

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/

このデータベースに登録された原著論文の内、2023 年 10 月～12 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、以下の URL で検索することによりその課題の情報を閲覧することが可能です。

<https://user.spring8.or.jp/uisearch/expreport/ja/?criteria.institution=0>

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 2023 年 10 月～12 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
Nature Communications	11	Physical Review Materials	4
The Journal of Biological Chemistry	6	AIP Conference Proceedins	4
The Journal of Physical Chemistry C	6	Chemical Communications	4
Journal of the Physical Society of Japan	6	Inorganic Chemistry	4
Acta Crystallographica Section F	6	Journal of Alloys and Compounds	4
Japanese Journal of Applied Physics	5	Journal of the American Chemical Society	4
Physical Review B	4	他全 183 誌、計 290 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

Nature 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
46022	Pritam Sadhukhan	12 (2021) 4836	2019B1272	BL02B1	佐藤 治	Manipulating Electron Redistribution to Achieve Electronic Pyroelectricity in Molecular [FeCo] Crystals
			2020A1124	BL02B1	佐藤 治	
			2021A1070	BL02B1	佐藤 治	
46048	Takashi Fujishiro	14 (2023) 5609	2020A6545	BL44XU	藤城 貴史	Class III Hybrid Cluster Protein Homodimeric Architecture Shows Evolutionary Relationship with Ni, Fe-carbon Monoxide Dehydrogenases
			2019A6945	BL44XU	藤城 貴史	
46108	Wataru Shihoya	9 (2018) 4711	2016A2527	BL32XU	石谷 隆一郎	Crystal Structures of Human ET _B Receptor Provide Mechanistic Insight into Receptor Activation and Partial Activation
46129	Shaoping Zhan	13 (2022) 5937	2021B1109	BL01B1	Zhu Yingcai	Realizing High-ranged Thermoelectric Performance in PbSn ₂ Crystals
46131	Kazumasa Oda	9 (2018) 3949	2015A1024	BL32XU	石谷 隆一郎	Crystal Structure of the Red Light-activated Channelrhodopsin Chrimson
			2015A1057	BL32XU	西澤 知宏	
			2016A2527	BL32XU	石谷 隆一郎	
46139	Saizheng Cao	14 (2023) 7671	2022B1283	BL35XU	Song Yu	Competing Charge-density Wave Instabilities in the Kagome Metal ScV ₆ Sn ₆
46158	Daisuke Nakashima	14 (2023) 532	2019A0165	BL20XU	土山 明	Chondrule-like Objects and Ca-Al-rich Inclusions in Ryugu May Potentially be the Oldest Solar System Materials
46196	Michiko Shimokawa	14 (2023) 5803	2016B2714	BL26B1	伏信 進矢	Identification and Characterization of endo- α -, exo- α -, and exo- β -D-arabinofuranosidases Degrading Lipoarabinomannan and Arabinogalactan of Mycobacteria
			2017A2540	BL26B1	伏信 進矢	
			2018B2528	BL26B2	伏信 進矢	
			2019B2556	BL45XU	伏信 進矢	
			2020A2553	BL26B2	伏信 進矢	
2022B2537	BL45XU	伏信 進矢				

Journal of the Physical Society of Japan

46014	Yutaka Moritomo	90 (2021) 063801	2020A1061	BL02B2	守友 浩	Origin of the Material Dependence of the Temperature Coefficient of the Redox Potential in Coordination Polymers
46016	Dai Inoue	91 (2022) 094605	2021A1062	BL01B1	守友 浩	Coordination States of Fe ³⁺ and Fe ²⁺ Dissolved in Organic Solvents
46135	Shinichi Nakamura	92 (2023) 124708	2022A3583	BL11XU	中村 真一	Anomalous Interference Effect in Pure Nuclear Bragg Reflection of Fe ₃ O ₄
			2022B3583	BL11XU	中村 真一	
			2023A3583	BL11XU	中村 真一	
46154	Yoshikazu Mizuguchi	92 (2023) 114702	2022A1086	BL10XU	水口 佳一	Absence of T _c -Pinning Phenomenon under High Pressure in High-Entropy REO _{0.5} F _{0.5} BiS ₂ Layered Superconductor
46234	Ikuto Kawasaki	92 (2023) 064709	2021A3811	BL23SU	藤森 伸一	Quasiparticle State in 4f Localized Ferromagnet CeRu ₂ Ge ₂ Studied by Soft X-ray Photoemission Spectroscopy
46261	Shinya Hosokawa	93 (2024) 014601	2021A1181	BL13XU	細川 伸也	Local- and Intermediate-range Partial Structure Study of As-Se Glasses
			2021B1110	BL13XU	細川 伸也	
			2022A1306	BL47XU	細川 伸也	

Japanese Journal of Applied Physics-1

45915	Ryoma Yoneda	61 (2022) SC1080	2021A1230	BL01B1	別府 孝介	Crystallographic and Optical Properties of Wide Bandgap Photovoltaic Semiconductor System, Cu(Al,In)Se ₂
45991	Kotaro Ishiji	64 (2024) 02SP05	2022A5500	BL16XU	米山 明男	3D Structure of Threading Screw Dislocation at a Deep Location in 4H-SiC using 3D Micro-X-ray Topography
46015	Yutaka Moritomo	60 (2021) 040904	2020A1061	BL02B2	守友 浩	Extended Charge-transfer Model for Na _x Co[Fe(CN) ₆] _{0.82}
			2020A1660	BL02B2	岩泉 滉樹	

Japanese Journal of Applied Physics-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
46252	Norihiro Oshime	62 (2023) SM1022	2021A1100	BL40XU	黒岩 芳弘	Lattice Strain Visualization Inside a 400 nm Single Grain of BaTiO ₃ in Polycrystalline Ceramics by Bragg Coherent X-ray Diffraction Imaging
			2021B1252	BL02B2	黒岩 芳弘	
			2022A1172	BL02B2	黒岩 芳弘	
			2022A3761	BL22XU	大和田 謙二	
			2022A3762	BL22XU	町田 晃彦	
			2022A3763	BL22XU	押目 典宏	
			2022A3784	BL22XU	黒岩 芳弘	
			2022B1834	BL02B2	黒岩 芳弘	
			2022B3761	BL22XU	大和田 謙二	
46257	Ichiro Hirose	63 (2024) 01SP11	2020A1748	BL19B2	吉岡 和俊	Strain Distributions in Carbon-doped Silicon Nanowires along [110] and [100] Investigated by X-ray Diffraction
			2020A1849	BL19B2	吉岡 和俊	

The Journal of Physical Chemistry C

45916	Dexiang Gao	127 (2023) 8482-8492	2019B4268	BL12XU	Li Kuo	Arylazo under Extreme Conditions: [2 + 2] Cycloaddition and Azo Metathesis
			2020A1191	BL10XU	Li Kuo	
46055	Ikuya Yamada	127 (2023) 19213-19219	2022A1493	BL02B2	山田 幾也	Switching of Intermetallic Charge Transfer and Negative Thermal Expansion in Mn-Doped CaCu ₃ Fe ₄ O ₁₂
			2022B1619	BL14B2	山田 幾也	
			2022B1816	BL19B2	山田 幾也	
46091	Haoqing Li	127 (2023) 22510-22517	2023A1294	BL44B2	Zhang Jiawei	Crystal Structure and Chemical Bonding of Layered α -In ₂ Se ₃
46192	Hiroyuki Okazaki	127 (2023) 23628-23633	2018A3654	BL14B1	八巻 徹也	Weakened Oxygen Adsorbing the Pt-O Bond of the Pt Catalyst Induced by Vacancy Introduction into Carbon Support
			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	
46215	Kazuhiisa Tamura	127 (2023) 22733-22739	2018A3600	BL14B1	田村 和久	Comparative Study of the Underpotential Deposition of Bi in an Aqueous Electrolyte and an Ionic Liquid
			2018B3600	BL14B1	田村 和久	
			2019A3600	BL14B1	田村 和久	
			2021A3702	BL22XU	田村 和久	
			2021B3702	BL22XU	田村 和久	
			2022B3702	BL22XU	田村 和久	
			2023A3702	BL22XU	田村 和久	

Physical Review B

45899	Hidenori Fujiwara	108 (2023) 165121	2013B3882	BL23SU	関山 明	Impact of the Ground-state <i>4f</i> Symmetry for Anisotropic <i>cd</i> Hybridization in the Heavy-fermion Superconductor CeNi ₂ Ge ₂
			2014B3882	BL23SU	関山 明	
			2014A1023	BL27SU	関山 明	
			2014B1305	BL19LXU	関山 明	
			2014B1299	BL27SU	関山 明	
46120	Nozomu Hiraoka	108 (2023) 195104	2015A1533	BL19LXU	関山 明	Screening Response of Valence and Core Electrons in a Metal: Inelastic X-ray Scattering Study
			2018A4261	BL12XU	松田 和博	
			2018B4260	BL12XU	松田 和博	
			2020A4251	BL12XU	平岡 望	
			2021A4250	BL12XU	平岡 望	
46121	Hiroshi Fukui	108 (2023) 134311	2021B4250	BL12XU	平岡 望	Isotope Effects on Cubic Boron Nitride Investigated by X-ray Scattering
			2022A4261	BL12XU	平岡 望	
46232	Ikuto Kawasaki	108 (2023) 165127	2021A3811	BL23SU	藤森 伸一	Strongly Renormalized Quasiparticles in UPt ₃
			2021B3811	BL23SU	藤森 伸一	
46240	Takeshi Suzuki	108 (2023) 184305	2022A8024	BL3	鈴木 剛	Ultrafast Control of the Crystal Structure in a Topological Charge-density-wave Material

Physical Review 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
45896	Hiroshi Uchiyama	7 (2023) 104601	2016A1324	BL35XU	内山 裕士	Quantifying Doping-dependent Electron-phonon Scattering Rates in Silicon by Inelastic X-ray Scattering and First-principles Lattice Dynamics
			2016B1947	BL35XU	内山 裕士	
			2017B1340	BL35XU	内山 裕士	
			2017B1966	BL35XU	内山 裕士	
			2018A1486	BL35XU	内山 裕士	
			2018B1530	BL35XU	内山 裕士	
			2018B2020	BL35XU	内山 裕士	
2019A2026	BL35XU	内山 裕士				
46056	Yuta Kato	7 (2023) 073401	2022A1493	BL02B2	山田 幾也	Electronic Structure of $ACu_3Co_4O_{12}$ ($A = Y, La, Bi$): Synthesis, Characterization, Core-level Spectroscopies, High-pressure Application, and <i>ab initio</i> Calculation
			2022B1619	BL14B2	山田 幾也	
			2022B1816	BL19B2	山田 幾也	
46183	Junyeon Kim	7 (2023) L111401	2021B7410	BL07LSU	金 俊延	Oxide Layer Dependent Orbital Torque Efficiency in Ferromagnet/Cu/Oxide Heterostructures
			2022A7411	BL07LSU	金 俊延	
			2022A7412	BL07LSU	堀尾 眞史	
46185	Yuki K. Wakabayashi	6 (2022) 094402	2021B3841	BL23SU	小林 正起	Isotropic Orbital Magnetic Moments in Magnetically Anisotropic SrRuO ₃ Films
46267	Daiki Ootsuki	7 (2023) 124601	2017A1406	BL47XU	吉田 鉄平	Effect of Mn Substitution on the Electronic Structure for Mn-doped Indium-Tin Oxide Films Studied by Soft and Hard X-ray Photoemission Spectroscopy
			2019A3841	BL23SU	小林 正起	
			2022A1579	BL09XU	吉田 鉄平	
			2022A1729	BL09XU	石田 達広	
			2022A3841	BL23SU	小林 正起	
			2022B1765	BL09XU	石田 達広	
2023A1802	BL09XU	石田 達広				

