14.75	BL27SU	Np
249	2021A1382	Local coordination structure of Ba and Sr adsorbed on biogenic Mn oxide	Kazuya Tanaka	Japan Atomic Energy Agency	Japan	National and Nonprofit Organization	Chemical Science	6	BL01B1	Np
250	2021A1383	Elucidation of charge transfer properties of a novel europium oxyhydride by XAFS measurements under high pressure	Hiroshi Takatsu	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	15	BL39XU	Np
251	2021A1384	Analysis of lignin structure in plant cell walls and its link to physical property	Tomoya Imai	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
252	2021A1385	Local structure analysis of iron chalcogenides incorporating metal-based hyper-ordered structure by fluorescence X-ray holography	Ritsuko Eguchi	Okayama University	Japan	Educational Organization	Materials Science and Engineering	9	BL13XU	Np
253	2021A1386	Unveiling phases for ultra-fine semiconductor nanoparticles within mesopores of MOFs	Hexiang Deng	Wuhan University	China	Foreign	Materials Science and Engineering	9	BL04B2	Np
254	2021A1387	QEXAFS Study of Structure-Reactivity Relationship in Cu-CHA Catalyst for Selective Catalytic Reduction (SCR) Reaction	Feng Ryan Wang	University College London	UK	Foreign	Chemical Science	12	BL01B1	Np
255	2021A1388	Optical study of electronic structure in FeS at high pressure	Naoki Noguchi	Tokushima University	Japan	Educational Organization	Earth and Planetary Science	9	BL43IR	Np
256	2021A1389	Measurement of ultra-low energy level of Thorium-229 Isomer with highbrightness X-ray light source	Koji Yoshimura	Okayama University	Japan	Educational Organization	Elementary Particles, Nuclear Science	17.875	BL19LXU	Np
257	2021A1390	In situ analysis of phase transformation of TiO <sub>2</sub> +ZnO by high-pressure sliding process	Zenji Horita	Saga University	Japan	Educational Organization	Materials Science and Engineering	5.875	BL04B1	Np
258	2021A1391	Deformation experiments of lowemost mantle materials under ultra-high pressure conditions using rotational diamond anvil cell and its rheological properties	Shintaro Azuma	Tokyo Institute of Technology	Japan	Educational Organization	Earth and Planetary Science	17.625	BL47XU	Np
259	2021A1392	Effect of local structural evolution by room temperature aging on hardness of a high entropy alloy Al <sub>0.3</sub> CrFeCoNi	Tokujiro Yamamoto	Utsunomiya University	Japan	Educational Organization	Industrial Applications	9	BL13XU	Np
260	2021A1394	Selectively identifying Fe-CO vibrations in Nitrogenases	Atanu Rana	Max Planck Institute	Germany	Foreign	Chemical Science	18	BL19LXU	Np
261	2021A1396	Synchrotron X-ray micro-CT imaging of the Ediacaran and early Cambrian spheroidal microfossils: Reconfirmation of Metazoan embryo fossils and fossil metallome analysis	Tsuyoshi Komiya	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	6	BL47XU	Np

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262	2021A1397	Phase relation and elastic property of (Fe,Ni)2X phases under high pressure	Yoichi Nakajima	Kumamoto University	Japan	Educational Organization	Earth and Planetary Science	6	BL10XU	Np
263	2021A1398	The promotion effect of the hydration and electric filed for the skin permeation.	Hiromitsu Nakazawa	Kwansei Gakuin University	Japan	Educational Organization	Medical Applications	3	BL40B2	Np
264	2021A1400	Observation of dendrite fragmentation in metallic alloys induced by the plastic deformation via simultaneous measurement of compression tests and 4D-CT	Taka Narumi	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL20XU	Np
265	2021A1401	Investigation of gas-sorption and separation mechanism of metal-organic frameworks by X-ray diffraction and solid-state NMR	Takuya Kurihara	Kanazawa University	Japan	Educational Organization	Chemical Science	6	BL02B2	Np
266	2021A1403	Time-resolved in-situ observation of rapid melting and rapid solidification processes of Al-Cu alloy by using high speed selective laser irradiation	Kohei Morishita	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	9	BL47XU	Np
267	2021A1406	Study on the formation mechanism of metal nanoparticle-polyoxometalate composites by operando UV-XAS observation	Soichi Kikkawa	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	9	BL01B1	Np
268	2021A1407	Infrared Microspectroscopy analysis of the permeation behavior of nanoscale water clusters into human hair .	Hiromitsu Nakazawa	Kwansei Gakuin University	Japan	Educational Organization	Life Science	6	BL43IR	Np
269	2021A1412	Probing the possibility of the magnetism in the Pt sites in strongly correlated SmPt2Si2 with locally broken space-inversion symmetry	Akira Sekiyama	Osaka University	Japan	Educational Organization	Materials Science and Engineering	9	BL39XU	Np
270	2021A1413	Elucidation of crystallization process from mesophase for polypropylene	Takashi Konishi	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
271	2021A1414	Study on real-space imaging of domain structure modulation in antiferromagnetic materials	Akinobu Yamaguchi	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	9	BL17SU	Np
272	2021A1415	Seeking the origin of the subgap states in In-Ga-Zn-O by using hard x-ray photoemission spectroscopy	Tomohiko Saitoh	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	3	BL47XU	Np
273	2021A1416	Electronic structure study of LaCoO3 with soft x-ray angle-resolved photoemission spectroscopy (2)	Tomohiko Saitoh	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	6	BL25SU	Np
274	2021A1417	Time-resolved in-situ observation of formation process of lack of fusion during melting and solidification process of Mg alloy by selective laser irradiation	Kohei Morishita	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	6	BL47XU	Np
275	2021A1418	Structural mechanical correlations of flexible ferroelectric molecular crystals as function of strain upon bending	Somnath Dey	RWTH Aachen University	Germany	Foreign	Materials Science and Engineering	6	BL40XU	Np
276	2021A1419	Structural Analysis of the Various Particle Shapes of Alternative Multi-Block Copolymers	Yusuke Sanada	Fukuoka University	Japan	Educational Organization	Chemical Science	3	BL40B2	Np
277	2021A1420	Entire circumferential analysis of vascular wall deformation under pulsatile pressure condition by dynamical phase-contrast X-ray CT combined with digital volume correlation	Takeshi Matsumoto	Tokushima University	Japan	Educational Organization	Medical Applications	3	BL20B2	Np
278	2021A1421	Structural study of Covalent Organic Frameworks by means of High-Energy X-Ray Diffraction and Pair Distribution Function analysis	Saeed Kamali-Moghaddam	University of Tennessee Space Institute	USA	Foreign	Materials Science and Engineering	12	BL04B2	Np
279	2021A1425	The role of anionic and cationic redox in novel P3-Na2/3Mn1-y[Zn,Cu]yO2 studied by RIXS	Laurent Duda	Uppsala University	Sweden	Foreign	Materials Science and Engineering	15	BL27SU	Np
280	2021A1426	Structural study of magnetic nano-rods by means of High-Energy X-Ray Diffraction and Pair Distribution Function analysis	Saeed Kamali-Moghaddam	University of Tennessee Space Institute	USA	Foreign	Materials Science and Engineering	10	BL04B2	Np
281	2021A1429	Structural analysis of zeolite-supported Pd nanoparticle catalyst with high activity in carbon-carbon bond formation by XAFS	Kazu Okumura	Kogakuin University	Japan	Educational Organization	Chemical Science	3	BL01B1	Np
282	2021A1430	X-ray fiber diffraction of microtubules: Temperature dependency of GTP-tubulin microtubules.	Shinji Kamimura	Chuo University	Japan	Educational Organization	Life Science	9	BL40XU	Np
283	2021A1432	Unraveling Dense Metallic Telluride Liquids for the Next Generation of Phase Change Materials	Evgeny Bychkov	University of the Littoral Opal Coast	France	Foreign	Materials Science and Engineering	12	BL04B2	Np



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284	2021A1433	Study on Invar effect of Fe-Ni alloys by structural analysis of mesoscopic alloy structure determined by RMC method with EXAFS and XRD data	Naoki Ishimatsu	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	6	BL10XU	Np
285	2021A1434	Study on Invar effect of Fe-Ni alloys by structural analysis of mesoscopic alloy structure determined by RMC method with EXAFS and XRD data	Naoki Ishimatsu	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	8.5	BL39XU	Np
286	2021A1435	Structural analysis of catalytically active species for efficient carbon-carbon bond formations by titanium catalysts by solution XAFS analysis	Kotohiro Nomura	Tokyo Metropolitan University	Japan	Educational Organization	Chemical Science	3	BL01B1	Np
287	2021A1436	Structural Characterization of the [4Fe4S] Center in Human DNA Primase Using Nuclear Resonant Vibrational Spectroscopy	Matthew Thompson	The University of Alabama	USA	Foreign	Life Science	14.625	BL19LXU	Np
288	2021A1438	Imaging Nano-meter Scale Structures of Bismuth Ultra-thin Films using Coherent X-ray Scattering	Hiroo Tajiri	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL13XU	Np
289	2021A1439	In situ observation of strain and crystal structure evolution under nanoindentation compression test by high-intensity X-ray irradiation towards the elucidation of room-temperature deformation mechanism of brittle materials	Kentaro Shinoda	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL40XU	Np
290	2021A1442	X-ray Energy Response of Multi Image X-ray Interferometer Modules with 2D Coded Mask	Kiyoshi Hayashida	Osaka University	Japan	Educational Organization	Earth and Planetary Science	9	BL20B2	Np
291	2021A1443	Exploration of local cationic distortions in Lithium rich disordered rocksalt materials using EXAFS.	Rohit Satish	Lawrence Berkeley National Laboratory	USA	Foreign	Materials Science and Engineering	6	BL01B1	Np
292	2021A1444	Development of catalyst coating resin for PEFC by structural analysis with X-ray scattering	Go Matsuba	Yamagata University	Japan	Educational Organization	Chemical Science	3	BL40B2	Np
293	2021A1445	Accurate local structure analysis of high-temperature elemental liquids focusing on constituents of metallic glasses	Akitoshi Mizuno	National Institute of Technology, Hakodate College	Japan	Educational Organization	Materials Science and Engineering	9	BL08W	Np
294	2021A1447	Development of visualization methodology of pinning magnetic domain by Persistent Homology	Masato Kotsugi	Tokyo University of Science	Japan	Educational Organization	Materials Science and Engineering	8.625	BL17SU	Np
295	2021A1448	High-resolution analysis of ciliary axonemes by X-ray fiber diffraction of ctenophore comb plate	Kazuo Inaba	University of Tsukuba	Japan	Educational Organization	Life Science	17.875	BL40XU	Np
296	2021A1449	Non-destructive identification of CAI in small particles of chondrite meteorites by micro-XRF-XAFS analysis at high energy region for application to Hayabusa2 returned samples	Yoshio Takahashi	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	6	BL37XU	Np
297	2021A1450	Observation of ferroelectric skewed band structure in multiferroic BiFeO <sub>3</sub>	Jun Kano	Okayama University	Japan	Educational Organization	Materials Science and Engineering	9	BL47XU	Np
298	2021A1451	Study of the spin-crossover accompanied by the insulator-to-metal transition in PrCoO <sub>3</sub> by using the x-ray Compton scattering	Yoshihiko Kobayashi	Tokyo Medical University	Japan	Educational Organization	Materials Science and Engineering	12	BL08W	Np
299	2021A1452	In situ Microdomain Structure Analysis under Various Mechanical Deformation Modes for Preparation of Toughened Thermoplastic Elastomers	Ken Kojio	Kyushu University	Japan	Educational Organization	Chemical Science	3	BL20XU	Np
300	2021A1453	Analysis of process-induced local strain in 4H-SiC trench-MOSFET using microdiffraction	Wakana Takeuchi	Aichi Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	12	BL13XU	Np
301	2021A1455	Elucidation of the Adsorption Behavior of Organic Vapor on the Zeolite Pore using in-situ High Energy X-ray Total Scattering	Hiroki Yamada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL04B2	Np
302	2021A1456	Observation of coupling between ferroelectric and antiferromagnetic domain introduced into arbitrary position of multiferroic BiFeO <sub>3</sub> thin films	Seiji Nakashima	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	5	BL17SU	Np
303	2021A1458	Clarification of the mechanism of high thermoelectric conversion performance generated by local strain in half-Heusler compounds studied by hard x-ray photoelectron spectroscopy	Hidetoshi Miyazaki	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL47XU	Np
304	2021A1460	Structural study of human aortic wall with synchrotron radiation phase-contrast X-ray CT. Establishment of clinical treatment strategy based on quality of the aortic wall structure.	Takuro Tsukube	Japanese Red Cross Kobe Hospital	Japan	National and Nonprofit Organization	Medical Applications	3	BL20B2	Np

