最近 SPring-8 もしくは SACLA から発表された成果リスト

公益財団法人高輝度光科学研究センター
利用推進部

SPring-8 もしくは SACLA において実施された研究課題等の成果が公表された場合は JASRI の成果登録データベースに登録していただくことになっており、その内容は以下の URL（SPring-8 論文データベース検索ページ）で検索できます。

http://www.spring8.or.jp/ja/science/publication_database/

このデータベースに登録された原著論文の内、2022 年 1 月〜3 月に登録されたものを以下に紹介します。論文の情報（主著者、巻、発行年、ページ、タイトル）に加え、データベースの登録番号（研究成果番号）を掲載していますので、詳細は上記検索ページの検索結果画面でご覧いただくことができます。また実施された課題の情報（課題番号、ビームライン、実験責任者名）も掲載しています。課題番号は最初の 4 文字が「year」、次の 1 文字が「term」、後ろの 4 文字が「proposal no.」となっていますので、この情報から以下の URL で公表している、各課題の英文利用報告書（SPring-8 User Experiment Report）を探してご覧いただくことができます。

http://www.spring8.or.jp/ja/news_publications/publications/user_exp_report/

今後も利用者情報には発行月の 2 ヶ月前の月末締めで、前号掲載分以降に登録された論文情報を掲載していく予定です。なお、データベースは毎日更新されていますので、最新情報は SPring-8 論文データベース検索ページでご確認ください。なお、実験責任者の方には、成果が公表されましたら速やかに登録いただきますようお願いいたします。

SPring-8 研究成果登録データベースに 2022 年 1 月〜3 月に登録された論文が掲載された主な雑誌と掲載論文数

掲載雑誌	登録論文数	掲載雑誌	登録論文数
Physical Review B	11	Acta Crystallographica Section D	4
Nature Communications	8	Biochemical and Biophysical Research Communications	4
Japanese Journal of Applied Physics	7	Chemical Communications	4
Scientific Reports	7	Chemical Science	4
Proceedings of the National Academy of Sciences of the United States of America	6	Journal of Applied Physics	4
		The Journal of Physical Chemistry C	4
Acta Crystallographica Section F	5	Langmuir	4
Inorganic Chemistry	5	Physical Chemistry Chemical Physics	4
Journal of the American Chemical Society	5	Polymer	4
Journal of the Physical Society of Japan	5	RSC Advances	4

他全 177 誌、計 314 報

（注意）グループ課題として設定されている課題群については、その論文がグループ課題の中の複数の課題の成果である場合でも、代表課題となっている課題番号のみ表示しています。グループ課題に複数のビームラインの課題が含まれる場合、代表課題が複数のビームラインで実施されたように表示されています。

課題の成果として登録された論文

Physical Review B

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
42922	Mitsuru Tsukagoshi	105 (2022) 014428	2019A3786	BL22XU	松村 武	Competition between Helimagnetic and Ferroquadrupolar Ordering in a Monoaxial Chiral Magnet $DyNi_3Ga_9$ Studied by Resonant X-ray Diffraction
42943	T. Fukasawa	103 (2021) 205405	2018B3843	BL23SU	平原 徹	Absence of Ferromagnetism in $MnBi_2Te_4/Bi_2Te_3$ down to 6 K
			2019B3843	BL23SU	平原 徹	
			2020A3843	BL23SU	平原 徹	
43011	Kou Takubo	104 (2021) 205110	2018B7579	BL07LSU	Zhang Yujun	6-GHz Lattice Response in a Quantum Spin-orbital Liquid Probed by Time-resolved Resonant X-ray Scattering
			2018B7577	BL07LSU	田久保 耕	
			2015A7401	BL07LSU	松田 巌	
43014	Kento Katagiri	105 (2022) 054103	2020A8048	BL3	奥地 拓生	Hugoniot Equation-of-State and Structure of Laser-Shocked Polyimide $C_{22}H_{10}N_2O_5$
			2020A8033	BL3	尾崎 典雅	
43103	Hiroaki Tanaka	105 (2022) L121102	2020A1181	BL25SU	黒田 健太	Large Anomalous Hall Effect Induced by Weak Ferromagnetism in the Noncentrosymmetric Antiferromagnet $CoNb_3S_6$
43111	Jack Binns	99 (2019) 220101(R)	2017A1062	BL10XU	Howie Ross	Reactivity of Lithium and Platinum at Elevated Densities
			2018A1041	BL10XU	Howie Ross	
43115	Manabu Shiomi	105 (2022) L041103	2020A1059	BL04B2	片山 尚幸	Charge-ordered State Satisfying the Anderson Condition in $LiRh_2O_4$ Arising from Local Dimer Order
			2019B1072	BL04B2	片山 尚幸	
			2019B1073	BL02B2	片山 尚幸	
			2019A1218	BL04B2	片山 尚幸	
43116	Alexander B. Shick	103 (2021) 125136	2019A3811	BL23SU	藤森 伸一	UTe_2: A nearly Insulating Half-filled $j = 5/2\ 5f^3$ Heavy-fermion Metal
43120	Ikuto Kawasaki	104 (2021) 165124	2019B3811	BL23SU	藤森 伸一	Electronic Structure of the Intermediate-valence Compound $EuNi_2P_2$ Studied by Soft X-ray Photoemission Spectroscopy
43169	Satoshi Ishizaka	105 (2022) L121103	2019B1341	BL25SU	木村 昭夫	Evidence for Dirac Nodal-line Fermions in a Phosphorous Square-net Superconductor
			2020A0803	BL25SU	木村 昭夫	
			2021A1329	BL25SU	木村 昭夫	
43204	Shin-ichi Fujimori	105 (2022) 115128	2015B3820	BL23SU	藤森 伸一	Electronic Structure of $ThPd_2Al_3$: Impact of the U 5f States on the Electronic Structure of UPd_2Al_3

Nature Communications-1

42833	Sonomi Yamaguchi	11 (2020) 858	2018A0153	BL41XU	濡木 理	Crystal Structure of *Drosophila* Piwi
			理研	BL32XU		
42834	Seiichi Hirano	10 (2019) 1968	2018A0153	BL41XU	濡木 理	Structural Basis for the Promiscuous PAM Recognition by *Corynebacterium diphtheriae* Cas9
42919	Tomoyuki Yoshida	12 (2021) 1848	2014A1294	BL41XU	深井 周也	Canonical Versus Non-canonical Transsynaptic Signaling of Neuroligin 3 Tunes Development of Sociality in Mice
			2014B1357	BL41XU	深井 周也	
			2015A1107	BL41XU	深井 周也	
			2016A2556	BL41XU	深井 周也	
43090	Kenshi Matsumoto	13 (2022) 1047	2018A1666	BL13XU	松本 憲志	Inter-element Miscibility Driven Stabilization of Ordered Pseudo-binary Alloy
			2016B0908	BL01B1	若林 裕助	
			2018B1119	BL01B1	高畑 遼	
			2018B1422	BL01B1	山添 誠司	
			2020A1547	BL01B1	高畑 遼	
			2020A1571	BL04B2	松本 憲志	
			2020A1596	BL02B2	佐藤 良太	
			2021A1506	BL01B1	高畑 遼	
			2021A1380	BL01B1	高畑 遼	
			2021B1708	BL02B2	佐藤 良太	
43210	Hui Zhang	12 (2021) 4151	2018A2531	BL41XU	Wu Beili	Structural Basis for Chemokine Recognition and Receptor Activation of Chemokine Receptor CCR5
			2018A2527	BL41XU	Zhao Qiang	
			2019A2543	BL41XU	Wu Beili	
			2019A2541	BL41XU	Zhao Qiang	
43211	Tong Chen	11 (2020) 1208	2018A2527	BL41XU	Zhao Qiang	Structural Basis of Ligand Binding Modes at the Human Formyl Peptide Receptor 2
			2018A2531	BL41XU	Wu Beili	
			2019A2543	BL41XU	Wu Beili	
43213	Tingting Tang	12 (2021) 737	2019A2543	BL41XU	Wu Beili	Structural Basis for Ligand Recognition of the Neuropeptide Y Y_2 Receptor
			2019A2541	BL41XU	Zhao Qiang	

Nature Communications-2

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43263	Zhujun Zhang	13 (2022) 1499	2020A1208	BL04B2	立川 貴士	Binary Dopant Segregation Enables Hematite-based Heterostructures for Highly Efficient Solar H_2O_2 Synthesis
			2020A1209	BL01B1	立川 貴士	
			2021A1113	BL01B1	立川 貴士	
			2021A1114	BL04B2	立川 貴士	

Japanese Journal of Applied Physics

42999	Takuma Nanjo	61 (2022) SC1015	2019B5130	BL16XU	今澤 貴史	Design and Demonstration of EID MOS-HEMTs on Si Substrate with Normally Depleted AlGaN/GaN Epitaxial Layer
			2020A5131	BL16XU	今澤 貴史	
			2021A5130	BL16XU	今澤 貴史	
43024	Yoshihiro Saito	61 (2022) 031005	2019A5030	BL16XU	斎藤 吉広	XPS and HAXPES Analyses for Pre-sputtered InP Surface and InP/Pt Interface
			2019B5030	BL16XU	上村 重明	
43108	Yutaka Hoshina	61 (2022) 046501	2021A5032	BL16XU	徳田 一弥	Non-destructive Depth Profile Evaluation of Multi-layer Thin Film Stack using Simultaneous Analysis of Data from Multiple X-ray Photoelectron Spectroscopy Instruments
43123	Yasushi Nanishi	61 (2022) SA0810	2018B3590	BL11XU	山口 智広	Plasma-excited MBE—Proposal and Achievements through R&D of Compound Semiconductor Materials and Devices
			2018A3590	BL11XU	山口 智広	
			2017B3583	BL11XU	山口 智広	
43171	Masaya Morita	61 (2022) SC1071	2016B4602	BL15XU	長田 貴弘	Effect of Reactive Gas Condition on Nonpolar AlN Film Growth on MnS/Si (100) by Reactive DC Sputtering
			2017B4601	BL15XU	長田 貴弘	
			2019A4601	BL15XU	長田 貴弘	
			2020A4602	BL15XU	長田 貴弘	
43172	Alexandra Papadogianni	61 (2022) 045502	2018A4601	BL15XU	長田 貴弘	The Electrical Conductivity of Cubic $(In_{1-x}Ga_x)_2O_3$ Films ($x \leq$ 0.18): Native Bulk Point Defects, Sn-doping, and the Surface Electron Accumulation Layer
			2018B4600	BL15XU	長田 貴弘	
			2019B4602	BL15XU	長田 貴弘	
43261	Wakana Takeuchi	61 (2022) SC1072	2020A1478	BL13XU	竹内 和歌奈	Visualization of Local Strain in 4H-SiC Trench Metal-oxide-semiconductor Field-effect Transistor using Synchrotron Nanobeam X-ray Diffraction
			2021A1453	BL13XU	竹内 和歌奈	

Proceedings of the National Academy of Sciences of the United States of America

42877	Shyam R. Iyer	118 (2021) e2022379118	2016B1136	BL09XU	Solomon Edward	Direct Coordination of Pterin to Fe^{II} Enables Neurotransmitter Biosynthesis in the Pterin-dependent Hydroxylases
			2017A0137	BL09XU	Solomon Edward	
42896	Shin Kawano	106 (2009) 14403-11407	2008B1273	BL38B1	河野 慎	Structural Basis of Yeast Tim40/Mia40 as an Oxidative Translocator in the Mitochondrial Intermembrane Space
42916	Yuko Fukuta	118 (2021) e2022580118	2020A2613	BL45XU	深井 周也	LGI1–ADAM22–MAGUK Configures Transsynaptic Nanoalignment for Synaptic Transmission and Epilepsy Prevention
43019	Keqiong Ye	106 (2009) 13808-13813	2007A1433	BL41XU	Ye Keqiong	Structural Organization of Box C/D RNA-guided RNA Methyltransferase
43067	Toshiaki Hosaka	119 (2022) e2117433119	2017A8028	BL3	白水 美香子	Conformational Alterations in Unidirectional Ion Transport of a Light-driven Chloride Pump Revealed using X-ray Free Electron Lasers
			2017B8023	BL2	白水 美香子	
			2018A8012	BL2	白水 美香子	
			2018B8073	BL2	白水 美香子	
			2019A8034	BL2	白水 美香子	
			2017A8019	BL3	岩田 想	
			2017B8022	BL2	岩田 想	
			2018A8023	BL2	岩田 想	
			2019A8013	BL2	南後 恵理子	
43166	Yu Zhang	119 (2022) e2119616119	2017B8066	BL3	Bergmann Uwe	Generation of Intense Phase-stable Femtosecond Hard X-ray Pulse Pairs

Scientific Reports-1

42881	Hideki Hashimoto	12 (2022) 516	2016A0130	BL04B2	小原 真司	Structure of Alumina Glass
42998	Tetsuo Narita	12 (2022) 1458	2018B5370	BL16B2	山口 聡	Identification of Type of Threading Dislocation Causing Reverse Leakage in GaN p–n Junctions after Continuous forward Current Stress
			2019A5370	BL16B2	山口 聡	
			2019B5370	BL16B2	山口 聡	
			2020A5370	BL16B2	山口 聡	
			2019B1042	BL20B2	兼近 将一	
			2020A1039	BL20B2	兼近 将一	
43075	Mitsuharu Yonemura	12 (2022) 2237	2018A8003	BL3	米村 光治	Fine Microstructure Formation in Steel under Ultrafast Heating and Cooling
			2018B8013	BL3	米村 光治	
			2019A8005	BL3	米村 光治	
			2019B8004	BL3	米村 光治	
			2020A8001	BL3	米村 光治	