AIP Conference Proceedings

46013	Kentaro Uesugi	2990 (2023) 040019	2016B1463	BL47XU	上杉 健太郎	Development of Multiscale X-ray Tomography at SPring-8 BL47XU
			2017A1458	BL47XU	上杉 健太郎	
			2018B1482	BL47XU	上杉 健太郎	
			2019A1240	BL47XU	上杉 健太郎	
			2019B1588	BL47XU	上杉 健太郎	
46034	Masato Hoshino	2990 (2023) 040016	2019B1303	BL28B2	星野 真人	High-resolution X-ray Microtomography at 200 keV Region
			2020A1269	BL28B2	星野 真人	
			2020A2100	BL28B2	星野 真人	
			2021A1265	BL28B2	星野 真人	
			2022A1796	BL28B2	星野 真人	
46088	Akihisa Takeuchi	2990 (2023) 040012	2020A1386	BL47XU	竹内 晃久	High-energy X-ray Nanotomography at SPring-8
			2021A1323	BL20XU	竹内 晃久	
			2021B1519	BL47XU	竹内 晃久	
			2021B2106	BL20XU	竹内 晃久	
			2022A1400	BL47XU	竹内 晃久	
46301	Yoshio Suzuki	2990 (2023) 030001	2018B1167	BL20XU	戸田 裕之	Hard X-ray Schlieren Microscopy and its Application to Computer Tomography

Inorganic Chemistry

46017	Takumi Yomogida	61 (2022) 20206-20210	2020A0174	BL01B1	高橋 嘉夫	Application of High-Energy-Resolution X-ray Absorption Spectroscopy at the U L ₃ -Edge to Assess the U(V) Electronic Structure in FeUO ₄
			2020A1566	BL39XU	河村 直己	
			2021B1821	BL39XU	蓬田 匠	
			2022A1733	BL39XU	蓬田 匠	
46092	Masahiro Kouno	62 (2023) 9463-9470	2016A1485	BL02B1	小島 達弘	Jahn-Teller Switching of a Redox-Active Nickel(III) Center in a Homoleptic Thiolato Metalloligand Environment
			2017B1203	BL02B2	吉成 信人	
46093	Nobuto Yoshinari	62 (2023) 9291-9294	2020A0603	BL02B1	吉成 信人	Silver(I) Sulfide Clusters Protected by Rhodium(III) Metalloligands with 3-Aminopropanethiolate
			2021A1242	BL02B1	吉成 信人	
46097	Xun Kang	62 (2023) 18474-18484	2022A1067	BL02B2	Belik Alexei	Cd ₂ FeReO ₆ : A High-T _c Double Perovskite Oxide with Remarkable Tunneling Magnetoresistance
			2022B1919	BL02B2	山浦 一成	
			2023A1496	BL02B2	Belik Alexei	
			2023A2361	BL02B2	山浦 一成	

Journal of Alloys and Compounds-1

45930	Renato Belli Strozi	969 (2023) 172415	2022B3782	BL22XU	榊 浩司	High Entropy Alloys Containing Immiscible Mg and Refractory Elements: Synthesis, Structure, and Hydrogen Storage Properties
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Journal of Alloys and Compounds-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
45948	Masafumi Matsushita	970 (2024) 172457	2019B1423	BL04B1	松下 正史	Formation Process, Microstructure, and Mechanical Properties of an Ultrafine Dual-phase Alloy Formed through Phase Transition of 18R-type Long-period Stacking Ordered in Mg ₈₅ Zn ₆ Y ₉ under High Pressure
46054	Amane Morimura	968 (2023) 172263	2021B1609	BL02B2	赤松 寛文	High-pressure Syntheses, Crystal Structures, and Magnetic Properties of Novel Quadruple Perovskite Oxides LaMn ₃ Ru ₂ Mn ₂ O ₁₂ and LaMn ₃ Ru ₂ Fe ₂ O ₁₂
			2022A1493	BL02B2	山田 幾也	
			2022A1828	BL14B2	岡崎 湧一	
			2022B1619	BL14B2	山田 幾也	
46199	Takahiro Nishio	976 (2024) 172992	2021A1675	BL13XU	西尾 隆宏	Uniaxial Magnetic Anisotropy of L1 ₀ -FeNi Films with Island Structures on LaAlO ₃ (110) Substrates by Nitrogen Insertion and Topotactic Extraction
			2022B1682	BL46XU	西尾 隆宏	

The Journal of Biological Chemistry

46006	Atsuhiko Shimada	299 (2023) 105277	2019A6920	BL44XU	島田 敦広	Crystallographic Cyanide-probing for Cytochrome c Oxidase Reveals Structural Bases Suggesting that a Putative Proton Transfer H-pathway Pumps Protons
			2017A2597	BL38B1	島田 敦広	
			2019B2573	BL45XU	島田 敦広	
46032	Atsushi Taguchi	299 (2023) 104892	2021B6624	BL44XU	中島 良介	Functional and Structural Characterization of <i>Streptococcus pneumoniae</i> Pyruvate Kinase Involved in Fosfomycin Resistance
			2022A6720	BL44XU	中島 良介	
			2022B6720	BL44XU	中島 良介	
46204	Takeaki Ikeuchi	298 (2022) 102109	2019B2714	BL26B1	三上 文三	Crystal Structure of <i>Grimontia hollisae</i> Collagenase Provides Insights into its Novel Substrate Specificity toward Collagen
			2021A2760	BL26B1	三上 文三	
			2022A2744	BL26B1	三上 文三	
46282	Nozomi Katsuki	300 (2024) 105508	2022B2537	BL45XU	伏信 進矢	Protocatechuate Hydroxylase is a Novel Group A Flavoprotein Monooxygenase with a Unique Substrate Recognition Mechanism

Journal of the American Chemical Society

45854	Jeffrey T. Babicz Jr.	145 (2023) 15230-15250	2021B1350	BL35XU	Solomon Edward	Nuclear Resonance Vibrational Spectroscopy Definition of Peroxy Intermediates in Catechol Dioxygenases: Factors that Determine Extra- versus Intradiol Cleavage
			2019B1103	BL19LXU	Solomon Edward	
			2013B0105	BL09XU	Solomon Edward	
45941	Nobutaka Fujieda	139 (2017) 5149-5155	2014A6500	BL44XU	山下 栄樹	A Well-Defined Osmium–Cupin Complex: Hyperstable Artificial Osmium Peroxygenase
			2014B6500	BL44XU	山下 栄樹	
			2015A6500	BL44XU	山下 栄樹	
			2015B6500	BL44XU	山下 栄樹	
46011	Morito Namba	145 (2023) 21807-21816	2021A1383	BL39XU	高津 浩	Large Perpendicular Magnetic Anisotropy Induced by an Intersite Charge Transfer in Strained EuVO ₂ H Films
			2021A1528	BL10XU	高津 浩	
			2020A0628	BL01B1	高津 浩	
			2019B1084	BL01B1	高津 浩	
			2019A1304	BL01B1	高津 浩	
			2021B1218	BL04B1	高津 浩	
			2022A1147	BL25SU	高津 浩	
46026	Shinya Okazoe	145 (2023) 24005-24011	2020A1130	BL02B2	草田 康平	Molybdenum–Ruthenium–Carbon Solid-Solution Alloy Nanoparticles: Can They Be Pseudo-Technetium Carbide?
			2020A1696	BL14B2	岡副 真也	

Acta Materialia

45869	Hiroyuki Toda	257 (2023) 119188	2013B1027	BL20XU	戸田 裕之	Surrogate-Based Optimization of Microstructural Features of Structural Materials
			2020A1796	BL20XU	戸田 裕之	
			2020A1084	BL20XU	戸田 裕之	
46072	Yan Chong	257 (2023) 119165	2022A1007	BL13XU	辻 伸泰	Oxygen Interstitials Make Metastable β Titanium Alloys Strong and Ductile
46128	Feiyu Qin	264 (2023) 119544	2020A1156	BL35XU	Zhu Yingcai	Integrating Abnormal Thermal Expansion and Ultralow Thermal Conductivity into (Cd,Ni) ₂ Re ₂ O ₇ via Synergy of Local Structure Distortion and Soft Acoustic Phonons
			2019B3751	BL22XU	町田 晃彦	
			2021A1074	BL02B2	Hu Lei	
			2021A3751	BL22XU	町田 晃彦	

Advanced 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
45936	Yuji Mahara	13 (2023) 2301843	2020A7030	BL33XU	田島 伸	Activation and Stabilization of Mn-Based Positive Electrode Materials by Doping Nonmetallic Elements
			2021A7030	BL33XU	田島 伸	
			2021B7030	BL33XU	梅原 密太郎	
			2022A7008	BL33XU	野中 敬正	
			2022B5070	BL16XU	高橋 直子	
45993	Datong Zhang	11 (2021) 2102285	2020A1287	BL01B1	山本 健太郎	Reversible and Fast (De)fluorination of High-Capacity Cu ₂ O Cathode: One Step Toward Practically Applicable All-Solid-State Fluoride-Ion Battery
			2019A1016	BL02B2	内本 喜晴	
			2019B1014	BL01B1	内本 喜晴	
			2019B1015	BL02B2	内本 喜晴	
			2019B1022	BL27SU	内本 喜晴	
			2019B1500	BL02B2	松永 利之	
			2020A1009	BL01B1	内本 喜晴	
2020A1010	BL02B2	内本 喜晴				
2020A1288	BL27SU	山本 健太郎				
46148	Thorsten O. Schmidt	13 (2023) 2302039	2019A1394	BL01B1	神谷 和秀	Elucidating the Active Sites and Synergies in Water Splitting on Manganese Oxide Nanosheets on Graphite Support

Bulletin of the Chemical Society of Japan

45855	Koh Sugamata	96 (2023) 977-979	2023A1771	BL02B1	菅又 功	A Novel Hydrogen-Bonded Organic Framework Constructed by Triptycene-2,3,6,7,14,15-Hexacarboxylic Acid
			2023A1727	BL02B1	箕浦 真生	
			2022B1626	BL02B1	村田 理尚	
			2022A1584	BL02B1	森迫 祥吾	
			2022A1200	BL02B1	箕浦 真生	
			2021B1798	BL02B1	早川 雅大	
			2021B1132	BL02B1	森迫 祥吾	
			2021B1435	BL02B1	村田 理尚	
			2021A1578	BL02B1	早川 雅大	
			2021A1592	BL02B1	西野 龍平	
46160	Hiroaki Ito	96 (2023) 1262-1268	2021A1573	BL02B2	井藤 浩明	Stability and Metastability of Li ₃ YCl ₆ and Li ₃ HoCl ₆
			2022A1698	BL02B2	井藤 浩明	
			2019B1195	BL02B2	後藤 陽介	
			2021B1175	BL02B2	後藤 陽介	
			2022B0559	BL02B2	山下 愛智	
46293	Naoki Kito	96 (2023) 1045-1051	2021A1200	BL01B1	増田 晋也	Au ₁₃ Superatom Bearing Two Terpyridines at Coaxial Positions: Photoluminescence Quenching via Complexation with 3d Metal Ions

Catalysis Science & Technology

46049	Ayaka Shigemoto	12 (2022) 4450-4455	2021A1038	BL14B2	関根 泰	Elucidation of Catalytic NO _x Reduction Mechanism in an Electric Field at Low Temperatures
			2021B1847	BL14B2	関根 泰	
46150	Kousuke Bepu	13 (2023) 6653-6661	2020A1165	BL01B1	別府 孝介	Amorphous <i>versus</i> Nanocrystalline RuO ₂ Electrocatalysts: Activity and Stability for Oxygen Evolution Reaction in Sulfuric Acid
			2021B1585	BL01B1	別府 孝介	
			2022B0590	BL01B1	別府 孝介	
46188	Takehiro Matsuyama	14 (2024) 76-82	2022B1656	BL14B2	矢部 智宏	Direct Thioether Metathesis Enabled by <i>in situ</i> Formed Pd Nanocluster Catalysts