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305	2021A1461	Observation of Local Strain in Half-Heusler Thermoelectric Half-Heusler Type Thermoelectric Materials Using X-ray Absorption Fine Structure and Establishment of Control Method	Hidetoshi Miyazaki	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	3	BL01B1	Np
306	2021A1462	Precise structural analysis of ultrafine grained Heusler-type thermoelectric conversion materials produced by high-pressure torsion	Hidetoshi Miyazaki	Nagoya Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
307	2021A1467	Effect of Temperature on Aggregation Behavior of Polyoxyethylene Type Double chained Nonionic Surfactants	Shiho Yada	Nara Women's University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
308	2021A1468	Transformation of coarse-grained olivine to spinel and shear instability at high pressures	Tomoaki Kubo	Kyushu University	Japan	Educational Organization	Earth and Planetary Science	18	BL04B1	Np
309	2021A1470	Correlative tomography using imaging CT and pencil-beam XRD for deformation and fracture of structural material	Kyosuke Hirayama	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	14.625	BL20XU	Np
310	2021A1471	Structural Characterization of Liposome Formed by Mixed System of Hydrogenated Lecithin and Homogeneous Polyoxyethylene-Type Nonionic Surfactant	Tomokazu Yoshimura	Nara Women's University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
311	2021A1472	Infrared Synchrotron Magnetic Circular Dichroism Spectroscopy and Spin State of Organic Conductor	Yuka Ikemoto	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	18	BL43IR	Np
312	2021A1473	Controlling rotations of coordination octahedra and inducing piezoelectricity by fluorination of layered perovskite oxides	Hirofumi Akamatsu	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
313	2021A1476	Near-field Spectroscopy using high brilliant infrared synchrotron source	Yuka Ikemoto	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	12	BL43IR	Np
314	2021A1478	Visualization of the Effect of the Preparation Process on Zeolite Crystallization by Using in-situ PDF Analysis	Hiroki Yamada	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL08W	Np
315	2021A1479	Formation of Functional Liquid Crystalline Materials with Controllable Internal Spaces Based on Ordered Arrangement of $\pi$ -Electronic Systems	Yohei Haketa	Ritsumeikan University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np
316	2021A1480	In situ Microdomain Structure Analysis under Various Mechanical Deformation Modes for Preparation of Toughened Thermoplastic Elastomers	Ken Kojio	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	3	BL40XU	Np
317	2021A1481	Phase Diagram and Structural Evolution of Iron and Iron-Nickel Hydrides at High Pressures and Temperatures	Eric Edmund	Center for High Pressure Science and Technology Advanced Research	China	Foreign	Earth and Planetary Science	5.625	BL10XU	Np
318	2021A1482	Evaluation of change in chemical bonding state and energy band profile of Metal Ferroelectric semiconductor (AlScN) Metal structure by applied bias	Hiroshi Nohira	Tokyo City University	Japan	Educational Organization	Materials Science and Engineering	6	BL47XU	Np
319	2021A1483	Chemical state imaging of LNMO lithium battery active materials particles	Nozomu Ishiguro	Tohoku University	Japan	Educational Organization	Chemical Science	12	BL36XU	Np
320	2021A1484	Observation of the anisotropic phonon excitation of soft materials to build a phonon database measured by inelastic X-ray scattering	Junko Morikawa	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL35XU	Np
321	2021A1485	Quantitative observations of dendritic growth in metallic alloys	Hideyuki Yasuda	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL47XU	Np
322	2021A1487	Direct Observation of Second Coherent Phonon Bands in Superlattice Structures	Junichiro Shiomi	The University of Tokyo	Japan	Educational Organization	Materials Science and Engineering	15	BL35XU	Np
323	2021A1488	Study on water absorption and evaporation processes of polymers by infrared synchrotron radiation microspectroscopy	Yuka Ikemoto	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Materials Science and Engineering	15	BL43IR	Np
324	2021A1489	XAFS measurement of Pt cocatalysts loaded on non-oxide photocatalysts by various methods	Hajime Suzuki	Kyoto University	Japan	Educational Organization	Chemical Science	3	BL01B1	Np
325	2021A1490	Aggregation Structure of Surface-Modified Cellulose Nanofibers in Urethane Rubber	Takamasa Endo	Industrial Technology Institute, Miyagi Prefectural Government	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL40B2	Np

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326	2021A1491	Structure Analysis of Crystalline Membrane Materials undergoing Structural Change in Response to Mechanical Stimuli	Hiroshi Sato	RIKEN	Japan	National and Nonprofit Organization	Chemical Science	3	BL40XU	Np
327	2021A1492	Crystalline structure analysis of composite materials having plant cell wall like skeleton structure	Daisuke Tatsumi	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	3	BL40XU	Np
328	2021A1494	X-ray nano-beam analysis of a single damage-free GaN-based quantum shell processed by using focused-ion beam	Takao Miyajima	Meijo University	Japan	Educational Organization	Materials Science and Engineering	6	BL40XU	Np
329	2021A1497	Effects of temperature and strain rate on viscosity of hydrous wadsleyite: in situ deformation experiments of hydrous wadsleyite at high pressures and high temperatures	Takaaki Kawazoe	Hiroshima University	Japan	Educational Organization	Earth and Planetary Science	9	BL04B1	Np
330	2021A1498	Investigation of the structural role of nucleation reagents by in-situ X-ray diffraction in high temperature	Kenji Shinozaki	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Materials Science and Engineering	9	BL08W	Np
331	2021A1499	Selection of gamma grain size during coarsening after a massive-like transformation from ferrite to austenite	Hideyuki Yasuda	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL20XU	Np
332	2021A1500	Assessments of ventricular diastolic function and fine structure using phase contrast CT in a transgenic model for conditional overexpression of Fam 64a, regulatory factor of myocardial cell division	Satoshi Mohri	Kawasaki Medical School	Japan	Educational Organization	Life Science	3	BL20B2	Np
333	2021A1501	SAXS study on the nano-scaled void formation during the fracture of biodegradable polymers	Takahiko Kawai	Gunma University	Japan	Educational Organization	Materials Science and Engineering	6	BL05XU	Np
334	2021A1502	In-situ measurement of solute partition between solid and liquid phases in CrFeCoNi medium entropy alloys	Hideyuki Yasuda	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	9	BL20B2	Np
335	2021A1503	Effect of additional trace element for the formation of graphite in high-purity Fe melt.	Akira Sugiyama	Osaka Sangyo University	Japan	Educational Organization	Industrial Applications	6	BL20B2	Np
336	2021A1504	Structure analysis of the $\beta$ -Ga <sub>2</sub> O <sub>3</sub> (100) cleavage plane and its Au-adsorbed surface by X-ray crystal-truncation-rod scattering	Takashi Hanada	Tohoku University	Japan	Educational Organization	Materials Science and Engineering	9	BL13XU	Np
337	2021A1505	Control of dynamic behavior of various $\pi$ -conjugated molecules in their crystalline states by the addition of outer stimuli	Yumi Yakiyama	Osaka University	Japan	Educational Organization	Chemical Science	6	BL02B1	Np
338	2021A1506	Evaluation of Synthesis Procedure of Cadmium Chalcogenide Clusters through In-Situ Methods	Ryo Takahata	Kyoto University	Japan	Educational Organization	Chemical Science	9	BL01B1	Np
339	2021A1507	Local structure analysis of Ga(1-x)In(x)N/GaN/Al(x)Ga(1-x)N quantum shells grown on a GaN substrate by using an X-ray nano-beam	Takao Miyajima	Meijo University	Japan	Educational Organization	Materials Science and Engineering	9	BL13XU	Np
340	2021A1509	Charge-discharge operando Distribution analysis of constituent element on cross-sectional ceramic-type all-solid-state battery	Takeshi Kobayashi	Central Research Institute of Electric Power Industry	Japan	National and Nonprofit Organization	Chemical Science	15	BL27SU	Np
341	2021A1512	Determination of the electronic structures and atom arrangements of the Pd and the second metals in the Pd-based intermetallic compound catalysts	Tomoaki Takayama	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL01B1	Np
342	2021A1513	Determination of cross-bridge behavior in active stretch and shortening under physiological conditions in vivo using small-angle X-ray scattering	Atsuki Fukutani	Ritsumeikan University	Japan	Educational Organization	Life Science	12	BL40XU	Np
343	2021A1514	Structure analysis of nano-cluster crystals of transition-metal chalcogenides	Shinobu Aoyagi	Nagoya City University	Japan	Educational Organization	Materials Science and Engineering	3	BL40XU	Np
344	2021A1515	High-pressure powder x-ray diffraction of photoluminescence multinuclear copper(I) complex with near-infrared emission	Yoshiki Ozawa	University of Hyogo	Japan	Educational Organization	Chemical Science	6	BL10XU	Np
345	2021A1516	Synchrotron X-ray CT analysis of Japanese swords called Tanto to clarify their making techniques	Manako Tanaka	Showa Women's University	Japan	Educational Organization	Other	12	BL28B2	Np
346	2021A1517	Establishment of density measurement using X-ray absorption method combined with tilted laser heated DAC: The effects of temperature and pressure on the density of iron and nickel	Hidegori Terasaki	Okayama University	Japan	Educational Organization	Earth and Planetary Science	6	BL10XU	Np
347	2021A1518	Structural stability of DNA-nanoparticle superlattice with long inter-particle distances	Miho Tagawa	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	6	BL40B2	Np