Scientific Reports-2

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43101	Yuta Saito	11 (2021) 4782	2019B1324	BL01B1	Fons Paul	Dimensional Transformation of Chemical Bonding during Crystallization in a Layered Chalcogenide Material
			2017A1383	BL01B1	Fons Paul	
43254	Michal W. Kepa	12 (2022) 5349	2019B1570	BL40XU	富崎 孝司	Acoustic Levitation and Rotation of Thin Films and Their Application for Room Temperature Protein Crystallography
			2019A1189	BL40XU	富崎 孝司	
			2018B1220	BL40XU	富崎 孝司	
43280	Yu Bai	11 (2021) 15870	2017B1891	BL46XU	辻 伸泰	Unique Transition of Yielding Mechanism and Unexpected Activation of Deformation Twinning in Ultrafine Grained Fe-31Mn-3Al-3Si Alloy
			2016A1520	BL46XU	國峯 崇裕	
			2018A1031	BL46XU	辻 伸泰	
			2021A1039	BL46XU	辻 伸泰	
			2021A1618	BL46XU	辻 伸泰	

Inorganic Chemistry

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
42885	Kentaro Aoki	60 (2021) 16029-16034	2019A1180	BL02B1	北川 宏	Synthesis and Magnetic Properties of a Dimerized Trinuclear Ni String Complex, $[Ni_6Cl_2(dpa)_8](I_5)_2 \cdot 0.25I_2$ ($dpa^- = 2,2'$-Dipyridylamide Anion)
			2019B1380	BL02B1	北川 宏	
			2020A1199	BL02B1	北川 宏	
42898	Yoshiyuki Inaguma	61 (2022) 1728-1734	2019A1544	BL02B2	稲熊 宜之	Exploratory Synthesis for Complex Metal Fluorides Using Solid-State Fluorine Sources
			2019B1549	BL02B2	植田 紘一郎	
			2020A1393	BL02B2	稲熊 宜之	
			2021B1409	BL02B2	稲熊 宜之	
42928	Daiki Umeyama	61 (2022) 1697-1703	2016B1110	BL04B2	冨中 悟史	Postsynthetic Defect Formation in Three-Dimensional Hofmann-Type Coordination Polymers and Its Impact on Catalytic Activity
			2021A1025	BL04B2	冨中 悟史	
42991	Tomoya Taguchi	60 (2021) 3585-3592	2018B4140	BL12B2	久保園 芳博	Emergence of a Pressure-Driven Superconducting Phase in $Ba_{0.77}Na_{0.23}Ti_2Sb_2O$
			2019A4131	BL12B2	久保園 芳博	
43068	Hitoshi Yusa	61 (2022) 2568-2575	2018B4503	BL15XU	遊佐 斉	High-Pressure Synthesis of Light Lanthanide Dodecaborides (PrB_{12} and CeB_{12}): Effects of Valence Fluctuation on Volume and Formation Pressure
			2018B1201	BL04B2	遊佐 斉	
			2019B1230	BL10XU	遊佐 斉	
			2019B4504	BL15XU	遊佐 斉	
			2019B1231	BL04B2	遊佐 斉	
			2020A1379	BL10XU	遊佐 斉	
			2020A0636	BL10XU	遊佐 斉	
			2016B1260	BL04B2	遊佐 斉	
			2018B1200	BL10XU	遊佐 斉	

Journal of the Physical Society of Japan

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
42860	Shigenori Ueda	91 (2022) 024801	2018B4606	BL15XU	上田 茂典	Polarization-dependent Bulk-sensitive Valence Band Photoemission Spectroscopy and Density Functional Theory Calculations: Part III. 5*d* Transition Metals
			2019A4604	BL15XU	上田 茂典	
			2019B4606	BL15XU	上田 茂典	
43058	Junya Kogo	91 (2022) 034702	2016A3832	BL23SU	藤原 秀紀	Mn $L_{2,3}$-edge EXAFS and Magnetic EXAFS Studies on the Halfmetallic Ferromagnet Co_2MnSi
43118	Shin-ichi Fujimori	90 (2021) 015002	2019A3811	BL23SU	藤森 伸一	Core-Level Photoelectron Spectroscopy Study of UTe_2
43119	Ikuto Kawasaki	89 (2020) 044704	2019A3811	BL23SU	藤森 伸一	Electronic Structure of Trivalent Compound $EuPd_3$ Studied by Soft X-ray Angle-resolved Photoemission Spectroscopy
43131	Kazuo Soda	91 (2022) 044702	2018B1060	BL43IR	曽田 一雄	Synchrotron-Radiation Infrared Microspectroscopy of Marcasite-Type NiN_2

Chemical Communications

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
42968	Koki Chida	57 (2021) 6007-6010	2020A1604	BL14B2	丸山 純	Force-responsive Ordered Carbonaceous Frameworks Synthesized from Ni-porphyrin
			2020A1254	BL01B1	神谷 和秀	
43023	Masahiro Hayakawa	58 (2022) 2548-2551	2018A1167	BL40XU	笹森 貴裕	Late-stage Modification of π-electron Systems Based on Asymmetric Oxidation of a Medium-sized Sulfur-containing Ring
			2018B1084	BL40XU	笹森 貴裕	
			2019A1057	BL02B1	笹森 貴裕	
			2019B1129	BL02B1	笹森 貴裕	
			2019B1784	BL02B1	早川 雅大	
			2020A0557	BL02B1	菅又 功	
			2020A1056	BL02B1	笹森 貴裕	
			2019B1093	BL02B2	堀毛 悟史	
43146	Shinichiro Kawano	58 (2022) 3274-3277	2021A1232	BL43IR	河野 慎一郎	Mesogenic Discrete Metallofoldamer for Columnar Liquid Crystal
			2021B1127	BL43IR	河野 慎一郎	
43240	Hiroki Iwaizumi	57 (2021) 13700-13703	2020A1660	BL02B2	岩泉 滉樹	Electron Transfer Phase Transition and Oxidization Process in $Na_xCo_{0.44}Mn_{0.56}[Fe(CN)_6]_{0.90}$ ($0.00 \le x \le 1.60$)
			2020A1061	BL02B2	守友 浩	

Chemical Science

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
42972	Hiroki Narita	13 (2022) 1484-1491	2021B1833	BL02B1	成田 皓樹	Fully Fused Boron-doped Polycyclic Aromatic Hydrocarbons: Their Synthesis, Structure–property Relationships, and Self-assembly Behavior in Aqueous Media
43207	Yuya Domoto	13 (2022) 4372-4376	2020A0168	BL26B1	藤田 誠	Amplification of Weak Chiral Inductions for Excellent Control over the Helical Orientation of Discrete Topologically Chiral $(M_3L_2)_n$ Polyhedra
			2021B1246	BL26B1	堂本 悠也	
43218	Michael Mara	13 (2022) 1715-1724	2019B8022	BL3	Mara Michael	Unveiling Ultrafast Dynamics in Bridged Bimetallic Complexes using Optical and X-ray Transient Absorption Spectroscopies
43262	Shusaku Shoji	10 (2019) 3701-3705	2015B4605	BL15XU	長田 実	Topologically Immobilized Catalysis Centre for Long-term Stable Carbon Dioxide Reforming of Methane
			2016A4607	BL15XU	阿部 英樹	
			2016B4600	BL15XU	阿部 英樹	
			2017A4602	BL15XU	阿部 英樹	
			2017B4605	BL15XU	阿部 英樹	
			2018A4600	BL15XU	阿部 英樹	
			2018B4601	BL15XU	阿部 英樹	

Journal of Applied Physics

42850	Takuto Tsukahara	130 (2021) 243904	2019A4254	BL12XU	石渡 洋一	Correlation between Ferromagnetism and Dopant 3*d* Metal-Oxygen Hybridized State Lying at the Bottom of Conduction Band in ZnO-based Diluted Magnetic Semiconductor System
			2019B4129	BL12B2	石渡 洋一	
42872	Tomoya Sato	131 (2022) 035301	2018B4900	BL15XU	舟窪 浩	Domain Structures Induced by Tensile Thermal Strain in Epitaxial $PbTiO_3$ Films on Silicon Substrates
			2019B4905	BL15XU	舟窪 浩	
42942	Yuuki Kitagawa	129 (2021) 183104	2019B1764	BL02B2	新井 一功	Difference of Eu^{3+} Luminescent Properties in YOCl and YOBr Oxyhalide Hosts
43137	Masaki Mito	131 (2022) 105903	2019B1496	BL04B1	堀田 善治	Achieving Superconductivity with Higher T_c in Lightweight Al–Ti–Mg Alloys: Prediction using Machine Learning and Synthesis via High-pressure Torsion Process

The Journal of Physical Chemistry C

42911	Yuta Yasui	126 (2022) 2383-2393	2021A1599	BL02B2	安井 雄太	Oxide-Ion Occupational Disorder, Diffusion Path, and Conductivity in Hexagonal Perovskite Derivatives $Ba_3WNbO_{8.5}$ and $Ba_3MoNbO_{8.5}$
42932	Bing Hu	126 (2022) 1006-1016	2019B7904	BL36XU	朝倉 清高	Abnormal Metal Bond Distances in PtAu Alloy Nanoparticles: *In Situ* Back-Illumination XAFS Investigations of the Structure of PtAu Nanoparticles on a Flat HOPG Substrate Prepared by Arc Plasma Deposition
			2019A7905	BL36XU	朝倉 清高	
			2018B7903	BL36XU	朝倉 清高	
42992	Huan Li	125 (2021) 20617-20625	2018B4140	BL12B2	久保園 芳博	Pressure Dependence of Superconducting Behavior of 4d and 5d Transition Metal Compounds $CaRh_2$ and $CaIr_2$
			2019A4131	BL12B2	久保園 芳博	
43222	Morihisa Saeki	126 (2022) 5607-5616	2018A3655	BL14B1	佐伯 盛久	Dispersive XAFS Study on the Laser-Induced Reduction of a Rh^{3+} Ion Complex: Presence of a Rh^{+} Intermediate in Direct Photoreduction
			2018B3655	BL14B1	佐伯 盛久	
			2019A3655	BL14B1	佐伯 盛久	
			2019B3655	BL14B1	佐伯 盛久	

Journal of the American Chemical Society

42878	Martin Srnec	142 (2020) 18886-18896	2019B1103	BL19LXU	Solomon Edward	Nuclear Resonance Vibrational Spectroscopic Definition of the Facial Triad Fe^{IV}=O Intermediate in Taurine Dioxygenase: Evaluation of Structural Contributions to Hydrogen Atom Abstraction
			2011B1267	BL09XU	Solomon Edward	
42900	Kazuhiro Hikima	144 (2022) 236-247	2017B7610	BL28XU	松原 英一郎	Reaction Mechanism of Li_2MnO_3 Electrodes in an All-Solid-State Thin-Film Battery Analyzed by Operando Hard X-ray Photoelectron Spectroscopy
			2018A7608	BL28XU	松原 英一郎	
			2018A7610	BL28XU	松原 英一郎	
			2018B7610	BL28XU	松原 英一郎	
			2019A7616	BL28XU	安部 武志	
			2019B7616	BL28XU	安部 武志	
43086	Dongshuang Wu	144 (2022) 3365-3369	2020A1162	BL02B2	北川 宏	Noble-Metal High-Entropy-Alloy Nanoparticles: Atomic-Level Insight into the Electronic Structure
			2020A0528	BL02B2	北川 宏	
			2020A4952	BL15XU	草田 康平	
			2020A4905	BL15XU	草田 康平	
43087	Quan Zhang	144 (2022) 4224-4232	2021A1204	BL02B2	草田 康平	Crystal Structure Control of Binary and Ternary Solid-Solution Alloy Nanoparticles with a Face-Centered Cubic or Hexagonal Close-Packed Phase
			2020A1162	BL02B2	北川 宏	

Langmuir

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
42930	Jiayun Han	(2021) Online publication Sep. 23, 2021	2020A0750	BL40B2	佐藤 尚弘	Phase Separation Behavior of Aqueous Poly(*N*-isopropylacrylamide) Solutions Studied by Scattering Experiments
			2018B1155	BL40B2	佐藤 尚弘	
42955	Daiki Murakami	38 (2022) 1090-1098	2018A7561	BL07LSU	村上 大樹	Hydration Mechanism in Blood-Compatible Polymers Undergoing Phase Separation
			2018B7576	BL07LSU	村上 大樹	
43079	Tsukasa Morita	38 (2022) 156-163	2014A1456	BL40B2	吉村 倫一	Effect of Spacer Structures on the Interfacial Adsorption and Micelle Properties of Quaternary Ammonium Salt-Based Gemini Surfactants
			2014B1502	BL40B2	吉村 倫一	
43106	Takuhiro Kakiuchi	38 (2022) 2642-2650	2018B3832	BL23SU	垣内 拓大	Oxidation Mechanisms of Hafnium Overlayers Deposited on an Si(111) Substrate
			2019A3832	BL23SU	垣内 拓大	
			2019B3832	BL23SU	垣内 拓大	
			2020A3832	BL23SU	垣内 拓大	

Physical Chemistry Chemical Physics

42986	Keisuke Shigenobu	23 (2021) 2622-2629	2020A0533	BL04B2	藤井 健太	Anion Effects on Li Ion Transference Number and Dynamic Ion Correlations in Glyme–Li Salt Equimolar Mixtures
			2016A1375	BL04B2	上野 和英	
42993	Yanan Wang	23 (2021) 23014-23023	2018B4140	BL12B2	久保園 芳博	Superconducting Properties of $BaBi_3$ at Ambient and High Pressures
			2019A4131	BL12B2	久保園 芳博	
43138	Zhendong Liu	24 (2022) 4136-4146	2018A0155	BL04B2	脇原 徹	Revealing Scenarios of Interzeolite Conversion from FAU to AEI through the Variation of Starting Materials
43223	Huan Li	24 (2022) 7185-7194	2018B4140	BL12B2	久保園 芳博	Pressure Dependence of Superconductivity in Alkali-Bi Compounds KBi_2 and $RbBi_2$
			2019A4131	BL12B2	久保園 芳博	

