

## 最近 SPring-8 もしくは SACLA から発表された成果リスト

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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/](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 7 月～9 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/](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 7 月～9 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	12	Chemistry Letters	4
Journal of the American Chemical Society	11	Chemistry Materials	4
Nature Communications	8	IUCrJ	4
Scientific Reports	6	Journal of Medicinal Chemistry	4
Biochemical and Biophysical Research Communications	5	Journal of Molecular Biology	4
		Journal of Synchrotron Radiation	4
Inorganic Chemistry	5	Nucleic Acid Research	4
The Journal of Biological Chemistry	5	Physical Review Research	4
Journal of the Ceramic Society of Japan	5	Proceedings of the National Academy of Sciences of the United States of America	4
ACS Sustainable Chemistry & Engineering	4		
Acta Crystallographica Section D	4	Science Advances	4

他全 173 誌、計 312 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

Journal of the American Chemical 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
43932	Hiroki Minamihara	144 (2022) 11525-11529	2021A1202	BL02B2	北川 宏	Continuous-Flow Reactor Synthesis for Homogeneous 1 nm-Sized Extremely Small High-Entropy Alloy Nanoparticles
			2021B1202	BL02B2	北川 宏	
			2020A0622	BL04B2	Kumara L. S.	
44026	Sei-Hyun Choi	143 (2021) 20291-20295	2017B4000	BL12B2	Chen Chun Jung	Evidence for an Enzyme-Catalyzed Rauhut-Currier Reaction during the Biosynthesis of Spinosyn A
			2017B6600	BL44XU	Chen Chun Jung	
			2018A6600	BL44XU	Chen Chun Jung	
			2018B6600	BL44XU	Chen Chun Jung	
			2019A6600	BL44XU	Chen Chun Jung	
44094	Lichen Bai	141 (2019) 14190-14199	2016A4129	BL12B2	Chen Hao-Ming	A Cobalt-Iron Double-Atom Catalyst for the Oxygen Evolution Reaction
			2016B4129	BL12B2	Chen Hao-Ming	
44100	Aliki Moysiadou	142 (2020) 11901-11914	2019B4132	BL12B2	Chen Hao-Ming	Mechanism of Oxygen Evolution Catalyzed by Cobalt Oxyhydroxide: Cobalt Superoxide Species as a Key Intermediate and Dioxygen Release as a Rate-Determining Step
44156	Yuki Nakaya	144 (2022) 15944-15953	2021A1571	BL01B1	中谷 勇希	High-Entropy Intermetallics Serve Ultrastable Single-Atom Pt for Propane Dehydrogenation
			2021B1795	BL01B1	中谷 勇希	
			2020A0611	BL01B1	Wang Feng	
			2021A1541	BL14B2	古川 森也	
			2021A1387	BL01B1	Wang Feng	
44158	Naoki Ando	143 (2021) 9944-9951	2020A0834	BL02B1	西野 龍平	Boron-Doped Polycyclic $\pi$ -Electron Systems with an Antiaromatic Borole Substructure That Forms Photoresponsive B-P Lewis Adducts
			2020A1650	BL02B1	薄葉 純一	
			2020A1644	BL02B1	潘 楊	
			2020A1056	BL02B1	笹森 貴裕	
			2019B1784	BL02B1	早川 雅大	
			2019B1129	BL02B1	笹森 貴裕	
			2019A1677	BL02B1	鈴木 文陽	
			2019A1057	BL02B1	笹森 貴裕	
			2018B1668	BL02B1	菅原 知紘	
2018A1167	BL40XU	笹森 貴裕				
44202	Tao Peng	143 (2021) 17226-17235	2019A4129	BL12B2	Chen Hao-Ming	Ternary Alloys Enable Efficient Production of Methoxylated Chemicals via Selective Electrocatalytic Hydrogenation of Lignin Monomers
44232	Leonie Spitz	144 (2022) 16866-16871	2021B1261	BL02B1	鬼頭 俊介	Entropy-Assisted, Long-Period Stacking of Honeycomb Layers in an AlB <sub>2</sub> -Type Silicide
44250	Huachuan Sun	144 (2022) 1174-1186	2019B4138	BL12B2	Chen Hao-Ming	Atomic Metal-Support Interaction Enables Reconstruction-Free Dual-Site Electrocatalyst
44274	Shaoyu Chen	144 (2022) 3543-3553	2017A1514	BL04B2	梶谷 孝	Photoactuating Artificial Muscles of Motor Amphiphiles as an Extracellular Matrix Mimetic Scaffold for Mesenchymal Stem Cells
			2017A1526	BL45XU	梶谷 孝	

Physical Review B -1

43916	Kohei Yamagami	106 (2022) 045137	2020A3844	BL23SU	藤澤 唯太	Enhanced <i>d-p</i> Hybridization Intertwined with Anomalous Ground State Formation in the van der Waals Itinerant Magnet Fe <sub>5</sub> GeTe <sub>2</sub>
43982	Shigenori Ueda	106 (2022) 075101	2020A4606	BL15XU	上田 茂典	Direct Probing of Temperature-independent Bulk Half-metallicity in Co <sub>2</sub> MnSi by Spin-resolved Hard X-ray Photoemission
			2020A4702	BL15XU	上田 茂典	
44047	Yi-Ying Chin	100 (2019) 205139	2019B4263	BL12XU	Chin Yi-Ying	Spin-orbit Coupling and Crystal-field Distortions for a Low-spin 3d <sup>5</sup> State in BaCoO <sub>3</sub>
44109	Johannes Falke	103 (2021) 115125	2019B4258	BL12XU	武上 大介	Electronic Structure of the Metallic Oxide ReO <sub>3</sub>
44118	Masato Fujii	106 (2022) 035118	2020A1148	BL17SU	溝川 貴司	Bulk and Surface Electronic Structure of MnPSe <sub>3</sub> Revealed by Photoemission and X-ray Absorption Spectroscopy
			2019A1183	BL17SU	溝川 貴司	
			2019B1222	BL17SU	溝川 貴司	

Physical Review B -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
44221	Chien Wen Chuang	102 (2020) 165127	2019A4270	BL12XU	Chainani Ashish	Hard X-ray Photoemission Spectroscopy of GdNi and HoNi
44223	Biswajit Dalal	106 (2022) 104425	2020A4501	BL15XU	Belik Alexei	Inverse Exchange Bias Effects and Magnetoelectric Coupling of the Half-doped Perovskite-type Chromites Gd <sub>0.5</sub> Sr <sub>0.5</sub> CrO <sub>3</sub> and Gd <sub>0.5</sub> Ca <sub>0.5</sub> CrO <sub>3</sub>
			2021A1169	BL02B2	山浦 一成	
44234	T. Ly Nguyen	106 (2022) 045144	2021A4255	BL12XU	Chainani Ashish	Hard X-ray Photoemission Spectroscopy of the Ferrimagnetic Series Gd <sub>6</sub> (Mn <sub>1-x</sub> Fe <sub>x</sub> ) <sub>23</sub>
44235	Thomas Gruner	106 (2022) 115142	2017A1295	BL35XU	Stockert Oliver	Phonon Softening in Lu(Pt <sub>1-x</sub> Pd <sub>x</sub> ) <sub>2</sub> In Close to a Zero-temperature Structural Instability
			2017B1526	BL35XU	Stockert Oliver	
			2017B1889	BL35XU	筒井 智嗣	
44236	H. Kizaki	106 (2022) 064434	2010A1173	BL39XU	内富 直隆	Anomalous Atomic Fluctuations in the Local Structure around Mn of (Zn,Sn,Mn)As <sub>2</sub> Thin Films
			2011A1270	BL39XU	内富 直隆	

Nature Communications

43985	Rina Takahashi	12 (2021) 6691	2018B0938	BL14B2	若林 裕助	Mechanochemical Synthesis of Magnesium-based Carbon Nucleophiles in Air and Their Use in Organic Synthesis
			2020A1879	BL14B2	高谷 光	
44006	Kazuhiro Abe	12 (2021) 5709	2020A2707	BL41XU	阿部 一啓	Gastric Proton Pump with Two Occluded K <sup>+</sup> Engineered with Sodium Pump-mimetic Mutations
			2020A2707	BL45XU	阿部 一啓	
44097	Qilin Wang	11 (2020) 4246	2019A4129	BL12B2	Chen Hao-Ming	Coordination Engineering of Iridium Nanocluster Bifunctional Electrocatalyst for Highly Efficient and pH-universal Overall Water Splitting
			2019A4137	BL12B2	Chen Hao-Ming	
44170	Hirokatsu Yumoto	13 (2022) 5300	2020A8067	BL2	湯本 博勝	High-fluence and High-gain Multilayer Focusing Optics to Enhance Spatial Resolution in Femtosecond X-ray Laser Imaging
			2019A8096	BL2	湯本 博勝	
			2019B8085	BL2	湯本 博勝	
			2016B8089	BL2	小山 貴久	
			2017A8085	BL2	小山 貴久	
			2017B8089	BL2	小山 貴久	
			2018A8081	BL2	小山 貴久	
			2018B8096	BL2	小山 貴久	
			2017B8087	BL2	城地 保昌	
			2018A8047	BL2	西野 吉則	
			2018B8025	BL2	西野 吉則	
44189	Victoria C. Young	13 (2022) 5270	2020A2707	BL45XU	阿部 一啓	Structure and Function of H <sup>+</sup> /K <sup>+</sup> Pump Mutants Reveal Na <sup>+</sup> /K <sup>+</sup> Pump Mechanisms
			2020A2707	BL41XU	阿部 一啓	
44239	Yingcai Zhu	13 (2022) 4179	2021B1109	BL01B1	Zhu Yingcai	Multiple Valence Bands Convergence and Strong Phonon Scattering Lead to High Thermoelectric Performance in p-type PbSe

Scientific Reports

43925	Takao Takiyama	12 (2022) 13136	2014A1716	BL20B2	滝山 由美	A Maternal High-fat Diet Induces Fetal Origins of NASH-HCC in Mice
			2014B1802	BL20B2	滝山 由美	
			2018A1379	BL20B2	滝山 由美	
			2019B1445	BL20B2	滝山 由美	
43968	Yuta Matsukawa	11 (2021) 20505	2018B0938	BL14B2	若林 裕助	Microwave-assisted Photooxidation of Sulfoxides
			2020A1879	BL14B2	高谷 光	
43989	Kotaro Anamizu	12 (2022) 12653	2019A2557	BL26B1	橋本 涉	Substrate Size-dependent Conformational Changes of Bacterial Pectin-binding Protein Crucial for Chemotaxis and Assimilation
			2020A2577	BL26B1	橋本 涉	
			2021A2770	BL26B1	高瀬 隆一	
44043	Cheng Chung Lee	9 (2019) 4546	2016B6600	BL44XU	Chen Chun Jung	An Effective Neutralizing Antibody Against Influenza Virus H1N1 from Human B Cells
			2017A6600	BL44XU	Chen Chun Jung	
44085	Hirokazu Masai	12 (2022) 14761	2020A1494	BL04B2	正井 博和	Densification in Transparent SiO <sub>2</sub> Glasses Prepared by Spark Plasma Sintering
			2021A1166	BL04B2	正井 博和	
			2021A1144	BL43IR	正井 博和	
			2021B1149	BL43IR	正井 博和	
44203	Wen-Dung Hsu	11 (2021) 1929	2018A4135	BL12B2	Chen Tsan Yao	Preferential Lattice Expansion of Polypropylene in a Trilayer Polypropylene/Polyethylene/Polypropylene Microporous Separator in Li-ion Batteries

### 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
43952	Yumi Matsuo	61 (2022) 11746-11756	2019B1251	BL02B2	赤松 寛文	Topochemical Synthesis of LiCoF <sub>3</sub> with a High-Temperature LiNbO <sub>3</sub> -Type Structure
			2019A1144	BL02B2	赤松 寛文	
			2020A1253	BL02B2	赤松 寛文	
			2021A1473	BL02B2	赤松 寛文	
43981	Kengo Oka	61 (2022) 12552-12558	2021A1201	BL02B2	岡 研吾	Negative Thermal Expansion in Fluoroapatite Pb <sub>5</sub> (VO <sub>4</sub> ) <sub>3</sub> F Enhanced by the Steric Effect of Pb <sup>2+</sup>
			2020A1773	BL19B2	東 正樹	
43998	Masayuki Fukuda	61 (2022) 12719-12725	2021B1195	BL10XU	Xing Xianran	Suppression of Pressure-Induced Phase Transitions in a Monoclinically Distorted LiNbO <sub>3</sub> -Type CuNbO <sub>3</sub> by Preference for a CuO <sub>3</sub> Triangular Coordination Environment
			2021B1869	BL19B2	東 正樹	
43999	Chengchao Zhong	61 (2022) 9816-9822	2018B1163	BL02B2	陰山 洋	Lone-Pair-Induced Intra- and Interlayer Polarizations in Sillén-Aurivillius Layered Perovskite Bi <sub>4</sub> NbO <sub>8</sub> Br
			2020A1669	BL02B2	加藤 大地	
44129	Shiori Kihara	61 (2022) 12822-12827	2022A1250	BL02B2	酒井 雄樹	Bi <sub>0.5</sub> Pb <sub>0.5</sub> FeO <sub>3</sub> with Unusual Pb Charge Disproportionation: Indication of a Systematic Charge Distribution Change in Bi <sub>0.5</sub> Pb <sub>0.5</sub> MO <sub>3</sub> (M: 3d Transition Metal)
			2017A1242	BL09XU	東 正樹	
			2017B1721	BL47XU	西久保 匠	
			2020A0589	BL02B2	Pan Zhao	
			2020A1646	BL02B2	福田 真幸	
			2020A1887	BL46XU	東 正樹	
			2021A1156	BL02B2	Pan Zhao	
			2021A1282	BL02B2	東 正樹	
			2021A1633	BL46XU	東 正樹	
2021B1358	BL09XU	東 正樹				