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348	2021A1519	In situ X-ray diffraction studies of thermogenesis in insect flight muscles - 2	Madoka Suzuki	Osaka University	Japan	Educational Organization	Life Science	9	BL40XU	Np
349	2021A1520	Quantitative evaluation technology of local inhomogeneous region for structural materials	Satoshi Morooka	Japan Atomic Energy Agency	Japan	National and Nonprofit Organization	Industrial Applications	9	BL08W	Np
350	2021A1521	Live imaging analysis of movements of pharyngeal and hyoid jaws of teleosts	Kohei Hatta	University of Hyogo	Japan	Educational Organization	Life Science	12	BL20B2	Np
351	2021A1522*	Phase relations, equation of states and hydrogen solubility for Fe-Si-H ternary systems from in-situ observations at high pressure and high temperature using multianvil apparatus	Hiroyuki Kagi	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	12	BL04B1	Np
352	2021A1524	Study of reaction mechanism of Rh metal nanoparticles for hydrogenation reaction from the viewpoint of structural distortion by using time-resolved XAFS technique	Daiju Matsumura	Japan Atomic Energy Agency	Japan	National and Nonprofit Organization	Materials Science and Engineering	21	BL28B2	Np
353	2021A1525	Evaluation of microdomain structure of elastomeric materials during stress relaxation process under uniaxial and biaxial deformation modes by in-situ small angle X-ray scattering measurements	Ken Kojio	Kyushu University	Japan	Educational Organization	Chemical Science	6	BL05XU	Np
354	2021A1527	Investigation of the pressure-induced structural transition in an exotic spin-triplet superconductor UTe <sub>2</sub> – Pressure - Temperature phase diagram	Fuminori Honda	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	9	BL10XU	Np
355	2021A1528	Elucidation of the anisotropic lattice shrinkage of a novel europium oxyhydride under high pressure	Hiroshi Takatsu	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL10XU	Np
356	2021A1529	Analysis of short-range order in CrCoNi high entropy alloy	Haruyuki Inui	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
357	2021A1530	Exploration of new Ruddlesden–Popper-type perovskite ferroelectrics	Koji Fujita	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
358	2021A1532	Equation of state for periclase above 400 GPa	Takeshi Sakai	Ehime University	Japan	Educational Organization	Earth and Planetary Science	6	BL10XU	Np
359	2021A1534	Valence-selected photoelectron holography of Iridate oxygen-deficiency for the realization of high-temperature superconductors	Rie Horie	Okayama University	Japan	Educational Organization	Materials Science and Engineering	12	BL25SU	Np
360	2021A1535	Multi-scale (micro-nano) CT analysis of the function of unique neurons exchanging between right and left halves of the brain during development	Kohei Hatta	University of Hyogo	Japan	Educational Organization	Life Science	5.875	BL47XU	Np
361	2021A1536	XAFS-DFT-based Investigation of Homogeneous Transition-Metal Catalysts for Ethylene Oligomerization	Hikaru Takaya	Kyoto University	Japan	Educational Organization	Industrial Applications	6	BL14B2	Np
362	2021A1537	Observation on defects in the specimen produced by selective laser melting in Ni super alloy	Atsushi Ito	University of Hyogo	Japan	Educational Organization	Industrial Applications	4	BL28B2	Np
363	2021A1538	Microwave absorption mechanism of electromagnetic interference materials for 5G mobile communication devices	Satoshi Okamoto	Tohoku University	Japan	Educational Organization	Industrial Applications	9	BL25SU	Np
364	2021A1539	Operando X-ray CT analysis on electrode/electrolyte interface of all-solid state lithium battery	Hisao Yamashige	Toyota Motor Corporation	Japan	Industry	Industrial Applications	9	BL20XU	Np
365	2021A1540	Development of highly functional rubber materials by controlling the orientation of polymer-modified hexagonal disk-shaped magnetite nanoparticles	Kiyoshi Kanie	Tohoku University	Japan	Educational Organization	Industrial Applications	3	BL19B2	Np
366	2021A1541	XAFS analysis of novel alloy catalyst efficient for propane dehydrogenation	Shinya Furukawa	Hokkaido University	Japan	Educational Organization	Industrial Applications	9	BL14B2	Np
367	2021A1542	Structural investigation of guest selective response of multi-layered porous-coordination-polymer-based chemresistors	Susumu Kitagawa	Kyoto University	Japan	Educational Organization	Industrial Applications	6	BL46XU	Np
368	2021A1543	Characterization of Nickel Oxide-supported Single Au Atom Catalysts by XAFS	Tamao Ishida	Tokyo Metropolitan University	Japan	Educational Organization	Industrial Applications	6	BL14B2	Np
369	2021A1544	μ-XRF mapping and XAFS analysis of sulfur and zinc compounds in vulcanized polyolefin rubber	Yohei Nakanishi	Kyoto University	Japan	Educational Organization	Industrial Applications	9	BL27SU	Np

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370	2021A1545	Quantitative analysis of the strain induced on electrode-dielectric interface in the modeled Multilayer Ceramic Capacitor studied by sub-micron x-ray diffraction	Hiroyuki Kimura	Tohoku University	Japan	Educational Organization	Industrial Applications	9	BL40XU	Np
371	2021A1547	Surface analysis of oxide film on Ni-Cr-Fe based alloy using photoemission electron microscope	Katsuhiro Nishihara	Nippon Steel Corporation	Japan	Industry	Industrial Applications	24	BL17SU	Np
372	2021A1548	Operando XAFS study on redox behaviors of a noble metal nanoparticle and OSC materials	Hiroshi Yoshida	Kumamoto University	Japan	Educational Organization	Industrial Applications	6	BL14B2	Np
373	2021A1549	Evaluation of crushing layers formed on flat surfaces of substrates for optical and electric devices after mirror wrapping process	Wataru Yashiro	Tohoku University	Japan	Educational Organization	Industrial Applications	6	BL47XU	Np
374	2021A1550	Application of multi-beam 4D X-ray tomography for dissimilar metals contact interface observation	Wataru Yashiro	Tohoku University	Japan	Educational Organization	Industrial Applications	18	BL28B2	Np
375	2021A1551	Development of highly temperature-sensitive magnetic fluid bu controlling size and shape of Mn-Zn ferrite nanoparticles	Jun Yabuki	Ichinen chemicals Co.,Ltd.	Japan	Industry	Industrial Applications	3	BL19B2	Np
376	2021A1553	Start-up study of vertical-focusing mirror for hard X-ray photoelectron spectroscopy at BL46XU	Satoshi Yasuno	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Industrial Applications	9	BL46XU	Np
377	2021A1554	Study on effect of moisturizer based upon the structural modification of stratum comeum with its application 3—With paying attention to the difference of moisturizers and its concentration—	takeshi yamada	SAKAMOTO YAKUHHIN KOGYO CO., LTD	Japan	Industry	Industrial Applications	6	BL40B2	Np
378	2021A1555	Particle Size Analysis of Polymer Core-shell Nano-composite-particles with Anomalous Soft X-ray Small-Angle Scattering	Ken-ichi Izumi	JSR Corporation	Japan	Industry	Industrial Applications	6	BL27SU	Np
379	2021A1556	Quantitative analysis for the chain formation and recovery of magnetic particles in magnetic-field responsive soft materials	Tetsu Mitsumata	Niigata University	Japan	Educational Organization	Industrial Applications	3	BL47XU	Np
380	2021A1557	XAFS analysis of anode catalyst in PEM water electrolysis (1)	Tomoki Uchiyama	Kyoto University	Japan	Educational Organization	Industrial Applications	9	BL14B2	Np
381	2021A1558	Development of high-efficiency organic solar cells using non-fullerene acceptors	Itaru Osaka	Hiroshima University	Japan	Educational Organization	Industrial Applications	4	BL46XU	Np
382	2021A1559	In-situ analysis on strain induced martensitic transformation of ultrafine grained ferrie + fine dispersed austenite 7Mn steels obtained by rapid heating and cooling based on cementite metallurgy	Shiro Torizuka	University of Hyogo	Japan	Educational Organization	Industrial Applications	3	BL19B2	Np
383	2021A1561	Evaluation of protein structure and distribution in hair cortex using infrared microspectroscopy and its effect on the hair texture	Tatsuro Sugawara	Milbon Co., Ltd.	Japan	Industry	Industrial Applications	12	BL43IR	Np
384	2021A1562	Development of non-destructive testing for a HIP interface of F82H steel by usingthe Compton scattering	Hiroshi Sakurai	Gunma University	Japan	Educational Organization	Industrial Applications	8.875	BL08W	Np
385	2021A1563	Analysis of local structure of hazardous metal adsorbents by XAFS	Masaru Endo	Daicel Corporation	Japan	Industry	Industrial Applications	3	BL14B2	Np
386	2021A1565	Investigation of fracture mechanism of concrete structure for development of the energy saving and high efficiency demolishing method by using non-destructive integrated CT-XRD method	Hayato Takahashi	Tokyo University of Science	Japan	Educational Organization	Industrial Applications	12	BL28B2	Np
387	2021A1566	Analysis of surface structure on the amphiphile gel material	Eri Ito	Menicon Co., Ltd.	Japan	Industry	Industrial Applications	6	BL46XU	Np
388	2021A1606	Development of the focusing mirror for soft X-rays with different focal length in the vertical and horizontal directions	Yoko Takeo	The University of Tokyo	Japan	Educational Organization	Beamline Engineering	6	BL25SU	Np
389	2021A1622	Observation of Drug Tablets by X-ray Imaging	Masahiko Yoshiki	Toshiba Corporation	Japan	Industry	Industrial Applications	1	BL14B2	P
390	2021A1623	Crystal structure analysis of lithium ion battery electrode by X-ray diffraction	Ryo Osone	KYOCERA Corporation	Japan	Industry	Industrial Applications	1	BL19B2	P



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391	2021A1624	Thin film X-ray structural analysis of organic thin film	Hisashi Tetsutani	Nissan Chemical Corporation	Japan	Industry	Industrial Applications	3	BL46XU	P
392	2021A1625	Measurement of static potential distribution in oxygen-deficient SrTiO3 by HAXPES	Shuichi Kasai	KYOCERA Corporation	Japan	Industry	Industrial Applications	2	BL46XU	P
393	2021A1627	Study on the electronic state of inorganic semiconductor materials	Ryouji Arai	Sony Group Corporation	Japan	Industry	Industrial Applications	3	BL46XU	P
394	2021A1628	Structural Analysis of Polyolefin Films	Go Matsuba	Yamagata University	Japan	Educational Organization	Industrial Applications	3	BL19B2	P
395	2021A1629	Heteroepitaxy of solution-processable organic semiconductor molecules exhibiting high charge carrier mobility (II)	Yasuo Nakayama	Tokyo University of Science	Japan	Educational Organization	Industrial Applications	9	BL46XU	Np
396	2021A1630	XAFS study on the electronic structure and local structure of nickel carbonyl complexes bearing N-heterocyclic carbene as an auxiliary ligand	Yuta Uetake	Osaka University	Japan	Educational Organization	Industrial Applications	6	BL14B2	Np
397	2021A1633	Direct observation of inter metallic charge transfer by HAPES in negative thermal expansion related compounds II	Masaki Azuma	Tokyo Institute of Technology	Japan	Educational Organization	Industrial Applications	6	BL46XU	Np
398	2021A1634	Metal immobilization technology for metal removal using iron oxides	Yohey Hashimoto	Tokyo University of Agriculture and Technology	Japan	Educational Organization	Industrial Applications	3	BL14B2	Np
399	2021A1636	Nondestructive observation of corrosion products on Zn based coating using synchrotron radiation X-ray laminography	Katsuhiro Nishihara	Nippon Steel Corporation	Japan	Industry	Industrial Applications	6	BL46XU	Np
400	2021A1637	Aggregation Structure of Surface-Modified Cellulose Nanofibers in Urethane Rubber	Takamasa Endo	Industrial Technology Institute, Miyagi Prefectural Government	Japan	National and Nonprofit Organization	Industrial Applications	6	BL19B2	Np
401	2021A1638	Analysis of degradation behavior of electrocatalysts for alkaline water electrolysis by X-ray absorption spectroscopy (1)	Tomoki Uchiyama	Kyoto University	Japan	Educational Organization	Industrial Applications	9	BL14B2	Np
402	2021A1639	In-situ Observation of Drug Tablet Disintegration by X-ray Imaging	Kazuhiro Suzuki	TOSHIBA NANOANALYSIS CORPORATION	Japan	Industry	Industrial Applications	2	BL14B2	Np
403	2021A1640	CEY-XAFS Studies on CuxO/rGO/Cu Photoelectrocatalyst [new user]	Rozan Mohamad Yunus	Universiti Kebangsaan Malaysia	Malaysia	Foreign	Industrial Applications	2	BL14B2	Np
404	2021A1641	Film Structure Analysis of Semiconducting Polymers Containing Novel Bending Conjugated Units	Keisuke Tajima	RIKEN	Japan	National and Nonprofit Organization	Industrial Applications	4	BL46XU	Np
405	2021A1642	Elucidation of the mechanism of conductivity enhancement by elemental substitution in LLZ solid state electrolyte	Masahide Kaneko	NGK Spark Plug Co., Ltd.	Japan	Industry	Industrial Applications	1.625	BL14B2	Np
406	2021A1643*	Investigation of Improvement Mechanism on the Cycle Performance of Magnesium Secondary Battery Cathode Material Mg(Co, Ni, Mn, Al)2O4 during Discharge Process by Crystal and Electronic Structure Analyses.	Yasushi Idemoto	Tokyo University of Science	Japan	Educational Organization	Industrial Applications	6	BL19B2	Np
407	2021A1644	Effects of Al substitution on electronic and local structures of Mg(Co,Ni,Mn,Al)2O4 as cathode material for magnesium rechargeable battery	Yasushi Idemoto	Tokyo University of Science	Japan	Educational Organization	Industrial Applications	3	BL14B2	Np
408	2021A1645	operando investigation of electronic structural change in zinc-substituted spinel oxide cathode of magnesium secondary battery by X-ray absorption spectroscopy	Kentaro Yamamoto	Kyoto University	Japan	Educational Organization	Industrial Applications	6	BL14B2	Np
409	2021A1646	operando investigation of crystal structure change in zinc-substituted spinel oxide cathode of magnesium secondary battery by X-ray diffraction method	Kentaro Yamamoto	Kyoto University	Japan	Educational Organization	Industrial Applications	6	BL19B2	Np
410	2021A1647	Characterization of local structure of supported multi-metallic metal nanoparticle catalysts for selective reduction of carboxylic acid derivatives	Tomoo Mizugaki	Osaka University	Japan	Educational Organization	Industrial Applications	6	BL14B2	Np
411	2021A1648	The structure analysis of BaO-SiO2 glass and glass ceramics using XAFS	Takato Kajihara	AGC Inc.	Japan	Industry	Industrial Applications	3	BL14B2	Np
412	2021A1650	Evaluation of thermal characteristics of CVD-SiO2/Si interface and Si substrate surface by temperature variable X-ray diffraction with synchrotron radiation	Ryo Yokogawa	Meiji University	Japan	Educational Organization	Industrial Applications	12	BL19B2	Np