Chemical Communications

46051	Jun-Ichiro Makiura	58 (2022) 4837-4840	2022B1775	BL14B2	関根 泰	Efficient CO ₂ Conversion to CO using Chemical Looping over Co-In Oxide
46052	Keke Kang	59 (2023) 11061-11064	2023A1036	BL14B2	関根 泰	Equilibrium Unconstrained Low-temperature CO ₂ Conversion on Doped Gallium Oxides by Chemical Looping
			2022B1775	BL14B2	関根 泰	
46075	Taito Hashimoto	59 (2023) 7224-7227	2022B1151	BL40XU	久木 一朗	Statically and Dynamically Flexible Hydrogen-bonded Frameworks Based on 4,5,9,10-tetrakis(4-carboxyphenyl)pyrene
			2023A1264	BL40XU	久木 一朗	

Dalton Transactions

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
46210	Ginji Harada	52 (2023) 13895-13905	2022B1312	BL10XU	新名 良介	Growth of Submillimeter SrTaO ₂ N Single Crystals by an NH ₃ -assisted SrCl ₂ Flux Method
			2023A1146	BL10XU	新名 良介	
46223	Yuto Suga	53 (2024) 862-865	2022B1592	BL02B1	砂田 祐輔	Reduction-induced Hapticity Increase in a Silacycle-bridged Biaryl-based Ligand Coordinated to an Iron Center
46224	Reon Ishii	52 (2023) 15124-15130	2022B1592	BL02B1	砂田 祐輔	Four- and Three-coordinate Planar Iron(II) Complexes Supported by Bulky Organosilyl Ligands

Journal of Applied Physics

45932	Yongzhao Yao	134 (2023) 155104	2022B3055	BL24XU	姚 永昭	Three-dimensional Distribution and Propagation of Dislocations in β -Ga ₂ O ₃ Revealed by Borrmann Effect X-ray Topography
			2023A3055	BL24XU	姚 永昭	
46284	Reika Ota	134 (2023) 214103	2021A1160	BL13XU	白石 貴久	Scalable Ferroelectricity of 20 nm-thick (Al _{0.8} Sc _{0.2})N Thin Films Sandwiched between TiN Electrodes
			2022A1266	BL13XU	舟窪 浩	
46325	Masayuki Yoshida	132 (2022) 075101	2018B3683	BL14B1	佐野 智一	Influence of Pulse Duration on Mechanical Properties and Dislocation Density of Dry Laser Peened Aluminum Alloy using Ultrashort Pulsed Laser-driven Shock Wave
			2020A3784	BL22XU	佐野 智一	
			2021A3723	BL22XU	菅浦 敬久	
			2021B3723	BL22XU	菅浦 敬久	

Journal of Materials Chemistry A

45895	Chen Chen	11 (2023) 15389-15393	2022B1694	BL02B2	後藤 真人	Thermal Properties and Phase Transition Behaviors of Possible Caloric Materials Bi _{0.95} Ln _{0.05} NiO ₃
45907	Hajime Suzuki	11 (2023) 15159-15167	2020A0824	BL02B2	加藤 大地	A Sillén Oxyhalide SrBi ₃ O ₄ Cl ₃ as a Promising Photocatalyst for Water Splitting: Impact of the Asymmetric Structure on Light Absorption and Charge Carrier Dynamics
			2022A1081	BL02B2	加藤 大地	
46280	Yuta Harada	(2024) Online published 12 Dec. 2023	2021A1356	BL01B1	直井 勝彦	Ultrafast Cathode Characteristics of a Nano-V ₂ (PO ₄) ₃ Carbon Composite for Rechargeable Magnesium Batteries
			2022A1499	BL01B1	直井 勝彦	

The Journal of Physical Chemistry Letters

46100	Kota Aoki	14 (2023) 10396-10401	2023A1244	BL40B2	高橋 倫太郎	Polymeric Sol-Gel Transition with the Diverging Correlation Length Verified by Small-Angle X-ray Scattering
			2022B1233	BL40B2	高橋 倫太郎	
			2022A1193	BL40B2	高橋 倫太郎	
			2023B1174	BL40B2	高橋 倫太郎	
46216	Zhuanfang Jing	14 (2023) 6270-6277	2021A1110	BL04B2	Zhou Yongquan	Hydration of Alkali Metal and Halide Ions from Static and Dynamic Viewpoints
46220	Aya Fujimoto	14 (2023) 10019-10024	2021A1480	BL40XU	小椎尾 謙	Deformation Behavior of Body-Centered Cubic Lattice in Polymers
			2021A1525	BL05XU	小椎尾 謙	
			2018B1035	BL40XU	高原 淳	
			2019A1015	BL40XU	高原 淳	
			2019B1011	BL40XU	高原 淳	
			2020A1007	BL40XU	高原 淳	
			2021B1460	BL05XU	小椎尾 謙	

Materials Transactions

45865	Zenji Horita	64 (2023) 1585-1590	2021A1390	BL04B1	堀田 善治	<i>In Situ</i> Synchrotron High-Pressure X-ray Analysis for ZnO with Rocksalt Structure
			2019B1496	BL04B1	堀田 善治	
46279	Toyokazu Tanabe	64 (2023) 2445-2449	2023A1540	BL09XU	田邊 豊和	Metal-Support Interaction at Palladium-Composite Manganese Oxide Interface and CO Oxidation Activity
46307	Hiroyuki Toda	64 (2023) 2729-2738	2019B2046	BL20XU	戸田 裕之	Dominant Factors Controlling the Initiation of Hydrogen Embrittlement in Al-Zn-Mg Alloy
			2020A1084	BL20XU	戸田 裕之	
			2020A1796	BL20XU	戸田 裕之	
			2021A1002	BL20XU	戸田 裕之	
			2021B1123	BL20XU	戸田 裕之	
			2022A1005	BL20XU	戸田 裕之	

Meteoritics and Planetary Science-1

46156	Daisuke Nakashima	(2023) Online published 3 Jul. 2023	2021B0185	BL20XU	松本 恵	Development of Preparation Methods of Polished Sections of Returned Samples from Asteroid Ryugu by the Hayabusa2 Spacecraft
			2019A0165	BL20XU	土山 明	

Meteoritics and Planetary Science-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
46157	Zelia Dionnet	(2023) Online published 2 Sep. 2023	2021B0185	BL47XU	松本 恵	Three-dimensional Multiscale Assembly of Phyllosilicates, Organics, and Carbonates in Small Ryugu Fragments
46159	Takaaki Noguchi	(2023) Online published 22 Nov. 2023	2021B0185 2019A0165	BL47XU BL47XU	松本 恵 土山 明	Mineralogy and Petrology of Fine-grained Samples Recovered from the Asteroid (162173) Ryugu

Physical Chemistry Chemical Physics

46018	Takumi Nakanishi	25 (2023) 12394-12400	2020A1124	BL02B1	佐藤 治	Observation of Proton-transfer-coupled Spin Transition by Single-crystal Neutron-diffraction Measurement
			2021A1070	BL02B1	佐藤 治	
			2021B1223	BL02B1	佐藤 治	
46218	Keke Chai	25 (2023) 10481-10494	2021A1110	BL04B2	Zhou Yongquan	Structure of Choline Chloride-carboxylic Acid Deep Eutectic Solvents by Wide-angle X-ray Scattering and DFT Calculations
46227	Peidong Hu	26 (2024) 116-122	2017A1657	BL13XU	山田 大貴	Revealing the Evolution of Local Structures in the Formation Process of Alkaline Earth Metal Cation-containing Zeolites from Glasses
			2017A3751	BL22XU	町田 晃彦	
			2017B3785	BL22XU	脇原 徹	
			2018A3751	BL22XU	町田 晃彦	
			2018B2095	BL04B2	尾原 幸治	
			2018B3783	BL22XU	脇原 徹	
			2019A2058	BL04B2	尾原 幸治	
			2019B1572	BL02B2	脇原 徹	
			2019B2091	BL04B2	尾原 幸治	
			2021A1455	BL04B2	山田 大貴	
2022B1368	BL04B2	山田 大貴				
2022B2121	BL04B2	山田 大貴				

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

46004	Wei Sun	120 (2023) e2303675120	2021A2742	BL45XU	Wang Yanli	Acr1IC4 Inhibits Type II-C Cas9 by Preventing R-loop Formation
46153	Hiromi Imamura	120 (2023) e2307687120	2020A2576	BL41XU	今田 勝巳	Red Fluorescent Proteins Engineered from Green Fluorescent Proteins
			2021A2736	BL41XU	今田 勝巳	
			2022A2739	BL41XU	今田 勝巳	
46324	Pablo Artigas	120 (2023) e2313999120	2023B2518	EM01CT	阿部 一啓	A Na Pump with Reduced Stoichiometry is Up-regulated by Brine Shrimp in Extreme Salinities

軽金属 (Journal of Japan Institute of Light Metals)

45994	Akihiro Minagawa	71 (2021) 409-414	2020A1548	BL20XU	村上 雄一朗	Relationship between TiB ₂ Agglomerate Size and Grain Refinement Effectiveness of Al-Ti-B Grain Refiner
46266	Hiroki Adachi	73 (2023) 628-632	2019A1809	BL46XU	足立 大樹	Investigation of the Cause of Serration Generation in Al-Mg Alloy using <i>In-situ</i> XRD/DIC Simultaneous Measurement
			2021A1673	BL46XU	足立 大樹	
46309	Ryota Higa	73 (2023) 530-536	2015A0076	BL20XU	戸田 裕之	Multi-modal 3D Image-based Simulation of Hydrogen Embrittlement Crack Initiation in Al-Zn-Mg Alloy

ACS Applied Polymer Materials

46025	Isamu Saito	4 (2022) 7054-7060	2021A1131	BL43IR	桶蔭 興資	Anisotropic Responses with Cation Selectivity in Hierarchically Ordered Polysaccharide Networks
46262	Masatoshi Todaka	6 (2024) 298-307	2020A1896	BL19B2	小椎尾 謙	Interfacial Structure Analyses of Single Carbon Fiber-Embedded Polymers by In Situ X-ray Scattering and Birefringence Measurements
			2021A1452	BL20XU	小椎尾 謙	
			2021B1476	BL05XU	小椎尾 謙	
			2021A7223	BL03XU	小椎尾 謙	

ACS Catalysis

46294	Shinya Masuda	13 (2023) 16179-16187	2021B1415	BL01B1	増田 晋也	Partially Thiolated Au _n (n = 25, 102) Clusters on Layered Double Hydroxides Anchored by Electrostatic Interactions: Size Effect on 5-Hydroxymethylfurfural Oxidation Catalysis
			2022B1576	BL14B2	増田 晋也	
46328	Takeshi Nishimoto	13 (2023) 14725-14736	2022B1609	BL01B1	吉田 真明	Oxidized Copper and Molybdenum Species Exclusively Boosting Electrocatalytic Hydrogen Evolution in Non-Extreme pH Carbonate Buffer Electrolyte

Advanced 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
46028	Hirohito Umeno	9 (2022) 2104907	2021A7498	BL07LSU	大久保 将史	Oxygen Redox Versus Oxygen Evolution in Aqueous Electrolytes: Critical Influence of Transition Metals
			2020A7474	BL07LSU	大久保 将史	
			2019B7456	BL07LSU	大久保 将史	
			2019A7452	BL07LSU	大久保 将史	
			2018B7590	BL07LSU	大久保 将史	
46105	Kota Matsumoto	10 (2023) 2304978	2022B1046	BL02B2	河底 秀幸	Thermally Reentrant Crystalline Phase Change in Perovskite-Derivative Nickelate Enabling Reversible Switching of Room-Temperature Electrical Resistivity
			2019A0068	BL02B2	森吉 千佳子	

Chemistry Letters

45876	Taki Suginaga	52 (2023) 715-719	2022B1609	BL01B1	吉田 真明	Development of an FeOOH Electrocatalyst for Water Oxidation from the Recycling of Disposable Body Warmers
46149	Tsugumi Araki	52 (2023) 314-316	2022A1123	BL40B2	櫻木 美菜	Structural Characteristics and Skin Permeabilities of Bicelles Dispersed in Hydrated Deep Eutectic Solvents
			2022B1196	BL40XU	櫻木 美菜	