### Chemistry Letters

43958	Arisu Sakai	51 (2022) 723-727	2020A1360	BL01B1	吉田 真明	Development of a MnCO <sub>3</sub> -based Electrocatalyst for Water Oxidation from Rhodochrosite Ore
			2021B1168	BL01B1	吉田 真明	
44048	Julius Adrie Garcia	51 (2022) 898-901	2022A1200	BL02B1	箕浦 真生	Synthesis of a Kinetically Stabilized 2,2-Dihydrosilene
			2022A1621	BL02B1	行本 万里子	
44130	Sota Iwao	51 (2022) 781-783	2018B2107	BL40B2	太田 昇	Ordered Silica Nanostructure by the Calcination of Block Copolymer with Polyhedral Oligomeric Silsesquioxane (POSS) Side Chain
			2019A2063	BL40B2	太田 昇	
			2020A2044	BL40B2	太田 昇	
			2021A1162	BL40B2	平井 智康	
			2021B1157	BL40B2	平井 智康	
44181	Yuma Hamada	51 (2022) 894-897	2020A1307	BL40B2	櫻木 美菜	Characterization of w/o-type Microemulsions Containing l-Menthol-based Deep Eutectic Solvents for Use in Transdermal Drug Delivery
			2020A0616	BL40B2	櫻木 美菜	

### Chemistry of Materials

43929	Suguru Yoshida	34 (2022) 6492-6504	2018B1696	BL02B2	吉田 傑	Interplay between Oxygen Octahedral Rotation and Deformation in the Acentric ARTIO <sub>4</sub> Series toward Negative Thermal Expansion
			2019A1144	BL02B2	赤松 寛文	
43937	Yanchang Wang	34 (2022) 609-616	2019A1817	BL14B2	山本 健太郎	Anion Substitution at Apical Sites of Ruddlesden–Popper-type Cathodes toward High Power Density for All-Solid-State Fluoride-Ion Batteries
			2019B1015	BL02B2	内本 喜晴	
			2020A1010	BL02B2	内本 喜晴	
			2020A1288	BL27SU	山本 健太郎	
			2020A1790	BL02B2	内本 喜晴	
2020A1836	BL14B2	山本 健太郎				
43953	Masaki Shimoda	34 (2022) 5634-5643	2021B1609	BL02B2	赤松 寛文	Controlling Defects to Achieve Reproducibly High Ionic Conductivity in Na <sub>3</sub> SbS <sub>4</sub> Solid Electrolytes
			2021A1473	BL02B2	赤松 寛文	
44256	Subin Song	34 (2022) 8237-8247	2021B1776	BL02B2	宋 水斌	Material Search for a Li <sub>10</sub> GeP <sub>2</sub> S <sub>12</sub> -Type Solid Electrolyte in the Li–P–S–X (X = Br, I) System via Clarification of the Composition–Structure–Property Relationships
			2020A1645	BL02B2	李 予祥	

### IUCrJ-1

43947	Tadeo Moreno Chicano	9 (2022) 610-624	2017B8014	BL2	Hough Michael	Complementarity of Neutron, XFEL and Synchrotron Crystallography for Defining the Structures of Metalloenzymes at Room Temperature
44030	Shao-Kang Chen	7 (2020) 934-948	2017A4000	BL12B2	Chen Chun Jung	Structural Insights into the Histidine-containing Phosphotransfer Protein and Receiver Domain of Sensor Histidine Kinase Suggest a Complex Model in the Two-component Regulatory System in <i>Pseudomonas aeruginosa</i>
			2017B4000	BL12B2	Chen Chun Jung	
			2017A6600	BL44XU	Chen Chun Jung	
			2017B6600	BL44XU	Chen Chun Jung	

IUCrJ-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
44153	Byeong Jun Jeon	8 (2021) 168-177	2017A6770	BL44XU	Hwang Kwang Yeon	Insights into the Structure of Mature Streptavidin C1 from <i>Streptomyces cinnamonensis</i> Reveal the Self-binding of the Extension C-terminal Peptide to Biotin-binding Sites
44154	Kitaik Lee	7 (2020) 1019-1027	2017A6770	BL44XU	Hwang Kwang Yeon	Monothiol and Dithiol Glutaredoxin-1 from <i>Clostridium oremlandii</i> : Identification of Domain-swapped Structures by NMR, X-ray Crystallography and HDX Mass Spectrometry

Journal of Medicinal Chemistry

43883	Saki Tanaka	65 (2022) 7843-7853	2021B2530	EM01CT	阿部 一啓	Structural Basis for Binding of Potassium-Competitive Acid Blockers to the Gastric Proton Pump
			2020A2707	BL41XU	阿部 一啓	
			2018B2703	BL41XU	阿部 一啓	
			2020A2707	BL45XU	阿部 一啓	
44032	LungChun Lee	64 (2021) 11288-11301	2019A6600	BL44XU	Chen Chun Jung	Xanthine Derivatives Reveal an Allosteric Binding Site in Methylene-tetrahydrofolate Dehydrogenase 2 (MTHFD2)
			2019B6600	BL44XU	Chen Chun Jung	
44035	Yi-Hui Peng	63 (2020) 1642-1659	2014A6600	BL44XU	Chen Chun Jung	Unique Sulfur-Aromatic Interactions Contribute to the Binding of Potent Imidazothiazole Indoleamine 2,3-Dioxygenase Inhibitors
			2014B6600	BL44XU	Chen Chun Jung	
			2015A6600	BL44XU	Chen Chun Jung	
44041	Wen-Hsing Lin	62 (2019) 11135-11150	2015A6600	BL44XU	Chen Chun Jung	Identification of a Multitargeted Tyrosine Kinase Inhibitor for the Treatment of Gastrointestinal Stromal Tumors and Acute Myeloid Leukemia
			2015B6600	BL44XU	Chen Chun Jung	
			2016A6600	BL44XU	Chen Chun Jung	
			2016B6600	BL44XU	Chen Chun Jung	

Physical Review Research

43868	Laura Chaix	4 (2022) 033004	2019B1779	BL35XU	西久保 匠	Bulk Charge Density Wave and Electron-phonon Coupling in Superconducting Copper Oxochlorides
43908	Lisa Randolph	4 (2022) 033038	2018B8049	BL2	中堤 基彰	Nanoscale Subsurface Dynamics of Solids upon High-intensity Femtosecond Laser Irradiation Observed by Grazing-incidence X-ray Scattering
44110	Daisuke Takegami	4 (2022) 033108	2019B4258	BL12XU	武上 大介	Direct Imaging of Valence Orbitals using Hard X-ray Photoelectron Spectroscopy
44213	Yoshinori Ohmasa	4 (2022) 033215	2017B3680	BL14B1	高木 成幸	Rotation of Complex Ions with Ninefold Hydrogen Coordination Studied by Quasielastic Neutron Scattering and First-principles Molecular Dynamics Calculations
			2018A3680	BL14B1	高木 成幸	
			2018B3680	BL14B1	高木 成幸	
			2019A3680	BL14B1	高木 成幸	
			2019B3680	BL14B1	高木 成幸	
			2020A3680	BL14B1	高木 成幸	

Science Advances

43917	Yoshihiko Furuike	8 (2022) eabm8990	2020A6502	BL44XU	秋山 修志	Elucidation of Master Allostery Essential for Circadian Clock Oscillation in Cyanobacteria
			2019B6902	BL44XU	秋山 修志	
			2019A6902	BL44XU	秋山 修志	
			2018B6802	BL44XU	秋山 修志	
			2018A6802	BL44XU	秋山 修志	
			2017B6702	BL44XU	秋山 修志	
			2017A6702	BL44XU	秋山 修志	
			2020A6500	BL44XU	山下 栄樹	
			2020A6700	BL44XU	中川 敦史	
			2019B6700	BL44XU	中川 敦史	
			2019A6700	BL44XU	中川 敦史	
			2018B6700	BL44XU	中川 敦史	
			2018A6700	BL44XU	中川 敦史	
			2017B6700	BL44XU	中川 敦史	
44031	Shanshan Li	7 (2021) eabj9537	2011A6600	BL44XU	Hsiao Chwan Deng	Processive Cleavage of Substrate at Individual Proteolytic Active Sites of the Lon Protease Complex
			2011B6600	BL44XU	Hsiao Chwan Deng	
44131	Tatsushi Yoshioka	8 (2022) eabo3093	2020A0687	BL04B2	脇原 徹	Dealumination of Small-pore Zeolites through Pore-opening Migration Process with the Aid of Pore-filler Stabilization
			2021A1152	BL04B2	脇原 徹	
44230	Zhiyu He	8 (2022) eabo0617	2019A8070	BL3	Kraus Dominik	Diamond Formation Kinetics in Shock-compressed C—H—O Samples Recorded by Small-angle X-ray Scattering and X-ray Diffraction

### ACS Applied Energy 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
43939	SeungHoon Yang	5 (2022) 667-673	2020A1789	BL20XU	山本 健太郎	High Rate Capability from a Graphite Anode through Surface Modification with Lithium Iodide for All-Solid-State Batteries
44122	Bizuaem Wakuma Olbasa	3 (2020) 4499-4508	2019A4255	BL12XU	Hwang Bing Joe	High-Rate and Long-Cycle Stability with a Dendrite-Free Zinc Anode in an Aqueous Zn-Ion Battery Using Concentrated Electrolytes
			2019A4258	BL12XU	Hwang Bing Joe	
			2019B4126	BL12B2	Hwang Bing Joe	
44179	Sheng-Wei Hsiao	5 (2022) 10994-11001	2015A4260	BL12XU	Wu Pin Jiun	Thermal Effect on the Electronic Properties of ZnO/CdS/CIGSeS Solar Cell at/near the Heterojunction Interfaces

### ACS Applied Materials & Interfaces

44016	Kakaraparthi Kranthiraja	14 (2022) 28936-28944	2020A1875	BL46XU	佐伯 昭紀	Machine Learning-Assisted Polymer Design for Improving the Performance of Non-Fullerene Organic Solar Cells
			2021A1558	BL46XU	尾坂 格	
			2021A1641	BL46XU	但馬 敬介	
			2021A1687	BL46XU	森 裕樹	
44190	Nan-Hung Yeh	13 (2021) 7355-7369	2019A4134	BL12B2	Wang Fu-Ming	Controlling Ni <sup>2+</sup> from the Surface to the Bulk by a New Cathode Electrolyte Interphase Formation on a Ni-Rich Layered Cathode in High-Safe and High-Energy-Density Lithium-Ion Batteries
44206	Shin-Yu Wang	11 (2019) 40050-40061	2017A4127	BL12B2	Chen Hao-Ming	Defect Passivation by Amide-Based Hole-Transporting Interfacial Layer Enhanced Perovskite Grain Growth for Efficient p-i-n Perovskite Solar Cells

### ACS Omega

43996	Kazu Okumura	7 (2022) 27458-27468	2021A1429	BL01B1	奥村 和	Formation of a Pt-MgO Solid Solution: Analysis by X-ray Absorption Fine Structure Spectroscopy
			2021B1291	BL01B1	奥村 和	
			2022A1242	BL01B1	奥村 和	
44010	Kenta Aoshima	4 (2019) 15645-15652	2018A1568	BL46XU	尾坂 格	Regioregularity and Electron Deficiency Control of Unsymmetric Diketopyrrolopyrrole Copolymers for Organic Photovoltaics
			2018B1595	BL46XU	尾坂 格	
			2019A1765	BL46XU	尾坂 格	
44163	Akito Kawai	7 (2022) 29944-29951	2018B6812	BL44XU	河合 聡人	Chlorine Atoms of an Aripiprazole Molecule Control the Geometry and Motion of Aripiprazole and Deschloro-aripiprazole in Subdomain IIIA of Human Serum Albumin

### ACS Sustainable Chemistry & Engineering

44077	Mozaffar Abdollahifar	9 (2021) 13717-13725	2018A4129	BL12B2	Wu Nae-Lih	Room-Temperature Synthesis of LiMn <sub>2</sub> O <sub>4</sub> by Electrochemical Ion Exchange in an Aqueous Medium
			2018B4125	BL12B2	Wu Nae-Lih	
			2019A4125	BL12B2	Wu Nae-Lih	
			2019A4133	BL12B2	Wu Nae-Lih	
			2019B4133	BL12B2	Wu Nae-Lih	
44119	Erisa Kano	10 (2022) 12072-12081	2020A1690	BL01B1	相原 健司	Continuous Production of Lactic Acid from Glycerol over Bifunctional Catalysts under Base-Free Conditions Using a Liquid-Phase Flow Reactor
44205	You-Chiuan Chu	7 (2019) 14247-14255	2017A4127	BL12B2	Chen Hao-Ming	Anionic Effects on Metal Pair of Se-Doped Nickel Diphosphide for Hydrogen Evolution Reaction
			2017B4128	BL12B2	Chen Hao-Ming	