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413	2021A1651	Investigation of interfacial phenomena occurring at the interface between cathode material and solid electrolyte in all-solid-state batteriesInvestigation of interfacial phenomena occurring at the interface between cathode material and solid electrolyte in all-solid-state batteries	Norikazu Ishigaki	Nagoya University	Japan	Educational Organization	Industrial Applications	12	BL46XU	Np
414	2021A1652	Clarification of two-dimensional non-uniform reactions in a lithium-ion battery	Takeshi Kobayashi	Central Research Institute of Electric Power Industry	Japan	National and Nonprofit Organization	Industrial Applications	9	BL14B2	Np
415	2021A1653	Elucidation of Phase Behavior of Polyoxymethylene Secondary Alkyl Ether Surfactants by SAXS (2)	Tomokazu Yoshimura	Nara Women's University	Japan	Educational Organization	Industrial Applications	9	BL19B2	Np
416	2021A1654	Reciprocal space mapping and micro-diffraction of BiFeO3-BaTiO3 multiferroic crystals	Hisato Yabuta	Canon Inc.	Japan	Industry	Industrial Applications	9	BL46XU	Np
417	2021A1655	In-situ analysis on strain induced martensitic transformation of ultrafine grained ferrie + fine dispersed austenite 0.15C-7Mn steels obtained by rapid heating and cooling based on cementite metallurgy	Shiro Torizuka	University of Hyogo	Japan	Educational Organization	Industrial Applications	3	BL19B2	Np
418	2021A1671	X-ray Computed Tomography Observations of Electronics Devices	Masahiko Yoshiki	Toshiba Corporation	Japan	Industry	Industrial Applications	1	BL14B2	P
419	2021A1672	Study on some changes of the luminescence intensity and the occupying sites of lanthanide ions in double oxide phosphors by co-doping	Kazushige Ueda	Kyushu Institute of Technology	Japan	Educational Organization	Industrial Applications	6	BL14B2	Np
420	2021A1673	Serration analysis in Al-Mg alloys by In-situ XRD/DIC simultaneous measurement	Hiroki Adachi	University of Hyogo	Japan	Educational Organization	Industrial Applications	3	BL46XU	Np
421	2021A1675	Characterization of L10-ordered FeNi alloy epitaxial films with island structures by anomalous scattering X-ray diffraction	Takahiro Nishio	DENSO CORPORATION	Japan	Industry	Industrial Applications	6	BL46XU	Np
422	2021A1676	Coordination structure analyses of Pd catalysts and Rh catalysts for alkoxycarbonylation of alkenes by in situ XAFS	Haruno Murayama	Kyushu University	Japan	Educational Organization	Industrial Applications	9	BL14B2	Np
423	2021A1679	HAXPES analysis of thermosetting resin for electronic materials: Part.3.	Yasuyuki Shudo	Sumitomo Bakelite Co., Ltd.	Japan	Industry	Industrial Applications	6	BL46XU	Np
424	2021A1681	In-situ study of the correlation between interfacial strain and chemical/electronic dynamics of VO2 thin film during the insulator-metal transition	Okkyun Seo	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Industrial Applications	9	BL46XU	Np
425	2021A1682	Structural investigation of heat-induced multiple structural transitions in a flexible porous-coordination-polymer	Susumu Kitagawa	Kyoto University	Japan	Educational Organization	Industrial Applications	3	BL14B2	Np
426	2021A1683	Operando investigation of guest-selective resistive response of multi-layered flexible porous-coordination-polymer-based chemiresistors	Susumu Kitagawa	Kyoto University	Japan	Educational Organization	Industrial Applications	7	BL46XU	Np
427	2021A1684	Simultaneous in situ SAXS and XAS measurements of platinum catalysts for polymer electrolyte fuel cell during electrochemical accelerated degradation tests	Teppei Kawamoto	University of Yamanashi	Japan	Educational Organization	Industrial Applications	9	BL19B2	Np
428	2021A1685	XAFS analysis of anode catalyst in PEM water electrolysis (2)	Tomoki Uchiyama	Kyoto University	Japan	Educational Organization	Industrial Applications	9	BL14B2	Np
429	2021A1686	operando investigation of crystal structure change in sulfur cathode of lithium-sulfur battery by X-ray diffraction method	Kentaro Yamamoto	Kyoto University	Japan	Educational Organization	Industrial Applications	6	BL19B2	Np
430	2021A1687	Analyses of thin-film structures in semiconducting polymers and small molecular n-type materials towards high-performance organic photovoltaic cells	Hiroki Mori	Okayama University	Japan	Educational Organization	Industrial Applications	3	BL46XU	Np
431	2021A1689	Elucidation of the formation mechanism of organic-inorganic perovskite crystal layers using wet process	Naoyuki Shibayama	Toin University of Yokohama	Japan	Educational Organization	Industrial Applications	4	BL46XU	Np
432	2021A2501	crystal structure analysis of protein	Ryuji Kobayashi	TOSOH CORPORATION	Japan	Industry	Life Science	2	PX-BL (BL26B1)	P
433	2021A2503	Structural Biology of Protein-Ligand complex for Drug Discovery	Zenzaburo Nakata	Shionogi & Co., Ltd.	Japan	Industry	Life Science	2.5	PX-BL (BL45XU)	P

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434	2021A2506	diffraction data collection for x-ray crystallography of drug-target proteins	Mizuki Takahashi	DAIICHI SANKYO RD NOVARE CO., LTD.	Japan	Industry	Industrial Applications	1	PX-BL (BL45XU, BL32XU)	P
435	2021A2514	Structure analysis of proteins related to disease	Yuichiro Nakaishi	Otsuka Pharmaceutical Co., Ltd.	Japan	Industry	Industrial Applications	4	PX-BL (BL45XU)	P
436	2021A2517	structural analysis of protein and ligand/protein complex for structure-based drug design	So Nakagawa	CHUGAI PHARMACEUTICAL CO., LTD.	Japan	Industry	Industrial Applications	7	PX-BL (BL45XU)	P
437	2021A2519	Diffraction Data Acquisition and Evaluation of the Protein Crystals grown by Space Experiment.	Hiroaki Tanaka	Confocal Science Inc.	Japan	Industry	Life Science	9	PX-BL (BL41XU)	P
438	2021A2521	Structure analysis of proteins related to disease	Kenji Suzuki	SAI Corporation	Japan	Industry	Industrial Applications	0.75	PX-BL (BL41XU)	P
439	2021A2525	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	17.875	PX-BL (BL26B1)	Np
440	2021A2532	Structure analyses of an RNA aptamer in complex with AML-1	Shigeru Sugiyama	Kochi University	Japan	Educational Organization	Life Science	1.5	PX-BL (BL41XU)	Np
441	2021A2541	Intracellular protein crystallization for rapid structural analysis	Satoshi Abe	Tokyo Institute of Technology	Japan	Educational Organization	Life Science	6	PX-BL (BL32XU)	Np
442	2021A2542	Structural analysis of human lipocalin-type prostaglandin D synthase (L-PGDS) complexed with poorly water soluble drug	Shigenori Nishimura	Osaka Prefecture University	Japan	Educational Organization	Life Science	4	PX-BL (BL26B1)	Np
443	2021A2548	Ultra-high resolution structural analysis from iron-sulfur proteins	Kazuki Takeda	Kyoto University	Japan	Educational Organization	Life Science	1.5	PX-BL (BL41XU)	Np
444	2021A2552	Crystallographic analysis of characteristic enzymes related to phosphate reactions	Masahiro Fujihashi	Osaka Medical and Pharmaceutical University	Japan	Educational Organization	Life Science	1.75	PX-BL (BL45XU)	Np
445	2021A2555	Elucidating reaction mechanism of tRNA-modification enzymes which use metal ions	Min Yao	Hokkaido University	Japan	Educational Organization	Life Science	2	PX-BL (BL45XU)	Np
446	2021A2559	Structural studies to elucidate the catalytic mechanism of biodegradable polymer syntheses	Min Fey Chek	Nara Institute of Science and Technology	Japan	Educational Organization	Life Science	2	PX-BL (BL45XU, BL32XU)	Np
447	2021A2560	Crystallographic study of lipid GPCRs	Tetsuya Hori	RIKEN	Japan	National and Nonprofit Organization	Life Science	1	PX-BL (BL32XU)	Np
448	2021A2561	Mechanistic analysis of a novel paired type IDP enzyme	Toyoyuki Ose	Hokkaido University	Japan	Educational Organization	Life Science	2	PX-BL (BL45XU)	Np
449	2021A2579	Dissecting the ligand recognition mechanism of various lectin protein	Takamasa Teramoto	Kyushu University	Japan	Educational Organization	Life Science	3.25	PX-BL (BL45XU)	Np
450	2021A2580	High Resolution X-ray Crystallographic Analyses of Bioluminescent Protein	Toru Nakatsu	Wakayama Medical University	Japan	Educational Organization	Life Science	2	PX-BL (BL45XU)	Np
451	2021A2581	Structural study of enantioselective amino-acid recognition by taste receptors	Atsuko Yamashita	Okayama University	Japan	Educational Organization	Life Science	1.75	PX-BL (BL41XU, BL45XU)	Np
452	2021A2583	Development of a measurement method combined with synchrotron serial crystallography and HAG-method	Takashi Kumasaka	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Life Science	4.5	PX-BL (BL41XU)	Np
453	2021A2601	Structural determination of target proteins for medical product development	Hiroyuki Kishida	Mitsubishi Tanabe Pharma Corporation	Japan	Industry	Life Science	6.5	PX-BL (BL45XU)	P
454	2021A2602	Structural insights into the antibody/antigen complex	Jian Sun	BeiGene Ltd.	China	Foreign	Life Science	3	PX-BL (BL45XU)	P
455	2021A2604	The structure of Asgard eukaryotic-like proteins, an evolution study	Robert Robinson	Okayama University	Japan	Educational Organization	Life Science	2.875	PX-BL (BL41XU)	Np