Communications Biology

46202	Kyosuke Kawai	5 (2022) 67	2015A1052	BL26B1	三上 文三	Evolutionary Alterations in Gene Expression and Enzymatic Activities of Gibberellin 3-oxidase 1 in <i>Oryza</i>
46323	Kazuhiro Abe	6 (2023) 956	2022B2522	EM01CT	阿部 一啓	Deep Learning Driven de novo Drug Design Based on Gastric Proton Pump Structures
			2021B2530	EM01CT	阿部 一啓	

FEBS Letters

46145	Kenji Fukui	592 (2018) 1611-1619	2016A2522	BL38B1	村川 武志	Multiple Zinc Ions Maintain the Open Conformation of the Catalytic Site in the DNA Mismatch Repair Endonuclease MutL from <i>Aquifex aeolicus</i>
46203	Saori Ueshima	597 (2023) 2473-2483	2022A2744	BL26B1	三上 文三	Insights into the Catalytic Mechanism of <i>Grimontia hollisae</i> Collagenase through Structural and Mutational Analyses
			2022B6744	BL44XU	三上 文三	
			2023A2733	BL26B1	三上 文三	

Frontiers in Microbiology

46003	Touya Toyomoto	14 (2023) 1276447	2019A6918	BL44XU	志波 智生	Alkyl Gallates Inhibit Serine <i>O</i> -acetyltransferase in Bacteria and Enhance Susceptibility of Drug-resistant Gram-negative Bacteria to Antibiotics
			2019B6918	BL44XU	志波 智生	
			2020A6518	BL44XU	志波 智生	
			2021A6616	BL44XU	志波 智生	
			2021B6616	BL44XU	志波 智生	
46035	Kunihiko Nishino	12 (2021) 737288	2018B6830	BL44XU	中島 良介	Function and Inhibitory Mechanisms of Multidrug Efflux Pumps
			2019A6928	BL44XU	中島 良介	
			2019B6928	BL44XU	中島 良介	

The Journal of Chemical Physics

45910	Tsuyoshi Yamaguchi	157 (2022) 154504	2021B1103	BL43LXU	吉田 亨次	Effects of Molecular Shape and Flexibility on Fast Sound of Organic Liquids
46186	Yoshiyasu Matsumoto	159 (2023) 214706	2021B5070	BL16XU	高橋 直子	Understanding the Reaction Mechanism and Kinetics of Photocatalytic Oxygen Evolution on CoO _x -loaded Bismuth Vanadate

Journal of Magnetism and Magnetic Materials

46002	Takahiro Onimaru	588 (2023) 171379	2010A1060	BL09XU	筒井 智嗣	Effects of Si Substitution on Ferromagnetic Order and Off-center Rattling of Eu Ions in the Type-I Clathrate Eu ₈ Ga ₁₆ Ge ₃₀
			2015B1112	BL09XU	筒井 智嗣	
46288	Toshiyuki Igarashi	590 (2024) 171640	2021A1538	BL25SU	岡本 聡	Analysis on Bimodal Complex Permeability Spectrum of a Noise Suppression Sheet and Single Constituent Flakes

Journal of Molecular Liquids

45908	Koji Yoshida	391 (2023) 123197	2017B1229	BL04B2	吉田 亨次	<i>In-situ</i> Observation of an Anion Exchange Membrane at Various Humidity by X-ray Scattering
			2022B1181	BL04B2	吉田 亨次	
45909	Koji Yoshida	366 (2022) 120218	2020A1320	BL35XU	吉田 亨次	The Translational, Rotational, and Phonon Dynamics of Water in ZrO ₂ /Water Nanofluid

The Journal of Physical Chemistry 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
46176	Masaru Nakada	127 (2023) 10556-10563	2020A3337	BL08B2	桑本 滋生	Low-Temperature Behaviors, Cold Crystallization, and Glass Transition in Poly(vinylpyrrolidone) Aqueous Solution
			2021A3337	BL08B2	桑本 滋生	
			2021B3337	BL08B2	桑本 滋生	
46217	Zhuanfang Jing	127 (2023) 4858-4869	2021A1110	BL04B2	Zhou Yongquan	Alkali Metal Ion Recognition by 18-Crown-6 in Aqueous Solutions: Evidence from Local Structures

Journal of Physics: Condensed Matter

46127	Kazuhiro Matsuda	36 (2024) 075501	2021B4258	BL12XU	松田 和博	Observation of Plasmon Excitation in Liquid Silicon by Inelastic X-ray Scattering
			2022A4254	BL12XU	松田 和博	
			2018A4261	BL12XU	松田 和博	
			2018B4260	BL12XU	松田 和博	
46255	Takashi Naka	36 (2024) 125801	2015B4505	BL15XU	名嘉 節	Phase Transitions and Slow Spin Dynamics of Slightly Inverted A-site Spinel $\text{CoAl}_{2-x}\text{Ga}_x\text{O}_4$
			2016B4505	BL15XU	名嘉 節	
			2018A4507	BL15XU	名嘉 節	

Materials Science and Engineering A

46073	Lavakumar Avala	878 (2023) 145214	2018B1760	BL46XU	辻 伸泰	Unique Microstructure Formations during Low-temperature Partitioning after Intercritical Annealing in Low Alloy Multi-phase TRIP Steel and Their Mechanical Behavior Clarified by in-situ Synchrotron X-Ray Diffraction
46074	Lavakumar Avala	874 (2023) 145089	2018B1760	BL46XU	辻 伸泰	Role of Surrounding Phases on Deformation-induced Martensitic Transformation of Retained Austenite in Multi-phase TRIP Steel

Microscopy

46178	Ryohei Yamaura	71 (2022) 364-373	2020A1264	BL20B2	山内 大輔	Three-dimensionally Visualized Rhizoid System of Moss, <i>Physcomitrium patens</i> , by Refraction-contrast X-ray Micro-computed Tomography
			2021B1154	BL20B2	山内 大輔	
46179	Ichirou Karahara	72 (2023) 310-325	2020A1264	BL20B2	山内 大輔	Three-dimensional Visualization of Plant Tissues and Organs by X-ray Micro-computed Tomography
			2021B1154	BL20B2	山内 大輔	
			2022B1143	BL20B2	唐原 一郎	

Molbank

46094	Masahiro Kouno	2023 (2023) M1684	2021A1295	BL02B2	吉成 信人	Hexakis(μ -3-aminopropanethiolato-1 κ^6 N,S:2 κ^3 S;3 κ^6 N,S:2 κ^3 S)cadmium(II)dihodium(III) Dibromide Tetrahydrate
			2022A1578	BL02B2	吉成 信人	
46095	Taichi Baba	2023 (2023) M1698	2021A1295	BL02B2	吉成 信人	[μ -1,2-Bis(diphenylphosphino)ethane- κ^2P,P']bis(3-mercapto-1,2-propanediolato- κ S-gold(I))

Nuclear Instruments and Methods in Physics Research Section A

46000	Alexander Rack	1058 (2024) 168812	2019B1648	BL40XU	Rack Alexander	Recent Developments in MHz Radioscopy: Towards the Ultimate Temporal Resolution using Storage Ring-based Light Sources
			2019B2087	BL40XU	関口 博史	
46110	Shunji Kishimoto	1058 (2024) 168884	2017B1208	BL09XU	岸本 俊二	X-ray Timing Detectors with HfO ₂ Nanoparticle-loaded Plastic Scintillator and Silicon Avalanche Photodiode
			2018B1299	BL09XU	岸本 俊二	

Physica Status Solidi A

46292	Nobuya Hiroshiba	220 (2023) 2300252	2018A1777	BL46XU	松原 亮介	Early Stage Growth Process of Dinaphtho[2,3-b:2',3'-f]thieno[3,2-b]thiophene (DNTT) Thin Film
			2021B1953	BL46XU	松原 亮介	
46295	Ryosuke Fukazawa	220 (2023) 2300161	2021B1953	BL46XU	松原 亮介	Hole Injection Characteristics and Annealing Temperature Dependence for Organic Light-Emitting Diodes Using Spontaneous Polarization

Science-1

45922	Kento Katagiri	382 (2023) 69-72	2021A8004	BL3	Koenig Michel	Transonic Dislocation Propagation in Diamond
			2021B8067	BL3	尾崎 典雅	

Science-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
46243	Manuel Maestre-Reyna	382 (2023) eadd7795	2017A8019	BL3	岩田 想	Visualizing the DNA Repair Process by a Photolyase at Atomic Resolution
			2017B8052	BL2	別所 義隆	
			2018A8008	BL2	別所 義隆	
			2018B8031	BL2	別所 義隆	
			2019A8014	BL2	別所 義隆	
			2019B8005	BL2	別所 義隆	
			2018A2514	BL32XU	別所 義隆	
			2019A2534	BL32XU	別所 義隆	
2020A2585	BL32XU	別所 義隆				

Science Advances

46085	Shunsuke Sato	9 (2023) eadh9986	2021B7038	BL33XU	坂本 直柔	Enhanced Performance of Molecular Electrocatalysts for CO ₂ Reduction in a Flow Cell Following K ⁺ Addition
			2022A7038	BL33XU	坂本 直柔	
			2023A7038	BL33XU	坂本 直柔	
46207	Fuminao Kishimoto	9 (2023) eadi1744	2021B1394	BL04B2	岸本 史直	Direct Microwave Energy Input on a Single Cation for Outstanding Selective Catalysis
			2022A1079	BL04B2	岸本 史直	
			2022A1082	BL01B1	岸本 史直	

Science and Technology of Advanced Materials: Method

45921	Shin Tajima	3 (2023) 2260299	2023A7030	BL33XU	梅原 密太郎	Charge-discharge Properties of LiMn ₂ O ₄ -group Positive Electrode Active Materials for Lithium-ion Batteries using High-throughput Experimental Screening and Machine Learning Models
			2021A7030	BL33XU	田島 伸	
			2021B7030	BL33XU	梅原 密太郎	
46228	Satoru Hamamoto	3 (2023) 2270529	2022A2043	BL20XU	大浦 正樹	Demonstration of Efficient Transfer Learning in Segmentation Problem in Synchrotron Radiation X-ray CT Data for Epoxy Resin

Soft Matter

45931	Madoka Mizuguchi	19 (2023) 7781-7786	2021B1138	BL40B2	寺尾 憲	Solution Characterization of a Hyperbranched Polysaccharide Carbamate Derivative and Specific Phase Separation Behavior Due to Chain Branching
			2021B1139	BL40B2	寺尾 憲	
46103	Taiki Hoshino	19 (2023) 3267-3272	2021B7259	BL03XU	山本 渥史	Dynamic Behaviours of Epoxy Resin Thin Films during the Curing Process
			2022A7210	BL03XU	山本 渥史	

ACS Applied Energy Materials

46123	Zulai Cao	6 (2023) 11906-11914	2021A1645	BL14B2	山本 健太郎	High-Performance Copper/Copper Oxide-Based Cathode Prepared by a Facile Ball-Milling Method for All-Solid-State Fluoride-Ion Batteries
			2021B1374	BL27SU	山本 健太郎	
			2021B1878	BL14B2	山本 健太郎	
			2021B1019	BL20XU	内本 喜晴	
			2021B1508	BL02B2	松永 利之	
			2021B1540	BL02B2	松永 利之	
2020A1509	BL02B2	松永 利之				

ACS Applied Materials & Interfaces

46005	Yuto Higuchi	15 (2023) 38463-38473	2022A1219	BL02B2	田中 俊輔	CO ₂ -Induced Gate-Opening Adsorption on a Chabazite/Phillipsite Composite Zeolite Transformed from a Faujasite Zeolite Using Organic Structure-Directing Agent-Free Steam-Assisted Conversion
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ACS Applied Nano Materials