### Biochemical and Biophysical Research Communications

43991	Sakiko Nakatsuji	594 (2022) 124-130	2017B2592	BL38B1	橋本 涉	Crystal Structures of EfeB and EfeO in a Bacterial Siderophore-independent Iron Transport System
			2019A2557	BL26B1	橋本 涉	
			2020A2577	BL26B1	橋本 涉	
			2021A2770	BL26B1	高瀬 隆一	
44150	Kimiko Chaen	424 (2012) 508-511	2007B1359	BL38B1	角田 佳充	Crystal Structure of the Rice Branching Enzyme I (BEI) in Complex with Maltopentaose
			2007B1995	BL41XU	角田 佳充	
44185	Asaka Ikeda	630 (2022) 30-35	2020A6513	BL44XU	木下 誉富	Bivalent Binding Mode of an Amino-pyrazole Inhibitor Indicates the Potentials for CK2α1-selective Inhibitors
			2021A6612	BL44XU	木下 誉富	

### Frontiers in 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
43914	Naoto Kitamura	9 (2022) 954729	2020A1134	BL04B2	井手本 康	Effects of Ca Substitution on the Local Structure and Oxidation Behavior of Layered Perovskite Lanthanum Nickelate
			2014B1932	BL14B2	井手本 康	
			2017A1290	BL04B2	井手本 康	
44113	Mamoru Kitaura	9 (2022) 977371	2019B1080	BL13XU	北浦 守	Atomic Positions and Displacements in Piezoelectric Materials $\text{Ca}_3\text{TaGa}_3\text{Si}_2\text{O}_{14}$ and $\text{Ca}_3\text{TaGa}_{1.5}\text{Al}_{1.5}\text{Si}_2\text{O}_{14}$ Investigated by Ta-La X-ray Fluorescence Holography
44155	Satoshi Watanabe	9 (2022) 825592	2020A1666	BL02B2	坂中 勇太	Mechanism of $\text{CO}_2$ Capacity Reduction of Flexible Metal-Organic Framework Caused by Water Adsorption
			2021A1588	BL02B2	坂中 勇太	
			2021B1792	BL02B2	坂中 勇太	
			2021B1526	BL02B2	平出 翔太郎	

### Journal of Alloys and Compounds

44082	Dinesh Bhalothia	844 (2020) 156160	2018B4128	BL12B2	Chen Tsan Yao	Ir-oxide Mediated Surface Restructure and Corresponding Impacts on Durability of Bimetallic $\text{NiO}_x/\text{Pd}$ Nanocatalysts in Oxygen Reduction Reaction
			2019A4261	BL12XU	Chen Tsan Yao	
			2019B4256	BL12XU	Chen Tsan Yao	
			2019B4274	BL12XU	Chen Tsan Yao	
44143	Shu-Chih Haw	862 (2021) 158050	2019A4267	BL12XU	Chen Jin-Ming	Unusual Mixed Spin-state of $\text{Co}^{3+}$ in the Ground State of $\text{LaSrCoO}_4$ : Combined High-pressure and High-temperature Study
44259	Kakeru Ninomiya	928 (2022) 167101	2019B1433	BL37XU	西堀 麻衣子	Chemical Interactions of Solute Atoms during $\text{L}_{12}$ Cluster Formation in Mg-Zn-Gd Alloys with Long-Period Stacking Ordered Structure
			2020A0608	BL37XU	西堀 麻衣子	
			2020A1405	BL28B2	西堀 麻衣子	
			2020A7479	BL07LSU	西堀 麻衣子	

### Journal of Physics: Condensed Matter

43862	Atsushi Togo	34 (2022) 365401	2017A1042	BL35XU	田中 功	LO-mode Phonon of KCl and NaCl at 300 K by Inelastic X-ray Scattering Measurements and First Principles Calculations
			2017B1297	BL35XU	田中 功	
			2018A1298	BL35XU	田中 功	
43946	Samuel Thompson	34 (2022) 394003	2017B1338	BL10XU	駒林 鉄也	High-pressure Melting Experiments of $\text{Fe}_3\text{S}$ and a Thermodynamic Model of the Fe-S Liquids for the Earth's Core
			2018B1464	BL10XU	駒林 鉄也	
44242	Tomoya Taguchi	33 (2021) 485704	2018B4140	BL12B2	久保園 芳博	Superconductivity of Topological Insulator $\text{Sb}_2\text{Te}_3\text{-}_y\text{Se}_y$ under Pressure
			2019A4131	BL12B2	久保園 芳博	

### Journal of Synchrotron Radiation

43994	Takahisa Koyama	29 (2022) 1265-1272	2021A2084	BL20B2	上杉 健太郎	Double-multilayer Monochromators for High-energy and Large-field X-ray Imaging Applications with Intense Pink Beams at SPing-8 BL20B2
44017	Satoshi Yamaguchi	29 (2022) 1258-1264	2017B7032	BL33XU	長井 康貴	Observation of Water Droplets in Microporous Layers for Polymer Electrolyte Fuel Cells by X-ray Computed Nanotomography
			2018A7032	BL33XU	長井 康貴	
			2018B7032	BL33XU	長井 康貴	
			2019A7032	BL33XU	山口 聡	
44079	Ryo Mashita	29 (2022) 1180-1186	2017B1397	BL09XU	間下 亮	Microscopic Observation of the Effects of Elongation on the Polymer Chain Dynamics of Crosslinked Polybutadiene using Quasi-elastic $\gamma$ -ray Scattering
			2018B1105	BL09XU	間下 亮	
			2019A1514	BL09XU	間下 亮	
			2019B1442	BL09XU	間下 亮	

### Journal of the Ceramic Society of Japan

43860	Takuya Aoyagi	130 (2022) 504-508	2019A5400	BL16B2	米山 明男	Effect of Adding $\text{Ag}_2\text{O}$ to Vanadium-containing Low-melting Glass for Low-temperature Sealing
			2019B5400	BL16B2	米山 明男	
			2012B1720	BL14B2	青柳 拓也	
			2013A1801	BL14B2	青柳 拓也	
			2017A1234	BL13XU	小原 真司	
43878	Shinnosuke Yasuoka	130 (2022) 436-441	2021A1160	BL13XU	白石 貴久	Enhancement of Crystal Anisotropy and Ferroelectricity by Decreasing Thickness in $(\text{Al},\text{Sc})\text{N}$ Films
43949	Miki Uchida	130 (2022) 707-714	2019A1592	BL02B2	武井 貴弘	Low Temperature Synthesis of Aluminum Nitride from Anhydrous Aluminum Chloride-organic Amine Complex

Macromolecules

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
43934	Walter W. Young	55 (2022) 6590-6597	2020A1348	BL40B2	深尾 浩次	A Hidden Relaxation Process in Poly(2-vinylpyridine) Homopolymers, Copolymers, and Nanocomposites
			2021A1250	BL40B2	深尾 浩次	
			2021B1420	BL40B2	深尾 浩次	
			2021B1422	BL40B2	深尾 浩次	
43954	Kota Aoki	55 (2022) 5591-5600	2020A1198	BL40B2	高橋 倫太郎	Structure and Rheology of Poly(vinylidene difluoride-co-hexafluoropropylene) in an Ionic Liquid: The Solvent Behaves as a Weak Cross-Linker through Ion-Dipole Interaction
			2021A1270	BL40B2	高橋 倫太郎	
			2022A1193	BL40B2	高橋 倫太郎	
44149	Kohji Tashiro	55 (2022) 6644-6660	2016B1431	BL40XU	田代 孝二	Electric-Field-Induced Phase Transition and Crystal Structural Change of the Oriented Poly(vinylidene Fluoride) $\beta$ Form as Clarified by the <i>In Situ</i> Synchrotron Wide-Angle X-ray Diffraction Measurement
			2017A1075	BL40XU	田代 孝二	
			2017B1213	BL40XU	田代 孝二	
			2019B1083	BL40XU	田代 孝二	
			2020A1224	BL40XU	田代 孝二	
			2021B1006	BL40XU	田代 孝二	
2016B1431	BL40XU	田代 孝二				

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44022	Izumi Masuda	259 (2022) 2100571	2020A4264	BL12XU	平岡 望	Synthesis and Electronic Characterization of Weyl Semimetal TaSb <sub>2</sub> Polycrystalline Material
			2021A4251	BL12XU	吉村 政人	
			2021B4256	BL12XU	吉村 政人	
44111	Benedict Paulus	259 (2022) 2100619	2018A1654	BL01B1	Paulus Benedict	Short-Range Order Investigation of Cu <sub>x</sub> Ge <sub>50-x</sub> Te <sub>50</sub> Phase-Change Materials
44144	Jianfa Zhao	258 (2021) 2100117	2019A4267	BL12XU	Chen Jin-Ming	Spin State and Spin-State Transition of Co <sup>3+</sup> Ion in BiCoO <sub>3</sub>

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

43865	Hiro Nakamura	119 (2022) e2123385119	2018A2580	BL32XU	當舎 武彦	Structural Basis for Heme Detoxification by an ATP-binding Cassette-type Efflux Pump in Gram-positive Pathogenic Bacteria
			理研	BL26B1		
			理研	BL26B2		
43910	Samuel Rose	119 (2022) e2205664119	2021A2747	BL26B1	當舎 武彦	Single Crystal Spectroscopy and Multiple Structures from One Crystal (MSOX) Define Catalysis in Copper Nitrite Reductases
43918	Yoshihiko Furuike	119 (2022) e2119627119	2020A6502	BL44XU	秋山 修志	Regulation Mechanisms of the Dual ATPase in KaiC
			2019B6902	BL44XU	秋山 修志	
			2019A6902	BL44XU	秋山 修志	
			2018B6802	BL44XU	秋山 修志	
			2018A6802	BL44XU	秋山 修志	
			2017B6702	BL44XU	秋山 修志	
			2017A6702	BL44XU	秋山 修志	
			2020A6500	BL44XU	山下 栄樹	
			2020A6700	BL44XU	中川 敦史	
			2019B6700	BL44XU	中川 敦史	
			2019A6700	BL44XU	中川 敦史	
			2018B6700	BL44XU	中川 敦史	
2018A6700	BL44XU	中川 敦史				
2017B6700	BL44XU	中川 敦史				

ACS Applied Polymer Materials

43863	Kakeru Obayashi	4 (2022) 5387-5394	2019A1558	BL40XU	高原 淳	Deformation Behavior of Polyurethane Adhesive in the Single-Lap Joint Based on the Microbeam X-ray Scattering Method
44011	Kakaraparthi Kranthiraja	3 (2021) 2759-2767	2017B1831	BL46XU	尾坂 格	Impact of Sequential Fluorination of Donor and/or Acceptor Polymers on the Efficiency and Morphology of All-Polymer Solar Cells
			2019A1765	BL46XU	尾坂 格	
			2020A1742	BL46XU	但馬 敬介	

ACS Nano

44126	Soressa Abera Chala	15 (2021) 14996-15006	2019B4272	BL12XU	Hwang Bing Joe	Tuning Dynamically Formed Active Phases and Catalytic Mechanisms of <i>In Situ</i> Electrochemically Activated Layered Double Hydroxide for Oxygen Evolution Reaction
			2019A4136	BL12B2	Hwang Bing Joe	
44133	Carlos Sanchez-Cano	15 (2021) 3754-3807	2019A1073	BL40B2	Conceicao Andre	X-ray-Based Techniques to Study the Nano-Bio Interface



### Acta Crystallographica Section D

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
44039	Hsien-Wei Yeh	75 (2019) 733-742	2015B6600	BL44XU	Chen Chun Jung	Biochemical and Structural Explorations of $\alpha$ -hydroxyacid Oxidases Reveal a Four-electron Oxidative Decarboxylation Reaction
			2016A6600	BL44XU	Chen Chun Jung	
			2016B6600	BL44XU	Chen Chun Jung	
			2017A6600	BL44XU	Chen Chun Jung	
			2017B6600	BL44XU	Chen Chun Jung	
44040	Syue-Yi Lyu	75 (2019) 918-929	2015B6600	BL44XU	Chen Chun Jung	The Flavin Mononucleotide Cofactor in $\alpha$ -hydroxyacid Oxidases Exerts its Electrophilic/Nucleophilic Duality in Control of the Substrate-oxidation Level
			2016A6600	BL44XU	Chen Chun Jung	
			2016B6600	BL44XU	Chen Chun Jung	
			2017A6600	BL44XU	Chen Chun Jung	
			2017B6600	BL44XU	Chen Chun Jung	

### Advanced Functional Materials

44000	Daichi Kato	32 (2022) 2204112	2020A1669	BL02B2	加藤 大地	$\text{Bi}_2\text{O}_{17}\text{Cl}_2$ with a Sextuple Bi—O Layer Composed of Rock-Salt and Fluorite Units and its Structural Conversion through Fluorination to Enhance Photocatalytic Activity
			2022A1081	BL02B2	加藤 大地	
44012	Kakaraparthi Kranthiraja	31 (2021) 2011168	2017B1831	BL46XU	尾坂 格	Experiment-Oriented Machine Learning of Polymer:Non-Fullerene Organic Solar Cells
			2019A1765	BL46XU	尾坂 格	
			2020A1742	BL46XU	但馬 敬介	

### Advanced Materials

44007	Dmitrii V. Semenok	34 (2022) 2204038	2020A0576	BL10XU	Troyan Ivan	Effect of Magnetic Impurities on Superconductivity in $\text{LaH}_{10}$
44095	Rong Chen	31 (2019) 1903909	2017B4136	BL12B2	Chen Hao-Ming	Layered Structure Causes Bulk NiFe Layered Double Hydroxide Unstable in Alkaline Oxygen Evolution Reaction
			2017B4142	BL12B2	Chen Hao-Ming	