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456	2021A2605	Crystallographic Study of the Serotonin Receptors	Sheng Wang	Chinese Academy of Sciences	China	Foreign	Life Science	1.75	PX-BL (BL45XU)	Np
457	2021A2606	Structure Elucidation and Functionalization of Self-Assembled Giant Hollow Complexes by Single-Crystal Synchrotron X-ray Study	Makoto Fujita	The University of Tokyo	Japan	Educational Organization	Chemical Science	3	PX-BL (BL26B1)	Np
458	2021A2607	Structure determination of the gonadotrophin releasing hormone receptor GnRH1R	Zhenhua Shao	Sichuan University	China	Foreign	Life Science	3	PX-BL (BL32XU)	Np
459	2021A2608	High resolution X-ray crystallography of ABC family multi-drug transporters in complex with transport substrates	Dongqing Pan	Kyoto University	Japan	Educational Organization	Life Science	2	PX-BL (BL45XU)	Np
460	2021A2609	Structural studies of macromolecular proteins involved in human gene regulation mechanisms, human pathogen defense regulation systems, prokaryotic protein translation mechanisms, and replication enzyme of viruses.	Zhao Zhi Boo	Nanyang Technological University	Singapore	Foreign	Life Science	4	PX-BL (BL32XU)	Np
461	2021A2613	Crystallography of an intracellular signaling complex of ADAM22, a membrane receptor associated with epilepsy	Shuya Fukai	Kyoto University	Japan	Educational Organization	Life Science	2	PX-BL (BL45XU)	Np
462	2021A2701	Structure analysis of proteins related to disease	Hiroki Omura	Teijin Pharma Limited	Japan	Industry	Industrial Applications	1	PX-BL (BL45XU)	P
463	2021A2702	Macromolecule protein crystals for data collection	Wang Cheng	Wuxi Biortus Biosciences Co. Ltd	China	Foreign	Industrial Applications	8	PX-BL (BL41XU, BL45XU)	P
464	2021A2704	Data collection on protein crystals for structure based drug design	Fan Jiang	Viva Biotech (Shanghai) Ltd.	China	Foreign	Life Science	32.75	PX-BL (BL41XU, BL45XU)	P
465	2021A2705	X-ray crystal structure determination of the protein with compound	Tsuyoshi Adachi	Japan Tobacco Inc.	Japan	Industry	Industrial Applications	3.5	PX-BL (BL45XU)	P
466	2021A2706	Structure analysis of proteins related to disease	Toshiaki Yamaura	Asahi Kasei Pharma Corporation	Japan	Industry	Industrial Applications	7	PX-BL (BL41XU, BL45XU, BL32XU)	P
467	2021A2707	X-ray structural analysis of disease-related protein	Rie Omi	ONO PHARMACEUTICAL CO., LTD.	Japan	Industry	Life Science	2	PX-BL (BL32XU)	P
468	2021A2708	Protein X-ray crystallography	Hajime Saburi	Toray Industries, Inc.	Japan	Industry	Life Science	0.5	PX-BL (BL32XU)	P
469	2021A2709	Structure analysis of proteins related to disease	Yasushi Amano	Astellas Pharma Inc.	Japan	Industry	Industrial Applications	4.5	PX-BL (BL45XU, BL32XU)	P
470	2021A2711	Structural analysis of the therapeutic target protein with its ligands	Satoshi Sogabe	Axcelead Drug Discovery Partners Inc.	Japan	Industry	Industrial Applications	0.25	PX-BL (BL41XU)	P
471	2021A2712	Evaluation of the Protein Crystals under Microgravity by Synchrotron Radiation	Mitsugu Yamada	Japan Aerospace Exploration Agency	Japan	National and Nonprofit Organization	Life Science	8	PX-BL (BL45XU)	P
472	2021A2713	X-ray crystallography of drug-related proteins	Tatsuya Suzuki	Taiho Pharmaceutical Co., Ltd.	Japan	Industry	Industrial Applications	1.5	PX-BL (BL45XU)	P
473	2021A2714	Structural basis of catalytic mechanism of opine dehydrogenase involved in the "opine concept" by plant-pathogenic Agrobacterium tumefaciens.	Seiya Watanabe	Ehime University	Japan	Educational Organization	Life Science	2.25	PX-BL (BL45XU)	Np
474	2021A2715	Crystal structure analysis of tRNA modification enzymes	Tomoyuki Numata	Kyushu University	Japan	Educational Organization	Life Science	3.75	PX-BL (BL45XU)	Np
475	2021A2717	Structural studies of Sphingosine-1-phosphate receptors in complex with different ligands	Beili Wu	Chinese Academy of Sciences	China	Foreign	Life Science	6	PX-BL (BL45XU)	Np
476	2021A2718	Low-dose diffraction data collection for metalloprotein crystals toward an understanding of metal complexation mechanism	Norifumi Muraki	National Institutes of Natural Sciences	Japan	National and Nonprofit Organization	Life Science	1	PX-BL (BL45XU)	Np

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477	2021A2719	Crystallographic study on the functional interaction between the plant PCNA and FEN1 working for DNA replication	Takuji Oyama	University of Yamanashi	Japan	Educational Organization	Life Science	1.5	PX-BL (BL41XU, BL45XU)	Np
478	2021A2720	X-ray crystallography of fine-chemical synthases	Masahiro Watanabe	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Life Science	1	PX-BL (BL45XU)	Np
479	2021A2725	Upgrade of BL41XU for time resolved and ultra high resolution structural analysis	Kazuya Hasegawa	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Life Science	30	PX-BL (BL41XU)	Np
480	2021A2732	Crystal structure analysis of domain-swapping based building block proteins and its supramolecules for construction of nano structure	Masaru Yamanaka	Nara Institute of Science and Technology	Japan	Educational Organization	Life Science	0.75	PX-BL (BL45XU)	Np
481	2021A2733	Structural analysis of MOB1-Sav1 complex in the Hippo pathway.	Sun-Yong Kim	Nara Institute of Science and Technology	Japan	Educational Organization	Life Science	1	PX-BL (BL45XU)	Np
482	2021A2735	Crystal structure of an engineered methylase reveals cofactor-binding constraints and its evolutionary emergence from an oxidoreductase ancestor	Saacnicteh Toledo Patino	Okinawa Institute of Science and Technology Graduate University	Japan	Educational Organization	Life Science	3.5	PX-BL (BL32XU)	Np
483	2021A2736	Structural basis 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
484	2021A2737	Structural basis of the adhesion machinery of Bacteroides	Katsumi Imada	Osaka University	Japan	Educational Organization	Life Science	1.5	PX-BL (BL41XU)	Np
485	2021A2738	Structural study of the bacterial type III protein export machinery	Katsumi Imada	Osaka University	Japan	Educational Organization	Life Science	1.5	PX-BL (BL41XU)	Np
486	2021A2739	Structural basis for enhancement of enzyme function regulated by calcium-dependent manner of PET degrading cutinase Cut190	Nobutaka Numoto	Tokyo Medical and Dental University	Japan	Educational Organization	Life Science	0.75	PX-BL (BL45XU)	Np
487	2021A2741	Crystal structural analysis of photosystem II water-splitting reaction intermediates and photosystem II under different pH conditions	Jian-Ren Shen	Okayama University	Japan	Educational Organization	Life Science	9	PX-BL (BL41XU)	Np
488	2021A2742	Structural study of type V CRISPR-Cas systems	Yanli Wang	Chinese Academy of Sciences	China	Foreign	Life Science	6	PX-BL (BL45XU)	Np
489	2021A2745	Structural analysis of the Sec translocon complex and lipid/sugar transporters	Tomoya Tsukazaki	Nara Institute of Science and Technology	Japan	Educational Organization	Life Science	3	PX-BL (BL32XU)	Np
490	2021A2747	Structural analysis of reaction intermediate in nitric oxide reductase under anaerobic condition created by oxygen barrier film	Takehiko Tosha	RIKEN	Japan	National and Nonprofit Organization	Life Science	22.5	PX-BL (BL26B1, BL41XU, BL32XU)	Np
491	2021A2748	Ring-type quaternary structure and supramolecular assembly of peroxiredoxin	Tsutomu Nakamura	National Institute of Advanced Industrial Science and Technology	Japan	National and Nonprofit Organization	Life Science	1.25	PX-BL (BL45XU)	Np
492	2021A2749	Development aimed at improving the performance of the in-situ measurement environment with a crystallization plate	Hideo Okumura	Japan Synchrotron Radiation Research Institute	Japan	National and Nonprofit Organization	Life Science	18	PX-BL (BL26B1, BL45XU)	Np
493	2021A2750	Crystal structure analysis of the complex between amyloid beta with a toxic turn and its specific antibody	Kazuhiro Irie	Kyoto University	Japan	Educational Organization	Life Science	1.25	PX-BL (BL45XU)	Np
494	2021A2753	Accurate structural analysis of biological macromolecules with X-ray crystallography	Kazuki Takeda	Kyoto University	Japan	Educational Organization	Life Science	1.5	PX-BL (BL41XU)	Np
495	2021A2755	Structural determination of a secreted protein responsible for type IV pili-mediated colonization by enteric pathogen	Shota Nakamura	Osaka University	Japan	Educational Organization	Life Science	4	PX-BL (BL26B1, BL45XU)	Np
496	2021A2756	Structural study on membrane protein BcsC: a subunit of bacterial cellulose synthesis complex	Jian Yu	Hokkaido University	Japan	Educational Organization	Life Science	3	PX-BL (BL45XU, BL32XU)	Np
497	2021A2758	"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
498	2021A2759*	Structural analysis of proteins involved in iron acquisition and transport system	Hiroshi Sugimoto	RIKEN	Japan	National and Nonprofit Organization	Life Science	10.5	PX-BL (BL45XU)	Np



S/N	Proposal Number	Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/ Non-proprietary(Np)
499	2021A2760	Elucidation of functions of food-related enzymes by X-ray analysis with freezing and non-freezing crystals.	Bunzo Mikami	Kyoto University	Japan	Educational Organization	Life Science	9	PX-BL (BL26B1)	Np
500	2021A2761	Mechanism of actin ATP hydrolysis revealed by high resolution crystal structures	Shuichi Takeda	Okayama University	Japan	Educational Organization	Life Science	3	PX-BL (BL41XU, BL45XU)	Np
501	2021A2762	Structural basis for phosphatidylcholine biosynthesis in plant pathogenic bacteria	Yasunori Watanabe	Yamagata University	Japan	Educational Organization	Life Science	0.5	PX-BL (BL32XU)	Np
502	2021A2765	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	17	PX-BL (BL26B1, BL41XU, BL45XU)	Np
503	2021A2766	Crystal structure analyses of ubiquitin chain recognition and ubiquitin chain formation by Triad3	Kei Okatsu	Kyoto University	Japan	Educational Organization	Life Science	1	PX-BL (BL45XU)	Np
504	2021A2767*	Integrated structural and functional analysis of a metalloprotein at the quantum level	Yota Fukuda	Osaka University	Japan	Educational Organization	Life Science	0.5	PX-BL (BL41XU)	Np
505	2021A2769	Structural study on new PDI family proteins in protein quality control	Satoshi Watanabe	Tohoku University	Japan	Educational Organization	Life Science	1	PX-BL (BL45XU)	Np
506	2021A2770	Structural biology of bacterial proteins/enzymes involved in membrane vesicle-dependent transport and metabolism of acidic polysaccharides	Ryuuichi Takase	Kyoto University	Japan	Educational Organization	Life Science	3.75	PX-BL (BL26B1, BL45XU)	Np