Polymer

42940	Jia Yang	214 (2021) 123346	2019B1375	BL40B2	佐藤 尚弘	Transition from the Random Coil to the Flower Necklace of a Hydrophobically Modified Pullulan in Aqueous Solution by Changing the Degree of Substitution
43100	Kairi Miyata	245 (2022) 124671	2018B1454	BL40B2	深尾 浩次	Dielectric Relaxation and Glassy Dynamics in Poly(diisopropyl fumarate) and its Copolymers with Acrylate Segments
			2019A1301	BL40B2	深尾 浩次	
			2017B1119	BL40B2	深尾 浩次	
			2019B1226	BL40B2	深尾 浩次	
43235	Yuya Fukata	234 (2021) 124225	2020A7223	BL03XU	岩田 忠久	Manufacture of Strong Melt-spun Fibers Derived from α-1,3-glucan Esters and Determination of Their Crystal Structures and Crystalline Elastic Moduli
			2019B7270	BL03XU	岩田 忠久	
			2019B1081	BL40B2	岩田 忠久	
			2019A7234	BL03XU	岩田 忠久	
			2019A1213	BL40B2	岩田 忠久	
43257	Ayaka Takazawa	241 (2022) 124528	2019B1347	BL40XU	上原 宏樹	Effect of Blending Small Amount of High-density Polyethylene on Molecular Entanglements during Melt-drawing of Ultrahigh-molecular-weight Polyethylene
			2021B1263	BL40XU	上原 宏樹	

RSC Advances

42914	Cheng Xie	11 (2021) 37604-37611	2019B2719	BL41XU	山中 優	Experimental and Theoretical Study on Converting Myoglobin into a Stable Domain-swapped Dimer by Utilizing a Tight Hydrogen Bond Network at the Hinge Region
			2021A2732	BL45XU	山中 優	
			2018A2722	BL38B1	長尾 聡	
42967	Takashi Yamamoto	12 (2022) 3774-3782	2018A5380	BL16B2	榊 篤史	Hydrothermally Synthesized Poorly-crystalline Binary Oxides with ZrW_2O_8 Composition: Preparation, Structural Analysis, and Catalytic Activity for the Alkylation of Anisole with Benzyl Alcohol
			2018B5380	BL16B2	榊 篤史	
43004	Yuichi Okazaki	12 (2022) 5094-5104	2018B1769	BL14B2	山田 幾也	Highly Active Postspinel-structured Catalysts for Oxygen Evolution Reaction
			2019A1476	BL02B2	山田 幾也	
			2019A1650	BL14B2	山田 幾也	
43139	Yuki Sada	11 (2021) 23082-23089	2020A0687	BL04B2	脇原 徹	Tracking the Crystallization Behavior of High-silica FAU during AEI-type Zeolite Synthesis using Acid Treated FAU-type Zeolite

ACS Applied Materials & Interfaces-1

42965	Ibrahima Gueye	13 (2021) 50481-50490	2019B4601	BL15XU	Gueye Ibrahima	Chemical and Electronic Investigation of Buried $NiO_{1-\delta}$, PCBM, and PTAA/$MAPbI_{3-x}Cl_x$ Interfaces Using Hard X-ray Photoelectron Spectroscopy and Transmission Electron Microscopy
43001	Tomooki Hosaka	12 (2020) 34873-34881	2018B1613	BL46XU	駒場 慎一	Development of KPF_6/KFSA Binary-Salt Solutions for Long-Life and High-Voltage K-Ion Batteries

ACS Applied Materials & Interfaces-2

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43127	Hirosuke Matsui	14 (2022) 6762-6776	2018A7801	BL36XU	岩澤 康裕	*Operando* Imaging of Ce Radical Scavengers in a Practical Polymer Electrolyte Fuel Cell by 3D Fluorescence CT–XAFS and Depth-Profiling Nano-XAFS–SEM/EDS Techniques
			2018A7804	BL36XU	岩澤 康裕	
			2018A7840	BL36XU	岩澤 康裕	
			2018B7801	BL36XU	岩澤 康裕	
			2018B7804	BL36XU	岩澤 康裕	
			2018B7820	BL36XU	唯 美津木	
			2018B7840	BL36XU	岩澤 康裕	
			2019A7801	BL36XU	岩澤 康裕	
			2019A7804	BL36XU	岩澤 康裕	
			2019A7820	BL36XU	唯 美津木	
			2019A7840	BL36XU	岩澤 康裕	
			2019B7801	BL36XU	岩澤 康裕	
			2019B7804	BL36XU	岩澤 康裕	
			2019B7820	BL36XU	唯 美津木	
			2019B7840	BL36XU	岩澤 康裕	

ACS Omega

42970	Mitsuhiro Hirai	5 (2020) 10815-10825	2019A1698	BL40B2	味戸 聡志	Short-Distance Intermolecular Correlations of Mono- and Disaccharides in Condensed Solutions: Bulky Character of Trehalose
43022	Masashi Tanaka	7 (2022) 6375-6380	2020A0846	BL47XU	片岡 範行	Synthetic Route of Layered Titanium Nitride Chloride TiNCl Using Sodium Amide
43129	Koki Hayashida	6 (2021) 26814-26820	2021A3801	BL23SU	吉越 章隆	Revisit of XPS Studies of Supersonic O_2 Molecular Adsorption on Cu(111): Copper Oxides
			2020A3801	BL23SU	吉越 章隆	
			2019B3801	BL23SU	吉越 章隆	
			2019A3831	BL23SU	岡田 美智雄	
			2019A3801	BL23SU	吉越 章隆	
			2018B3831	BL23SU	岡田 美智雄	
			2018B3801	BL23SU	吉越 章隆	
			2018A3831	BL23SU	岡田 美智雄	
			2018A3801	BL23SU	吉越 章隆	
			2017A3801	BL23SU	吉越 章隆	

Acta Crystallographica Section D

42837	Andrea Cellini	77 (2021) 1001-1009	2019A8007	BL2	Schmidt Marius	The Three-dimensional Structure of *Drosophila melanogaster* (6-4) Photolyase at Room Temperature
42888	Ryo Suzuki	78 (2022) 196-203	2016B1976	BL38B1	馬場 清喜	Radiation-induced Defects in Protein Crystals Observed by X-ray Topography
			2017A1854	BL38B1	馬場 清喜	
			2017A2562	BL26B1	馬場 清喜	
			2017A2562	BL38B1	馬場 清喜	
			2018A2537	BL26B1	馬場 清喜	
			2018A2537	BL38B1	馬場 清喜	
			2017B1990	BL41XU	水野 伸宏	
			2018A2075	BL41XU	水野 伸宏	
			2018B2090	BL41XU	水野 伸宏	
42975	Dong-Gyun Kim	77 (2021) 1460-1474	2019A6974	BL44XU	Kim Hyoun Sook	Structural Basis for SdgB- and SdgA-mediated Glycosylation of Staphylococcal Adhesive Proteins
			2019B6974	BL44XU	Kim Hyoun Sook	
			2020A6574	BL44XU	Kim Hyoun Sook	

Acta Crystallographica Section F-1

42848	Hironori Suzuki	64 (2008) 974-977	2006A2695	BL41XU	若槻 壮市	Crystallization and X-ray Diffraction Analysis of N-terminally Truncated Human ALG-2
42852	Yasunobu Wada	64 (2008) 8-13	2006A6501	BL44XU	月原 冨武	The Structure of Melon Necrotic Spot Virus Determined at 2.8 Å Resolution
			2006B6501	BL44XU	月原 冨武	

Acta Crystallographica Section F-2

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
42926	Min Fey Chek	77 (2021) 427-434	2019B2727	BL41XU	Chek Min Fey	Crystal Structure of N-terminal Degron-truncated Human Glutamine Synthetase
			2020A2559	BL45XU	Chek Min Fey	
			2021A2733	BL45XU	金 善龍	
			2015A1086	BL41XU	森 智行	
			2015A6549	BL44XU	森 智行	
			2015B6549	BL44XU	森 智行	
			2016A2510	BL41XU	森 智行	
			2016B2519	BL41XU	平野 良憲	
			2016A6648	BL44XU	森 智行	
			2016B6648	BL44XU	森 智行	
			2017A2502	BL41XU	森 智行	
			2017A6759	BL44XU	森 智行	
			2017B6759	BL44XU	森 智行	
			2018A2503	BL32XU	森 智行	
			2018A2503	BL41XU	森 智行	
			2018A2529	BL41XU	村瀬 浩司	
			2018A2540	BL41XU	平野 良憲	
			2018A6855	BL44XU	森 智行	
			2018B6855	BL44XU	森 智行	
			2019A2516	BL41XU	森 智行	
			2019A2576	BL45XU	平野 良憲	
			2019A6955	BL44XU	森 智行	
			2019B6955	BL44XU	森 智行	
			2020A2543	BL45XU	金 善龍	

Applied Physics Letters

42867	Yoshiharu Ito	120 (2022) 022903	2019A1383	BL13XU	坂田 修身	Polar-axis-oriented Epitaxial Tetragonal (Bi,K)TiO_3 Films with Large Remanent Polarization Deposited Below Curie Temperature by a Hydrothermal Method
			2018B4900	BL15XU	舟窪 浩	
			2019B4905	BL15XU	舟窪 浩	
			2019B4700	BL15XU	坂田 修身	
			2019A4503	BL15XU	坂田 修身	
			2020A4703	BL15XU	坂田 修身	
42978	Yuta Yamamoto	120 (2022) 052905	2020A1546	BL13XU	林 好一	Significant Displacement of Calcium and Barium Ions in Ferroelectric $(Ba_{0.9}Ca_{0.1})TiO_3$ Revealed by X-ray Fluorescence Holography
			2019B1388	BL13XU	林 好一	
			2019A1221	BL13XU	林 好一	
43010	Masae Takahashi	120 (2022) 051104	2018A1198	BL43IR	高橋 まさえ	Terahertz Frequency Shifts Due to Multiphonon Scattering in Thiamin Crystals Containing Hydrated Ions

Biochemical and Biophysical Research Communications

42862	Mayu Yoshida	593 (2022) 73-78	2019A6913	BL44XU	木下 誉富	Identification of a Novel Target Site for ATP-independent ERK2 Inhibitors
42964	Naoki Furubayashi	568 (2021) 131-135	2020A6554	BL44XU	森本 幸生	Dynamic Interactions in the L-lactate Oxidase Active Site Facilitate Substrate Binding at pH4.5
			2021A6645	BL44XU	森本 幸生	
			2019A6956	BL44XU	森本 幸生	
			2019B6956	BL44XU	森本 幸生	
43202	Shigeyuki Matsumoto	565 (2021) 85-90	2017A2583	BL38B1	河村 高志	Oncogenic Mutations Q61L and Q61H Confer Active Form-like Structural Features to the Inactive State (State 1) Conformation of H-Ras Protein
			2016A2515	BL38B1	熊坂 崇	

Chemistry Letters-1

43122	Shuhei Ogata	48 (2019) 593-596	2018B1817	BL02B1	長谷川 美貴	Strong Luminescent Europium Complexes Induced by the Unprecedented Anti-chelate Effect of Acyl Groups on a N^6-Hexadentate Ligand
			2017A1380	BL02B2	石井 あゆみ	
			2017A1648	BL02B2	尾形 周平	
			2017B1268	BL02B2	石井 あゆみ	
			2016A1336	BL02B2	長谷川 美貴	
			2016A1333	BL02B2	石井 あゆみ	
			2016B1342	BL02B2	石井 あゆみ	
			2016B1706	BL02B2	尾形 周平	
			2014B1316	BL02B2	長谷川 美貴	
43164	Shun Tsunekawa	51 (2022) 50-53	2019A1386	BL01B1	吉田 真明	Development of a MnOOH Mineral Electrocatalyst for Water Splitting by Controlling the Surface Defects of a Naturally Occurring Ore
			2020A1360	BL01B1	吉田 真明	

Chemistry Letters-2

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43252	Toshihiro Kondo	(2022) Online published Mar. 18, 2022	2017A4505	BL15XU	近藤 敏啓	*In situ* Grazing Incidence Surface X-ray Diffraction Study of Li_2O Ultra-thin Film Formation on Li and Its Effect of Suppressing Dendrite Formation during Charging and Discharging
			2017B4501	BL15XU	近藤 敏啓	
			2018A4500	BL15XU	近藤 敏啓	
			2018B4500	BL15XU	近藤 敏啓	

The Journal of Physical Chemistry Letters

42944	Shota Fujii	12 (2021) 6464-6468	2020A1228	BL40B2	櫻井 和朗	Structural Analysis of an Octameric Resorcinarene Self-Assembly in Toluene and its Morphological Transition by Temperature
			2019B1207	BL40B2	櫻井 和朗	
			2018B1396	BL40B2	櫻井 和朗	
43113	Miriam Pena-Alvarez	12 (2021) 5738-5743	2019A1260	BL10XU	Howie Ross	Pressure-Induced Synthesis and Properties of an H_2S–H_2Se–H_2 Molecular Alloy
43114	Miriam Pena-Alvarez	12 (2021) 4910-4916	2019A1260	BL10XU	Howie Ross	Synthesis of Weaire–Phelan Barium Polyhydride
			2018A1041	BL10XU	Howie Ross	

Journal of the Ceramic Society of Japan

42831	Kengo Oka	130 (2022) 35-38	2018A1227	BL02B2	岡 研吾	Site Preference of Fluoride Anion and Potential Ionic Conductivity in Fluorapatites $A_5(VO_4)_3F$ (A = Pb, Sr, and Ba)
42966	Yuta Shuseki	130 (2022) 225-231	2018B2095	BL04B2	尾原 幸治	Structural Analyses of Amorphous Calcium Carbonate before and after Removing Strontium Ions from an Aqueous Solution
			2019B1562	BL01B1	正井 博和	
			2019B2091	BL04B2	尾原 幸治	
43078	Hitoshi Ojima	130 (2022) 290-293	2019B1885	BL14B2	小島 均	Evaluation of Valencies and Local Coordination Structures of Fe in Kasama Celadon Glazes