### Bioscience, Biotechnology and Biochemistry

43990	Kenji Okumura	85 (2021) 2410-2419	2017B2592	BL38B1	橋本 涉	The Role of Calcium Binding to the EF-hand-like Motif in Bacterial Solute-binding Protein for Alginate Import
			2016A2574	BL38B1	橋本 涉	
43992	Daiju Doubayashi	75 (2011) 1662-1667	2010A6538	BL44XU	三上 文三	Formate Oxidase, an Enzyme of the Glucose-Methanol-Choline Oxidoreductase Family, Has a His-Arg Pair and 8-Formyl-FAD at the Catalytic Site

### Bulletin of the Chemical Society of Japan

44072	Ryohei Nishino	94 (2021) 2919-2921	2020A0834	BL02B1	西野 龍平	Synthesis of Dialkyl-Diphosphenes and -Distibenes that Bear Extended Triptycyl Groups
			2020A1056	BL02B1	笹森 貴裕	
			2020A1644	BL02B1	潘 楊	
			2020A1656	BL02B1	西野 龍平	
			2021A1592	BL02B1	西野 龍平	
			2019A1057	BL02B1	笹森 貴裕	
			2019A1677	BL02B1	鈴木 文陽	
			2019B1578	BL02B1	行本 万里子	
			2019B1774	BL02B1	鈴木 文陽	
44227	Yuma Nakagawa	95 (2022) 1438-1444	2021B1188	BL02B1	内田 欣吾	Phototunable Golden Luster Microcrystalline Film of Photochromic Diarylethene

### Chemical Communications

44135	Arnau Carné-Sánchez	58 (2022) 9894-9897	2016B1126	BL02B2	古川 修平	Photoactive Carbon Monoxide-releasing Coordination Polymer Particles
			2017A1180	BL02B2	古川 修平	
44263	Masaki Fujita	58 (2022) 9870-9873	2021A1597	BL02B1	田中 宏樹	Ion-pairing Assemblies of Heteroporphyrin-based $\pi$ -electronic Cation with Various Counteranions
			2021A1339	BL40XU	前田 大光	
			2021B1703	BL40XU	前田 大光	

### European Journal of Organic Chemistry

43873	Jingfeng Shen	2022 (2022) e202101563	2020A1177	BL02B1	砂田 祐輔	An Iridium Complex with a Phosphine-Pendant Silyl Ligand as an Efficient Catalyst for the ( <i>E</i> )-Selective Semihydrogenation of Alkynes
44253	Hang Xu	2022 (2022) e202200826	2021A1091	BL01B1	満留 敬人	Green Oxidation of Indoles Using Molecular Oxygen over a Copper Nitride Nanocube Catalyst
			2021A1647	BL14B2	水垣 共雄	
			2021B1945	BL14B2	水垣 共雄	

### Japanese Journal of Applied Physics

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
43870	Keita Aoyama	61 (2022) 070915	2016A1408	BL27SU	奥田 浩司	Absolute Measurements of Anomalous Small-angle X-ray Scattering Intensity using Glassy Carbon at the Mg K Absorption Edge
			2018A1205	BL27SU	奥田 浩司	
43997	Norihiro Oshime	61 (2022) SN1008	2020A3761	BL22XU	大和田 謙二	The Ferroelectric Phase Transition in a 500 nm Sized Single Particle of BaTiO <sub>3</sub> Tracked by Coherent X-ray Diffraction
			2020A3762	BL22XU	押目 典宏	
			2021A1100	BL40XU	黒岩 芳弘	
			2021A3751	BL22XU	町田 晃彦	
			2021A3761	BL22XU	大和田 謙二	
			2021A3762	BL22XU	押目 典宏	
			2021B1244	BL02B2	黒岩 芳弘	
			2021B3751	BL22XU	町田 晃彦	
			2021B3761	BL22XU	大和田 謙二	
			2021B3762	BL22XU	押目 典宏	
2022A1228	BL02B2	黒岩 芳弘				
2022A3784	BL22XU	黒岩 芳弘				

### Journal of Applied Crystallography

43961	Kohei Yatabe	55 (2022) 978-992	2019B3201	BL24XU	高山 裕貴	Phase Retrieval Based on a Total-variation-regularized Poisson Model for X-ray Ptychographic Imaging of Low-contrast Objects
			2020A3201	BL24XU	高山 裕貴	
43988	Nozomu Ishiguro	55 (2022) 929-943	2022A1430	BL37XU	石黒 志	Method for Restoration of X-ray Absorption Fine Structure in Sparse Spectroscopic Ptychography

### Journal of Applied Physics

43931	Kosuke Sato	132 (2022) 045104	2019B1057	BL09XU	松波 雅治	Electronic Structure of Silver Chalcogenides Investigated by Hard X-ray Photoemission Spectroscopy and Density Functional Theory Calculations
43959	Hiroshi Fukui	132 (2022) 055902	2018B1152	BL35XU	米田 明	Single Crystal Elasticity and Equation of State of Tantalum up to 54 GPa
			2019A1339	BL35XU	米田 明	
			2019B1144	BL35XU	福井 宏之	
			2020A1227	BL35XU	福井 宏之	

### Journal of Biomedical Science

44028	I Fan Tu	29 (2022) 9	2014B4011	BL12B2	Huang Kai Fa	Structural and Biological Insights into <i>Klebsiella pneumoniae</i> Surface Polysaccharide Degradation by a Bacteriophage K1 Lyase: Implications for Clinical Use
			2014A6600	BL44XU	Chen Chun Jung	
			2014B6600	BL44XU	Chen Chun Jung	
44029	Cheng Chung Lee	27 (2020) 12	2013B4011	BL12B2	Wang Andrew	Structural Basis of Polyethylene Glycol Recognition by Antibody
			2013A4001	BL12B2	Wang Andrew	

### Journal of Molecular Biology

43895	Keiko Kubota	407 (2011) 543-555	2006A2721	BL41XU	田之倉 優	The Crystal Structure of L-Sorbose Reductase from <i>Gluconobacter frateurii</i> Complexed with NADPH and L-Sorbose
44033	Wen-Chih Kuo	433 (2021) 166766	2015A6600	BL44XU	Chen Chun Jung	Structure-based Development of Human Interleukin-1 $\beta$ -Specific Antibody That Simultaneously Inhibits Binding to Both IL-1RI and IL-1RAcP
			2015B6600	BL44XU	Chen Chun Jung	
			2016A6600	BL44XU	Chen Chun Jung	
			2016B6600	BL44XU	Chen Chun Jung	

### The Journal of Physical Chemistry C

44008	Masaki Abe	126 (2022) 14047-14057	2021B1595	BL27SU	高橋 幸生	Visualization of Sulfur Chemical State of Cathode Active Materials for Lithium-Sulfur Batteries by Tender X-ray Spectroscopic Ptychography
			2019A0164	BL27SU	高橋 幸生	
			2020A0629	BL27SU	高橋 幸生	
			2018A1307	BL27SU	岸本 浩通	
			2018B1303	BL27SU	岸本 浩通	
44260	Yuki Omura	126 (2022) 6008-6015	2021A1648	BL14B2	梶原 貴人	Uniform Organically Modified CeO <sub>2</sub> Nanoparticles Synthesized from a Carboxylate Complex under Supercritical Hydrothermal Conditions: Impact of Ce Valence

### The Journal of Physical Chemistry 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
43936	Takuya Kurihara	13 (2022) 7023-7028	2021A1401	BL02B2	栗原 拓也	Slow CO <sub>2</sub> Diffusion Governed by Steric Hindrance of Rotatory Ligands in Small Pores of a Metal–Organic Framework
44105	Shunnosuke Tanaka	13 (2022) 8403-8408	2020A1274	BL13XU	中村 将志	Interfacial Structure of Pt(110) Electrode during Hydrogen Evolution Reaction in Alkaline Solutions
			2021A1257	BL13XU	中村 将志	

### Materials Transactions

43877	Tetsu Watanuki	63 (2022) 1380-1383	2014A1281	BL01B1	綿貫 徹	Temperature Dependence of Yb Valence in an Au–Al–Yb Intermediate-Valence Quasicrystal Investigated by Yb L <sub>3</sub> -edge X-ray Absorption Near-edge Structure Spectroscopy
			2012B0046	BL39XU	渡辺 真仁	
44180	Kyosuke Hirayama	63 (2022) 586-591	2015A0076	BL20XU	戸田 裕之	Crystallographic Analysis of Hydrogen Embrittlement Behavior in Aluminum Alloy Using Diffraction Contrast Tomography

### NPG Asia Materials

44098	Makoto Takeuchi	14 (2022) 70	2018A1129	BL39XU	鈴木 基寛	Real Picture of Magnetic Domain Dynamics along the Magnetic Hysteresis Curve Inside an Advanced Permanent Magnet
			2018A2067	BL39XU	鈴木 基寛	
			2018B1015	BL39XU	廣澤 哲	
			2018B1332	BL39XU	鈴木 基寛	
			2018B2100	BL39XU	鈴木 基寛	
			2019A1555	BL39XU	豊木 研太郎	
			2019B1003	BL39XU	廣澤 哲	
			2020A0816	BL39XU	岡本 聡	
2020A1005	BL39XU	廣澤 哲				
44186	Junichi Nomoto	14 (2022) 76	2020A1876	BL46XU	野本 淳一	Over 130 cm <sup>2</sup> /Vs Hall Mobility of Flexible Transparent Conductive In <sub>2</sub> O <sub>3</sub> Films by Excimer-laser Solid-phase Crystallization

### Nuclear Instruments and Methods in Physics Research Section A

44147	Chen Wu	1015 (2021) 165756	2020A6004	BL33LEP	堀田 智明	Test of a Small Prototype of the COMET Cylindrical Drift Chamber
			2019B6004	BL33LEP	堀田 智明	
44148	Norihiro Muramatsu	1033 (2022) 166677	2019A6102	BL31LEP	新山 雅之	SPring-8 LEPS2 Beamline: A Facility to Produce a Multi-GeV Photon Beam via Laser Compton Scattering
			2019B6102	BL31LEP	新山 雅之	
			2020A6102	BL31LEP	新山 雅之	
			2021A6102	BL31LEP	新山 雅之	

### Nucleic Acids Research

44038	Roshan Satange	47 (2019) 8899-8912	2017B6600	BL44XU	Chen Chun Jung	Polymorphic G:C Mismatches Act as Hotspots for Inducing Right-handed Z DNA by DNA Intercalation
			2014A6600	BL44XU	Chen Chun Jung	
			2014B6600	BL44XU	Chen Chun Jung	
44159	Kousuke Ito	40 (2012) 10521-10531	2008B2182	BL41XU	内海 利男	Structural Basis for the Substrate Recognition and Catalysis of Peptidyl-tRNA Hydrolase

### Physical Chemistry Chemical Physics

43903	Daisuke Asakura	24 (2022) 19177-19183	2017A7531	BL07LSU	朝倉 大輔	<i>Operando</i> Resonant Soft X-ray Emission Spectroscopy of the LiMn <sub>2</sub> O <sub>4</sub> Cathode using an Aqueous Electrolyte Solution
			2018A7573	BL07LSU	朝倉 大輔	
			2018B7584	BL07LSU	朝倉 大輔	
			2019A7595	BL07LSU	朝倉 大輔	
			2020A7486	BL07LSU	張 文雄	
44168	Tomohiro Sugahara	24 (2022) 22557-22561	2015B1296	BL02B1	橋爪 大輔	Characterization of Resonance Structures in Aromatic Rings of Benzene and its Heavier-element Analogues
			2016B1281	BL02B1	橋爪 大輔	
			2016B1716	BL02B1	菅原 知紘	

### Physical Review Materials

43955	Hiroshi Nakajima	6 (2022) 074411	2022A1085	BL04B2	中島 宏	Direct Observation of Monoclinic Polar Nanoregions in Relaxor Ferroelectric Pb(Yb <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> –PbTiO <sub>3</sub>
44231	Takashi Kurumaji	6 (2022) 094410	2021B1261	BL02B1	鬼頭 俊介	Anisotropic Magnetotransport Properties Coupled with Spiral Spin Modulation in a Magnetic Semimetal EuZnGe

### Polymer

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
43993	Katsuya Komiyama	247 (2022) 124772	2019A7234	BL03XU	岩田 忠久	Mechanical Properties and Highly-ordered Structural Analysis of Elastic Poly[( <i>P</i> )-3-hydroxybutyrate-co-( <i>P</i> )-3-hydroxyvalerate] Fibers Fabricated by Partially Melting Crystals
			2019B7270	BL03XU	岩田 忠久	
			2020A7223	BL03XU	岩田 忠久	
			2021A7204	BL03XU	岩田 忠久	
44162	Hideki Kai	257 (2022) 125260	2021A7208	BL03XU	和泉 篤士	Interchain Ordering Structure and Main Chain Conformation Analysis of Thermal Stability in Vinyl-addition Polynorbomene
			2021B7258	BL03XU	和泉 篤士	
			2022A7209	BL03XU	和泉 篤士	