# 2021A, Performed Budding Researchers Support Proposals

1Shift =8Hours

S/N	Proposal Number	Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/ Non-proprietary(Np)
1	2021A1567	Precise elucidation of transient structural changes of porous hydrogen-bonded organic frameworks composed of twisted pi-conjugated molecule	Yuto Suzuki	Osaka University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
2	2021A1568	The in-situ observation of oxynitride single crystal growth mechanism under high pressure	Kohdai Ishida	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL04B1	Np
3	2021A1571	In-situ XAFS analysis for nanoparticulate high-entropy-alloy catalyst with high propane dehydrogenation performance	Yuki Nakaya	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	12	BL01B1	Np
4	2021A1572	Temperature estimation of supported Rh metal catalysts under light irradiation by in-situ DXAFS measurement	Daichi Takami	Kyoto University	Japan	Educational Organization	Chemical Science	12	BL28B2	Np
5	2021A1573	Diffusion-Govern Energy Landscape of Metastable A3MCl6 (A=Li, Na, K M= Sc, Y, In, Er)	Hiroaki Ito	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
6	2021A1574	Application of high-energy imaging-type CT to characterize 3D crack closure behavior of a short fatigue crack	Valary Tubei	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	6	BL20XU	Np
7	2021A1575	Measurement of phonon softening in spinel vanadate FeV2O4 with classical orbital fluctuation	Taishun Manjo	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	11.125	BL43LXU	Np
8	2021A1578	Development of functional materials based on precise structural analysis and elucidation of molecular alignment of pentafulvalene derivative ultrafine crystals	Masahiro Hayakawa	Nagoya University	Japan	Educational Organization	Chemical Science	6	BL02B1	Np
9	2021A1580	Agglutination Dynamics of $\pi$ -Conjugated Polymer in Coating Process Revealed by Synchrotron Radiation Small/Wide-Angle Scattering Method	Yuta Yabuuchi	Osaka University	Japan	Educational Organization	Materials Science and Engineering	9	BL40B2	Np
10	2021A1581	Exploring the high-pressure phase of PbFCl-type BaHCl using in-situ XRD	Hiroki Ubukata	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL04B1	Np
11	2021A1583	Elucidation of the effect of pressure on the coordination structure around molybdenum and tungsten in silicate glass	Keisuke Ozawa	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	9	BL37XU	Np
12	2021A1584	Local lattice constant analysis of high quality GaN grown by flux film coated technique utilizing multi-point seed technique by nanobeam X-ray diffraction	Zhendong Wu	Osaka University	Japan	Educational Organization	Materials Science and Engineering	12	BL13XU	Np
13	2021A1585	Investigation of the change on cluster structure with 353K aging in Al-Mg-Si alloy by soft X-ray XAFS measurement	Serina Tanaka	University of Hyogo	Japan	Educational Organization	Materials Science and Engineering	6	BL27SU	Np
14	2021A1587	Brand new approach methods toward high-temperature superconductivity: creation of novel fullerene superconductor with hetero metal intercalation and its temperature-induced crystal/electronic structure changes	Naoya Yoshikane	Osaka Prefecture University	Japan	Educational Organization	Materials Science and Engineering	3	BL02B2	Np
15	2021A1588	Understanding the kinetics of adsorption-induced structural transition on metal-organic frameworks	Yuta Sakanaka	Kyoto University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
16	2021A1590	Structural and dynamic analysis of supramolecular hydrogen-bonded networks	Chisako Kanzaki	Kyoto Prefectural University	Japan	Educational Organization	Materials Science and Engineering	3	BL43IR	Np
17	2021A1591	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	2021A1592	X-Ray Single Crystal Structural Analysis for Microcrystals of Novel Conjugated Organosilicon Compounds Having Highly Reactive Multiple Bonds	Ryohei Nishino	Rikkyo University	Japan	Educational Organization	Chemical Science	9	BL02B1	Np
19	2021A1593	Analysis of Dual Cross-linked Network Materials during Stretching by X-ray scattering measurements	Yusaku Kawai	Osaka University	Japan	Educational Organization	Chemical Science	3	BL40B2	Np
20	2021A1595	V系新規N, H挿入化合物による新触媒の構造解析	Yu Cao	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL02B2	Np

S/N	Proposal Number	Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/ Non-proprietary(Np)
21	2021A1597	Pyrrole-Based $\pi$ -System–Anion Complexes : Evaluation of Charge Density Distribution through High Resolution Crystal Structure X-ray Analysis	Hiroki Tanaka	Ritsumeikan University	Japan	Educational Organization	Materials Science and Engineering	9	BL02B1	Np
22	2021A1599	Elucidation of the relationship between crystal structure and ionic conductivity of hexagonal perovskite related oxides by synchrotron X-ray diffraction	Yuta Yasui	Tokyo Institute of Technology	Japan	Educational Organization	Materials Science and Engineering	6	BL02B2	Np
23	2021A1602	Synthesis of novel nitrides and in-situ observation of their formation process under high-temperature and high-pressure	Shuto Asano	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	3	BL10XU	Np
24	2021A1603	Observation of Ligand Field Splitting and Elucidation of Basicity · Base Catalysis on Ta Oxide Cluster	Tomoki Matsuyama	Tokyo Metropolitan University	Japan	Educational Organization	Materials Science and Engineering	12	BL39XU	Np
25	2021A1607	Development of a nanoprecise figure correction cycle for ellipsoidal focusing mirrors using soft x-ray ptychography	Shunya Yokomae	The University of Tokyo	Japan	Educational Organization	Beamline Engineering	6	BL25SU	Np
26	2021A1608	Analysis of mechanical properties and dependence of water content of polymer materials composed of movable crosslinks and cellulose characterized by FTIR under stretching	Ryohei Ikura	Osaka University	Japan	Educational Organization	Materials Science and Engineering	12	BL43IR	Np
27	2021A1609	Development and structure analysis of multi-component crystals with non-covalent interactions	Kei Mizuguchi	Yamagata University	Japan	Educational Organization	Materials Science and Engineering	6	BL02B1	Np
28	2021A1610	Speciation of sub-micron sized uranium particle by hard X-ray transmission microscopy-XAS	Takumi Yomogida	The University of Tokyo	Japan	Educational Organization	Chemical Science	6	BL37XU	Np
29	2021A1612	Ultra-Short KB Mirrors for Focusing Soft X-Rays into Spot with Diameter of 50 nm	Takenori Shimamura	The University of Tokyo	Japan	Educational Organization	Beamline Engineering	12	BL25SU	Np
30	2021A1613	In-situ observation of phase transformation of strong and ductile low transformation temperature weld metals for remarkable fatigue life extension	Zhongyuan Feng	Osaka University	Japan	Educational Organization	Industrial Applications	3	BL46XU	Np
31	2021A1614	Effect of active slip systems during hot deformation in magnesium alloys.	Masahiro Hirata	University of Hyogo	Japan	Educational Organization	Industrial Applications	4	BL46XU	Np
32	2021A1615	In situ XAFS analysis for bifunctional catalysts effective for CO <sub>2</sub> capture and reductive utilization	Shunsaku Yasumura	Hokkaido University	Japan	Educational Organization	Industrial Applications	15	BL14B2	Np
33	2021A1616	Examining the charge-up calibration techniques for the improving the throughput of hard X-ray photoelectron spectroscopy measurement.	Tappei Nishihara	Meiji University	Japan	Educational Organization	Industrial Applications	6	BL46XU	Np
34	2021A1656	identification of complex formation and reduction reaction during the synthesis of Cu-Co bimetallic nanostructures using the alcohol reduction technique	Masanao Ishijima	University of Shiga Prefecture	Japan	Educational Organization	Industrial Applications	6	BL14B2	Np
35	2021A1657	In situ XAFS analysis of multi-component alloys under CO-O <sub>2</sub> and C <sub>3</sub> H <sub>6</sub> -O <sub>2</sub> reaction	Taiki Hirakawa	Kumamoto University	Japan	Educational Organization	Industrial Applications	6	BL14B2	Np
36	2021A1658	Air/liquid interfacial in-situ X-ray diffraction for structural control of porous nanosheet crystals architected by hydrogen-bonded at air/liquid interfaces -Establishment of time-resolved measurement methods with a two-dimensional detector-	Takashi Ohata	Osaka Prefecture University	Japan	Educational Organization	Industrial Applications	9	BL46XU	Np
37	2021A1659	Structural analysis of phytoglycogen, a water-soluble polysaccharide in solvent by small-angle X-ray scattering [new user]	Jun Yee Tse	Osaka Medical and Pharmaceutical University	Japan	Educational Organization	Industrial Applications	3	BL19B2	Np
38	2021A1661	Evaluation of atomic vibration for bulk SiGe by XAFS	Kazutoshi Yoshioka	Meiji University	Japan	Educational Organization	Industrial Applications	6	BL14B2	Np
39	2021A1662	Hard X-ray photoelectron spectroscopy analysis of band alignment in metal/Ti <sub>x</sub> Ta <sub>1-x</sub> O <sub>y</sub> /c-Si hydrogen-production photocatalytic devices	Tomohiko Hara	Toyota Technological Institute	Japan	Educational Organization	Industrial Applications	9	BL46XU	Np
40	2021A1693	Characterization of Phase Separation and Crystalline Structure in Thin Films of Novel Self-healable and Stretchable Semiconducting Block Copolymers.	Shin Inagaki	Yamagata University	Japan	Educational Organization	Industrial Applications	6	BL46XU	Np
41	2021A1695	Controlling the NO adsorption over atomic Cu site for NH <sub>3</sub> slip reaction	Xuze Guan	University College London	UK	Foreign	Industrial Applications	12	BL14B2	Np
42	2021A1696	Analysis of Syndiotactic Polystyrene containing Acetylated Cyclodextrin by X-ray Scattering Measurements	Subaru Konishi	Osaka University	Japan	Educational Organization	Industrial Applications	1	BL19B2	Np

S/N	Proposal Number	Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/ Non-proprietary(Np)
43	2021A2772	Dynamic Structure Trapping of Intrinsically Disordered Proteins immobilized in In-Cell Protein Crystal	Mariko Kojima	Tokyo Institute of Technology	Japan	Educational Organization	Life Science	3	PX-BL (BL32XU)	Np

# 2021A, Performed Time-Designated Proposals

1Shift =8Hours

S/N	Proposal Number	Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/ Non-proprietary(Np)
1	2021A2004	Crystal structure of orphan GPCR bound to tool ligand	Fei Xu	ShanghaiTech University	China	Foreign	Life Science	1.5	BL45XU	P
2	2021A2005	Structure-based pesticide development	Yoshiki Tanaka	AgroDesign Studios	Japan	Industry	Industrial Applications	0.5	BL45XU	P
3	2021A2006	Structural analysis of ceramic nano-powder on the atomic Pair Distribution Function	Tatsuto Minamiyama	Murata Manufacturing Co., Ltd.	Japan	Industry	Industrial Applications	1	BL04B2	P
4	2021A2009	Observation of polymer electrolyte fuel cells using X-CT	Hideto Imai	NISSAN ARC, LTD.	Japan	Industry	Chemical Science	3	BL20XU	P
5	2021A2010	Operando study of polymer electrolyte fuel cell catalysts by high-resolution X-ray absorption spectroscopy (1)	Hideto Imai	NISSAN ARC, LTD.	Japan	Industry	Chemical Science	6	BL39XU	P
6	2021A2028	Structural studies to aid in SAR for viral protein	Nithya Baburajendran	Experimental Drug Development Centre	Singapore	Foreign	Life Science	0.5	BL45XU	P
7	2021A2033	Observation of iron ore microstructure by synchrotron radiation CT	Toru Takayama	Nippon Steel Corporation	Japan	Industry	Industrial Applications	1	BL47XU	P
8	2021A2035	3D structure observation of carbon materials	Takayuki Harano	NIPPON STEEL Chemical & Material Co., Ltd.	Japan	Industry	Industrial Applications	1	BL47XU	P
9	2021A2046	Quantitative analysis of a fuel cell by Compton scattering	Hideto Imai	NISSAN ARC, LTD.	Japan	Industry	Chemical Science	3	BL37XU	P
10	2021A2047	Analysis of polymer electrolyte fuel cell catalysts with hard X-ray photoelectron spectroscopy	Hideto Imai	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	1	BL46XU	P
11	2021A2053	Analysis of polymer electrolyte fuel cell catalysts with hard X-ray photoelectron spectroscopy	Hideto Imai	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	6	BL46XU	P
12	2021A2054	Structure analysis of polymer electrolyte fuel cell electrolyte membrane by small-angle X-ray scattering	Hideto Imai	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	2	BL40B2	P
13	2021A2056	Position-selective/time-resolved measurements of battery cells by X-ray diffraction.	Masayuki Inaba	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	2	BL19B2	P
14	2021A2062	Structure analysis of proteins related to disease	Noritaka Furuya	KISSEI PHARMACEUTICAL CO., LTD.	Japan	Industry	Industrial Applications	1	BL45XU	P