Physical Review Materials

42951	Shogo Hatayama	5 (2021) 085601	2020A1240	BL47XU	須藤 祐司	Understanding the Low Resistivity of the Amorphous Phase of $Cr_2Ge_2Te_6$ Phase-change Material: Experimental Evidence for the Key Role of Cr Clusters
43173	Alexandra Papadogianni	6 (2022) 033604	2019B4602	BL15XU	長田 貴弘	Molecular Beam Epitaxy of Single-crystalline Bixbyite $(In_{1-x}Ga_x)_2O_3$ Films ($x \leq 0.18$): Structural Properties and Consequences of Compositional Inhomogeneity
43255	Tetsuya Kimata	6 (2022) 035801	2015B3609	BL14B1	松村 大樹	Activity Enhancement of Platinum Oxygen-reduction Electrocatalysts using Ion-beam Induced Defects
			2017B3654	BL14B1	八巻 徹也	
			2018A3654	BL14B1	八巻 徹也	
			2018B3654	BL14B1	出崎 亮	
			2019A3654	BL14B1	出崎 亮	
			2019B3654	BL14B1	出崎 亮	
			2020A3654	BL14B1	出崎 亮	
			2021A3654	BL14B1	出崎 亮	
			2021B3654	BL14B1	出崎 亮	

Polymer Journal

42936	Nikesh Narang	53 (2021) 1413-1424	2019B1375	BL40B2	佐藤 尚弘	Liquid-liquid Phase Separation and Self-Assembly of a Lysine Derivative Fmoc-L-lysine in Water-DMSO Mixtures
43062	Masato Arakawa	54 (2022) 243-248	2019A7215	BL03XU	内田 公典	Spatial Inhomogeneity of Chain Orientation Associated with Strain-Induced Density Fluctuations in Polyethylene
			2019B7264	BL03XU	内田 公典	
			2020A7213	BL03XU	内田 公典	
			2021A7213	BL03XU	内田 公典	
			2019A1634	BL19B2	竹中 幹人	
			2020A7220	BL03XU	竹中 幹人	
43142	Takahiro Sato	54 (2022) 403-412	2019B1375	BL40B2	佐藤 尚弘	Micellar Structure of Hydrophobically Modified Polysaccharides in Aqueous Solution
			2016B1088	BL40B2	寺尾 憲	
			2015A1179	BL40B2	寺尾 憲	
			2014B1715	BL40B2	高橋 倫太郎	
			2014B1087	BL40B2	寺尾 憲	
			2015B1100	BL40B2	寺尾 憲	

Science

42835	Shinichiro Akichika	363 (2019) eaav0080	2018A0153	BL41XU	濡木 理	Cap-specific Terminal N^6-methylation of RNA by an RNA Polymerase II–associated Methyltransferase
42836	Hiroshi Nishimasu	361 (2018) 1259-1262	2018A0153	BL41XU	濡木 理	Engineered CRISPR-Cas9 Nuclease with Expanded Targeting Space
42977	Dongmei Cao	375 (2022) 403-411	2020A2605	BL45XU	Wang Sheng	Structure-based Discovery of Nonhallucinogenic Psychedelic Analogs
			2021B2746	BL45XU	Wang Sheng	

ACS Catalysis

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43030	Lingcong Li	12 (2022) 2639-2650	2021A1615	BL14B2	安村 駿作	Continuous CO_2 Capture and Selective Hydrogenation to CO over Na-Promoted Pt Nanoparticles on Al_2O_3
43141	Katsutoshi Sato	11 (2021) 13050-13061	2018B1345	BL01B1	佐藤 勝俊	Barium Oxide Encapsulating Cobalt Nanoparticles Supported on Magnesium Oxide: Active Non-Noble Metal Catalysts for Ammonia Synthesis under Mild Reaction Conditions

ACS Materials Letters

42842	Yuta Yabuuchi	4 (2022) 205-211	2021A1580	BL40B2	藪内 湧太	Dynamics of Preaggregation and Film Formation of Donor–Acceptor π-Conjugated Polymers
43059	Genya Uzurano	4 (2022) 378-384	2021A1580	BL40B2	藪内 湧太	Orientation Control of 2D Perovskite in 2D/3D Heterostructure by Templated Growth on 3D Perovskite

AIP Advances

43027	Hiroyuki Kumazoe	11 (2021) 125013	2020A3648	BL14B1	清水 亮太	Bayesian Sparse Modeling of Extended X-ray Absorption Fine Structure to Determine Interstitial Oxygen Positions in Yttrium Oxyhydride Epitaxial Thin Film
43109	Kumiko Konishi	12 (2022) 035310	2019A5400	BL16B2	米山 明男	Nucleation Sites of Expanded Stacking Faults Detected by *in operando* X-ray Topography Analysis to Design Epitaxial Layers for Bipolar-degradation-free SiC MOSFETs
			2019B5400	BL16B2	米山 明男	
			2020A5400	BL16B2	米山 明男	
			2021A5400	BL16B2	米山 明男	

Applied Physics Express

42997	Tomoyuki Shoji	14 (2021) 114001	2019A5370	BL16B2	山口 聡	Analysis of Intrinsic Reverse Leakage Current Resulting from Band-to-Band Tunneling in Dislocation-Free GaN p–n Junctions
			2019B5370	BL16B2	山口 聡	
			2020A5370	BL16B2	山口 聡	
			2019B1042	BL20B2	兼近 将一	
			2020A1039	BL20B2	兼近 将一	
43231	Yoriko Tominaga	15 (2022) 045504	2018A1439	BL02B2	富永 依里子	Crystalline Quality of $GaAs_{1-x}Bi_x$ Grown Below 250°C using Molecular Beam Epitaxy

Applied Surface Science

43121	Jiayi Tang	587 (2022) 152797	2018A7559	BL07LSU	坂田 修身	Hydrogen Absorption and Diffusion Behaviors in Cube-shaped Palladium Nanoparticles Revealed by Ambient-pressure X-ray Photoelectron Spectroscopy
			2020A7473	BL07LSU	唐 佳藝	
			2018B3839	BL23SU	唐 佳藝	
			2019A3839	BL23SU	唐 佳藝	
			2019B3839	BL23SU	唐 佳藝	
			2020A3839	BL23SU	唐 佳藝	
			2021A3839	BL23SU	唐 佳藝	
43203	Atsushi Izumi	589 (2022) 152967	2019B1901	BL46XU	首藤 靖幸	XAFS and HAXPES Analyses of the Oxidation State of a Copper Surface Buried under a Phenolic Resin Nanofilm
			2020A1738	BL46XU	首藤 靖幸	
			2021A1679	BL46XU	首藤 靖幸	
			2021B1957	BL46XU	首藤 靖幸	

Bulletin of the Chemical Society of Japan

42876	Toshifumi Takahashi	94 (2021) 2727-2738	2016A1549	BL14B2	倉橋 拓也	Ni-Catalyzed Dearomative Cycloaddition of Alkynes to 10π Aromatic Benzothiophenes: Elucidation of Reaction Mechanism
			2018B1594	BL14B2	倉橋 拓也	
			2019B1842	BL14B2	倉橋 拓也	
			2020A1624	BL14B2	倉橋 拓也	
			2020A1766	BL14B2	倉橋 拓也	
			2021B1720	BL14B2	倉橋 拓也	
			2019A1712	BL14B2	高橋 俊文	
43126	Yoshihiro Kishida	95 (2022) 559-565	2017B3213	BL24XU	岸田 佳大	*In Situ* Strain Distribution Measurement of Polyphenylene Sulfide-Aluminum Injection-Molded Direct Joints Using Synchrotron Radiation Microbeam X-Ray Diffraction
			2018B3213	BL24XU	岸田 佳大	
			2019B3213	BL24XU	岸田 佳大	
			2020A3213	BL24XU	梅本 和彦	

ChemCatChem

42963	Masami Fujita	14 (2022) e202101709	2015B1275	BL01B1	吉田 寿雄	Hydrogen Adsorption/Desorption Isotherms on Supported Platinum Nanoparticles Determined by *in-situ* XAS and ΔXANES Analysis
			2018A1497	BL01B1	吉田 寿雄	
			2018A1490	BL28B2	山本 旭	
			2018B1458	BL28B2	山本 旭	
43215	Yu Cao	13 (2021) 191-195	2018B1042	BL02B2	小林 洋治	Vanadium Hydride as an Ammonia Synthesis Catalyst

ChemElectroChem

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
42962	Ryoichi Tatara	8 (2021) 4345-4352	2019B1850	BL46XU	久保田 圭	Effect of Substituted Styrene-Butadiene Rubber Binders on the Stability of 4.5 V-Charged $LiCoO_2$ Electrode
43085	Yadan Ren	8 (2021) 4605-4611	2020A1828	BL14B2	内山 智貴	$CaMn_7O_{12}$ Quadruple Perovskite Oxides Proceed by Two-Active-Site Reaction Mechanism for the Oxygen Evolution Reaction
			2019B1014	BL01B1	内本 喜晴	
			2019A1024	BL08W	内本 喜晴	
			2018B1037	BL46XU	内本 喜晴	
			2019A1820	BL14B2	内山 智貴	
			2019B1855	BL14B2	内山 智貴	
			2019B1899	BL14B2	内山 智貴	
			2018A1749	BL14B2	内山 智貴	
			2018A1750	BL19B2	内山 智貴	
			2018B1616	BL19B2	内山 智貴	
			2019A1763	BL14B2	内山 智貴	

Chemistry of Materials

42980	Ruilin Zheng	34 (2022) 1599-1610	2020A0701	BL08W	篠崎 健二	In Situ Growth Mechanism of $CsPbX_3$ (X = Cl, Br, and I) Quantum Dots in an Amorphous Oxide Matrix
43099	Hiroshi Itahara	34 (2022) 422-429	2021A5371	BL16B2	小坂 悟	Synthesis of Carbon-Supported Intermetallic Pt_5Ce Compound Nanoparticles via a Water-Based Impregnation Route
			2021A5070	BL16XU	高橋 直子	

The EMBO Journal

42994	Yukimatsu Toh	28 (2009) 3353-3365	2005A0565	BL41XU	富田 耕造	Mechanism for the Definition of Elongation and Termination by the Class II CCA-adding Enzyme
43081	Manatsu Morikawa	41 (2022) e108899	2018A2552	BL41XU	小川 覚之	A Neuropathy-Associated Kinesin KIF1A Mutation Hyper-stabilizes the Motor-Neck Interaction during the ATPase Cycle

The FEBS Journal

42985	Takashi Fujishiro	288 (2021) 6752-6768	2020A6545	BL44XU	藤城 貴史	Crystal Structure of *Escherichia coli* Class II Hybrid Cluster Protein, HCP, Reveals a [4Fe-4S] Cluster at the N-terminal Protrusion
			2019A6945	BL44XU	藤城 貴史	
43015	Takayoshi Tagami	289 (2022) 1118-1134	2017B2725	BL38B1	田上 貴祥	Structural Insights Reveal the Second Base Catalyst of Isomaltose Glucohydrolase

Geophysical Research Letters

42949	Fang Xu	48 (2021) e2021GL093977	2019A1473	BL04B1	Antonangeli Daniele	Low Velocity Zones in the Martian Upper Mantle Highlighted by Sound Velocity Measurements
			2019B1305	BL04B1	Antonangeli Daniele	
			2019A0069	BL04B1	河野 義生	
43034	Takayuki Ishii	47 (2020) e2020GL087490	2020A1309	BL10XU	新名 良介	Discovery of New-Structured Post-Spinel $MgFe_2O_4$: Crystal Structure and High-Pressure Phase Relations

Investigative Ophthalmology & Visual Science

42952	Kehao Wang	62 (2021) 23	2016A1096	BL20B2	Pierscionek Barbara	Aquaporins Have Regional Functions in Development of Refractive Index in the Zebrafish Eye Lens
			2017A1197	BL20B2	Pierscionek Barbara	
			2018A1105	BL20B2	Pierscionek Barbara	
			2019A1115	BL20B2	Pierscionek Barbara	
42953	Catherine Cheng	63 (2022) 2	2018A1105	BL20B2	Pierscionek Barbara	EphA2 Affects Development of the Eye Lens Nucleus and the Gradient of Refractive Index
			2019A1115	BL20B2	Pierscionek Barbara	

IUCrJ

42839	Dongqing Pan	9 (2022) 134-145	2015B8042	BL3	岩田 想	Crystal Structure of CmABCB1 Multi-drug Exporter in Lipidic Mesophase Revealed by LCP-SFX
			2016A8047	BL3	中津 亨	
			2016A2503	BL41XU	中津 亨	
42874	Nobutaka Numoto	8 (2021) 954-962	2015B2082	BL38B1	沼本 修孝	Coarse Snapshots of Oxygen-dissociation Intermediates of a Giant Hemoglobin Elucidated by Determining the Oxygen Saturation in Individual Subunits in the Crystalline State
			2016A2513	BL38B1	沼本 修孝	

JACS Au-1

42884	Kazuya Otsubo	2 (2022) 109-115	2018A1428	BL02B2	大坪 主弥	A Preinstalled Protic Cation as a Switch for Superprotonic Conduction in a Metal–Organic Framework
			2019A1132	BL02B2	大坪 主弥	
			2020A1206	BL02B2	大坪 主弥	
			2021A1296	BL02B2	大坪 主弥	

JACS Au-2

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
42979	Daisuke Takei	2 (2022) 394-406	2019A1784	BL14B2	山口 和也	C–H Bond Activation Mechanism by a Pd(II)–(μ-O)–Au(0) Structure Unique to Heterogeneous Catalysts
			2019B1820	BL14B2	山口 和也	
			2020A1803	BL14B2	山口 和也	
			2021A1620	BL14B2	山口 和也	