### Protein Science

44046	Kuan-Hung Lin	29 (2020) 1655-1666	2016B6600	BL44XU	Chen Chun Jung	Structural and Chemical Trapping of Flavin-oxide Intermediates Reveals Substrate-Directed Reaction Multiplicity
			2017A6600	BL44XU	Chen Chun Jung	
			2017B6600	BL44XU	Chen Chun Jung	
			2018A6600	BL44XU	Chen Chun Jung	
44137	Tomoki Himiyama	29 (2020) 1138-1147	2019A6931	BL44XU	中村 努	Disassembly of the Ring-type Decameric Structure of Peroxiredoxin from <i>Aeropyrum pernix</i> K1 by Amino Acid Mutation
			2019A2525	BL26B1	中村 努	

### Small

43911	Wei Liu	18 (2022) 2202439	2021B1902	BL14B2	岡崎 湧一	Effects of A-site Cations in Quadruple Perovskite Ruthenates on Oxygen Evolution Catalysis in Acidic Aqueous Solutions
			2020A0583	BL02B2	山田 幾也	
44112	Satoshi Hiroi	18 (2022) 2203412	2018A1172	BL04B2	大石 昌嗣	Adaptive Cation Pillar Effects Achieving High Capacity in Li-Rich Layered Oxide, $\text{Li}_2\text{MnO}_3\text{-LiMeO}_2$ (Me = Ni, Co, Mn)
			2018B1463	BL04B2	大石 昌嗣	

### AAPPS Bulletin

44225	Jun Miyawaki	31 (2021) 25	2019A7410	BL07LSU	宮脇 淳	Fast and Versatile Polarization Control of X-ray by Segmented Cross Undulator at SPring-8
			2019A7411	BL07LSU	平田 靖透	
			2019B7410	BL07LSU	平田 靖透	
			2019B7411	BL07LSU	宮脇 淳	
			2020A7411	BL07LSU	平田 靖透	
			2021A7412	BL07LSU	小嗣 真人	

### ACS Applied Electronic Materials

44015	Kakaraparthi Kranthiraja	4 (2022) 2086-2094	2020A1875	BL46XU	佐伯 昭紀	Diketopyrrolopyrrole-Based Chlorinated Bithiophene Polymers for Organic Solar Cells: Effect of Thiophene or Pyridine Flank
			2021A1558	BL46XU	尾坂 格	
			2021A1641	BL46XU	但馬 敬介	
			2021A1687	BL46XU	森 裕樹	

### ACS Catalysis

43971	Katsuhiro Isozaki	11 (2021) 13180-13187	2018B0938	BL14B2	若林 裕助	Gold Nanocluster Functionalized with Peptide Dendron Thiolates: Acceleration of the Photocatalytic Oxidation of an Amino Alcohol in a Supramolecular Reaction Field
			2019B3584	BL11XU	高谷 光	

### ACS Infectious Diseases

44042	Chun Man Huang	5 (2019) 430-442	2015B6600	BL44XU	Chen Chun Jung	Teicoplanin Reprogrammed with the N-Acyl-Glucosamine Pharmacophore at the Penultimate Residue of Aglycone Acquires Broad-Spectrum Antimicrobial Activities Effectively Killing Gram-Positive and -Negative Pathogens
			2016A6600	BL44XU	Chen Chun Jung	
			2016B6600	BL44XU	Chen Chun Jung	

### ACS Medicinal Chemistry Letters

44157	Jiro Kondo	3 (2012) 741-744	2011A1895	BL38B1	近藤 次郎	Crystal Structure and Specific Binding Mode of Sisomicin to the Bacterial Ribosomal Decoding Site
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### Acta Crystallographica Section F

44142	Kohei Sasamoto	77 (2021) 399-406	2019B6931	BL44XU	中村 努	Crystal Structure of Acetylcholin Esterase from <i>Caldanaerobacter subterraneus</i> subsp. <i>Tengcongensis</i>
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### Acta Materialia

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
44182	Hiroyuki Toda	234 (2022) 117956	2015A0076	BL20XU	戸田 裕之	Multimodal Assessment of Mechanically Induced Transformation in Metastable Multi-phase Steel using X-ray Nano-tomography and Pencil-beam Diffraction Tomography

### Advanced Energy Materials

44125	Jiashun Liang	10 (2020) 2000179	2019B4254	BL12XU	Hwang Bing Joe	Biaxial Strains Mediated Oxygen Reduction Electrocatalysis on Fenton Reaction Resistant L1 <sub>0</sub> -PtZn Fuel Cell Cathode
			2019A4136	BL12B2	Hwang Bing Joe	

### Advanced Powder Technology

43984	Takumi Kusano	33 (2022) 103585	2020A7035	BL33XU	松永 拓郎	Shear Properties and Water Connectivity of Wet Granules at High Solid Content Concentration
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### Analytical Chemistry

43943	Hiroshi Kobayashi	94 (2022) 6882-6892	2018B0938	BL47XU	若林 裕助	Separation of Glycoproteins Based on Sugar Chains Using Novel Stationary Phases Modified with Poly(ethylene glycol)-Conjugated Boronic-Acid Derivatives
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### Analytical Methods

44136	Akihiro Uehara	14 (2022) 2439-2445	2019A3659	BL14B1	上原 章寛	Uranium Chelating Ability of Decorporation Agents in Serum Evaluated by X-ray Absorption Spectroscopy
			2019B3659	BL14B1	上原 章寛	
			2020A3659	BL14B1	上原 章寛	
			2020A3662	BL14B1	上原 章寛	
			2021A3662	BL14B1	上原 章寛	

### Angewandte Chemie International Edition

44092	Sounak Sarkar	61 (2022) e202202742	2014A0078	BL02B1	Iversen Bo	X-ray Electron Density Study of the Chemical Bonding Origin of Glass Formation in Metal–Organic Frameworks
			2019A0159	BL02B1	西堀 英治	
			2021B1140	BL02B1	西堀 英治	

### Antioxidants

44151	Sulhee Kim	10 (2021) 389	2017A6770	BL44XU	Hwang Kwang Yeon	Structural Insights into a Bifunctional Peptide Methionine Sulfoxide Reductase MsrA/B Fusion Protein from <i>Helicobacter pylori</i>
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### Applied Catalysis A: General

44002	Qian Huang	643 (2022) 118765	2018B1787	BL14B2	村山 美乃	Intramolecular Cyclization of Alkynoic Acid Catalyzed by Na-salt-modified Au Nanoparticles Supported on Metal Oxides
			2019A1800	BL14B2	村山 美乃	
			2020A1638	BL14B2	村山 美乃	
			2020A1769	BL14B2	村山 美乃	

### Applied Materials Today

44252	Shi-Wei Chen	26 (2022) 101333	2016A4126	BL12B2	Chen Shi-Wei	Polymorphic Transition to Metastable Phases in Hollow Structured Silicon Anode in a Li-ions Battery
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### Applied Physics Express

44257	Mutsunori Uenuma	15 (2022) 085501	2018B1307	BL25SU	上沼 睦典	Atomic Structure Analysis of Gallium Oxide at the Al <sub>2</sub> O <sub>3</sub> /GaN Interface using Photoelectron Holography
			2021B1411	BL25SU	上沼 睦典	
			2021B1091	BL25SU	藤井 菜美	

### Applied Surface Science

44247	Shuichi Ogawa	605 (2022) 154748	2020A3801	BL23SU	吉越 章隆	Evaluation of Doped Potassium Concentrations in Stacked Two-Layer Graphene using Real-time XPS
			2021A3801	BL23SU	吉越 章隆	
			2021B3801	BL23SU	吉越 章隆	

### Archives of Biochemistry and Biophysics

44034	Sailla Pengthaisong	706 (2021) 108924	2016A6600	BL44XU	Chen Chun Jung	Structural Basis for Transglycosylation in Glycoside Hydrolase Family GH116 Glycosynthases
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### Biochemical Journal

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
43919	Atsushi Mukaiyama	479 (2022) 1505-1515	2020A6502	BL44XU	秋山 修志	Highly Sensitive Tryptophan Fluorescence Probe for Detecting Rhythmic Conformational Changes of KaiC in the Cyanobacterial Circadian Clock System
			2018B6802	BL44XU	秋山 修志	

### Biochemistry and Biophysics Reports

43894	Takayoshi Kawahara	31 (2022) 101302	2019A1327	BL40B2	秋葉 勇	Complex Formation of Potassium Salt of Highly Fatty Acid with Hemagglutinin Protein in Influenza Virus via Exothermic Interaction
			2019A1359	BL40XU	秋葉 勇	
			2021A7221	BL03XU	山本 勝宏	

### Bioconjugate Chemistry

44140	Tomoki Himiyama	32 (2021) 153-160	2019A6931	BL44XU	中村 努	Rebuilding Ring-Type Assembly of Peroxiredoxin by Chemical Modification
			2019A2525	BL45XU	中村 努	
			2019A2525	BL26B1	中村 努	

### Biomolecules

44037	Kamal Adhikari	10 (2020) 738	2019A6600	BL44XU	Chen Chun Jung	Chemoenzymatic Synthesis and Biological Evaluation for Bioactive Molecules Derived from Bacterial Benzoyl Coenzyme A Ligase and Plant Type III Polyketide Synthase
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### Calcified Tissue International

43928	Takeshi Matsumoto	111 (2022) 535-545	2016A1137	BL20B2	松本 健志	Effects of Whole-Body Vibration on Breast Cancer Bone Metastasis and Vascularization in Mice
			2014B1766	BL20B2	板持 伸弥	

### Catalysis Science & Technology

43871	Yoshihide Nishida	12 (2022) 4128-4137	2020A1692	BL01B1	西田 吉秀	Nitrile Hydrogenation to Secondary Amines under Ambient Conditions over Palladium-Platinum Random Alloy Nanoparticles
			2019A1703	BL01B1	西田 吉秀	

### Cement and Concrete Research

44208	Gyeongryul Kim	159 (2022) 106869	2020A3782	BL22XU	裴 晟哲	Effect of Magnesium Silicate Hydrate (M-S-H) Formation on the Local Atomic Arrangements and Mechanical Properties of Calcium Silicate Hydrate (C-S-H): In situ X-ray Scattering Study
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### Chem

44201	Chenyuan Zhu	7 (2021) 406-420	2019A4126	BL12B2	Chen Hao-Ming	Product-Specific Active Site Motifs of Cu for Electrochemical CO <sub>2</sub> Reduction
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### ChemBioChem

44044	Cheng Chung Lee	20 (2019) 193-202	2017A6600	BL44XU	Chen Chun Jung	Crystal Structure of PigA: A Prolyl Thioester-Oxidizing Enzyme in Prodigiosin Biosynthesis
			2016B6600	BL44XU	Chen Chun Jung	

### Chemical Science

44269	Yoshiaki Shoji	13 (2022) 9891-9901	2017A1514	BL04B2	梶谷 孝	Design of Discotic Liquid Crystal Enabling Complete Switching along with Memory of Homeotropic and Homogeneous Alignment over a Large Area
			2017A1526	BL45XU	梶谷 孝	

### Chemistry - A European Journal

44091	Emilie Skytte Vosegaard	28 (2022) e202201295	2021B1140	BL02B1	西堀 英治	Synchrotron X-ray Electron Density Analysis of Chemical Bonding in the Graphitic Carbon Nitride Precursor Melamine
			2019A0159	BL02B1	西堀 英治	
			2014A0078	BL02B1	Iversen Bo	

### Chemistry - An Asian Journal

43995	Zhenzhong Zhang	17 (2022) e202101243	2017A1780	BL14B2	村山 美乃	Anchored Palladium Complex-Generated Clusters on Zirconia: Efficiency in Reductive N-Alkylation of Amines with Carbonyl Compounds under Hydrogen Atmosphere
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### Chemistry and Physics of Lipids

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
44009	Shigeru Sugiyama	247 (2022) 105227	2015A1056	BL38B1	杉山 成	Experimental and Theoretical Investigations into the Mechanism of Interactions between Membrane-bound Fatty Acids and Their Binding Protein: A Model System to Investigate the Behavior of Lipid Acyl Chains in Contact with Proteins
			2020A2532	BL41XU	杉山 成	
			2021A6620	BL44XU	杉山 成	
			2021B6620	BL44XU	杉山 成	
			2021B2721	BL41XU	杉山 成	

### ChemistrySelect

43956	Yusaku Araki	7 (2022) e202200600	2020A1360	BL01B1	吉田 真明	Development of a Hemispherical Cavity Cobalt Electrocatalyst for Water Oxidation Based on a Polystyrene Colloidal Template Electrodeposition Method
			2021B1168	BL01B1	吉田 真明	

### ChemPhysChem

44005	Virgile Adam	23 (2022) e202200192	2018A8026	BL2	Weik Martin	Rational Control of Off-State Heterogeneity in a Photoswitchable Fluorescent Protein Provides Switching Contrast Enhancement
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### ChemSusChem

44014	Fumiya Hamada	14 (2021) 3528-3534	2019A1765	BL46XU	尾坂 格	Mobility Relaxation of Holes and Electrons in Polymer:Fullerene and Polymer:Non-Fullerene Acceptor Solar Cells
			2020A1875	BL46XU	佐伯 昭紀	

### Communications Materials

44222	Yen-Fa Liao	3 (2022) 23	2018A4250	BL12XU	Chainani Ashish	Dual Kondo Effect Charge Ordering and Zero Thermal Expansion in a Correlated Intermetallic
			2018A4262	BL12XU	Chainani Ashish	

### Crystal Growth & Design

43930	Zhuxi Yang	22 (2022) 4472-4479	2021A1080	BL40XU	久木 一朗	Slip-Stacking of Benzothiadiazole Can Provide a Robust Structural Motif for Porous Hydrogen-Bonded Organic Frameworks
			2021B1180	BL40XU	久木 一朗	