# 2021A, Performed SPring-8 Measurement Services

1Shift =8Hours

S/N	Proposal Number	Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/ Non-proprietary(Np)
1	2021A2001	XAFS measurements of inorganic compounds	Masashi Ohno	Nissan Chemical Corporation	Japan	Industry	Industrial Applications	0.25	BL14B2	P
2	2021A2003	2D-GIXD measurement of Organic thin films	Yuta Inaba	Sony Group Corporation	Japan	Industry	Industrial Applications	0.25	BL46XU	P
3	2021A2007	XAFS of Lithium ion battery	Zhendong Zhang	Fudan University	China	Foreign	Industrial Applications	0.25	BL14B2	P
4	2021A2008	Powder XRD measurement	Hiromi Seki	KYOCERA Corporation	Japan	Industry	Industrial Applications	0.25	BL19B2	P
5	2021A2011	synchrotron powder x-ray diffraction measurements	Kazunori Fukuda	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
6	2021A2012	Observation of changes in metal oxides before and after organic reactions	Hayato Tsuji	Kanagawa University	Japan	Educational Organization	Industrial Applications	0.25	BL14B2	P
7	2021A2013	Development of the cobalt oxide catalysts for the oxygen evolution reaction in water electrolysis with high stability	Kiyohiro Adachi	RIKEN	Japan	National and Nonprofit Organization	Industrial Applications	0.25	BL14B2	P
8	2021A2016	Powder X-ray Diffraction of low-strain sample IX	Kazuya Tokuda	Sumitomo Electric Industries, Ltd.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
9	2021A2017	Crystal structure analysis of materials for lithium ion battery using XRD.	Shugo Yamada	Panasonic Corporation	Japan	Industry	Industrial Applications	1	BL19B2	P
10	2021A2018	Accurate evaluation of ordered structures for Heusler alloy nanoparticles by synchrotron X-ray diffraction	Takayuki Kojima	Shinshu University	Japan	Educational Organization	Industrial Applications	0.25	BL19B2	P
11	2021A2019	SAXS measurement of LCP(BL19B2)	Tomohiro Taki	Polyplastics Co., Ltd.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
12	2021A2021	Synchrotron XRD measurement for metal magnets	Yuki Nagamine	TDK Corporation	Japan	Industry	Industrial Applications	0.25	BL19B2	P
13	2021A2023	Structure analysis of supported alloy nanoparticles using synchrotron XRD	Shinya Furukawa	Hokkaido University	Japan	Educational Organization	Industrial Applications	0.25	BL19B2	P
14	2021A2024	Powder X-ray structure analysis of sodium etidronate	Takahiko Hashizuka	Sumitomo Dainippon Pharma Co., Ltd.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
15	2021A2025	XRD Analysis of Battery Materials	Yuki Orikasa	Ritsumeikan University	Japan	Educational Organization	Industrial Applications	0.25	BL19B2	P
16	2021A2026	Small-angle x-ray scattering measurement of industrial materials	Hirokazu Sasaki	Furukawa Electric Co., Ltd.	Japan	Industry	Industrial Applications	0.5	BL19B2	P
17	2021A2027	Powder XRD measurement	Hiromi Seki	KYOCERA Corporation	Japan	Industry	Industrial Applications	0.25	BL19B2	P
18	2021A2029	Temperature dependence of Ti alloy	Na Zhao	SANKA High Technology Co. Ltd.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
19	2021A2030	Crystal structure analysis of materials for lithium ion battery using XRD.	Shugo Yamada	Panasonic Corporation	Japan	Industry	Industrial Applications	1	BL19B2	P
20	2021A2032	The XAFS measurment for anode materials of lithoum ion battery	Huishu Huang	Fudan University	China	Foreign	Industrial Applications	0.5	BL14B2	P
21	2021A2036	XAFS of Lithium ion battery	Zhendong Zhang	Fudan University	China	Foreign	Industrial Applications	0.25	BL14B2	P

S/N	Proposal Number	Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/ Non-proprietary(Np)
22	2021A2037	EXAFS analysis of alkaline-earth elements in glass	Masaki Makita	Nippon Electric Glass Co.,Ltd.	Japan	Industry	Industrial Applications	0.5	BL14B2	P
23	2021A2038	ultra small-angle X-ray scattering measurements of steel materials	Toshinori Ishida	JFE Steel Corporation	Japan	Industry	Industrial Applications	0.25	BL19B2	P
24	2021A2039	Measurement of particle size and shape of water-soluble acrylic polymer	Atsuhiko Kunishige	UBE Scientific Analysis Laboratory, Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
25	2021A2040	Chemical state analysis for metal oxide materials	Naomi Suzuki	Sumitomo Metal Mining Co., Ltd.	Japan	Industry	Industrial Applications	1	BL46XU	P
26	2021A2041	Powder X-ray diffraction of metal oxides	Katsushi Ono	Sumitomo Metal Mining Co., Ltd.	Japan	Industry	Industrial Applications	0.5	BL19B2	P
27	2021A2042	XAFS of Lithium ion battery	Huishu Huang	Fudan University	China	Foreign	Industrial Applications	0.5	BL14B2	P
28	2021A2043	Powder X-ray Diffraction of low-strain sample X	Kazuya Tokuda	Sumitomo Electric Industries, Ltd.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
29	2021A2044	SR-XRD measurements of stainless steel	Kazunori Fukuda	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
30	2021A2045	Powder XRD measurements using SR.	Kazunori Fukuda	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
31	2021A2049	Powder XRD measurement	Hiromi Seki	KYOCERA Corporation	Japan	Industry	Industrial Applications	0.25	BL19B2	P
32	2021A2050	Angle-resolved HAXPES analysis of metal-oxide thin layer on Si-wafer.	Masayuki Inaba	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	0.875	BL46XU	P
33	2021A2051	HAXPES analysis of metal oxides	Yasutaka Nishi	Nikon Corporation	Japan	Industry	Industrial Applications	0.5	BL46XU	P
34	2021A2057	Structural analysis of crystalline ionic conductors	Naoki Matsui	Tokyo Institute of Technology	Japan	Educational Organization	Industrial Applications	0.25	BL19B2	P
35	2021A2058	XAFS of Lithium ion battery	Zhendong Zhang	Fudan University	China	Foreign	Industrial Applications	0.25	BL14B2	P
36	2021A2059	Measurement of particle size and shape of water-soluble acrylic polymer2	Atsuhiko Kunishige	UBE Scientific Analysis Laboratory, Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
37	2021A2060	XAFS anaysis for rubber	Takayuki Saito	Zeon Corporation	Japan	Industry	Industrial Applications	0.75	BL14B2	P
38	2021A2061	Crystal structure analysis of materials for lithium ion battery using XRD.	Shugo Yamada	Panasonic Corporation	Japan	Industry	Industrial Applications	1	BL19B2	P
39	2021A2064	Valence change of manganese in magnesiased manganese dioxide	Tomoya Kawaguchi	Tohoku University	Japan	Educational Organization	Industrial Applications	0.25	BL14B2	P
40	2021A2065	Evaluation of Emulsions	Yozo Kudo	Kobayashi Pharmaceutical Co., Ltd.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
41	2021A2066	XAFS measurement of Ru compounds	Shogo Suehiro	Sumika Chemical Analysis Service, Ltd.	Japan	Industry	Industrial Applications	0.25	BL14B2	P
42	2021A2067	synchrotron powder x-ray diffraction measurements	Kazunori Fukuda	Kobelco Research Institute, Inc.	Japan	Industry	Industrial Applications	0.25	BL19B2	P

# 2021A, Performed Feasibility Study Proposals for Industrial Application

1Shift =8Hours

S/N	Proposal Number	Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/ Non-proprietary(Np)
1	2021A2014	Trial measurements of battery cells by in-situ X-ray diffraction.	Masayuki Inaba	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	0.25	BL19B2	P
2	2021A2015	Transmission XAFS test measurement for lithium ion battery	Ryo Osone	KYOCERA Corporation	Japan	Industry	Industrial Applications	0.125	BL14B2	P
3	2021A2020	High-resolution X-ray CT imaging test of metal contact interface Part 2	Junishi Nakamura	Honda Motor Co., Ltd.	Japan	Industry	Industrial Applications	0.25	BL46XU	P
4	2021A2022	Internal structure observation of lithium ion battery using x-ray computed tomography	Ryo Osone	KYOCERA Corporation	Japan	Industry	Industrial Applications	0.25	BL46XU	P
5	2021A2048	X-ray Laminography of Electronic Components	Takashi Kouzaki	Panasonic Corporation	Japan	Industry	Industrial Applications	0.25	BL46XU	P
6	2021A2055	Trial measurements of carbon electrode by transmission mode X-ray diffraction.	Masayuki Inaba	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	0.25	BL19B2	P

# 2021A, Performed Non-Proprietary Grant-Aided Proposals

1Shift =8Hours

S/N	Proposal Number	Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/ Non-proprietary(Np)
1	2021A1002	Tomography for bridging nano and macro: semi-spontaneous interfacial debonding	Hiroyuki Toda	Kyushu University	Japan	Educational Organization	Materials Science and Engineering	12	BL20XU	Np
2	2021A1003	3D Structural analyses of deformation of epoxy/polyethersulfone (PES) blend adhesives before and after lap-searing using microscopic X-ray CT imaging	Takuya Matsumoto	Kobe University	Japan	Educational Organization	Chemical Science	9	BL20XU	Np
3	2021A1004	Protein Crystallographic Analyses on 'Platform Project for Supporting Drug Discovery and Life Science Research(BINDS)'	Masaki Yamamoto	RIKEN	Japan	National and Nonprofit Organization	Life Science	27	BL41XU	Np
4	2021A1005	Operando X-ray CT analysis on all-solid-state lithium battery electrode	Yuki Orikasa	Ritsumeikan University	Japan	Educational Organization	Chemical Science	3	BL20XU	Np
5	2021A1006	Structural analysis of semiclathrate hydrate (crystal)	Hironobu Machida	Panasonic Corporation	Japan	Industry	Materials Science and Engineering	3	BL02B1	Np
6	2021A1007	Structural analysis of semiclathrate hydrate (crystal) clusters	Hironobu Machida	Panasonic Corporation	Japan	Industry	Materials Science and Engineering	3	BL05XU	Np
7	2021A1008	operando soft X-ray absorption spectroscopy study of PtCo-based alloy catalyst for Polymer Electrolyte Fuel Cell	Hideto Imai	NISSAN ARC, LTD.	Japan	Industry	Chemical Science	11.625	BL27SU	Np
8	2021A1009	Electronic structure analysis of sulfonic group in ionomer for polymer electrolyte fuel cells by S K-edge X-ray absorption spectroscopy	Hideto Imai	NISSAN ARC, LTD.	Japan	Industry	Chemical Science	9	BL27SU	Np
9	2021A1010	Radical Quencher Distribution Analysis in Polymer Electrolyte Membrane of PEM Fuel Cells using operando Micro-beam X-ray Fluorescence Spectroscopy	Hideto Imai	NISSAN ARC, LTD.	Japan	Industry	Chemical Science	18	BL37XU	Np
10	2021A1011	Fundamental examination of $\mu$ CT for renal uranium distribution	Shino Takeda	National Institutes for Quantum Science and Technology	Japan	National and Nonprofit Organization	Medical Applications	3	BL20B2	Np
11	2021A1012	Evaluation of molecular aggregation state in Nafion membrane and elucidation of its degradation behavior	Hideto Imai	NISSAN ARC, LTD.	Japan	Industry	Chemical Science	15	BL40B2	Np
12	2021A1013	Fundamental examination of quantitative local analysis for cellular uranium	Shino Takeda	National Institutes for Quantum Science and Technology	Japan	National and Nonprofit Organization	Life Science	6	BL37XU	Np
13	2021A1014	Structure analysis of polymer electrolyte fuel cell catalyst by X-ray total scattering (1)	Hideto Imai	NISSAN ARC, LTD.	Japan	Industry	Chemical Science	17.625	BL04B2	Np
14	2021A1015	Visualizing Liquid Water in PEFC using Compton Scattering Imaging (1)	Hideto Imai	NISSAN ARC, LTD.	Japan	Industry	Chemical Science	18	BL28B2	Np
15	2021A1016	High-resolution X-ray CT Measurement of Cathode of All Solid-state Lithium-ion Battery Under High Pressure Condition for Numerical Simulation	Manabu Kodama	Tokyo Institute of Technology	Japan	Educational Organization	Industrial Applications	6	BL20XU	Np
16	2021A1017	High-resolution X-ray CT Measurement of Anode of All Solid-state Lithium-ion Battery Under High Pressure Condition for Numerical Simulation 2	Manabu Kodama	Tokyo Institute of Technology	Japan	Educational Organization	Industrial Applications	6	BL47XU	Np
17	2021A1018	Atomic imaging around point defects in magnesium silicide based thermoelectric materials revealed by photoelectron holography	Tomohiro Matsushita	Nara Institute of Science and Technology	Japan	Educational Organization	Materials Science and Engineering	9	BL25SU	Np
18	2021A1019	Elucidation of the thermodynamic behavior of constituent phases in Nd-Fe-B magnets by high-temperature in-situ X-ray diffraction and computational calculation	Satoshi Hirosawa	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	6	BL02B2	Np
19	2021A1020	Soft-X-ray MCD microscopy study of the magnetization reversal process around tiny magnetic secondary phases in Nd-Fe-B sintered magnets at elevated temperatures	Satoshi Hirosawa	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	21	BL25SU	Np
20	2021A1022	Clarification of interfacial phenomenon between anode and electrolyte during magnesium metal deposition reaction via operando soft x-ray absorption spectroscopy	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	9	BL27SU	Np