The Journal of Chemical Physics

42879	Yuki Mizuno	156 (2022) 034503	2016A1637	BL04B2	水野 勇希	Intermolecular Correlations of Liquid and Glassy CS_2 Studied by Synchrotron Radiation X-ray Diffraction
			2017A1506	BL04B2	山室 修	
			2017B1729	BL04B2	水野 勇希	
43003	Hiroshi Fukui	156 (2022) 064504	2019B1240	BL10XU	福井 宏之	Equation of States for Dense Ice up to 80 GPa at Low-Temperature Conditions
			2020A1539	BL10XU	福井 宏之	
			2020A0623	BL10XU	福井 宏之	

Journal of Magnetism and Magnetic Materials

42938	Andres Martin Cid	538 (2021) 168308	2017A1558	BL25SU	佐川 眞人	Effect of Hydrogenation-Disproportionation-Desorption-Recombination Powder Processing on the Demagnetization Process of Nd-Fe-B Sintered Magnets Analyzed by Soft X-ray Magnetic Circular Dichroism Microscopy
			2017B1578	BL25SU	佐川 眞人	
43132	Daisuke Ogawa	552 (2022) 169188	2018A3582	BL11XU	高橋 有紀子	Temperature Dependence of Site-resolved Fe Magnetic Moments in $ThMn_{12}$-type $Sm(Fe_{1-x}Co_x)_{12}$ Compounds Studied via Synchrotron Mössbauer Spectroscopy
			2018B3582	BL11XU	高橋 有紀子	
			2019A3582	BL11XU	高橋 有紀子	
			2019B3582	BL11XU	高橋 有紀子	

Journal of Materials Chemistry A

43000	Tomooki Hosaka	8 (2020) 23766-23771	2018B1613	BL46XU	駒場 慎一	KFSA/glyme Electrolytes for 4 V-class K-ion Batteries
43016	Lusheng Liang	10 (2022) 3409-3417	2021A1689	BL46XU	柴山 直之	Face-on Oriented Hydrophobic Conjugated Polymers as Dopant-free Hole-transport Materials for Efficient and Stable Perovskite Solar Cells with a Fill Factor Approaching 85%

Journal of Nuclear Materials

43029	Youko Takahatake	556 (2021) 153170	2020A3715	BL22XU	渡部 創	Structural Characterization by X-ray Analytical Techniques of Calcium Aluminate Cement Modified with Sodium Polyphosphate Containing Cesium Chloride
43243	Akihiro Uehara	559 (2022) 153422	2016A1693	BL01B1	佐藤 修彰	Speciation on the Reaction of Uranium and Zirconium Oxides Treated under Oxidizing and Reducing Atmospheres
			2016B1805	BL01B1	佐藤 修彰	
			2017B1470	BL01B1	佐藤 修彰	

Journal of Physics: Condensed Matter

42990	Ai Suzuki	33 (2021) 135702	2018B4140	BL12B2	久保園 芳博	Superconductivity in Topological Insulator β-$PdBi_2$ under Pressure
			2019A4131	BL12B2	久保園 芳博	
43009	Kazuhiro Fuchizaki	33 (2021) 365401	2015B3781	BL22XU	渕崎 員弘	The Microscopic Transition Process from High-Density to Low-Density Amorphous State of SnI_4
			2000A0056	BL04B2	大村 彩子	
			2000B0381	BL04B2	大村 彩子	

Macromolecules

42832	Daniel Salatto	54 (2021) 11032-11046	2017A1374	BL20XU	増井 友美	Structural and Dynamical Roles of Bound Polymer Chains in Rubber Reinforcement
42939	Jia Yang	53 (2020) 7970-7979	2019B1375	BL40B2	佐藤 尚弘	Micellar Structure of a Hydrophobically Modified Pullulan in an Aqueous Solution

Nature

42875	Artem Chanyshev	601 (2022) 69-73	2017B1078	BL04B1	桂 智男	Depressed 660-km Discontinuity Caused by Akimotoite–Bridgmanite Transition
			2018B1218	BL04B1	桂 智男	
			2018B1209	BL04B1	桂 智男	
			2019A1353	BL04B1	桂 智男	
			2019B1133	BL04B1	桂 智男	
42895	Elyse Schriber	601 (2022) 360-365	2019A8074	BL3	Hohman James	Chemical Crystallography by Serial Femtosecond X-ray Diffraction

Physica Status Solidi B

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43224	Koki Takahashi	(2022) Online published 04 Mar. 2022	2021A1461	BL01B1	宮崎 秀俊	Local Structure of Heusler-Type $Fe_2V_{1-x}Ta_xAl$ Thermoelectric Materials Studied by X-Ray Absorption Fine-Structure Spectroscopy
			2019A1469	BL02B2	宮崎 秀俊	
			2019B1645	BL02B2	宮崎 秀俊	
43225	Katariina Pussi	(2022) Online published 04 Mar. 2022	2021B1305	BL04B2	Kamali-Moghaddam Saeed	Structural Properties of Nanometer-Sized Gold Nanoparticles on a Silicon Substrate

Physical Review Research

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43061	Masahiro Suzuki	4 (2022) 013139	2018A3841	BL23SU	小林 正起	Magnetic Anisotropy of the van der Waals Ferromagnet $Cr_2Ge_2Te_6$ Studied by Angular-Dependent X-ray Magnetic Circular Dichroism
43244	Taito Osaka	4 (2022) L012035	2019A8048	BL3	大坂 泰斗	Hard X-ray Intensity Autocorrelation using Direct Two-photon Absorption

Proceedings of SPIE

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
42901	Shunya Yokomae	11837 (2021) 1183709	2021A1607	BL25SU	横前 俊也	Development of Figure Correction System for Axisymmetric X-ray Mirrors
43242	Franklin D. Fuller	11838 (2021) 118380V	2018B8083	BL3	Fuller Franklin	Analytic von Hamos Geometry Optimization and Calibration

X 線分析の進歩（Advances in X-ray Chemical Analysis, Japan）

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43241	Akihiro Uehara	53 (2022) 223-229	2020A3659	BL14B1	上原 章寛	Fundamental Study for Decorporation of Plutonium by Chelating Agents: Coordination Analyses of Simulated Plutonium with Chelating Agents by X-ray Absorption Spectroscopy
			2021B3662	BL14B1	上原 章寛	
43245	Daisuke Ohsawa	53 (2022) 127-138	2019B1426	BL20B2	武田 志乃	Feasibility Study on Three-Dimensional Visualization and Quantification of Uranium migrated into Rat Femur Using SR-µCT
			2021A1011	BL20B2	武田 志乃	

自動車技術会論文集（Transactions of the Society of Automotive Engineers of Japan）

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43136	Emi Mukai	53 (2022) 453-458	2016B3273	BL24XU	高尾 直樹	Analysis of Mechanical Properties and Structure of PPS Resin Welding Interface Effected by the Vibration
43167	Yasuhiro Matsumura	51 (2020) 888-893	2019B3054	BL24XU	住田 弘祐	Study on the NOx Reduction Mechanism of Precious Metal Single-Nano Sized Catalyst during the Acceleration and Deceleration Region
			2020A3389	BL08B2	住田 弘祐	

日本金属学会誌（The Journal of the Japan Institute of Metals and Materials）

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
42830	Makoto Takeuchi	86 (2022) 1-7	2018B2099	BL25SU	小谷 佳範	Magnetic Domain Structure Observation for Initial Magnetization and Demagnetization Processes of a Nd–Fe–B Hot–Deformed Magnet Using Soft X–ray Magnetic Circular Dichroism Microscopy
			2018B1026	BL25SU	岡本 聡	
42841	Mitsuki Sugeoi	85 (2021) 399-404	2017B1836	BL46XU	菅生 三月	The Characterization of the Oxide Film Formed on Brightly Annealed Al-Added 18%Cr Steel

ACS Applied Bio Materials

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43168	Jin-hyeok Hong	3 (2020) 7363-7368	2019A7220	BL03XU	小池 淳一郎	Design of a Bioinert Interface Using an Amphiphilic Block Copolymer Containing a Bottlebrush Unit of Oligo(oxazoline)

ACS Applied Electronic Materials

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
42973	Benjamin Meunier	21 (2021) 5555-5562	2018A4915	BL15XU	Renault Olivier	Unraveling the Resistive Switching Mechanisms in $LaMnO_{3+\delta}$-Based Memristive Devices by *Operando* Hard X-ray Photoemission Measurements

ACS Applied Polymer Materials

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43236	Taku Omura	3 (2021) 6479-6487	2021A7204	BL03XU	岩田 忠久	Elastic Marine Biodegradable Fibers Produced from Poly[(*R*)-3-hydroxybutylate-*co*-4-hydroxybutylate] and Evaluation of Their Biodegradability
			2020A7223	BL03XU	岩田 忠久	

ACS Earth and Space Chemistry

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43035	Luca Bindi	5 (2021) 2124-2130	2020A1309	BL10XU	新名 良介	Discovery of Elgoresyite, $(Mg,Fe)_5Si_2O_9$: Implications for Novel Iron-Magnesium Silicates in Rocky Planetary Interiors
			2021A1281	BL10XU	新名 良介	
			2021B1331	BL10XU	新名 良介	

ACS Energy Letters

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
42927	Satoshi Tominaka	6 (2021) 3858-3863	2017A1207	BL08W	冨中 悟史	Dynamic Symmetry Conversion in Mixed-Halide Hybrid Perovskite upon Illumination
			2018A1304	BL08W	尾原 幸治	
			2018B2095	BL04B2	尾原 幸治	

ACS Macro Letters

43219	Yuta Miyamori	10 (2021) 978-983	2019B1135	BL40XU	松下 裕秀	Triply Helical Giant Domain with Homochirality in a Terpolymer Blend System

Advanced Functional Materials

42909	Michitaka Fukumoto	32 (2022) 2110832	2020A0827	BL13XU	福本 通孝	Ligand Field-Induced Exotic Dopant for Infrared Transparent Electrode: W in Rutile SnO_2

American Mineralogist

43237	Saori Kawaguchi	(2022) am-2021-7924	2014A0080	BL10XU	廣瀬 敬	Density Determination of Liquid Iron-Nickel-Sulfur at High Pressure
			2014A1127	BL10XU	Morard Guillaume	
			2016A1846	BL10XU	河口 沙織	
			2016B1954	BL04B2	河口 沙織	
			2016B1955	BL10XU	河口 沙織	
			2017B1977	BL10XU	河口 沙織	
			2018A2062	BL10XU	河口 沙織	
			2018B2109	BL10XU	河口 沙織	
			2019A1381	BL10XU	河口 沙織	
			2019B2086	BL02B2	河口 彰吾	
			2019B2094	BL10XU	河口 彰吾	

Analytical Sciences

43221	Morihisa Saeki	36 (2020) 1371-1378	2016A3609	BL14B1	松村 大樹	Application of an Augmentation Method to MCR-ALS Analysis for XAFS and Raman Data Matrices in the Structural Change of Isopolymolybdates
			2017A3609	BL14B1	松村 大樹	

Antimicrobial Agents and Chemotherapy

43165	Masayuki Amano	66 (2022) e01715-21	2014A1001	BL41XU	山本 雅貴	Fluorine Modifications Contribute to Potent Antiviral Activity against Highly Drug-Resistant HIV-1 and Favorable Blood-Brain Barrier Penetration Property of Novel Central Nervous System-Targeting HIV-1 Protease Inhibitors *In Vitro*

APL Materials

42844	Mitsuhiro Okada	9 (2021) 121115	2021A7422	BL07LSU	永村 直佳	Growth of MoS_2–Nb-doped MoS_2 Lateral Homojunctions: A Monolayer *p*–*n* Diode by Substitutional Doping
			2018B7580	BL07LSU	永村 直佳	
			2019A7451	BL07LSU	永村 直佳	
			2020A7471	BL07LSU	細野 英司	
			2020A7486	BL07LSU	張 文雄	

Applied Physics A

43074	Kodai Fukuta	128 (2022) 184	2018B1397	BL02B2	宮崎 秀俊	Improving Thermoelectric Performance of Fe_2VAl-based Heusler Compounds via High-pressure Torsion
			2019A1469	BL02B2	宮崎 秀俊	

APS Applied Energy Materials

42889	Takeshi Uyama	5 (2022) 214-226	2019A1476	BL02B2	山田 幾也	Positive and Negative Synergistic Effects of Fe–Co Mixing on the Oxygen and Hydrogen Evolution Reaction Activities of the Quadruple Perovskite $CaCu_3Fe_{4-x}Co_xO_{12}$
			2020A0583	BL02B2	山田 幾也	
			2021B1726	BL14B2	山田 幾也	

Biochemistry

43083	Seiji Okazaki	48 (2009) 941-950	2007A6940	BL44XU	山根 隆	The Novel Structure of a Pyridoxal 5′-Phosphate-Dependent Fold-Type I Racemase, α-Amino-ε-caprolactam Racemase from *Achromobacter obae*

Biochemistry and Biophysics Reports

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
42988	Masahiro Kuramochi	29 (2022) 101224	2018A1477	BL40XU	倉持 昌弘	Dynamic Motions of Ice-binding Proteins in Living *Caenorhabditis elegans* using Diffracted X-ray Blinking and Tracking
			2019B1312	BL40XU	倉持 昌弘	
			2020A1541	BL40XU	倉持 昌弘	
			2016B1699	BL40B2	岡田 璃生	
			2016B1325	BL40XU	佐々木 裕次	
			2020A2018	BL40XU	関口 博史	

Biomacromolecules

42947	Shin Takano	22 (2021) 1186-1196	2018B1396	BL40B2	櫻井 和朗	Phosphorylcholine-Grafted Molecular Bottlebrush–Doxorubicin Conjugates: High Structural Stability, Long Circulation in Blood, and Efficient Anticancer Activity
			2019B1207	BL40B2	櫻井 和朗	
			2020A1228	BL40B2	櫻井 和朗	

Biophysical Journal

42920	Yanjun Li	120 (2021) 3355-3362	2018A2557	BL41XU	深井 周也	Structural Basis for Specific Recognition of K6-linked Polyubiquitin Chains by the TAB2 NZF Domain