45860	Loku Singgappulige Rosantha Kumara	6 (2023) 16653-16661	2017A1320	BL04B2	坂田 修身	Persistent Homology and Bond Orientational Order in Ir-Cu Solid-Solution Alloy Nanoparticles: Implications for Electrocatalysts
			2017A1034	BL04B2	坂田 修身	
			2017A4910	BL15XU	草田 康平	
			2017A4501	BL15XU	坂田 修身	
			2020A1416	BL04B2	坂田 修身	

ACS Engineering Au

46208	William J. Movick	3 (2023) 292-300	2022B0532	BL01B1	岸本 史直	Low-Temperature Ammonia Synthesis with an In Situ Adsorber under Regenerative Reaction Cycles Surpassing Thermodynamic Equilibrium
			2022B1629	BL14B2	岸本 史直	

ACS 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
46008	Shun Hayashi	3 (2023) 456-463	2021A1283	BL01B1	林 峻	Highly Active and Durable Rh–Mo-Based Catalyst for the NO–CO–C ₃ H ₆ –O ₂ Reaction Prepared by Using Hybrid Clustering

ACS Organic & Inorganic Au

46009	Shun Hayashi	3 (2023) 283-290	2022B1655	BL01B1	林 峻	High-Density Formation of Ir/MoO _x Interface through Hybrid Clustering for Chemoselective Nitrostyrene Hydrogenation
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ACS Sustainable Chemistry & Engineering

46197	Huyen Nguyen	10 (2022) 923-934	2016A2540	BL26B1	三上 文三	Functional and Structural Characterizations of Lytic Polysaccharide Monoxygenase, Which Cooperates Synergistically with Cellulases, from <i>Ceriporiopsis subvernisporea</i>
			2016A2575	BL26B1	三上 文三	
			2016B6640	BL44XU	三上 文三	

Advanced Electronic Materials

45919	Xueyou Yuan	11 (2024) 230714	2017B4903	BL15XU	山田 智明	Extraordinarily Large Contribution Ratio of Ferroelastic Domain Switching to Piezoresponse in Monoclinic (K, Na)NbO ₃ Films
			2017B1574	BL13XU	山田 智明	

Advanced Materials

46147	Dali Ji	35 (2023) 2301506	2021B1204	BL01B1	神谷 和秀	Angstrom-Confined Electrochemical Synthesis of Sub-Unit-Cell Non-Van Der Waals 2D Metal Oxides
			2022A1165	BL01B1	神谷 和秀	

Analytical Sciences

46122	Yuji Sasaki	(2023) Online published 7 Nov. 2023	2019A3740	BL22XU	中瀬 正彦	Preliminary Studies of XANES and DFT Calculation of Ru Extraction by Imino-diacetamide and Related Compounds
			2019B3737	BL22XU	中瀬 正彦	

Angewandte Chemie International Edition

46058	Yuki Nakaya	60 (2021) 19715-19719	2020A1255	BL01B1	古川 森也	Doubly Decorated Platinum–Gallium Intermetallics as Stable Catalysts for Propane Dehydrogenation
			2020A1609	BL14B2	古川 森也	
			2021A1541	BL14B2	古川 森也	

Antimicrobial Agents and Chemotherapy

46036	Seiji Yamasaki	66 (2022) e00672-22	2019A6928	BL44XU	中島 良介	Spatial Characteristics of the Efflux Pump MexB Determine Inhibitor Binding
			2020A6527	BL44XU	中島 良介	
			2021A6624	BL44XU	中島 良介	

Applied and Environmental Microbiology

46143	Yuki Honda	84 (2018) e02213-18	2017B2708	BL38B1	中野 祥吾	Improvement of ST0452 <i>N</i> -Acetylglucosamine-1-Phosphate Uridyltransferase Activity by the Cooperative Effect of Two Single Mutations Identified through Structure-Based Protein Engineering
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Applied Catalysis A: General

46061	Hiroyasu Tabe	237 (2018) 1124-1129	2016B2718	BL26B1	安部 聡	Photocatalytic Hydrogen Evolution Systems Constructed in Cross-linked Porous Protein Crystals
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Applied Catalysis B

46027	Xiao Zhao	324 (2023) 122268	2017A7800	BL36XU	岩澤 康裕	Roles of Structural Defects in Polycrystalline Platinum Nanowires for Enhanced Oxygen Reduction Activity
			2017A7801	BL36XU	岩澤 康裕	
			2017A7807	BL36XU	岩澤 康裕	
			2017A7808	BL36XU	岩澤 康裕	
			2017B7800	BL36XU	岩澤 康裕	
			2017B7801	BL36XU	岩澤 康裕	
			2017B7806	BL36XU	岩澤 康裕	
			2018A7800	BL36XU	岩澤 康裕	
			2018A7801	BL36XU	岩澤 康裕	
			2018A7806	BL36XU	岩澤 康裕	
			2018B7800	BL36XU	岩澤 康裕	
			2018B7801	BL36XU	岩澤 康裕	
			2019A7800	BL36XU	岩澤 康裕	
			2019A7801	BL36XU	岩澤 康裕	
2019B7800	BL36XU	岩澤 康裕				
2019B7801	BL36XU	岩澤 康裕				

Applied Microbiology and Biotechnology

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
45961	Tomohiko Matsuzawa	101 (2017) 8353-8363	2016A6657	BL44XU	渡邊 真宏	Improved Thermostability of a Metagenomic Glucose-tolerant β -glycosidase Based on its X-ray Crystal Structure
			2016B6657	BL44XU	渡邊 真宏	

Applied Physics Express

45885	Yasuo Nakayama	16 (2023) 101001	2020A1627	BL19B2	中山 泰生	Well-ordered Molecular Heterojunction of Epitaxial C ₆₀ on Single-crystal Dinaphtho[2,3- <i>b</i> 2',3'- <i>f</i>]thieno[3,2- <i>b</i>]thiophene (DNTT)
			2021A1629	BL46XU	中山 泰生	
			2022A1324	BL13XU	中山 泰生	

Applied Science

45917	Tetsuya Miyazawa	13 (2023) 10753	2021B2078	BL08W	今井 英人	Imaging Liquid Water in a Polymer Electrolyte Fuel Cell with High-Energy X-ray Compton Scattering
			2022A1017	BL08W	今井 英人	
			2022B1007	BL08W	今井 英人	
			2023A1010	BL08W	今井 英人	
			2019B1371	BL08W	辻 成希	
			2020A1301	BL08W	辻 成希	
			2020A1300	BL08W	辻 成希	
			2021A2077	BL08W	辻 成希	
			2021B1639	BL08W	辻 成希	
2022B2122	BL08W	辻 成希				

Applied Surface Science

45912	Ibrahim Gueye	593 (2022) 153272	2020A4602	BL15XU	長田 貴弘	Operando Hard X-ray Photoelectron Spectroscopy Study of Buried Interface Chemistry of Au/InO _{1.16} C _{0.04} /Al ₂ O ₃ /p ⁺ -Si Stacks
			2020A4651	BL15XU	長田 貴弘	

Biochemistry

45960	Daichi Murata	56 (2017) 6281-6291	2016B2572	BL26B1	松村 浩由	Structural Basis for the <i>Serratia marcescens</i> Lipase Secretion System: Crystal Structures of the Membrane Fusion Protein and Nucleotide-Binding Domain
			2016B6639	BL44XU	松村 浩由	

Biochimie

45904	Asako Kikuchi	142 (2017) 41-50	2017A2545	BL41XU	姚 閔	A Novel Glycoside Hydrolase Family 97 Enzyme: Bifunctional β -L-arabinopyranosidase/ α -galactosidase from <i>Bacteroides thetaiotaomicron</i>
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Bioorganic & Medicinal Chemistry Letters

46118	Rie Nishikawa-Shimono	97 (2023) 129541	2022B2518	BL32XU	上谷 将史	Discovery of Novel Indole Derivatives as Potent and Selective Inhibitors of proMMP-9 Activation
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Bioscience, Biotechnology & Biochemistry

46206	Manami Suzuki	85 (2021) 386-390	2018A2546	BL26B1	榎田 哲哉	Insight into the Mechanism of Thermostabilization of GH10 Xylanase from <i>Bacillus</i> sp. Strain TAR-1 by the Mutation of S92 to E
			2018A2526	BL26B1	榎田 哲哉	
			2018A2563	BL26B1	三上 文三	
			2019B2714	BL26B1	三上 文三	

Carbohydrate Polymers

46111	Yuma Nakata	325 (2024)121587	2020A0529	BL40B2	寺尾 憲	Dual Thermoresponsive Polysaccharide Derivative – Water System. Partially Substituted Amylose Butylcarbarnate in Water
			2021A1092	BL40B2	寺尾 憲	
			2021B1138	BL40B2	寺尾 憲	
			2021B1139	BL40B2	寺尾 憲	
			2022A1083	BL40B2	寺尾 憲	
			2022B1119	BL40B2	寺尾 憲	
			2022B1120	BL40B2	寺尾 憲	

Cellulose

45861	Yoshinori Doi	30 (2023) 8287-8297	2021A1240	BL40B2	磯部 紀之	Monitoring Crystallite Fusion of Nanocellulose during Colloid Condensation
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Chemistry - A European 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
46126	Mahfuza Akter	24 (2018) 18052-18058	2012A6721	BL44XU	柴田 直樹	Redox Potential-Dependent Formation of an Unusual His-Trp Bond in Bilirubin Oxidase
			2012B6721	BL44XU	柴田 直樹	
			2014A6925	BL44XU	柴田 直樹	
			2014B6925	BL44XU	柴田 直樹	
			2018A6821	BL44XU	柴田 直樹	
			2017A2538	BL26B1	柴田 直樹	
			2017A2538	BL38B1	柴田 直樹	
	理研	BL32XU				

Chemistry of Materials

45958	Xun Kang	35 (2023) 8621-8628	2021A1169	BL02B2	山浦 一成	Promising Approach to Achieving a Large Exchange Bias Effect in Bulk Materials with Small Cooling Fields
			2022A1067	BL02B2	Belik Alexei	
			2022B1919	BL02B2	山浦 一成	

ChemSusChem

45942	Ritsuki Nakajima	16 (2023) e202300384	2018B5311	BL16B2	中山 耕輔	Principles of Self-Repairing Ability of Tripodal Ligand-Stabilized Hybrid Cobalt Hydroxide Nanosheets for Alkaline Water Electrolysis
			2019A5311	BL16B2	中山 耕輔	
			2019B5311	BL16B2	尾角 英毅	
			2020A5311	BL16B2	尾角 英毅	
			2021B5310	BL16B2	尾角 英毅	

Communications Chemistry

45913	Erika Tsutsumi	6 (2023) 190	2020A2548	BL41XU	竹田 一旗	Structure of a Putative Immature Form of a Rieske-type Iron-Sulfur Protein in Complex with Zinc Chloride
			2019A2560	BL41XU	竹田 一旗	

Computer Physics Communications

45950	Katsumi Hagita	295 (2023) 108971	2018B3404	BL08B2	萩田 克美	Two-dimensional Pattern Reverse Monte Carlo Analysis of Nanoparticles in Polymer Matrices using a Combination of OpenACC and cuFFT
			2018B3290	BL24XU	萩田 克美	

e-Journal of Surface Science and Nanotechnology

45923	Shinya Hosokawa	20 (2022) 36-41	2021A1177	BL39XU	細川 伸也	Three-dimensional Atomic Image of FeSe High-temperature Superconductor by X-ray Fluorescence Holography
			2020A0549	BL13XU	細川 伸也	

ECS Transactions

45925	Yuki Orikasa	109 (2022) 109	2020A0682	BL37XU	折笠 有基	Operando Cerium Distribution Analysis on Through-Plane Membrane Electrode Assemblies in 2nd-Generation MIRAI
			2021A1010	BL37XU	今井 英人	
			2021A2046	BL37XU	今井 英人	
			2021B1011	BL37XU	今井 英人	
			2022A1019	BL37XU	今井 英人	