### Crystals

44018	Tadao Hashimoto	12 (2022) 1085	2021B5370	BL16B2	山口 聡	Progress in Near-Equilibrium Ammonothermal (NEAT) Growth of GaN Substrates for GaN-on-GaN Semiconductor Devices
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### CrystEngComm

43948	Takuya Ohmi	24 (2022) 5428-5434	2019A1104	BL02B2	山本 隆文	Temperature-induced Structural Transition in an Organic-Inorganic Hybrid Layered Perovskite (MA) <sub>2</sub> PbI <sub>2-x</sub> Br <sub>x</sub> (SCN) <sub>2</sub>
			2021A1130	BL02B2	山本 隆文	

### Dalton Transactions

43935	Tomomi Tabata	51 (2022) 9601-9605	2021B1598	BL02B2	永井 杏奈	Magnetic Orientation Behavior of L-type Zeolite with Rare-earth Elements under Low Magnetic Field
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### Drug Development and Industrial Pharmacy

44020	Kazuhiro Suzuki	48 (2022) 301-309	2021A1639	BL14B2	鈴木 一博	Visualizing Fluid Transport Inside Orally Disintegrating Tablets and Changes in Tablets using Real-time X-ray Radiography and X-ray Computed Tomography
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### e-Journal of Surface Science and Nanotechnology

44023	Satoshi Yasuno	20 (2022) 180-185	2020A1608	BL46XU	安野 聡	Suppression of Charging Effect of Insulating Materials in Hard X-ray Photoelectron Spectroscopy
			2020A1612	BL46XU	安野 聡	
			2020A1736	BL46XU	安野 聡	
			2021A1553	BL46XU	安野 聡	
			2021B1750	BL46XU	安野 聡	

### Electrochimica 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
44124	Mulatu Kassie Birhanu	356 (2020) 136756	2019A4136	BL12B2	Hwang Bing Joe	Electrocatalytic Reduction of Carbon Dioxide on Gold-copper Bimetallic Nanoparticles: Effects of Surface Composition on Selectivity
			2019B4126	BL12B2	Hwang Bing Joe	

### Energy & Environmental Materials

44076	Mozaffar Abdollahifar	3 (2020) 405-413	2016A4128	BL12B2	Wu Nae-Lih	Enabling Extraordinary Rate Performance for Poorly Conductive Oxide Pseudocapacitors
			2016B4127	BL12B2	Wu Nae-Lih	
			2017A4129	BL12B2	Wu Nae-Lih	
			2017B4127	BL12B2	Wu Nae-Lih	
			2017B4141	BL12B2	Wu Nae-Lih	

### Energy & Fuels

44106	Takeshi Morita	36 (2022) 10043-10051	2017A1550	BL19B2	森田 剛	Disaggregation of Asphaltene Aggregates in Solutions Depending upon Affinity Indices of the Hansen Solubility Parameter Using Ultrasmall-, Small-, and Wide-Angle X-ray Scattering
			2017B1592	BL19B2	森田 剛	
			2018A1550	BL19B2	森田 剛	
			2018A1735	BL19B2	森田 剛	
			2019A1759	BL19B2	森田 剛	
			2019B1892	BL19B2	森田 剛	

### Energy Environmental Science

44240	Yingcai Zhu	15 (2022) 3958-3967	2021B1109	BL01B1	Zhu Yingcai	Breaking the Sodium Solubility Limit for Extraordinary Thermoelectric Performance in p-type PbTe
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### Environmental Pollution

43864	Lunchao Duan	308 (2022) 119702	2021A1634	BL14B2	橋本 洋平	Zero Valent Iron or Fe <sub>3</sub> O <sub>4</sub> -loaded Biochar for Remediation of Pb Contaminated Sandy Soil: Sequential Extraction, Magnetic Separation, XAFS and Ryegrass Growth
			2019A1621	BL14B2	橋本 洋平	

### Environmental Research

43957	Lely Ayu Ningsih	214 (2022) 113690	2019A1386	BL01B1	吉田 真明	Ag-modified TiO <sub>2</sub> /SiO <sub>2</sub> /Fe <sub>3</sub> O <sub>4</sub> Sphere with Core-shell Structure for Photo-assisted Reduction of 4-nitrophenol
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### Glycobiology

43881	Junji Noguchi	21 (2011) 1108-1116	2007B1359	BL38B1	角田 佳充	Crystal Structure of the Branching Enzyme I (BEI) from <i>Oryza sativa</i> L with Implications for Catalysis and Substrate Binding
			2007B1995	BL41XU	角田 佳充	

### Hydrometallurgy

44161	Keisuke Ohto	213 (2022) 105932	2019A3736	BL22XU	大渡 啓介	Effect of Spacer Length between Two Weak <i>NH</i> Hydrogen Atoms of Secondary Diamido Reagents on Anionic Platinum Extraction
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### Hypertension

43951	Takeshi Tokudome	79 (2022) 1409-1422	2010B1291	BL28B2	徳留 健	Endothelial Natriuretic Peptide Receptor 1 Play Crucial Role for Acute and Chronic Blood Pressure Regulation by Atrial Natriuretic Peptide
			2012A1657	BL28B2	徳留 健	
			2012B1791	BL28B2	徳留 健	
			2013A1673	BL28B2	徳留 健	
			2013B1749	BL28B2	徳留 健	
			2014A1719	BL28B2	徳留 健	
			2014B1807	BL28B2	徳留 健	
			2015A1870	BL28B2	徳留 健	
2016B1387	BL28B2	Pearson James				

### The International Journal of Advanced Manufacturing Technology

43861	Daichi Yamaguchi	121 (2022) 3965-3975	2021B3422	BL08B2	山口 大地	In situ Visualization of Aluminum Sintering for Binder Jetting by X-ray Transmission
			2020A3422	BL08B2	山口 大地	



### 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
43904	Yuta Kato	4 (2022) 249-256	2020A0583	BL02B2	山田 幾也	High-pressure Synthesis, Crystal Structure, and Properties of a Novel Quadruple Perovskite $\text{CeMn}_3\text{Rh}_4\text{O}_{12}$
			2021B1726	BL14B2	山田 幾也	

### Investigative Ophthalmology & Visual Science

44134	Kehao Wang	63 (2022) 15	2017A1197	BL20B2	Pierscionek Barbara	Oxysterol Compounds in Mouse Mutant $\alpha$ A- and $\alpha$ B-Crystallin Lenses Can Improve the Optical Properties of the Lens
			2018A1105	BL20B2	Pierscionek Barbara	
			2019A1115	BL20B2	Pierscionek Barbara	
			2019A1335	BL20B2	星野 真人	

### Journal of Advanced Mechanical Design, Systems, and Manufacturing

44019	Naoko Takeuchi-Takahashi	16 (2022) JAMDSM0024	2017A5071	BL16XU	高橋 直子	Non-destructive Depth Analysis of Acidic Phosphate Ester Boundary Layers by Hard X-ray Photoelectron Spectroscopy
			2017B5071	BL16XU	高橋 直子	
			2018A5071	BL16XU	高橋 直子	
			2018B5071	BL16XU	高橋 直子	

### The Journal of Biochemistry

44139	Yuya Shimozawa	170 (2021) 97-105	2019A2525	BL26B1	中村 努	Structural Analysis and Reaction Mechanism of Malate Dehydrogenase from <i>Geobacillus stearothermophilus</i>
			2018B2521	BL38B1	中村 努	

### The Journal of Biological Chemistry

43874	Hiroko Ideo	286 (2011) 11346-11355	2005A0865	BL38B1	野中 孝昌	Galectin-8-N-domain Recognition Mechanism for Sialylated and Sulfated Glycans
			2006A1715	BL38B1	野中 孝昌	

### Journal of Bioscience and Bioengineering

44001	Atsushi Okawa	133 (2022) 213-221	2016A6635	BL44XU	原田 繁春	Characterization and Application of L-methionine $\gamma$ -lyase Q349S Mutant Enzyme with an Enhanced Activity toward L-homocysteine
			2017A6722	BL44XU	志波 智生	
			2017B6722	BL44XU	志波 智生	
			2018A6820	BL44XU	志波 智生	
			2018B6820	BL44XU	志波 智生	

### The Journal of Chemical Physics

43975	Tomoki Matsuyama	155 (2021) 044307	2018B0938	BL40XU	若林 裕助	Thermal Stability of Crown-motif $[\text{Au}_9(\text{PPh}_3)_6]^{3+}$ and $[\text{MAu}_8(\text{PPh}_3)_6]^{2+}$ ( $M = \text{Pd}, \text{Pt}$ ) Clusters: Effects of Gas Composition, Single-atom Doping, and Counter Anions
			2020A0665	BL40XU	高谷 光	
			2020A0715	BL01B1	山添 誠司	
			2020A1219	BL01B1	山添 誠司	

### Journal of Materials Chemistry A

44204	Baskar Selvaraj	8 (2020) 22620-22625	2018A4129	BL12B2	Wu Nae-Lih	Remarkable Microstructural Reversibility of Antimony in Sodium Ion Battery Anodes
			2019A4125	BL12B2	Wu Nae-Lih	
			2019A4133	BL12B2	Wu Nae-Lih	
			2019B4133	BL12B2	Wu Nae-Lih	

### Journal of Materials Chemistry C

43906	Nacja Klipfel	10 (2022) 10075-10082	2018B1809	BL19B2	中村 唯我	Structural and Photophysical Investigation of Single-source Evaporation of $\text{CsFAPbI}_3$ and $\text{FAPbI}_3$ Perovskite Thin Films
			2018B1855	BL46XU	柴山 直之	
			2018B1862	BL19B2	中村 唯我	

### Journal of Materials Research

43859	Daiko Takamatsu	37 (2022) 1576-1590	2020A5100	BL16XU	米山 明男	Quantitative Visualization of Ion and Thermal Distributions in Electrolytes during Operation of Electrochemical Devices by <i>Operando</i> Phase-contrast X-ray Imaging
			2021A5400	BL16B2	米山 明男	
			2021A5100	BL16XU	米山 明男	

### Journal of Non-Crystalline Solids

44083	Jayani Kalaha	588 (2022) 2022	2016A1499	BL04B2	滝本 康幸	Influence of Interatomic Potential and Simulation Procedures on the Structures and Properties of Sodium Aluminosilicate Glasses from Molecular Dynamics Simulations
			2016A0130	BL04B2	小原 真司	

### Journal of Nuclear 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
44188	Yoshihiro Okamoto	570 (2022) 153962	2017B3712	BL22XU	岡本 芳浩	Structural Change by Phosphorus Addition to Borosilicate Glass Containing Simulated Waste Components
			2018A3712	BL22XU	岡本 芳浩	
			2018B3712	BL22XU	岡本 芳浩	

### The Journal of Organic Chemistry

44264	Hiromitsu Maeda	87 (2022) 7818-7825	2018B1714	BL02B1	水口 敬	Ion-Pairing Assemblies of Anion-Responsive $\pi$ -Electronic Systems Bearing Triazole Moieties Introduced by Click Chemistry
			2019A1508	BL02B1	羽毛田 洋平	
			2019A1704	BL02B1	水口 敬	
			2019B1638	BL02B1	羽毛田 洋平	
			2021A1597	BL02B1	田中 宏樹	
			2018B1244	BL40XU	久木 一朗	
			2019A1475	BL40XU	前田 大光	
2021A1339	BL40XU	前田 大光				

### Journal of Photochemistry and Photobiology A: Chemistry

44241	Ken-ichi Yamataka	435 (2023) 114267	2017B8012	BL3	森川 健志	Ultrafast Charge-Transfer Dynamics in a Visible-Light-Excited Iridium(III) Terpyridine 2-Phenylpyridine Complex Studied by Femtosecond X-ray Absorption Spectroscopy
			2017A8025	BL3	森川 健志	
			2018A8004	BL3	森川 健志	

### Journal of Photopolymer Science and Technology

44013	Rei Shimono	34 (2021) 263-269	2020A1742	BL46XU	但馬 敬介	Top Thermal Annealing of 2D/3D Lead Halide Perovskites: Anisotropic Photoconductivity and Vertical Gradient of Dimensionality
			2020A1875	BL46XU	佐伯 昭紀	

### The Journal of Physical Chemistry B

43902	Ryosuke Yamamura	126 (2022) 1101-1107	2019B7468	BL07LSU	山添 康介	Identification of Valence Electronic States Reflecting the Hydrogen Bonding in Liquid Ethanol
			2019B7401	BL07LSU	宮脇 淳	
			2020A7482	BL07LSU	山添 康介	

### Journal of Physics B: Atomic, Molecular and Optical Physics

44051	Xu Kang	52 (2019) 245202	2012B4262	BL12XU	Zhu LinFan	A Study on the Validity of the First Born Approximation for High-energy Electron Scattering with Nitrogen Molecules
			2013A4260	BL12XU	Zhu LinFan	

### Journal of The Electrochemical Society

43907	Hiroyuki Fujimoto	169 (2022) 070507	2018A7603	BL28XU	松原 英一郎	Phase Diagram of Li-Graphite Intercalation Compound Formed by the Charge/Discharge Reaction in Li-Ion Battery
			2019A7613	BL28XU	安部 武志	
			2019B7613	BL28XU	安部 武志	
			2020A7613	BL28XU	安部 武志	