Carbon

42899	Bagautdin Bagautdinov	191 (2022) 75-83	2016A1836	BL04B2	Bagautdinov Bagautdin	High-energy X-Ray Diffraction Study of Multiwalled Carbon Nanotubes Fabricated by Arc Discharge Plasma Process

Catalysis Science & Technology

42917	Takayoshi Hara	12 (2022) 2061-2070	2018B1470	BL02B2	原 孝佳	Specific Lift-Up Behaviour of Acetate-Intercalated Layered Yttrium Hydroxide Interlayer in Water: Application for Heterogeneous Brønsted Base Catalysts toward Knoevenagel Reactions
			2019A1349	BL02B2	原 孝佳	
			2018A1004	BL02B2	笹井 亮	
			2019A0068	BL02B2	森吉 千佳子	
			2018A1416	BL02B2	藤村 卓也	

Cell Reports

42925	Norihiko Yokoi	37 (2021) 110107	2020A2613	BL45XU	深井 周也	14-3-3 Proteins Stabilize LGI1-ADAM22 Levels to Regulate Seizure Thresholds in Mice

Cement and Concrete Research

43199	Ippei Maruyama	144 (2021) 106429	2014B7251	BL03XU	坂本 直紀	Hinderance of C-S-H Sheet Piling during First Drying using a Shrinkage Reducing Agent: A SAXS Study

ChemBioChem

42873	Toshifumi Fujioka	23 (2022) e202100435	2017A2584	BL26B1	沼本 修孝	Varying the Directionality of Protein Catalysts for Aldol and Retro-Aldol Reactions
			2018B2536	BL38B1	沼本 修孝	

Chemical and Pharmaceutical Bulletin

42846	Yoshiyuki Miyasaka	70 (2022) 52-56	2020A1076	BL40B2	橋崎 要	Effect of the Physicochemical Properties of Liquid Paraffin on the Phase State and Rheological Properties of Lecithin Reverse Wormlike Micelles

Chemistry - A European Journal

42995	Junichi Usuba	27 (2021) 16127-16134	2019A1057	BL02B1	笹森 貴裕	Thiophene-Fused 1,4-Diazapentalene: A Stable C=N-Containing π-Conjugated System with Restored Antiaromaticity
			2020A1650	BL02B1	薄葉 純一	

ChemNanoMat

43128	Hirosuke Matui	8 (2022) e202200008	2016B7821	BL36XU	唯 美津木	Variation of Local Structure and Reactivity of Pt/C Catalyst for Accelerated Degradation Test of Polymer Electrolyte Fuel Cell Visualized by Operando 3D CT-XAFS Imaging
			2017A7820	BL36XU	唯 美津木	
			2017B7820	BL36XU	唯 美津木	
			2018A7820	BL36XU	唯 美津木	
			2018B7820	BL36XU	唯 美津木	

ChemSusChem

43006	Kazuyuki Iwase	15 (2022) e202102340	2021B1204	BL01B1	神谷 和秀	Copper Aluminum Layered Double Hydroxides with Different Compositions and Morphologies as Electrocatalysts for the Carbon Dioxide Reduction Reaction

Colloid and Polymer Science

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
42933	Knezo Yamada	300 (2022) 95-102	2019B1375	BL40B2	佐藤 尚弘	Dispersion States of Lecithin–Soybean Oil Mixtures in Water
			2020A0750	BL40B2	佐藤 尚弘	

Communications Biology

43206	Migiwa Takeda	5 (2022) 247	2011B2084	BL38B1	馬場 清喜	Metagenomic Mining and Structure-Function Studies of a Hyper-Thermostable Cellobiohydrolase from Hot Spring Sediment
			2011B2104	BL38B1	馬場 清喜	
			2012A1834	BL38B1	馬場 清喜	
			2012B1910	BL38B1	馬場 清喜	

Computational and Structural Biotechnology Journal

42976	Jang Dongman	20 (2022) 745-756	2020A6574	BL44XU	Kim Hyoun Sook	Structural Insights into Apoptotic Regulation of Human Bfk as a Novel Bcl-2 Family Member
			2021A6674	BL44XU	Kim Hyoun Sook	

Condensed Mater

42829	Kosuke Suzuki	7 (2022) 4	2020A0648	BL08W	鈴木 宏輔	Magnetic Compton Scattering Study of Li-Rich Battery Materials

CryoLetters

43265	Kosuke Kondo	41 (2020) 291-296	2018B1619	BL19B2	原 賢二	Detection of the Metastable Ice Phase during Water Crystallization
			2019A1657	BL19B2	原 賢二	
			2019B1852	BL19B2	原 賢二	

Crystals

42996	Yoshihisa Suzuki	12 (2022) 129	2017A6726	BL44XU	鈴木 良尚	Precipitant-Free Crystallization of Lysozyme and Glucose Isomerase by Drying
			2017B6726	BL44XU	鈴木 良尚	
			2018A6826	BL44XU	鈴木 良尚	
			2018B6826	BL44XU	鈴木 良尚	
			2019A6925	BL44XU	鈴木 良尚	
			2019B6925	BL44XU	鈴木 良尚	
			2020A6523	BL44XU	鈴木 良尚	
			2021A6622	BL44XU	鈴木 良尚	
			2021B6622	BL44XU	鈴木 良尚	

Cyborg and Bionic Systems

43214	Tat Thang Vo Doan	(2022) 9780504	2015A1502	BL45XU	鈴木 団	A Cyborg Insect Reveals a Function of a Muscle in Free Flight
			2015B1449	BL40XU	佐藤 裕崇	
			2016A1169	BL40XU	佐藤 裕崇	
			2016B1492	BL40XU	佐藤 裕崇	
			2017A1087	BL40XU	佐藤 裕崇	
			2017B1464	BL40XU	佐藤 裕崇	
			2018A1087	BL40XU	佐藤 裕崇	
			2018B1261	BL40XU	佐藤 裕崇	

Dalton Transactions

43033	Shuto Asano	51 (2022) 2656-2659	2021A1602	BL10XU	浅野 秀斗	High Pressure Synthesis and the Valence State of Vanadium Ions for the Novel Transition Metal Pernitride, $CuAl_2$-type VN_2

e-Journal of Surface Science and Technology

43266	Yuta Yamamoto	19 (2021) 99-103	2020A1675	BL13XU	山本 裕太	X-ray Fluorescence Holography Measurement of Oxynitride Thin Film of $CaTaO_2N$

Engineering Fracture Mechanics

43031	Gaoge Xue	263 (2022) 108308	2020A0172	BL20XU	中村 孝	Initiation and Propagation of Small Fatigue Crack in Beta Titanium Alloy Observed through Synchrotron Radiation Multiscale Computed Tomography

The FASEB Journal

42950	Kehao Wang	34 (2020) 5552-5562	2016A1096	BL20B2	Pierscionek Barbara	Optical Development in the Zebrafish Eye Lens
			2017A1197	BL20B2	Pierscionek Barbara	
			2018A1105	BL20B2	Pierscionek Barbara	

FEBS Letters

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
42913	Yoshiki Tanaka	595 (2021) 1902-1913	2018A2542	BL32XU	塚崎 智也	Crystal Structures of a Nicotine MATE Transporter Provide insight into its Mechanism of Substrate Transport
			2019A2518	BL32XU	塚崎 智也	
			2020A2564	BL32XU	塚崎 智也	

Foods

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43133	Masafumi Hidaka	11 (2022) 730	2019B2043	BL20B2	小賀坂 行也	High-Resolution X-ray Phase-Contrast Imaging and Sensory and Rheometer Tests in Cooked Edamame
			2020A1866	BL14B2	駒井 三千夫	

Frontiers in Cell and Developmental Biology

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
42969	Koichi Matsuo	9 (2021) 800455	2019A1300	BL37XU	松尾 光一	Bilaterally Asymmetric Helical Myofibrils in Ascidian Tadpole Larvae
			2019B1404	BL20XU	竹内 晃久	

Frontiers in Neurorobotics

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43239	Ryuta Mizutani	(2022) 851471	2018A1164	BL20XU	水谷 隆太	Schizophrenia-Mimicking Layers Outperform Conventional Neural Network Layers
			2018B1187	BL37XU	水谷 隆太	
			2019A1207	BL20XU	水谷 隆太	
			2019B1087	BL37XU	水谷 隆太	
			2020A0614	BL20XU	水谷 隆太	
			2020A1163	BL20XU	水谷 隆太	
			2021A1175	BL37XU	水谷 隆太	
			2021B1258	BL47XU	水谷 隆太	
			2011A0034	BL20XU	水谷 隆太	
			2014A1057	BL37XU	水谷 隆太	
			2014B1083	BL20XU	水谷 隆太	
			2015A1160	BL20XU	水谷 隆太	
			2015B1101	BL20XU	水谷 隆太	
			2016B1041	BL20XU	水谷 隆太	
			2017A1143	BL37XU	水谷 隆太	

Frontiers in Physiology

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
42880	Mark Waddingham	12 (2022) 766818	2017A1470	BL20B2	上杉 健太朗	Using Synchrotron Radiation Imaging Techniques to Elucidate the Actions of Hexarelin in the Heart of Small Animal Models
			2018A1193	BL20B2	Pearson James	
			2018A1242	BL28B2	Pearson James	
			2018B1086	BL40XU	Waddingham Mark	
			2018B1190	BL28B2	Pearson James	
			2019A1077	BL28B2	Pearson James	

Geochimica et Cosmochimica Acta

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43233	Megumi Matsumoto	323 (2022) 220-241	2018B1298	BL47XU	圡山 明	Three-dimensional Microstructure and Mineralogy of a Cosmic Symplectite in the Acfer 094 Carbonaceous Chondrite: Implication for its Origin

Glycoboiology

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43220	Shun Maruyama	32 (2022) 171-180	2020A2553	BL26B2	伏信 進矢	Substrate Complex Structure, Active Site Labeling and Catalytic Role of the Zinc Ion in Cysteine Glycosidase
			2014B2015	BL26B1	伏信 進矢	
			2016B2714	BL26B1	伏信 進矢	
			2017A2540	BL26B1	伏信 進矢	
			2018B2528	BL26B2	伏信 進矢	
			2019B2556	BL45XU	伏信 進矢	

Green Chemistry

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
42828	Makito Yamada	23 (2021) 8131-8137	2019B1907	BL14B2	山田 真希人	Product Selective Reaction Controlled by the Combination of Palladium Nanoparticles, Continuous Microwave Irradiation, and a Co-existing Solid; Ligand-free Buchwald–Hartwig Amination *vs.* Aryne Amination

IEEE Transactions on Magnetics

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43130	Jun'ichi Ieda	(2022) Online published: 25 Jan. 2022	2017A3731	BL22XU	岡根 哲夫	The Damage Analysis for Irradiation Tolerant Spin-driven Thermoelectric Device Based on Single-crystalline $Y_3Fe_5O_{12}$/Pt Heterostructures
			2019A3731	BL22XU	小畠 雅明	
			2019B3731	BL22XU	小畠 雅明	
			2020A3731	BL22XU	小畠 雅明	

International Journal of Ceramic Engineering & Science

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43250	Fumito Toda	4 (2022) 123-129	2020A0583	BL02B2	山田 幾也	High-pressure Synthesis, Crystal Structure, and Magnetic Property of $LaCo_6O_{11}$

International Journal of Molecular Sciences

42974	Jang Dongman	22 (2021) 8488	2020A6574	BL44XU	Kim Hyoun Sook	Structural Basis of Inhibition of DCLK1 by Ruxolitinib
			2021A6674	BL44XU	Kim Hyoun Sook	

International Journal of Plasticity

42864	Le Li	148 (2022) 103144	2021A1529	BL02B1	乾 晴行	Tensile and Compressive Plastic Deformation Behavior of Medium-Entropy Cr-Co-Ni Single Crystals from Cryogenic to Elevated Temperatures
			2018B1321	BL02B1	乾 晴行	

International Journal of Radiation Biology

43089	Yusaku Terao	(2021) Published online: 23 Aug. 2021	2019A3851	BL23SU	横谷 明徳	X-ray Induced Luminescence Spectroscopy for DNA Damaging Intermediates Aided by a Monochromatic Synchrotron Radiation
			2019B3851	BL23SU	横谷 明徳	
			2018B3851	BL23SU	横谷 明徳	
			2018A3851	BL23SU	横谷 明徳	
			2017B3851	BL23SU	横谷 明徳	

ISIJ International

43073	Takuya Mori	(2022) Online published Feb. 5, 2022	2020A5320	BL16B2	横溝 臣智	Direct Visualization of Structures of Atmospheric Corrosion Products on the Steel Surfaces by Two-dimensionally X-ray Absorption Fine Structure

Journal of Applied Crystallography

42847	Hiroki Ogawa	54 (2021) 1784-1792	2019B7252	BL03XU	小川 紘樹	Artifact Removal in the Contour Areas of SAXS-CT Images by Tikhonov-L1 Minimization
			2019A2030	BL03XU	加部 泰三	
			2020A7210	BL03XU	船城 健一	

Journal of Applied Polymer Science

43217	Thitipat Chongcharoenchaikul	(2022) Online published 22 Mar. 2022	2018B1274	BL40XU	Poompradub Sirilux	Synergistic Effect of Cuttlebone Particles and Non-Rubber Components on Reinforcing Ability of Natural Rubber and Synthetic Isoprene Rubber Composites

The Journal of Biological Chemistry

43163	Naoki Shibata	285 (2010) 26484-26493	2008B1402	BL38B1	虎谷 哲夫	Crystal Structures of Ethanolamine Ammonia-lyase Complexed with Coenzyme B_{12} Analogs and Substrates
			2008A1465	BL38B1	虎谷 哲夫	
			2008A1452	BL41XU	虎谷 哲夫	
			2007B1368	BL38B1	虎谷 哲夫	