Electrochemistry

45926	Mariya Yamagishi	91 (2023) 037002	2021B1725	BL46XU	折笠 有基	Effect of Fluorine Substitution in Li ₃ YCl ₆ Chloride Solid Electrolytes for All-solid-state Battery
			2021B1936	BL46XU	折笠 有基	
			2020A1704	BL28B2	山重 寿夫	

Electronic Structure

46231	Shin-ichi Fujimori	5 (2023) 045009	2019A3811	BL23SU	藤森 伸一	Impact of the Ce 4f States in the Electronic Structure of the Intermediate-valence Superconductor CeIr ₃
			2019B3811	BL23SU	藤森 伸一	
			2020A3811	BL23SU	藤森 伸一	

Faraday Discussions

45937	Chinmoy Das	225 (2021) 403-413	2020A1383	BL04B2	堀毛 悟史	Crystal Melting and Vitrification Behaviors of a Three-dimensional Nitrile-based Metal-organic Framework
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Frontiers in Oncology

46226	Seigi Yamamoto	13 (2023) 1213678	2022B1242	BL40B2	松尾 龍人	Structural Characterization of Human <i>de novo</i> Protein NCYM and its Complex with a Newly Identified DNA Aptamer using Atomic Force Microscopy and Small-angle X-ray Scattering
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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
45954	Taku Okada	59 (2023) 2501205	2018B1467	BL25SU	藤枝 俊	Evaluation of Magnetic Flux Density Change for Vibration Energy Harvesting: Comparison between Direct and Indirect Measurements

Internal Medicine

45874	Shogo Kitahata	(2023) Online published Aug. 23, 2023	2017A1431	BL37XU	松浦 晃洋	Renal Cell Carcinoma and Hepatocellular Carcinoma in a Patient with Wilson's Disease: A Case Report
			2018A1395	BL37XU	松浦 晃洋	
			2019A1026	BL37XU	松浦 晃洋	

International Journal of Biological Macromolecules

46201	Apisian Phienluphon	253 (2023) 127188	2021A2760	BL26B1	三上 文三	Structural Insights into the Molecular Mechanisms of Substrate Recognition and Hydrolysis by Feruloyl Esterase from <i>Aspergillus sydowii</i>
			2022A2744	BL26B1	三上 文三	

International Journal of Hydrogen Energy

46229	Akihiko Kato	50 (2024) 1218-1227	2019B7032	BL33XU	山口 聡	Dependence of Vapor and Liquid Water Removal on Cross-flow in Polymer Electrolyte Fuel Cell Investigated by Operando Synchrotron X-ray Radiography
			2020A7032	BL33XU	山口 聡	

International Journal of Mechanical Sciences

46296	Takashi Matsuno	261 (2024) 108671	2020A1772	BL46XU	松野 崇	Flow Stress Curves for 980MPa- and 1.5GPa-class Ultra-high-strength Steel Sheets Weakened under High-stress Triaxiality
			2020A1097	BL28B2	松野 崇	
			2022A1385	BL28B2	松野 崇	

International Journal of Molecular Sciences

45881	Koichiro Oishi	24 (2023) 12069	2019A1313	BL40XU	西野 有里	Ligand-Dependent Intramolecular Motion of Native Nicotinic Acetylcholine Receptors Determined in Living Myotube Cells via Diffracted X-ray Tracking
			2018B1087	BL40XU	西野 有里	
			2020A2018	BL40XU	関口 博史	

ISIJ International

45951	Sohei Sukenaga	63 (2023) 1263-1266	2017B1400	BL04B2	助永 壮平	Mechanism of Al Coordination Change in Alkaline-earth Aluminosilicate Glasses: An Application of Bond Valence Model
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Journal of Applied Glycoscience

46205	Hisamu Iwase	70 (2023) 99-107	2017B2592	BL38B1	橋本 涉	Crystal Structures of <i>Lactocaseibacillus</i> 4-deoxy-L-threo-5-hexosulose-uronate Ketol-isomerase Kdul in Complex with Substrate Analogs
			2019A2557	BL45XU	橋本 涉	
			2020A2577	BL26B1	橋本 涉	

Journal of Astronomical Telescopes, Instruments, and Systems

45911	Kazunori Asakura	9 (2023) 025004	2020A1506	BL20B2	林田 清	Multi-image X-ray Interferometer Module: I. Design Concept and Proof-of-concept Experiments with Fine-pitch Slits
			2018A1368	BL20B2	林田 清	
			2018B1235	BL20B2	林田 清	
			2019A1503	BL20B2	林田 清	
			2019B1492	BL20B2	林田 清	
			2021A1442	BL20B2	林田 清	

The Journal of Biochemistry

46146	Shota Akai	165 (2019) 185-195	2013B1204	BL38B1	宮原 郁子	The Crystal Structure of Homoserine Dehydrogenase Complexed with L-homoserine and NADPH in a Closed Form
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Journal of Composite Materials

46219	Masatoshi Todaka	57 (2023) 4157-4167	2021A7223	BL03XU	小椎尾 謙	In situ and Offline Mapping Analyses of Fatigue Behavior in Carbon-fiber-reinforced Polymers by Small- and Wide-angle X-ray Scattering
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Journal of Materials Processing Technology

46297	Takashi Matsuno	322 (2023) 118174	2020A1097	BL28B2	松野 崇	Unstable Stress-triaxiality Development and Contrasting Weakening in Two Types of High-strength Transformation-induced Plasticity (TRIP) Steels: Insights from a New Compact Tensile Testing Method
			2022A1385	BL28B2	松野 崇	

Journal of Materials Science & Technology

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
46107	Naoki Takata	178 (2024) 80-89	2021A1663	BL19B2	足立 大樹	Microstructural Origins of High Strength of Al-Si Alloy Manufactured by Laser Powder Bed Fusion: <i>In-situ</i> Synchrotron Radiation X-ray Diffraction Approach
			2022A1001	BL13XU	足立 大樹	
			2022A1798	BL19B2	足立 大樹	

Journal of Medicinal Chemistry

45997	Kumi Abe-Sato	66 (2023) 14653-14668	2021B2518	BL32XU	上谷 将史	Structure-Based Optimization and Biological Evaluation of Potent and Selective MMP-7 Inhibitors for Kidney Fibrosis
			2021B2518	BL45XU	上谷 将史	

Journal of Molecular Biology

46113	Mohammad Shahrizal Bin Mohammad Umar	431 (2019) 625-635	2017A2557	BL32XU	塚崎 智也	Structural Basis for the Function of the β -Barrel Assembly-Enhancing Protease BepA
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Journal of Photopolymer Science and Technology

46245	Yuji Hosaka	34 (2021) 95-98	2018B8042	BL1	錦野 将元	Study on Irradiation Effects by Femtosecond-pulsed Extreme Ultraviolet in Resist Materials
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Journal of Solution Chemistry

46246	Toshio Yamaguchi	(2023) Online published 1 Aug. 2023	2021A1362	BL08W	山口 敏男	Structure of Single Aqueous MgSO ₄ Droplets Ultrasonically Levitated in the Air: Supersaturation and Crystallization
			2020A0771	BL08W	山口 敏男	
			2019B1656	BL08W	山口 敏男	
			2019A1603	BL08W	山口 敏男	

Journal of Surface Analysis

46059	Shuichi Ogawa	29 (2022) 82-89	2019A3836	BL23SU	小川 修一	Evaluation of Electronic/Chemical State of Nano Carbon Materials Using Photoelectron Spectroscopy
			2019B3801	BL23SU	吉越 章隆	
			2020A3801	BL23SU	吉越 章隆	
			2021A3801	BL23SU	吉越 章隆	

Journal of the American Association for Laboratory Animal Science

46194	Martin Donnelley	62 (2023) 559-568	2022A1077	BL20XU	Donnelley Martin	Noncontact Respiratory Motion Detection in Anesthetized Rodents
			2022B1169	BL20XU	Donnelley Martin	

Journal of the American Ceramic Society

45897	Kei Maeda	106 (2023) 7440-7448	2020A1603	BL20XU	前田 敬	Indentation-induced Ductile Behavior of Glass-ceramics Involving Layered Aluminosilicates
			2020A0521	BL20XU	大熊 学	

Journal of the Ceramic Society of Japan

45873	Keigo Aihara	131 (2023) 813-822	2019A1830	BL14B2	相原 啓吾	Design of Oxygen-Storage/Release Materials with High-Speed of Oxygen release in Rare-Earth Trivalent Cation M ³⁺ -doped Ceria-Zirconia System
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Journal of the Japan Petroleum Institute

46187	Tomohiro Hojo	66 (2023) 238-245	2022B1656	BL14B2	矢部 智宏	Efficient in situ Formation of Fe ₃ C ₂ from Alkali Metal-doped Ru/Fe ₂ O ₃ during CO ₂ Hydrogenation
			2023A1512	BL14B2	矢部 智宏	

JTCVS Open

46024	Yuson Wada	8 (2021) 557-560	2021A1141	BL20B2	大嶋 義博	Identification of the Atrioventricular Conduction Axis and its Positional Relationship with Anatomical Landmarks of a Heart with Tricuspid Atresia
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Key Engineering Materials

46283	Kenji Suzuki	968 (2023) 3-8	2021A3684	BL14B1	鈴木 賢治	Actual Stress Analysis of Welded Part Using a Quantum Beam Hybrid Method
			2022A3684	BL14B1	鈴木 賢治	

Liquids

46247	Toshio Yamaguchi	3 (2023) 288-302	2012B3623	BL14B1	山口 敏男	An X-ray and Neutron Scattering Study of Aqueous MgCl ₂ Solution in the Gigapascal Pressure Range
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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
45949	Katsumi Hagita	56 (2023) 4457-4467	2018B3290	BL24XU	萩田 克美	Structural Changes of Aggregated Filler Particles in Elongated Rubbers through Two-Dimensional Pattern Reverse Monte Carlo Modeling
			2018B3404	BL08B2	萩田 克美	
			2016B1557	BL19B2	曾根 卓男	

Materials Science Forum

46222	Yoshikazu Nakai	1107 (2023) 61-66	2018B1597	BL46XU	中井 善一	Misorientation of Grains in Fatigue of Harmonic Structured Steel Observed by Diffraction Contrast Tomography Using Ultrabright Synchrotron Radiation
			2019A1643	BL46XU	中井 善一	
			2019B1728	BL46XU	中井 善一	
			2021B1887	BL46XU	中井 善一	

Microbiome Research Reports

46195	Aina Gotoh	2 (2023) 20	2011A1891	BL38B1	伏信 進矢	Substrate Recognition Mode of a Glycoside Hydrolase Family 42 β -galactosidase from <i>Bifidobacterium longum</i> Subspecies <i>infantis</i> (BiBga42A) Revealed by Crystallographic and Mutational Analyses
			2011A1908	BL26B1	伏信 進矢	

Modern Physics Letters B

46193	Keisuke Matsui	(2023) Online published 27 Nov. 2023	2021A1587	BL02B2	芳鐘 順也	Electron Injection into Superconducting Trivalent Fullerenes Close to the Mott Transition Boundary
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Nano Letters

45918	Masatoshi Kimura	21 (2021) 9240-9246	2020A4701	BL15XU	上田 茂典	Large Phonon Drag Thermopower Boosted by Massive Electrons and Phonon Leaking in $\text{LaAlO}_3/\text{LaNiO}_3/\text{LaAlO}_3$ Heterostructure
			2018A4701	BL15XU	井手 啓介	
			2018B4701	BL15XU	井手 啓介	

Nature

46225	Long-Jiang Yu	556 (2018) 209-213	2014B1277	BL41XU	于 龍江	Structure of Photosynthetic LH1-RC Supercomplex at 1.9 Å Resolution
			2015A1079	BL41XU	于 龍江	
			2016A2553	BL41XU	于 龍江	
			2017A2590	BL41XU	于 龍江	
			2015B6522	BL44XU	菅 倫寛	
			2016B6621	BL44XU	菅 倫寛	
			2017A6724	BL44XU	菅 倫寛	