### Journal of the Japan Petroleum Institute

44261	Ryota Osuga	65 (2022) 67-77	2021A1648	BL14B2	梶原 貴人	Development of Synthetic Route for Fe-substituted MWW-type Zeolites Using Mechanochemical Method
			2021A1642	BL14B2	金子 雅英	

### Journal of the Physical Society of Japan

44049	Hitoshi Yamaoka	91 (2022) 024704	2017B4267	BL12XU	辻井 直人	Temperature and Pressure Dependences of the Electronic and Crystal Structures of $\text{Yb}_4\text{TGe}_8$ ( $T = \text{Cr, Mn, Fe, Co, and Ni}$ ) Studied by High-resolution X-ray Absorption Spectroscopy, X-ray Diffraction, and Photoelectron Spectroscopy
			2018A4258	BL12XU	辻井 直人	
			2018A4141	BL12B2	辻井 直人	
			2019B4252	BL12XU	辻井 直人	
			2020A4263	BL12XU	辻井 直人	
			2020A4269	BL12XU	山岡 人志	

### Journal of Wood Science

44117	Hiroaki Horiyama	68 (2022) 52	2019B1176	BL40B2	今井 友也	Combined Analysis of Microstructures within an Annual Ring of Douglas Fir ( <i>Pseudotsuga menziesii</i> ) by Dynamic Mechanical Analysis and Small Angle X-ray Scattering
			2020A1592	BL40B2	今井 友也	
			2021A1384	BL40B2	今井 友也	

### 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
44226	Kosuke Yamazoe	38 (2022) 3076-3081	2015B7403	BL07LSU	原田 慈久	Critical In-Plane Density of Polyelectrolyte Brush for the Ordered Hydrogen-Bonded Structure of Incorporated Water
			2016A7507	BL07LSU	田中 賢	
			2018B7401	BL07LSU	原田 慈久	
			2019A7401	BL07LSU	宮脇 淳	
			2020A7488	BL07LSU	原田 慈久	

### Make Life Visible

43950	James Pearson	(2019) 147-162	2017A1324	BL40XU	Pearson James	Investigating In Vivo Myocardial and Coronary Molecular Pathophysiology in Mice with X-ray Radiation Imaging Approaches
			2015B1533	BL40XU	Pearson James	
			2015A1354	BL40XU	Pearson James	
			2013B1767	BL28B2	Pearson James	
			2012A1674	BL28B2	Pearson James	

### Molecules

44089	Shigesaburo Ogawa	27 (2022) 4359	2018A7203	BL03XU	藤原 明比古	Short-Chain Mono-Alkyl $\beta$ -D-Glucoside Crystals—Do They Form a Cubic Crystal Structure?
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### Nano Energy

44078	Junxiu Wu	102 (2022) 107715	2019A4125	BL12B2	Wu Nae-Lih	Unexpected Reversible Crystalline/Amorphous (De)lithiation Transformations Enabling Fast (Dis)charge of High-capacity Anatase Mesocrystal Anode
			2019A4133	BL12B2	Wu Nae-Lih	
			2019B4133	BL12B2	Wu Nae-Lih	

### Nanomaterials

44080	Dinesh Bhalothia	9 (2019) 1003	2016A4133	BL12B2	Chen Tsan Yao	Conformational Effects of Pt-Shells on Nanostructures and Corresponding Oxygen Reduction Reaction Activity of Au-Cluster-Decorated NiO <sub>x</sub> @Pt Nanocatalysts
			2016B4133	BL12B2	Chen Tsan Yao	
			2017A4134	BL12B2	Chen Tsan Yao	
			2017B4137	BL12B2	Chen Tsan Yao	
			2017B4145	BL12B2	Chen Tsan Yao	

### Nature Catalysis

44164	Daoping He	5 (2022) 798-806	2021A1664	BL14B2	中村 龍平	Regulation of the Electrocatalytic Nitrogen Cycle Based on Sequential Proton–Electron Transfer
			2021B1920	BL14B2	中村 龍平	
			2022A1045	BL14B2	中村 龍平	
			2022A1669	BL14B2	足立 精宏	

### Nature Chemistry

43926	Xiaohong Liu	14 (2022) 1054-1060	2018B8016	BL2	Wang Jianguan	Excited-State Intermediates in a Designer Protein Encoding a Phototrigger Caught by an X-ray Free-Electron Laser
			2019B8008	BL2	Wang Jianguan	
			2020A8064	BL2	Wang Jianguan	
			2021B8046	BL2	Wang Jianguan	
			2021A8014	BL2	Wang Jianguan	

### Nature Energy

44101	Lichen Bai	6 (2021) 1054-1066	2019B4132	BL12B2	Chen Hao-Ming	Double-atom Catalysts as a Molecular Platform for Heterogeneous Oxygen Evolution Electrocatalysis
			2019A4260	BL12XU	Chen Hao-Ming	
			2019A4278	BL12XU	Chen Hao-Ming	
			2019B4255	BL12XU	Chen Hao-Ming	
			2019B4259	BL12XU	Chen Hao-Ming	
			2019B4273	BL12XU	Chen Hao-Ming	

### Nature Nanotechnology

44099	Lizhi Jiang	15 (2020) 848-853	2019B4127	BL12B2	Chen Hao-Ming	Facet Engineering Accelerates Spillover Hydrogenation on Highly Diluted Metal Nanocatalysts
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### Optica

研究成果番号	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
43909	Miki Nakano	9 (2022) 776-784	2016B8089	BL2	小山 貴久	Three-dimensional Structure Determination of Gold Nanotriangles in Solution using X-ray Free-electron Laser Single-particle Analysis
			2017A8085	BL2	小山 貴久	
			2017B8087	BL2	城地 保昌	
			2017B8089	BL2	小山 貴久	
			2018A8047	BL2	西野 吉則	
			2018A8081	BL2	小山 貴久	
			2018B8025	BL2	西野 吉則	
2018B8096	BL2	小山 貴久				

### Organic & Biomolecular Chemistry

43963	Masahiro Ueda	20 (2022) 387-395	2018B0938	BL40XU	若林 裕助	Four- and Two-armed Hetero Porphyrin Dimers: Their Specific Recognition and Self-sorting Behaviours
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### Organic Letters

43965	Shinya Tajima	23 (2021) 8678-8682	2018B0938	BL40XU	若林 裕助	Synthesis of a Mechanically Planar Chiral and Axially Chiral [2]Rotaxane
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### Organometallics

43973	Takanori Iwasaki	40 (2021) 2489-2495	2018B0938	BL14B2	若林 裕助	Lithium Hexaphenylrhodate(III) and -Iridate(III): Structure in the Solid State and in Solution
			2020A1879	BL14B2	高谷 光	

### PeerJ

44024	Nozomu Iwasaki	10 (2022) e13931	2013B1301	BL27SU	岩崎 望	Synchrotron $\mu$ -XRF Mapping Analysis of Trace Elements in <i>in-situ</i> Cultured Japanese Red Coral, <i>Corallium japonicum</i>
			2015B1278	BL27SU	岩崎 望	
			2014A1410	BL27SU	岩崎 望	

### PLoS Pathogens

44123	Mitsuhiro Nishimura	16 (2020) e1008648	2018B2701	BL26B1	西村 光広	Structural Basis for the Interaction of Human Herpesvirus 6B Tetrameric Glycoprotein Complex with the Cellular Receptor, Human CD134
			2015A1070	BL36XU	鶴田 宏樹	

### Protein Engineering Design and Selection

44141	Yuya Shimozawa	34 (2021) gzab026	2020A2546	BL45XU	中村 努	Increasing Loop Flexibility Affords Low-temperature Adaptation of a Moderate Thermophilic Malate Dehydrogenase from <i>Geobacillus stearothermophilus</i>
			理研	BL26B1		

### Radiation Protection Dosimetry

44187	Yusuke Unno	198 (2022) 943-946	2021B2014	BL14B2	海野 佑介	Investigation of Short-Term Chemical Change in Stable Ruthenium Added to Rainwater through X-ray Absorption Fine Structure Analysis
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### RADIOISOTOPES

43887	Naoki Shinyoshi	71 (2022) 171-177	2021B1717	BL14B2	植竹 裕太	Radiation Induced Synthesis of Tin-based Nanoparticles and Investigation of the Generating Mechanism
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### Review of Scientific Instruments

44021	Naohisa Hirao	93 (2022) 083908	2019A2056	BL10XU	平尾 直久	X-ray Focusing to 62 keV by Compound Refractive Lenses for High-pressure X-ray Diffraction
			2019B2102	BL10XU	平尾 直久	
			2020A2047	BL10XU	平尾 直久	
			2020A2138	BL10XU	平尾 直久	

### Scripta Materialia

44233	Vivekanand Muralikrishnan	222 (2023) 115055	2017A1534	BL20XU	Krill Carl	Observations of Unexpected Grain Boundary Migration in SrTiO <sub>3</sub>
			2018A1521	BL20XU	Krill Carl	

### Solar RRL

44096	Ching-Wei Tung	4 (2020) 2000028	2018B4137	BL12B2	Chen Hao-Ming	In situ Observation of Electrodeposited Bimetallic p-Si Micropillar Array Photocathode for Solar-Driven Hydrogen Evolution
			2019A4126	BL12B2	Chen Hao-Ming	

### Solid State Ionics

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
43941	SeungHoon Yang	377 (2022) 115869	2020A1017	BL27SU	山本 健太郎	Studies on the Inhibition of Lithium Dendrite Formation in Sulfide Solid Electrolytes Doped with LiX (X = Br, I)
			2020A0697	BL13XU	山本 健太郎	
			2020A0753	BL08W	内本 喜晴	
			2020A1016	BL08W	山本 健太郎	
			2020A1789	BL20XU	山本 健太郎	

### Supramolecular Materials

43857	Chiharu Ueda	1 (2022) 100001	2020A0546	BL43IR	高島 義徳	Behavior of Supramolecular Cross-Links Formed by Host-Guest Interactions in Hydrogels Responding to Water Contents
			2021A1608	BL43IR	以倉 峻平	
			2021B1814	BL43IR	小西 昂	

### Sustainable Energy & Fuels

44081	Dinesh Bhalothia	4 (2020) 2541-2550	2018A4135	BL12B2	Chen Tsan Yao	A Highly Mismatched NiO <sub>2</sub> -to-Pd Hetero-structure as an Efficient Nanocatalyst for the Hydrogen Evolution Reaction
			2018A4271	BL12XU	Chen Tsan Yao	
			2018B4256	BL12XU	Chen Tsan Yao	
			2018B4266	BL12XU	Chen Tsan Yao	

### Tetrahedron

43979	Bunta Watanabe	91 (2021) 132194	2018B0938	BL40XU	若林 裕助	Synthesis and Structural Confirmation of Calibagenin and Saxosterol
			2018A1173	BL40XU	高谷 光	

### 鉄と鋼 (Tetsu to Hagane)

44251	Atsushi Ito	108 (2022)	2017B1934	BL14B2	鳥塚 史郎	Effect of Dislocation Behavior on High Strength and High Ductility of Low Carbon-2% Si-5% Mn Fresh Martensitic Steel
			2019A1745	BL14B2	伊東 篤志	
			2017B1626	BL19B2	鳥塚 史郎	
			2018A1590	BL19B2	鳥塚 史郎	
			2018B1586	BL19B2	鳥塚 史郎	
			2019A1027	BL46XU	鳥塚 史郎	
			2019A1807	BL46XU	鳥塚 史郎	
			2019B1029	BL46XU	鳥塚 史郎	

### 電気化学 (Denki Kagaku)

44266	Takahiro Ozawa	90 (2022) 21-25	2019B5020	BL16XU	北原 周	Synchrotron XRD and XAFS Analysis of Electrochemical Mechanism of Rust Layer Formed on Carbon Steel
			2020A5020	BL16B2	北原 周	
			2020A5320	BL08B2	横溝 臣智	
			2019A3409	BL08B2	小澤 敬祐	
			2019A3051	BL24XU	小澤 敬祐	
			2019B3409	BL08B2	小澤 敬祐	

### 日本結晶学会誌 (Journal of the Crystallographic Society of Japan)

44224	Yoshiki Kubota	64 (2022) 17-25	2015A0074	BL02B2	森吉 千佳子	Upgrade and Achievements at the Powder Diffraction Beamline in SPring-8
			2019A0068	BL02B2	森吉 千佳子	

### 日本ゴム協会誌 (Journal of the Society of Rubber Industry, Japan)

43900	Masatoshi Tosaka	95 (2022) 207-211	2019A1619	BL46XU	登阪 雅聡	Material Transportation During Strain-induced Crystallization of Vulcanized Natural Rubber Filled with Carbon Black
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### 膜 (Membrane)

44229	Yosuke Imai	46 (2021) 254-260	2017A1367	BL39XU	今井 洋輔	Counterion Binding in Adsorbed Surfactant Films Studied by Surface Tensiometry and Total Reflection XAFS Spectroscopy
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### まてりあ (Materia Japan)

44248	Hitoshi Yusa	61 (2022) 656-660	2019A1193	BL10XU	遊佐 斉	High-pressure Synthesis of Novel Functional Compounds
			2019A4500	BL15XU	遊佐 斉	
			2020A1379	BL10XU	遊佐 斉	

### 博士論文 (Technical University of Denmark)

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
43912	Mariana Mar Lucas	(2020)	2019A1440	BL20XU	Andreasen Jens	Three Dimensional X-ray Diffraction Analysis of Polycrystalline Thin-Films