Journal of Bioscience and Bioengineering

43066	Atsushi Okawa	133 (2022) 213-221	2017A6722	BL44XU	志波 智生	Characterization and Application of L-methionine γ-lyase Q349S Mutant Enzyme with an Enhanced Activity toward L-Homocysteine
			2017B6722	BL44XU	志波 智生	
			2018A6820	BL44XU	志波 智生	
			2018B6820	BL44XU	志波 智生	

The Journal of Comparative Neurology

43279	Takanori Ikenaga	530 (2022) 1231-1246	2018A1186	BL20XU	池永 隆徳	Morphological Analysis of the Cerebellum and its Efferent System in a Basal Actinopterygian Fish, *Polypterus senegalus*

Journal of Materials Chemistry C

42957	Tatsuya Mori	9 (2021) 13090-13093	2020A0825	BL40B2	森 達哉	An S-shaped Thienoacene Semiconductor Forming Unique Cruciform Lamellar Packing *via* a 2D Interaction Network of π-stacking and Chalcogen Bonding
			2020A1647	BL40B2	森 達哉	
			2021A1163	BL40B2	森 達哉	

Journal of Molecular Biology

42861	Yumiko Takai	381 (2008) 634-644	2006A2740	BL41XU	箱嶋 敏雄	Structural Basis of the Cytoplasmic Tail of Adhesion Molecule CD43 and Its Binding to ERM Proteins
			2006A6711	BL44XU	北野 健	

Journal of Non-Crystalline Solids

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43251	Rikiya Kado	539 (2020) 120070	2019B3645	BL14B1	矢野 哲司	Structural Significance of Nickel Sites in Aluminosilicate Glasses
			2020A3645	BL14B1	矢野 哲司	

Journal of Nuclear Science and Technology

42958	Tomoaki Kato	59 (2022) 580-589	2018B1002	BL01B1	大貫 敏彦	Chemical Species of Iodine during Sorption by Activated Carbon -Effects of Original Chemical Species and Fulvic Acids
			2017B1779	BL14B2	大貫 敏彦	

Journal of Oleo Science

43226	Ichiro Hatta	70 (2021) 1181-1199	2018A1388	BL40B2	中沢 寛光	Stratum Corneum Function: A Structural Study with Dynamic Synchrotron X-ray Diffraction Experiments
			2019B1283	BL40B2	中沢 寛光	

The Journal of Physical Chemistry B

42945	Takuma Kanamaru	125 (2021) 7251-7261	2018A1454	BL40B2	櫻井 和朗	First Observation of the Hydration Layer around Polymer Chain by Scattering and Its Relationship to Thromboresistance: Dilute Solution Properties of PMEA in THF/Water
			2018B1396	BL40B2	櫻井 和朗	
			2019B1207	BL40B2	櫻井 和朗	
			2020A1228	BL40B2	櫻井 和朗	
			2019A1327	BL40B2	秋葉 勇	

Journal of Physics and Chemistry of Solids

42853	Seiya Shimono	163 (2022) 110568	2015A0074	BL02B2	森吉 千佳子	Structural Phase Transition in Cobalt Oxyfluoride $Co_3Sb_4O_6F_6$ Observed by High-resolution Synchrotron and Neutron Diffraction
			2018A1385	BL02B1	久保田 佳基	

Journal of Polymer Research

43179	Yasushi Kadowaki	29 (2022) 137	2015A7207	BL03XU	山竹 邦明	Crystallization Behavior of Biodegradable Poly(L-lactic acid) (PLLA)/poly(butylene succinate) (PBS) Blends Based on in situ Simultaneous Wide-angle X-ray Diffraction/Small-angle X-ray Scattering Techniques and Thermal Analyses
			2015B7257	BL03XU	山竹 邦明	

Journal of Polymer Science

43209	Satoshi Kometani	60 (2022) 766-773	2020A0774	BL40XU	平井 智康	Preferred-handed Helical Conformation in Organic–inorganic Hybrid Block Copolymers with Well-controlled Stereoregularity
			2020A0627	BL40B2	平井 智康	
			2020A1135	BL40B2	平井 智康	
			2021A1162	BL40B2	平井 智康	

Journal of Power Sources

42845	Akihiko Kato	521 (2022) 230951	2019A7032	BL33XU	山口 聡	Mechanistic Insights into Water Transport in Polymer Electrolyte Fuel Cells with a Variation of Cell Temperature and Relative Humidity of Inlet Gas Elucidated by Operando Synchrotron X-ray Radiography
			2019B7032	BL33XU	山口 聡	

Journal of Power Source Advances

43093	Maria Yokota	12 (2021) 100078	2018B7035	BL33XU	原田 雅史	Effect of Roll Press on Consolidation and Electric/Ionic-path Formation of Electrodes for All-Solid-State Battery
			2019A7035	BL33XU	松永 拓郎	
			2019B7035	BL33XU	松永 拓郎	

Journal of Solid State Chemistry

43071	Masatsugu Oishi	309 (2022) 122968	2017A1347	BL01B1	大石 昌嗣	Enhanced Quantum Efficiency of a Self-organized Silica Mixed Red Phosphor $CaAlSiN_3$:Eu
			2017B1307	BL04B2	大石 昌嗣	
			2017B1437	BL01B1	大石 昌嗣	

Journal of Solid State Electrochemistry

42863	Chiaki Ishibashi	26 (2022) 663-682	2019A1760	BL19B2	井手本 康	First-principles Calculations of Stable Local Structures and Electronic Structures of Magnesium Secondary Battery Cathode Materials, $MgCo_{2-x}Mn_xO_4$ (x=0, 0.5), in Second Charged State after First Discharge
			2019A1137	BL19B2	井手本 康	
			2018A1040	BL04B2	井手本 康	

Journal of the European Ceramic Society

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
42893	Maria Rita Cicconi	42 (2022) 1762-1775	2018A1222	BL13XU	早川 知克	Nucleation Mechanisms in a SiO_2-Li_2O-P_2O_5-ZrO_2 Biomedical Glass-Ceramic: Insights on Crystallisation, Residual Glasses and Zr^{4+} Structural Environment
			2018B1406	BL13XU	早川 知克	
			2019A1691	BL13XU	Brehl Martin	
			2019B1800	BL13XU	Brehl Martin	

Macromolecular Chemistry and Physics

43107	Yasuhito Suzuki	222 (2021) 2100124	2019A1152	BL40B2	鈴木 祥仁	Characteristic Features of α and β Relaxations of Poly(diethyl fumarate) as the Poly(substituted methylene)
			2019B1210	BL40B2	鈴木 祥仁	

Macromolecular Rapid Communications

42948	Shota Fujii	42 (2021) 2100285	2018B1396	BL40B2	櫻井 和朗	Polymer Micelles Composed of Molecular-Bottlebrush-Based Surfactants: Precisely Controlling Aggregation Number Corresponding to Polyhedral Structures
			2019B1207	BL40B2	櫻井 和朗	
			2020A1228	BL40B2	櫻井 和朗	

Magnesium Technology 2022

43069	Hiroshi Okuda	(2022) 149-153	2016B1279	BL45XU	奥田 浩司	In Situ Measurements on Formation and Development of LPSO-like Nanostructures in Dilute MgYZn and MgGdZn Alloys
			2021A1241	BL40B2	奥田 浩司	

Materials Advances

43096	Taishun Manjo	3 (2022) 3192-3198	2021A1575	BL43LXU	萬條 太駿	Do Electron Distributions with Orbital Degree of Freedom Exhibit Anisotropy?
			2020A0835	BL43LXU	萬條 太駿	
			2019A0070	BL02B1	澤 博	

Materials Science and Engineering A

42921	Hua Jiang	815 (2021) 141251	2018B1574	BL46XU	渡邊 千尋	Effects of Strain Rate on Mechanical Properties of Heterogeneous Nano-structured SUS316LN Stainless Steel: Revealed by in-situ X-Ray Diffraction at Synchrotron Radiation Facility
			2017A1765	BL46XU	宮嶋 陽司	
			2019B1884	BL46XU	宮嶋 陽司	

Materials Today Communications

43080	Ross Colman	31 (2022) 103275	2012B1420	BL10XU	Prassides Kosmas	Pressure Effects on the Crystal Structure of the Cubic Metallofullerene Salt [$Li@C_{60}$][PF_6] to 12 GPa

Molecular Cell

43020	Jingqi Duan	34 (2009) 427-439	2007A1433	BL41XU	Ye Keqiong	Structural Mechanism of Substrate RNA Recruitment in H/ACA RNA-Guided Pseudouridine Synthase

Nano Futures

42903	Koichi Murata	5 (2021) 045005	2018B1198	BL37XU	三木 一司	Activation of Two Dopants, Bi and Er in δ-doped Layer in Si Crystal
			2018B1179	BL25SU	三木 一司	
			2018B1178	BL13XU	三木 一司	
			2017B1248	BL39XU	三木 一司	
			2016A1373	BL13XU	三木 一司	
			2012B1664	BL37XU	村田 晃一	
			2012A1546	BL37XU	村田 晃一	
			2011B1692	BL37XU	村田 晃一	

Nanoscale

43077	Hui Luo	14 (2022) 910-918	2019B3783	BL22XU	榊 浩司	Structural Evolution of Carbon Dots during Low Temperature Pyrolysis

National Science Review

43216	Qiang Li	(2022) Online published 21 Mar. 2022	2018B1045	BL04B2	Xing Xianran	Chemical Order-Disorder Nanodomains in Fe_3Pt Bulk Alloy
			2021A1060	BL08W	Li Qiang	

Nature Catalysis

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43018	Ailong Li	5 (2022) 109-118	理研	BL44B2		Enhancing the Stability of Cobalt Spinel Oxide towards Sustainable Oxygen Evolution in Acid
			2021A2013	BL14B2	足立 精宏	

Nature Chemical Biology

43212	Xuefeng Zhang	17 (2021) 1230-1237	2019A2543	BL41XU	Wu Beili	Structures of the Human Cholecystokinin Receptors Bound to Agonists and Antagonists
			2019A2541	BL41XU	Zhao Qiang	

Nature Materials

43032	Shinichiro Seki	21 (2022) 181-187	2018A2067	BL39XU	鈴木 基寛	Direct Visualization of the Three-dimensional Shape of Skyrmion Strings in a Noncentrosymmetric Magnet
			2019B1173	BL39XU	関 真一郎	
			2020A2057	BL39XU	鈴木 基寛	

Nature Structural and Molecular Biology

42918	Takaharu Sakuragi	28 (2021) 825-834	2017A2510	BL41XU	長田 重一	The Tertiary Structure of the Human Xkr8–Basigin Complex that Scrambles Phospholipids at Plasma Membranes
			2019B2538	BL41XU	長田 重一	

npj Materials Degradation

43060	Toru Kitagaki	6 (2022) 13	2018B3721	BL22XU	菖蒲 敬久	Dissolution and Precipitation Behaviors of Zircon under the Atmospheric Environment
			2019A3721	BL22XU	菖蒲 敬久	
			2019B3721	BL22XU	菖蒲 敬久	
			2020A3724	BL22XU	北垣 徹	

Optical Review

42946	Yutaka Matsumoto	29 (2022) 7-12	2019B8050	BL2	木村 隆志	An Arrayed-Window Microfluidic Device for Observation of Mixed Nanoparticles with an X-ray Free-Electron Laser
			2020A8044	BL2	木村 隆志	
			2021B8063	BL2	木村 隆志	

Organic & Biomolecular Chemistry

42910	Hiromitsu Maeda	19 (2021) 7369-7373	2015A0114	BL40XU	高谷 光	Self-assemblies of Anionic-unit-introduced Anion-responsive π-electronic Molecules
			2018B0938	BL40XU	若林 裕助	
			2018B1563	BL40XU	前田 大光	
			2019A1508	BL02B1	羽毛田 洋平	

Physical Review E

42912	Makina Saito	105 (2022) L012605	2018A1137	BL09XU	瀬戸 誠	Microscopic Observation of Hidden Johari-Goldstein-β Process in Glycerol
			2018B1161	BL09XU	瀬戸 誠	
			2019B1299	BL09XU	瀬戸 誠	
			2021A2087	BL35XU	依田 芳卓	

Physical Review Letters

43256	Takashi Konishi	128 (2022) 107801	2017A1497	BL40B2	小西 隆士	Kinetics of Polymer Crystallization with Aggregating Small Crystallites
			2018A1083	BL40B2	小西 隆士	
			2018B1377	BL40B2	小西 隆士	
			2018B1454	BL40B2	深尾 浩次	
			2019A1301	BL40B2	深尾 浩次	
			2019B1318	BL40B2	小西 隆士	
			2020A1111	BL40B2	小西 隆士	
			2020A1113	BL40B2	小西 隆士	
			2021A1413	BL40B2	小西 隆士	

Physics and Chemistry of Glasses: European Journal of Glass Science and Technology B

42851	Hiroyuki Inoue	62 (2021) 105-112	2014A1670	BL04B2	岡村 康平	Structure of $AlPO_4.AlF_3.CaF_2.BaF_2$ Fluorophosphate Glass

Physics and Chemistry of Minerals

42971	Sergey V. Goryainov	48 (2021) 36-47	2018A1281	BL10XU	Tse John	In situ X-ray Diffraction Study of Chrysotile at High P–T Conditions: Transformation to the 3.65 Å Phase

Polymers

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
42937	Jia Yang	13 (2021) 1237	2019B1375	BL40B2	佐藤 尚弘	Characterization of the Micelle Formed by a Hydrophobically Modified Pullulan in Aqueous Solution: Size Exclusion Chromatography

Proteins: Structure, Function, and Bioinformatics

43082	Kosuke Oda	90 (2022) 912-918	2017A2715	BL38B1	坂口 剛正	Crystal Structure of *O*-ureidoserine Racemase Found in the D-cycloserine Biosynthetic Pathway
			2019B6908	BL44XU	小田 康祐	
			2020A6508	BL44XU	小田 康祐	
			2021A6607	BL44XU	小田 康祐	