Nature Chemical Biology

45858	Takahiro Mori	13 (2017) 1066-1073	2015A1031	BL41XU	阿部 郁朗	Molecular Basis for the Unusual Ring Reconstruction in Fungal Meroterpenoid Biogenesis
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Nature Chemistry

45859	Christopher D. M. Hutchison	15 (2023) 1607-1615	2017B8008	BL3	van Thor Jasper	Optical Control of Ultrafast Structural Dynamics in a Fluorescent Protein
			2019B8021	BL3	van Thor Jasper	

Nature Energy

46119	Jie Ding	8 (2023) 1386-1394	2020A4260	BL12XU	平岡 望	A Tin-based Tandem Electrocatalyst for CO_2 Reduction to Ethanol with 80% Selectivity
			2020A4262	BL12XU	平岡 望	
			2020A4265	BL12XU	平岡 望	
			2020A4266	BL12XU	平岡 望	
			2020A4267	BL12XU	平岡 望	
			2020A4264	BL12XU	平岡 望	

Nature Geoscience

46230	Tomoaki Kubo	3 (2010) 41-45	2006B1430	BL04B1	久保 友明	Plagioclase Breakdown as an Indicator for Shock Conditions of Meteorites
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Nature Physics

45857	Gilberto A. de la Pena Munoz	19 (2023) 1489-1494	2018A8007	BL3	Wall Simon	Ultrafast Lattice Disorder can be Accelerated by Electronic Collisional Forces
			2019A8038	BL3	Trigo Mariano	
			2019B8075	BL3	Trigo Mariano	

Nature Structural & Molecular 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
46010	Si Hoon Park	30 (2023) 1695-1706	2021A6673	BL44XU	Song HyunKyu	Structure and Activation of the RING E3 Ubiquitin Ligase TRIM72 on the Membrane
			2021B6673	BL44XU	Song HyunKyu	

NPG Asia Materials

45868	Xin Tang	15 (2023) 50	2020A1785	BL25SU	廣澤 哲	Unveiling the Origin of the Large Coercivity in (Nd, Dy)-Fe-B Sintered Magnets
			2020A1787	BL25SU	廣澤 哲	
			2020A2046	BL25SU	小谷 佳範	

Nuclear Instruments and Methods in Physics Research Section B

46213	Shan Lin	547 (2024) 165173	2018B1043	BL40XU	奥田 浩司	Nanostructure Distribution in Multilayered Al Alloy Sheets Analyzed by Quantitative Small-angle X-ray Scattering Tomography
			2020A7224	BL03XU	奥田 浩司	
			2021B7281	BL03XU	奥田 浩司	
			2022A1472	BL40XU	奥田 浩司	

Nucleic Acids Research

46214	Yasuhiro Arimura	46 (2018) 10007-10018	2014A1042	BL41XU	胡桃坂 仁志	Cancer-associated Mutations of Histones H2B, H3.1 and H2A.Z.1 Affect the Structure and Stability of the Nucleosome
			2014B1125	BL41XU	胡桃坂 仁志	
			2015A1020	BL41XU	胡桃坂 仁志	

Optics Express

46012	Takenori Shimamura	31 (2023) 38132-38145	2020A1694	BL25SU	島村 勇徳	Soft-X-ray Nanobeams Formed by Aberration-reduced Elliptical Mirrors with Large Numerical Aperture
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Organisms Diversity & Evolution

46099	Tatsuki Matoba	23 (2023) 871-879	2022A1201	BL20XU	吉澤 和徳	Is the Copulation of Silver-washed Fritillary Inverted? Function of the Female Genital Projection (Lepidoptera: Nymphalidae: Argynniini)
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Physical Review Letters

45924	Ichiro Inoue	131 (2023) 163201	2021A8057	BL3	井上 伊知郎	Femtosecond Reduction of Atomic Scattering Factors Triggered by Intense X-Ray Pulse
			2021B8022	BL3	井上 伊知郎	
			2022A8030	BL3	井上 伊知郎	
			2022B8010	BL3	井上 伊知郎	

Physical Review X

46254	Yijing Huang	13 (2023) 041050	2018B8079	BL3	Weber Christopher	Ultrafast Measurements of Mode-Specific Deformation Potentials of Bi ₂ Te ₃ and Bi ₂ Se ₃
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Physics and Chemistry of Minerals

46209	Shuhou Maitani	49 (2022) 11	2021A1281	BL10XU	新名 良介	The Electrical Conductivity of Fe ₄ O ₅ , Fe ₃ O ₆ , and Fe ₇ O ₉ up to 60 GPa
			2021B1331	BL10XU	新名 良介	

Polymer Chemistry

46037	Junsu Park	13 (2022) 4361-4365	2021A1696	BL19B2	小西 昴	Additional Crystalline Structures of Syndiotactic Polystyrene Composites with Acetylated Cyclodextrin
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Polymer Journal

45996	Yohei Nakanishi	55 (2023) 1199-1209	2014B1469	BL40B2	石毛 亮平	Unified Explanation for Self-assembly of Polymer-brush-modified Nanoparticles in Ionic Liquids
			2014B1648	BL19B2	石毛 亮平	
			2015A1718	BL19B2	石毛 亮平	
			2017A1845	BL03XU	小川 紘樹	
			2017A7213	BL03XU	宮崎 司	
			2017B1638	BL19B2	中西 洋平	
			2022A1461	BL40B2	川本 純	

Polymer Testing

45953	Yuka Kojima	128 (2023) 108242	2018A7012	BL33XU	木村 英彦	Synchrotron Radiation X-ray Laminography of Internal Damage in Short-fiber-reinforced Polyamide 6 under Cyclic Tensile Loading
			2019A7012	BL33XU	木村 英彦	
			2019B7012	BL33XU	木村 英彦	
			2020A7012	BL33XU	木村 英彦	
			2021A7012	BL33XU	木村 英彦	

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
46236	Tomoya Okada	15 (2023) 4663	2020A1046	BL19B2	松葉 豪	Morphologies of Comb-like Polyacrylic Acid/Polyacrylate Copolymers as Functions of the Degree of Derivatization with n -C ₂₂ H ₄₅ Side Chains
			2020A1427	BL43IR	松葉 豪	
			2020A1262	BL40B2	松葉 豪	
			2021A1628	BL19B2	松葉 豪	
			2021A1195	BL43IR	松葉 豪	
2021A1196	BL40B2	松葉 豪				

Proceedings of the 8th Asian Particle Technology Symposium

45864	Takeshi Suyama	(2021) 218	2019A1011	BL47XU	達 隆伸	Visualization of Internal Structure of Granule and Calculation of Packing Density of a Granule using X-ray Phase Contrast Tomography
			2020A0797	BL47XU	綿野 哲	

The Protein Journal

46175	Kyosuke Ohnuma	42 (2023) 698-708	2022A2719	BL41XU	山下 敦子	Investigating the Effect of Substituting a Single Cysteine Residue on the Thermal Stability of an Engineered Sweet Protein, Single-Chain Monellin
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Protein Science

45956	Dan Sato	26 (2017) 1224-1230	2015A6535	BL44XU	原田 繁春	Structural and Mechanistic Insights into Homocysteine Degradation by a Mutant of Methionine γ -lyase Based on Substrate-assisted Catalysis
			2015B6535	BL44XU	原田 繁春	
			2016A6635	BL44XU	原田 繁春	

Quantum Beam Science

46322	Yasufumi Miura	8 (2023) 1	2021A5051	BL16XU	野口 真一	Stress Measurement of Stainless Steel Piping Welds by Complementary Use of High-Energy Synchrotron X-rays and Neutrons
			2022A5051	BL16XU	野口 真一	

Review of Scientific Instruments

46184	Satoshi Yasuno	94 (2023) 115113	2022A1651	BL46XU	安野 聡	Development of Hard X-ray Photoelectron Spectroscopy using Synchrotron Radiation X-ray up to 30 keV
			2022A1774	BL46XU	安野 聡	
			2022B1627	BL46XU	安野 聡	
			2022B1878	BL46XU	安野 聡	

Science of The Total Environment

46287	Takashi Fujimori	908 (2024) 168297	2018A1643	BL01B1	豊巻 治也	Lead Speciation in Body Tissues, Gastrointestinal Contents, and Feces of Lead-exposed Wild Rats (<i>Rattus rattus</i>)
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Scripta Materialia

46308	Jianwei Tang	239 (2024) 115804	2021B1123	BL20XU	戸田 裕之	Stress Corrosion Cracking Induced by the Combination of External and Internal Hydrogen in Al-Zn-Mg-Cu Alloy
			2022A1005	BL20XU	戸田 裕之	
			2022B1158	BL20XU	戸田 裕之	

Separation and Purification Technology

46007	Tomoya Suzuki	308 (2023) 122943	2018B3736	BL22XU	鈴木 智也	Selective Adsorption of Pd(II) over Ag(I) in Nitric Acid Solutions using Nitrogen-donor-type Adsorbents
			2019A3738	BL22XU	鈴木 智也	
			2019B3738	BL22XU	鈴木 智也	
			2020A3737	BL22XU	鈴木 智也	
			2021A3739	BL22XU	鈴木 智也	
2021B3741	BL22XU	鈴木 智也				

Small

46300	Kazuki Shun	(2023) Online published 10 Dec. 2023	2022B1807	BL01B1	森 浩亮	Specific Hydrogen Spillover Pathways Generated on Graphene Oxide Enabling the Formation of Non-Equilibrium Alloy Nanoparticles
			2022A1076	BL01B1	森 浩亮	

Small Science

46281	Patience A. Kotei	(2023) Online published 13 Dec. 2023	2022A8066	BL2	Schriber Elyse	Engineering Supramolecular Hybrid Architectures with Directional Organofluorine Bonds
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Soil Science Society of America 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
45914	Noriko Yamaguchi	87 (2023) 821-832	2021B1113	BL27SU	山口 紀子	Speciation and Microscale Distribution of Phosphorus Compounds Accumulated in Continuously Fertilized Greenhouse Soils

Spectrochimica Acta Part B

45866	Hibiki Komatsu	209 (2023) 106785	2022B1337	BL37XU	西脇 芳典	Characterization of Metal Components in White-based Polyester Single Fibers by X-ray Fluorescence Spectrometry and X-ray Absorption Fine Structure Analysis Utilizing Synchrotron Radiation for Forensic Discrimination
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Structural Dynamics

45999	Philip Heimann	10 (2023) 054502	2021A8039	BL3	Heimann Philip	Non-thermal Structural Transformation of Diamond Driven by X-rays
			2019B8070	BL3	Heimann Philip	

Synlett

45957	Hang Xu	(2023) Online published 13 Oct. 2023	2023A1896	BL01B1	山口 渉	Efficient Protosilylation of Unsaturated Compounds with Silylboronates over a Heterogeneous Cu ₃ N Nanocube Catalyst
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Tectonophysics

46138	Maki Semba	868 (2023) 230081	2019A1527	BL04B1	平内 健一	Effects of Hydrothermal Alteration on Shear Localization and Weakening in the Mantle Lithosphere
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エアロゾル研究 (Journal of Aerosol Research, Japan)

46057	Ryosuke Matsumoto	37 (2022) 268-274	2017A1179	BL20B2	松本 亮介	Frosting Phenomena on Heat Exchanger and Frost Micro Structure —Novel Development on the Frost Research by Using Radiography Technique—
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高分子 (Kobunshi, High Polymers, Japan)

46117	Atsushi Yamamoto	72 (2023) 62-63	2021B7259	BL03XU	山本 渥史	Dynamics in the Curing Process of Thermosetting Epoxy Resins by X-ray Photon Correlation Spectroscopy
			2020A7209	BL03XU	山本 渥史	

材料 (Journal of the Society of Materials Science, Japan)