S/N	Proposal Number	Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/ Non-proprietary(Np)
21	2021A1023	Aggregation Structure of Polymer Films under Various Gas Atmosphere	Ken Kojio	Kyushu University	Japan	Educational Organization	Chemical Science	6	BL40XU	Np
22	2021A1024	Investigation on hyper-ordered structures in rocksalt-type high-entropy cathodes for Li-ion batteries	Naoto Kitamura	Tokyo University of Science	Japan	Educational Organization	Chemical Science	6	BL04B2	Np
23	2021A1025	Pair distribution function analysis of fuel cell catalysts for oxygen reduction reaction	Satoshi Tominaka	National Institute for Materials Science	Japan	National and Nonprofit Organization	Materials Science and Engineering	17.875	BL04B2	Np
24	2021A1026	Direct observation of Li metal dendrite growth inside all-solid-state lithium battery using operando X-ray imaging method	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	24	BL20XU	Np
25	2021A1027	Three-dimentional structural analysis inside large scale battery cell using computed tomography	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	9	BL28B2	Np
26	2021A1028	X-ray diffraction study of electrocatalysts for oxygen evolution reaction(4)	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	6	BL02B2	Np
27	2021A1029	X-ray Emission Spectroscopy study of the catalyst for water electrolysis	Yoshiharu Uchimoto	Kyoto University	Japan	Educational Organization	Chemical Science	9	BL27SU	Np
28	2021A1030	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
29	2021A1031	Investigation of Pt-based alloy catalyst ink for polymer electrolyte fuel cells via total X-ray scattering	Tomoki Uchiyama	Kyoto University	Japan	Educational Organization	Chemical Science	2	BL04B2	Np
30	2021A1032	Operando XAS study on the oxygen reduction reaction activity of PEFC nanowire catalyst	Tomoki Uchiyama	Kyoto University	Japan	Educational Organization	Chemical Science	17.25	BL37XU	Np
31	2021A1033	Nondestructive high-energy synchrotron radiation XRF analysis of "Ryugu" sample collected by Asteroid Explorer Hayabusa2	Izumi Nakai	Tokyo University of Science	Japan	Educational Organization	Earth and Planetary Science	3	BL08W	Np
32	2021A1034	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
33	2021A1035	Characterizations of "Ryugu" sample collected by Hayabusa2 using combined SR X-ray analytical technique	Izumi Nakai	Tokyo University of Science	Japan	Educational Organization	Earth and Planetary Science	6	BL37XU	Np
34	2021A1036	Elucidation of the depth-dependent conformational structure of polymer chain at the polymer-based adhesive interface using soft X-ray absorption spectroscopy	Hiroyuki Yamane	RIKEN	Japan	National and Nonprofit Organization	Chemical Science	6	BL27SU	Np
35	2021A1038	Structural characterization of intermetallic compounds in alloy-supported catalysts and its correlation with activity	Yasushi Sekine	Waseda University	Japan	Educational Organization	Industrial Applications	6	BL14B2	Np
36	2021A1039	In-situ diffraction experiments during deformation for controlling different deformation modes in metallic materials III	Nobuhiro Tsuji	Kyoto University	Japan	Educational Organization	Industrial Applications	3	BL46XU	Np
37	2021A1040	Structure analysis of polymer electrolyte fuel cell catalyst by X-ray diffraction	Hidetoto Imai	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	6	BL19B2	Np
38	2021A1041	Structure analysis of polymer electrolyte fuel cell catalyst by hard X-ray photoelectron spectroscopy	Hidetoto Imai	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	6	BL46XU	Np
39	2021A1042	Structure analysis of polymer electrolyte fuel cell catalyst by operando X-ray absorption spectroscopy	Hidetoto Imai	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	6	BL14B2	Np
40	2021A1043	In-situ analysis on work hardening behavior of ultrafine eqiaxed grained martensite + austenite 5Mn steels based on cementite metallurgy and 3D additive manufactured Hastelly X alloy with excellent strength and ductility	Shiro Torizuka	University of Hyogo	Japan	Educational Organization	Industrial Applications	3	BL46XU	Np
41	2021A1617	Fine structure analysis of bimetallic catalyst for carbon dioxide conversion	Yasushi Sekine	Waseda University	Japan	Educational Organization	Industrial Applications	6	BL14B2	Np
42	2021A1618	In-situ diffraction experiments during deformation for controlling different deformation modes in metallic materials IV	Nobuhiro Tsuji	Kyoto University	Japan	Educational Organization	Industrial Applications	4	BL46XU	Np



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43	2021A1619	Electronic states and structures analysis of metal nanoparticle catalysts by XAFS	Suguru Fukazawa	Research Association of High-Throughput Design and Development for Advanced Functional Materials	Japan	Industry	Industrial Applications	6	BL14B2	Np
44	2021A1620	Elucidation of the electron state and local fine structure of metal active site on various ultra-small metal cluster supported catalyst based on multinuclear metal oxide cluster as precursors. We want to elucidate the ligand and ensemble effect, and metal-support interaction before/after the reaction.	Kazuya Yamaguchi	The University of Tokyo	Japan	Educational Organization	Industrial Applications	3	BL14B2	Np
45	2021A1621	In-situ analysis on work hardening behavior of 3D additive manufactured Inconel 718 Ni alloy Hastelly X Ni alloy	Shiro Torizuka	University of Hyogo	Japan	Educational Organization	Industrial Applications	2	BL46XU	Np
46	2021A1663	Change in volume fraction of Si phase by laser irradiation and annealing conditions in additively manufactured Al-Si alloy	Hiroki Adachi	University of Hyogo	Japan	Educational Organization	Industrial Applications	2.625	BL19B2	Np
47	2021A1664	Exploration on the mechanism of the degradation process of non-noble-metal catalysts for the water-splitting reaction	Ryuhei Nakamura	RIKEN	Japan	National and Nonprofit Organization	Industrial Applications	3	BL14B2	Np
48	2021A1665	Structure analysis of polymer electrolyte fuel cell catalyst by X-ray diffraction	Hideto Imai	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	3	BL19B2	Np
49	2021A1666	Structure analysis of polymer electrolyte fuel cell catalyst by hard X-ray photoelectron spectroscopy	Hideto Imai	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	3	BL46XU	Np
50	2021A1667	Structure analysis of polymer electrolyte fuel cell catalyst by operando X-ray absorption spectroscopy	Hideto Imai	NISSAN ARC, LTD.	Japan	Industry	Industrial Applications	3	BL14B2	Np
51	2021A1668	Operando XAS study on the oxygen reduction reaction activity of PEFC nanowire alloy catalyst	Tomoki Uchiyama	Kyoto University	Japan	Educational Organization	Industrial Applications	6	BL14B2	Np
52	2021A1669	In-situ analysis on work hardening behavior of 3D additive manufactured Hastelly X Ni alloy	Shiro Torizuka	University of Hyogo	Japan	Educational Organization	Industrial Applications	2	BL46XU	Np

# 2021A, Performed Long-term Proposals

1Shift =8Hours

S/N	Proposal Number	Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/ Non-proprietary(Np)
1	2021A0159	Advanced Structural Materials Science using high energy X-ray with two dimensional detector.	Eiji Nishibori	University of Tsukuba	Japan	Educational Organization	Materials Science and Engineering	27	BL02B1	Np
2	2021A0164	Development of tender X-ray ptychography and its application	Yukio Takahashi	Tohoku University	Japan	Educational Organization	Beamline Engineering	21	BL27SU	Np
3	2021A0165	Initial analysis of Hayabusa2 samples using X-ray tomography; development and evaluation of the analytical method and actual analysis.	Akira Tsuchiyama	Ritsumeikan University	Japan	Educational Organization	Earth and Planetary Science	15	BL20XU	Np
4	2021A0166	Initial analysis of Hayabusa2 samples using X-ray tomography; development and evaluation of the analytical method and actual analysis.	Akira Tsuchiyama	Ritsumeikan University	Japan	Educational Organization	Earth and Planetary Science	27	BL47XU	Np
5	2021A0168	Structure Elucidation and Functionalization of Self-Assembled Gigantic Hollow Complexes by Single-Crystal Synchrotron X-ray Study	Makoto Fujita	The University of Tokyo	Japan	Educational Organization	Chemical Science	11.25	BL26B1	Np
6	2021A0171	Crystal structure analysis of membrane transporters	Chikashi Toyoshima	The University of Tokyo	Japan	Educational Organization	Life Science	18	BL41XU	Np
7	2021A0172	Initiation and growth mechanisms of small internal cracks of high strength materials in the very high cycle fatigue	Takashi Nakamura	Hokkaido University	Japan	Educational Organization	Materials Science and Engineering	24	BL20XU	Np
8	2021A0174	Development of micro-XRF-XAFS study for geo- and cosmo-chemical samples: extention to higher energy region and introduction of transition-edge sendor detector	Yoshio Takahashi	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	6	BL01B1	Np
9	2021A0176	Development of multi-beam 4D X-ray tomography with a ms-order temporal resolution and its applications	Wataru Yashiro	Tohoku University	Japan	Educational Organization	Life Science	27	BL28B2	Np
10	2021A0180	Development of micro-XRF-XAFS study for geo- and cosmo-chemical samples: extention to higher energy region and introduction of transition-edge sendor detector	Yoshio Takahashi	The University of Tokyo	Japan	Educational Organization	Earth and Planetary Science	35.875	BL37XU	Np

## 2021A, Performed Priority Research Proposals: Partner User Proposals

1Shift =8Hours

S/N	Proposal Number	Proposal Title	Project Leader	Affiliation	Country	Affiliation Category	Research Category	Shift	Beamline	Proprietary(P)/ Non-proprietary(Np)
1	2021A0067	Advancement of ambient pressure solution cell development and observation of liquid electronic state, for elucidation of solid-liquid interface phenomena	Eiji Ikenaga	Nagoya University	Japan	Educational Organization	Chemical Science	42	BL47XU	Np
2	2021A0068	High-energy X-ray multi-purpose one-dimensional diffraction for the materials science research under external fields	Chikako Moriyoshi	Hiroshima University	Japan	Educational Organization	Materials Science and Engineering	39	BL02B2	Np
3	2021A0069	Advancement of science for understanding dynamics of the Earth's deep interior utilizing large-volume press	Yoshio Kono	Ehime University	Japan	Educational Organization	Earth and Planetary Science	42	BL04B1	Np
4	2021A0070	Study of orbital physics by precise electron density analysis including operant measurements	Hiroshi Sawa	Nagoya University	Japan	Educational Organization	Materials Science and Engineering	41.125	BL02B1	Np
5	2021A0072	Novel development of high-pressure and high-temperature diamond-anvil cell experiments	Kei Hirose	Tokyo Institute of Technology	Japan	Educational Organization	Earth and Planetary Science	42	BL10XU	Np