Reaction Chemistry & Engineering

43140	Tatsushi Yoshioka	6 (2021) 74-81	2018A0155	BL04B2	脇原 徹	Ultrafast and Continuous-flow Synthesis of AFX Zeolite *via* Interzeolite Conversion of FAU Zeolite

Science Advances

43084	Hoyoung Jang	8 (2022) eabk0832	2017B8059	BL3	野尻 浩之	Characterization of Photoinduced Normal State through Charge Density Wave in Superconducting $YBa_2Cu_3O_{6.67}$
			2019B8001	BL2	Lee Jun-Sik	
			2020A8012	BL2	Lee Jun-Sik	

Science and Technology of Advanced Materials

42865	Tetsuya Hamada	22 (2021) 373-385	2018B1066	BL02B1	乾 晴行	Phase Equilibria among η-Fe_2Al_5 and Its Higher-ordered Phases
			2019B1352	BL02B1	乾 晴行	
			2020A0763	BL02B1	乾 晴行	

Science and Technology of Advanced Materials: Methods

42843	Tarojiro Matsumura	1 (2021) 45-55	2018B7580	BL07LSU	永村 直佳	Spectrum Adapted Expectation-conditional Maximization Algorithm for Extending High–throughput Peak Separation Method in XPS Analysis
			2019A7451	BL07LSU	永村 直佳	
			2015A7482	BL07LSU	吹留 博一	
			2014B7472	BL07LSU	吹留 博一	
			2013B7451	BL07LSU	吹留 博一	
			2013A7443	BL07LSU	吹留 博一	
			2012B7402	BL07LSU	堀場 弘司	

Solid State Ionics

43076	Yoichiro Tsuji	357 (2020) 115502	2018B1437	BL37XU	折笠 有基	Surface Analysis of Lanthanum Strontium Cobalt Oxides under Cathodic Polarization at High Temperature through *Operando* Total-Reflection X-ray Absorption and X-ray Fluorescence Spectroscopy
			2019A1287	BL37XU	折笠 有基	
			2019B1289	BL37XU	折笠 有基	
			2019B1295	BL01B1	折笠 有基	
			2019B1363	BL37XU	折笠 有基	

Structure

43072	Tsukasa Kusakizako	27 (2019) 293-301	2018A2544	BL32XU	石谷 隆一郎	Structural Basis of H^+-Dependent Conformational Change in a Bacterial MATE Transporter
			2012B1146	BL32XU	塚崎 智也	
			2013A1128	BL32XU	塚崎 智也	
			2013A1168	BL32XU	濡木 理	

Zeitschrift fur Naturforschung B

42883	Akira Yoshiasa	76 (2021) 591-597	2014B1043	BL04B2	吉朝 朗	High-temperature Diffraction Experiments and Phase Diagram of ZrO_2 and $ZrSiO_4$

日本磁気学会論文特集号（Transaction of the Magnetics Society of Japan Special Issues）

42923	Ken Masuzawa	(2022) Online published 25 Jan. 2022	2020A1119	BL17SU	小嗣 真人	Analysis of the Coercivity Mechanism of YIG Based on the Extended Landau Free Energy Model
			2021A1447	BL17SU	小嗣 真人	
			2021B1430	BL17SU	小嗣 真人	
			2019B1181	BL17SU	小嗣 真人	
			2019A1175	BL17SU	小嗣 真人	

日本複合材料学会誌（Journal of the Japan Society of Composite Materials）

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43017	Ryosuke Shoya	47 (2021) 186-193	2020A0655	BL20XU	高橋 航圭	In-situ Tensile and Fatigue Testing for Detection of Interfacial Debonding between Carbon Fibers and Epoxy Matrix by Synchrotron Radiation X-ray Nano-CT

博士論文（大阪大学）

42931	Masato Anada	(2020)	2012B4901	BL15XU	若林 裕助	Structural Condensed Matter Physics Study of Strongly Correlated $LaMO_3$ (M = Mn, Ni) Interfaces
			2013A4901	BL15XU	若林 裕助	
			2019A1113	BL13XU	若林 裕助	
43208	Yu Tomofuji	(2022)	2017B1062	BL40B2	寺尾 憲	The Conformational Transformation of Multi-Stranded Helical Polysaccharides and Complexation with Nanoparticles in Aqueous Media
			2018A1124	BL40B2	寺尾 憲	
			2018B1088	BL40B2	寺尾 憲	
			2019A1072	BL40B2	寺尾 憲	
			2019B1113	BL40B2	寺尾 憲	
			2020A1132	BL40B2	寺尾 憲	
			2020A0529	BL40B2	寺尾 憲	
			2021A1092	BL40B2	寺尾 憲	
43238	Sitanan Sartyoungkul	(2020)	2018B1419	BL02B1	塊山 佑美	Properties of Triazasumanene and Related Cyclic Triamides

博士論文（University of Warwick）

42886	Daniel O'Neill	(2021)	2018B1528	BL08W	Duffy Jonathan	Studies of Electronic Structure of Novel Phenomena using Magnetic Compton Scattering
			2018A1432	BL08W	Duffy Jonathan	
			2016A0131	BL08W	Duffy Jonathan	
42897	David Kersh	(2016)	2012B0045	BL08W	Duffy Jonathan	Electronic Structure Studies of Exotic Phenomena using Magnetic Compton Scattering

博士論文（京都大学）

43104	Shin Ryu	(2021)	2016B1008	BL01B1	今井 英人	Structural Studies of Pt-Based Electrocatalysts for Polymer Electrolyte Fuel Cells
			2016B1012	BL37XU	今井 英人	
			2019B1016	BL37XU	内本 喜晴	
			2019B1015	BL02B2	内本 喜晴	
43267	Lavakumar Avala	(2021)	2021A1039	BL46XU	辻 伸泰	Microstructural and Mechanical Nature of Low Alloy Multiphase Steel Composed of Ferrite, Martensite, and Austenite
			2021A1618	BL46XU	辻 伸泰	
			2019A1783	BL46XU	辻 伸泰	
			2019B1030	BL46XU	辻 伸泰	
			2020A1021	BL46XU	辻 伸泰	
			2020A1854	BL46XU	辻 伸泰	

博士論文（Charite - University Medicine Berlin）

42989	Luisa Sauthof	(2021)	2018B8076	BL2	Orville Allen	Structural Investigation of the Photocycle of the Bacterial Bathy Phytochrome Agp2 PAiRFP2

博士論文（Helmholtz-Zentrum Dresden-Rossendorf）

42987	Anja Schuster	(2021)	2018B8090	BL3	Kraus Dominik	Recovery of Nanodiamonds from Dynamically Shock-compressed Graphite and Hydrocarbon Samples

博士論文（University of Edinburgh）

43112	Veronika Afonina	(2018)	2016B1404	BL10XU	Howie Ross	Optical Studies of Diatomic Molecules at Extreme Conditions

博士論文（九州大学）

43105	Makoto Miyajima	(2022)	2018A1560	BL46XU	土井 教史	Study on Structural Analysis of Tribofilms Formed from Sulfur Extreme Pressure Additives
			2018B1771	BL46XU	土井 教史	
			2019B1691	BL46XU	宮島 慎	

博士論文（東京大学）

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43102	Kohei Yamamoto	(2022)	2017A8048	BL1	松田 巌	Photo-induced Spin Dynamics of Ferro- and Antiferromagnetic Thin Films Studied by Synchrotron Radiation
			2017B8060	BL3	和達 大樹	
			2017B8088	BL3	久保田 雄也	
			2018A7402	BL07LSU	山崎 裕一	
			2018A8011	BL1	山崎 裕一	
			2018B8026	BL1	山崎 裕一	
			2018B7402	BL07LSU	山崎 裕一	
			2018B8040	BL1	小嗣 真人	
			2018B8052	BL1	松田 巌	
			2019A7402	BL07LSU	山崎 裕一	
			2019A8020	BL1	山崎 裕一	
			2019B7402	BL07LSU	山崎 裕一	
			2019B8059	BL1	山本 航平	
			2020A8122	BL1	山本 航平	

博士論文（東京工業大学）

42929	Takahiro Ogino	(2022)	2020A1139	BL13XU	平山 博之	Interface Effect on Two-dimensional Superconductivity of √7×√3-In-rect on Si(111)√3×√3-B

博士論文（東京理科大学）

43170	Ryohei Tsuruta	(2021)	2018B1865	BL19B2	鶴田 諒平	有機分子間へテロエピタキシャル接合の構造と成長メカニズムに関する研究
			2018A1755	BL46XU	鶴田 諒平	
			2019A1715	BL19B2	鶴田 諒平	
			2019B1908	BL19B2	鶴田 諒平	
			2015A1685	BL46XU	中山 泰生	
			2015B1624	BL46XU	中山 泰生	
			2016B1612	BL46XU	中山 泰生	
			2017A1570	BL46XU	中山 泰生	
			2017A1815	BL19B2	中山 泰生	
			2017B1624	BL46XU	中山 泰生	
			2020A1627	BL19B2	中山 泰生	

博士論文（三重大学）

43002	Akinori Nakano	(2021)	2019A1595	BL40B2	鳥飼 直也	Studies on Condition and Mechanism of α-gel Formation Exhibiting Pearl Luster
			2020A1581	BL40B2	鳥飼 直也	

課題以外の成果として登録された論文

Acta Crystallographica Section F

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
42984	Keisuke Sakurai	65 (2009) 80-83		BL41XU BL44XU	Substrate Binding Induces Structural Changes in Cytochrome P450cam
43098	Mayumi Kanagawa	66 (2010) 893-898	理研	BL26B2	Structures of Hypoxanthine-guanine Phosphoribosyltransferase (TTHA0220) from *Thermus thermophilus* HB8

The Journal of Biochemistry

42902	Hiroko Ikushiro	146 (2009) 549-562		BL38B1	Structural Insights into the Enzymatic Mechanism of Serine Palmitoyltransferase from Sphingobacterium multivorum
43110	Yoshinori Matsuura	148 (2010) 449-458	理研	BL28B2	Remarkable Improvement in the Heat Stability of CutA1 from Escherichia Coli by Rational Protein Design

Journal of Molecular Biology

42891	Tsuyoshi Shirai	391 (2009) 390-403		BL38B1	Structure of Rhamnose-binding Lectin CSL3: Unique Pseudo-tetrameric Architecture of a Pattern Recognition Protein
43021	Masayuki Okuyama	392 (2009) 1232-1241		BL41XU	Catalytic Mechanism of Retaining α-Galactosidase Belonging to Glycoside Hydrolase Family 97

Acta Crystallographica Section D

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
43064	P. Gayathri	65 (2009) 847-857		BL44XU	Biochemical and Structural Characterization of Residue 96 Mutants of Plasmodium falciparum Triosephosphate Isomerase: Active-site Loop Conformation, Hydration and Identification of a Dimer-interface Ligand-binding Site

Biochemical and Biophysical Research Communications

43117	Takashi Matsumoto	400 (2010) 369-373	理研	BL26B2	Crystal Structures of MKK4 Kinase Domain Reveal that Substrate Peptide Binds to an Allosteric Site and Induces an Auto-inhibition State

Biochimica et Biophysica Acta - Proteins and Proteomics

43134	Mary Rose G. Tandang-Silvas	1804 (2010) 1432-1442		BL38B1	Conservation and Divergence on Plant Seed 11S Globulins Based on Crystal Structures

BMC Structural Biology

42894	Takuji Oyama	9 (2009) 2		BL40B2 BL41XU	Atomic Structures and Functional Implications of the Archaeal RecQ-like Helicase Hjm

The FEBS Journal

42892	Yasuyuki Kawashima	276 (2009) 2547-2556		BL38B1 BL41XU	Molecular Design of a Nylon-6 Byproduct-degrading Enzyme from a Carboxylesterase with a β-lactamase Fold

Journal of Biological Inorganic Chemistry

43095	Osami Shoji	15 (2010) 1331-1339	理研	BL26B1	Understanding Substrate Misrecognition of Hydrogen Peroxide Dependent Cytochrome P450 from Bacillus Subtilis

Journal of the American Chemical Society

43065	Takashi Hayashi	131 (2009) 1398-1400		BL44XU	A Role of the Heme-7-Propionate Side Chain in Cytochrome P450cam as a Gate for Regulating the Access of Water Molecules to the Substrate-Binding Site

Nature

42849	Eiji Obayashi	454 (2008) 1127-1131		BL41XU	The Structural Basis for an Essential Subunit Interaction in Influenza Virus RNA Polymerase

Nature Structural and Molecular Biology

42983	Xu Zhang	16 (2009) 89-90		BL41XU	Crystal Structure of TIPE2 Provides Insights into Immune Homeostasis

Nucleic Acids Research

42982	Sung Chul Ha	37 (2009) 629-637		BL41XU	The Structures of Non-CG-repeat Z-DNAs Co-crystallized with the Z-DNA-binding Domain, hZα

Physical Review X

42954	Daisuke Takegami	12 (2022) 011017		BL12XU	$CaCu_3Ru_4O_{12}$: A High-Kondo-Temperature Transition-Metal Oxide

Protein Science

42890	Taku Ohki	18 (2009) 1662-1673		BL38B1 BL41XU	Two Alternative Modes for Optimizing Nylon-6 Byproduct Hydrolytic Activity from a Carboxylesterase with a β-lactamase Fold: X-ray Crystallographic Analysis of Directly Evolved 6-aminohexanoate-dimer Hydrolase

Proteins: Structure, Function, and Bioinformatics

43135	Han-Woo Kim	78 (2010) 496-500		BL38B1	Structure of Hyperthermophilic Endocellulase from *Pyrococcus horikoshii*

Review of Scientific Instruments

42840	Gota Yamaguchi	92 (2021) 123106	光学系	BL1	Copper Electroforming Replication Process for Soft X-ray Mirrors

Scientific Reports

42882	Shinji Kohara	11 (2021) 22180		BL04B2	Relationship between Diffraction Peak, Network Topology, and Amorphous-forming Ability in Silicon and Silica