46134	Kenji Suzuki	72 (2023) 821-827	2020A1605	BL02B1	山崎 泰広	Unsteady Thermal Stresses of Thermal Barrier Coatings under Cyclic Heating
			2021B1716	BL02B1	山崎 泰広	
			2022A1101	BL02B1	鈴木 賢治	

材料と環境 (Zairyo-to-Kankyo)

45943	Takahiro Ozawa	70 (2021) 187-191	2019B5020	BL16XU	北原 周	Synchrotron μ -XRD Analysis of Corrosion Products on Exposed Steel Using Measurement Informatics
			2020A5020	BL16XU	北原 周	

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

46259	Hiroki Yamada	64 (2022) 219-224	2019B0155	BL04B2	脇原 徹	Elucidation of the Crystallization Mechanism of Zeolites by using Pair Distribution Function Analysis
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メディカル サイエンス ダイジェスト (Medical Science Digest)

45851	Kengo Kitadokoro	49 (2023) 486-487	2020A6512	BL44XU	北所 健悟	On Elucidating the Mechanism by which Anti-obesity Drugs Inhibit Virulence Factors of <i>Staphylococcus aureus</i> .
			2021A6611	BL44XU	北所 健悟	
			2021B6611	BL44XU	北所 健悟	
			2022A6710	BL44XU	北所 健悟	
			2022B6710	BL44XU	北所 健悟	
			2023A6809	BL44XU	北所 健悟	

博士論文 (King's College London)

45856	Michaeljohn Kalakoutis	(2017)	2016A1062	BL45XU	Ochala Julien	Specific Force in Human Single Muscle Fibres with Specific Reference to Ageing
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博士論文 (Victoria University of Wellington)

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
45939	Jackson Miller	(2022)	2020A1250	BL39XU	Trodahl Joe	Rare-earth Nitride Solid Solutions

博士論文 (名古屋工業大学)

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
45927	Naoko Takahashi	(2023)	2017A5071	BL16XU	高橋 直子	Study on Elucidation of Friction Characteristics by Chemical Structure Analysis of Boundary Lubrication Film
			2017B5071	BL16XU	高橋 直子	
			2018A5071	BL16XU	高橋 直子	
			2018B5071	BL16XU	高橋 直子	

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
45863	Vladimir Timofeev	73 (2017) 369-375		BL41XU	Crystal Structure of Recombinant Phosphoribosylpyrophosphate Synthetase 2 from <i>Thermus thermophilus</i> HB27 Complexed with ADP and Sulfate Ions
46115	Satoshi Fukuhara	74 (2018) 810-816	理研	BL32XU	Crystal Structure of the <i>Agrobacterium tumefaciens</i> Type VI Effector-immunity Complex
				BL41XU	
46144	Walter R. P. Novak	74 (2018) 664-668		BL38B1	Re-refinement of <i>Plasmodium falciparum</i> Orotidine 5'-monophosphate Decarboxylase Provides a Clearer Picture of an Important Malarial Drug Target
46181	Vladimir I. Timofeev	74 (2018) 402-409		BL41XU	Crystal Structure of <i>Escherichia coli</i> Purine Nucleoside Phosphorylase Complexed with Acyclovir
46182	Vladimir I. Timofeev	74 (2018) 355-362		BL41XU	Crystal Structure of <i>Escherichia coli</i> Purine Nucleoside Phosphorylase in Complex with 7-deazahypoxanthine

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
45862	Satomi Inaba-Inoue	292 (2017) 1052-1060		BL41XU	Crystal Structures and Thermodynamic Analysis Reveal Distinct Mechanisms of CD28 Phosphopeptide Binding to the Src Homology 2 (SH2) Domains of Three Adaptor Proteins
45901	Takashi Matsui	292 (2017) 9117-9135		BL41XU	2-Alkylquinolone Alkaloid Biosynthesis in the Medicinal Plant <i>Evodia rutaecarpa</i> Involves Collaboration of Two Novel Type III Polyketide Synthases

Molecular Cell

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
45893	Takashi Yamano	67 (2017) 633-645		BL41XU	Structural Basis for the Canonical and Non-canonical PAM Recognition by CRISPR-Cpf1
45903	Hiroshi Nishimasu	67 (2017) 139-147		BL41XU	Structural Basis for the Altered PAM Recognition by Engineered CRISPR-Cpf1

Molecules and Cells

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
46033	Kyungjin Min	41 (2018) 331-341	理研	BL26B1	Structural Basis for Recognition of L-lysine, L-ornithine, and L-2,4-diamino Butyric Acid by Lysine Cyclodeaminase
46076	SangJae Lee	41 (2018) 545-552	理研	BL26B1	Crystal Structures of Spleen Tyrosine Kinase in Complex with Two Novel 4-Aminopyrido[4,3-d] Pyrimidine Derivative Inhibitors

Nature Communications

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
45894	Atsuhito Tomita	8 (2017) 148		BL41XU	ATP-dependent Modulation of MgtE in Mg ²⁺ Homeostasis
46106	Chandrika N. Deshpande	9 (2018) 3075	理研	BL32XU	Calcium is an Essential Cofactor for Metal Efflux by the Ferroportin Transporter Family

Photosynthesis Research

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
45883	Fumio Shinohara	134 (2017) 281-289		BL41XU	Structural Basis for the Isozyme-specific Interactions of Ferredoxin and Ferredoxin: NADP ⁺ Oxidoreductase: an Evolutionary Switch between Photosynthetic and Heterotrophic Assimilation
45955	Jessica M. Wluczczar	134 (2017) 175-182		BL44XU	Chlorophyll <i>a</i> with a Farnesyl Tail in Thermophilic Cyanobacteria

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
46101	Yota Fukuda	74 (2018) 769-777	理研	BL32XU BL44XU	Crystallographic Study of Dioxygen Chemistry in a Copper-containing Nitrite Reductase from <i>Geobacillus thermodenitrificans</i>

Advanced Science

46142	Terumasa Shimada	(2023) Online published 20 Nov. 2023	理研	BL44B2	Long Time CO ₂ Storage Under Ambient Conditions in Isolated Voids of a Porous Coordination Network Facilitated by the "Magic Door" Mechanism
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Archaea

46133	Hisanori Kondo	2018 (2018) 7571984		BL38B1	Crystal Structures of the Putative Isocitrate Dehydrogenase from <i>Sulfolobus tokodaii</i> Strain 7 in the Apo and NADP ⁺ -Bound Forms
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Biochimica et Biophysica Acta - General Subjects

45940	Emmanuel Balogun	1861 (2017) 2830-2842		BL44XU	Glycerol Kinase of African Trypanosomes Possesses an Intrinsic Phosphatase Activity
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Cell Structure and Function

46087	Takuya Sumi	43 (2018) 15-23	理研	BL26B2	Structural Insights into the Altering Function of CRMP2 by Phosphorylation
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Chemical Communications

46090	Keita Omura	54 (2018) 7892-7895	理研	BL26B2	Reconstitution of Full-length P450BM3 with an Artificial Metal Complex by Utilising the Transpeptidase Sortase A
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Chemical Science

45933	Paolo Mellini	8 (2017) 6400-6408		BL41XU	Potent Mechanism-based Sirtuin-2-selective Inhibition by an <i>in situ</i> -generated Occupant of the Substrate-binding Site, "Selectivity Pocket" and NAD ⁺ -binding Site
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ChemistryOpen

46102	Naomi Ohbayashi	7 (2018) 713-719	理研	BL32XU	Structural Basis for the Inhibition of Cyclin G-Associated Kinase by Gefitinib
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Crystallography Reports

45900	Konstantin Boyko	62 (2017) 909-911		BL41XU	Purification, Isolation, Crystallization, and Preliminary X-ray Diffraction Study of the BTB Domain of the Centrosomal Protein 190 from <i>Drosophila melanogaster</i>
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eLife

46132	Xiao-Man Liu	7 (2018) e41237	理研	BL32XU	Lipidation-independent Vacuolar Functions of Atg8 Rely on its Noncanonical Interaction with a Vacuole Membrane Protein
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Epigenetics

46086	Lusy Handoko	13 (2018) 410-431	理研	BL26B2	JQ1 Affects BRD2-dependent and Independent Transcription Regulation without Disrupting H4-hyperacetylated Chromatin States
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Extremophiles

46211	Tatiana E. Petrova	22 (2018) 877-888		BL41XU	Structural Characterization of Geranylgeranyl Pyrophosphate Synthase GACE1337 from the Hyperthermophilic Archaeon <i>Geoglobus acetivorans</i>
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Genes to Cells

45884	Masato Noguchi	22 (2017) 535-551		BL41XU	Ternary Complex of Human RORγ Ligand-binding Domain, Inverse Agonist and SMRT Peptide Shows a Unique Mechanism of Corepressor Recruitment
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The Journal of Biochemistry

46098	Satoshi Inouye	164 (2018) 247-255	理研	BL26B2	Slow Luminescence Kinetics of Semi-synthetic Aequorin: Expression, Purification and Structure Determination of <i>cf3</i> -aequorin
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Journal of Biomolecular Structure and Dynamics

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
46212	Valery Akparov	36 (2018) 956-965		BL41XU	Structure of the Carboxypeptidase B Complex with N-sulfamoyl-L-phenylalanine – a Transition State Analog of Non-specific Substrate

Journal of Molecular Biology

46258	Masaya Yamaguchi	430 (2018) 249-257		BL41XU	Atg7 Activates an Autophagy-Essential Ubiquitin-like Protein Atg8 through Multi-Step Recognition
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The Journal of Physical Chemistry C

46141	Koichi Yatsuzuka	127 (2023) 22457-22463	理研	BL17SU	A Non-Rate-Determining Redox Process Dictates the Oxygen Evolution Tafel Slope of MnO ₂
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Molecules

46089	Hideaki Niwa	23 (2018) 1538	理研	BL26B2	Crystal Structure of LSD1 in Complex with 4-[5-(Piperidin-4-ylmethoxy)-2-(<i>p</i> -tolyl)75yridine-3-yl]benzonitrile
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Nature

46130	Hideaki E. Kato	561 (2018) 349-354	理研	BL32XU	Structural Mechanisms of Selectivity and Gating in Anion Channelrhodopsins
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Nonlinear X-Ray Spectroscopy for Materials Science

46244	Iwao Matsuda	(2023)		SACLA 全般	Nonlinear X-Ray Spectroscopy for Materials Science
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Photonics

45934	Vladimir Lipp	10 (2023) 948		XFEL	Advantages of Using Hard X-ray Photons for Ultrafast Diffraction Measurements
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Physical Review Accelerators and Beams

45998	Hiroshi Yamaguchi	26 (2023) 092401		加速器	Design and Demonstration of Low Current Density dc Septum Magnet
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Physical Review Research

46053	Shuntaro Takazawa	5 (2023) L042019	理研	BL29XU	Coupling X-ray Photon Correlation Spectroscopy and Dynamic Coherent X-ray Diffraction Imaging: Particle Motion Analysis from Nano-to-micrometer Scale
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Protein Expression and Purification

46096	Kazushige Katsura	150 (2018) 92-99	理研	BL26B2	Phosphorylated and Non-phosphorylated HCK Kinase Domains Produced by Cell-free Protein Expression
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Science Signaling

46084	Gareth S. A. Wright	11 (2018) eaaq0825	理研	BL45XU	Architecture of the Complete Oxygen-sensing FixL-FixJ Two-component Signal Transduction System
			理研	BL26B2	

Scientific Reports

46060	Yasuhiro Isogai	8 (2018) 16883	理研	BL26B1	Tracing Whale Myoglobin Evolution by Resurrecting Ancient Proteins
			理研	BL38B1	

Viruses

46260	Nina N. Sykilinda	10 (2018) 309		BL41XU	Structure of an <i>Acinetobacter</i> Broad-Range Prophage Endolysin Reveals a C-Terminal α -Helix with the Proposed Role in Activity against Live Bacterial Cells
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