### 博士論文 (大阪大学)

43856	Ryohei Ikura	(2022)	2020A0546	BL43IR	高島 義徳	Design of Polymeric Materials with Movable Cross-links and Their Characterization
			2021A1608	BL43IR	以倉 峻平	
			2021B1814	BL43IR	小西 昂	

### 博士論文 (京都大学)

44138	Yusuke Kobayashi	(2021)	2019A1628	BL20B2	小林 祐介	Fe-Cr-Ni-Mo-Cu 合金における固液間溶質分配係数およびミクロ偏析予測に関する研究
			2017B1581	BL20B2	小林 祐介	
			2018A1586	BL20B2	小林 祐介	

### 課題以外の成果として登録された論文

#### The Journal of Biological Chemistry

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
43897	Kathleen Aertgeerts	286 (2011) 18756-18765		BL41XU	Structural Analysis of the Mechanism of Inhibition and Allosteric Activation of the Kinase Domain of HER2 Protein
44025	Shveta Bisht	287 (2012) 20369-20381	理研	BL26B1	Crystal Structure of <i>Escherichia coli</i> Diaminopropionate Ammonia-lyase Reveals Mechanism of Enzyme Activation and Catalysis
				BL44XU	
44045	Shota Hoshino	287 (2012) 32103-32112	理研	BL26B2	Filament Formation of the FtsZ/Tubulin-like Protein TubZ from the <i>Bacillus cereus</i> pXO1 Plasmid
44145	Seiji Negoro	287 (2012) 5079-5090		BL38B1	Three-dimensional Structure of Nylon Hydrolase and Mechanism of Nylon-6 Hydrolysis

#### PLoS One

43875	Kazufumi Takano	6 (2011) e16226		BL38B1	Stabilization by Fusion to the C-terminus of Hyperthermophile <i>Sulfolobus tokodaii</i> RNase HI: A Possibility of Protein Stabilization Tag
43892	Tomoko Ishihara	15 (2020) e0243874	理研	BL17SU	Visualization of Elemental Distributions and Local Analysis of Element-Specific Chemical States of an <i>Arachnoidiscus</i> sp. Frustule using Soft X-ray Spectromicroscopy
43913	He Li	6 (2011) e26743		BL41XU	Determination of the Crystal Structure and Active Residues of FabV, the Enoyl-ACP Reductase from <i>Xanthomonas oryzae</i>

#### Acta Crystallographica Section D

44115	Sang Jae Lee	68 (2012) 784-793		BL38B1	Structures of <i>Staphylococcus aureus</i> Peptide Deformylase in Complex with Two Classes of New Inhibitors
44167	Anton A. Trofimov	68 (2012) 144-153		BL41XU	Covalent Modifications of the Catalytic Tyrosine in Octahaem Cytochrome c Nitrite Reductase and Their Effect on the Enzyme Activity

#### Biochemical and Biophysical Research Communications

43896	Wen-Jun Gui	405 (2011) 272-277		BL41XU	Crystal Structure of DNA Polymerase III $\beta$ Sliding Clamp from <i>Mycobacterium tuberculosis</i>
44050	Eun Hye Lee	419 (2012) 160-164	理研	BL26B1	Crystal Structure of LeuD from <i>Methanococcus jannaschii</i>
			理研	BL26B2	

#### Biochimica et Biophysica Acta - General Subjects

43885	Yoshimitsu Kakuta	1810 (2011) 1355-1360		BL38B1	Crystallographic Survey of Active Sites of an Unclassified Glutathione Transferase from <i>Bombyx mori</i>
44146	Koji Yamamoto	1820 (2012) 1469-1474		BL38B1	Structural Basis for Catalytic Activity of a Silkworm Delta-class Glutathione Transferase

#### Crystallography Reports

43901	V. Kh. Akparov	56 (2011) 596		BL41XU	Three-dimensional Structure of Recombinant Carboxypeptidase T from <i>Thermoactinomyces vulgaris</i> without Calcium Ions
44160	Vladimir Timofeev	57 (2012) 96-104		BL41XU	Three-dimensional Structure of Phosphopantetheine Adenylyltransferase from <i>Mycobacterium tuberculosis</i> in the Apo Form and in Complexes with Coenzyme A and Dephosphocoenzyme A

### The Journal of Biochemistry

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
43898	Naoki Okamoto	150 (2011) 563-568		BL41XU	Structural Insight into the Stereoselective Production of PGF <sub>2α</sub> by Old Yellow Enzyme from <i>Trypanosoma cruzi</i>
44108	Yuuji Kado	151 (2012) 447-455		BL38B1	Human Hematopoietic Prostaglandin D Synthase Inhibitor Complex Structures

### Journal of Molecular Biology

43866	Midori Murakami	413 (2011) 615-627		BL38B1	Crystallographic Analysis of the Primary Photochemical Reaction of Squid Rhodopsin
			理研	BL26B2	
43867	Ragunathan Priya	413 (2011) 657-666	理研	BL26B2	Conserved Glycine Residues in the P-Loop of ATP Synthases Form a Doorframe for Nucleotide Entrance

### Journal of the Ceramic Society of Japan

44084	Shinji Kohara	130 (2022) 531-544	その他	BL04B2	Probing Order within Disorder in Oxide Glasses and Liquids by Quantum Beam Diffraction
44087	Yohei Onodera	130 (2022) 627-638	一般	BL04B2	Topological Analyses of Structure of Glassy Materials toward Extraction of Order Hidden in Disordered Structure

### Nature Communications

43884	Xiaochun Li	2 (2011) 408		BL41XU	Structural Mechanisms of DIAP1 Auto-inhibition and DIAP1-mediated Inhibition of drICE
				BL38B1	
44219	Mohcin Akri	10 (2019) 5181		BL12B2	Atomically Dispersed Nickel as Coke-resistant Active Sites for Methane Dry Reforming

### Nucleic Acids Research

43960	Ingjye Jiang	39 (2011) 8992-9008		BL44XU	Molecular Basis of the Recognition of the ap65-1 Gene Transcription Promoter Elements by a Myb Protein from the Protozoan Parasite <i>Trichomonas vaginalis</i>
44073	Kan Kobayashi	40 (2012) 9319-9328	理研	BL32XU	Structural Basis for Translation Termination by Archaeal RF1 and GTP-bound EF1α Complex

### Physical Review B

43888	T. Ly Nguyen	103 (2021) 245131	理研	BL17SU	Electronic Structure of Tb <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3</sub>
43893	Chien Wen Chuang	102 (2020) 195102	理研	BL17SU	Attractive Coulomb Interaction, Temperature-dependent Hybridization, and Natural Circular Dichroism in 1T-TiSe <sub>2</sub>

### Proteins: Structure, Function, and Bioinformatics

44027	Young Kwan Kim	81 (2013) 261-270	理研	BL26B2	Crystal Structure and Nucleic Acid-binding Activity of the CRISPR-associated Protein Csx1 of <i>Pyrococcus furiosus</i>
44075	Yuichiro Kezuka	80 (2012) 2447-2458		BL38B1	Structural Insights into Catalysis by βC-S Lyase from <i>Streptococcus anginosus</i>

### Structure

43876	Ayumu Konno	19 (2011) 711-721		BL38B1	Tracing Protein Evolution through Ancestral Structures of Fish Galectin
43933	Hiroyoshi Matsumura	19 (2011) 1846-1854		BL41XU	Structure Basis for the Regulation of Glyceraldehyde-3-Phosphate Dehydrogenase Activity via the Intrinsically Disordered Protein CP12
				BL44XU	

### ACS Sustainable Chemistry & Engineering

44217	Chitra Sarkar	7 (2019) 10349-10362		BL12B2	Integration of Interfacial and Alloy Effects to Modulate Catalytic Performance of Metal-Organic-Framework-Derived Cu-Pd Nanocrystals toward Hydrogenolysis of 5-Hydroxymethylfurfural
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### Acta Crystallographica Section F

44003	Sakiko Suzuki	68 (2012) 14-19	理研	BL26B1	Structure of <i>N</i> -formylglycinamide Ribonucleotide Amidotransferase II (PurL) from <i>Thermus thermophilus</i> HB8
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### Advanced Science

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
44218	Lei Chen	6 (2019) 1802126		BL12B2	Reduced Local Symmetry in Lithium Compound $\text{Li}_2\text{SrSiO}_4$ Distinguished by an $\text{Eu}^{3+}$ Spectroscopy Probe

### Archives of Biochemistry and Biophysics

44004	Young-Ran Lim	528 (2012) 111-117	理研	BL26B1	Crystal Structure of Cytochrome P450 CYP105N1 from <i>Streptomyces coelicolor</i> , an Oxidase in the Coelibactin Siderophore Biosynthetic Pathway
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### Bioorganic and Medicinal Chemistry Letters

43927	Yosuke Demizu	21 (2011) 6104-6107		BL41XU	Design, Synthesis and X-ray Crystallographic Study of New Nonsecosteroidal Vitamin D Receptor Ligands
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### Bioscience, Biotechnology and Biochemistry

43880	Huy Nhat Chu	75 (2011) 388-390		BL38B1	The Crystal Structure of SDR-Type Pyridoxal 4-Dehydrogenase of <i>Mesorhizobium loti</i>
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### Chemistry & Biology

43983	Takuya Terai	18 (2011) 1261-1272		BL44XU	Rational Development of Caged-Biotin Protein-Labeling Agents and Some Applications in Live Cells
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### Communications Materials

43889	Hiroyuki Yamane	2 (2021) 63	理研	BL17SU	Physical and Chemical Imaging of Adhesive Interfaces with Soft X-rays
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### The FEBS Journal

44166	Mamoru Yamanishi	279 (2012) 793-804		BL41XU	Redesign of Coenzyme $\text{B}_{12}$ Dependent Diol Dehydratase to be Resistant to the Mechanism-based Inactivation by Glycerol and Act on Longer Chain 1,2-diols
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### Japanese Journal of Applied Physics

44210	Yuji Hosaka	61 (2022) 076504	加速器	over all	Visualization of Light-emitting Diode Lighting Damage Process in Radiation Environment by an in situ Measurement
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### Journal of Adhesion Science and Technology

43891	Masaki Oura	(2022) Online published: 6 Jul. 2022	理研	BL17SU	Application of Soft X-ray Microspectroscopic Analyses to Architectural Structures – a Case Study on Ceramic-tile/Adhesive/Mortar-structured Composite Materials
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### Journal of Biomolecular Structure and Dynamics

44258	Dhanalakshmi K.	(2022) Online published: 22 Aug. 2022	理研	BL26B2	Crystal Structure Analysis and Molecular Dynamics Simulations of Arginase from <i>Thermus thermophilus</i>
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### Journal of Hazardous Materials

44216	Sikhumbuzo Charles Kunene	383 (2020) 121167		BL12B2	Speciation and Fate of Toxic Cadmium in Contaminated Paddy Soils and Rice using XANES/EXAFS Spectroscopy
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### Journal of Synchrotron Radiation

43882	Misumi Kataoka	18 (2011) 58-61		BL38B1	Detection of the Reaction Intermediates Catalyzed by a Copper Amine Oxidase
				BL44B2	

### Journal of the American Chemical Society

43899	Daisuke Sawada	133 (2011) 7215-7221		BL41XU	Development of 14- <i>epi</i> -19-Nortachysterol and Its Unprecedented Binding Configuration for the Human Vitamin D Receptor
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### Molecular and Cellular Biology

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
44074	Hossain Md. Murad	361 (2012) 97-104		BL38B1	Crystal Structure of Sulfotransferase STF9 from <i>Mycobacterium avium</i>

### Molecular Cell

43915	Qi Hao	42 (2011) 662-672		BL41XU	The Molecular Basis of ABA-Independent Inhibition of PP2Cs by a Subclass of PYL Proteins
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### Molecular Immunology

43886	Cerrone Cabanos	49 (2011) 115-123		BL38B1	Crystal Structure of the Major Peanut Allergen Ara h 1
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### New Journal of Physics

44220	Kazumasa Horigane	21 (2019) 093056		BL12B2	Superconductivity in a New Layered Triangular-lattice System Li <sub>2</sub> Si <sub>2</sub>
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### Physical Review A

43890	N. Boudjemia	104 (2021) 012804	理研	BL17SU	Experimental and Theoretical Study of the Kr <i>L</i> -shell Auger Decay
			理研	BL29XU	

### Physical Review Accelerators and Beams

44211	Toshihiko Hiraiwa	25 (2022) 040703	加速器	over all	Suppression of Emittance Variation in Extremely low Emittance Light Source Storage Rings
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### Proceedings of the National Academy of Sciences of the United States of America

44090	Kyoung Hoon Kim	109 (2012) 7729-7734		BL38B1	<i>Mycobacterium tuberculosis</i> Eis Protein Initiates Suppression of Host Immune Responses by Acetylation of DUSP16/MKP-7
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### Review of Scientific Instruments

44209	Kazuaki Togawa	93 (2022) 073304	加速器	over all	Frequency-segmented Power Amplification using Multi-band Radio Frequency Amplifiers to Produce a High-voltage Pulse
			XFEL		

### Small

44215	Dengyu Xie	17 (2021) 2007239		BL12B2	Dual-Active Sites Engineering of N-Doped Hollow Carbon Nanocubes Confining Bimetal Alloys as Bifunctional Oxygen Electrocatalysts for Flexible Metal-Air Batteries
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### Solid State Ionics

44107	Keiji Itoh	383 (2022) 115986		BL04B2	Structural Study of Li <sub>2</sub> S-GeS <sub>2</sub> Glasses: Ge-S Network and Local Environment of Li
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