

最近 Spring-8 もしくは SACLA から発表された成果リスト

公益財団法人高輝度光科学研究センター
利用推進部

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

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

このデータベースに登録された原著論文の内、2022 年 4 月～6 月に登録されたものを以下に紹介します。論文の情報 (主著者、巻、発行年、ページ、タイトル) に加え、データベースの登録番号 (研究成果番号) を掲載していますので、詳細は上記検索ページの検索結果画面でご覧いただくことができます。また実施された課題の情報 (課題番号、ビームライン、実験責任者名) も掲載しています。課題番号は最初の 4 文字が「year」、次の 1 文字が「term」、後ろの 4 文字が「proposal no.」となっていますので、この情報から以下の URL で公表している、各課題の英文利用報告書 (Spring-8 User Experiment Report) を探してご覧いただくことができます。

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

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

Spring-8 研究成果登録データベースに 2022 年 4 月～6 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	Acta Crystallographica Section F	4
Scientific Reports	8	Angewandte Chemie International Edition	4
ACS Applied Energy Materials	7	Applied Physics Letters	4
The Journal of Biological Chemistry	7	Chemical Communications	4
ACS Applied Materials & Interfaces	6	Geophysical Research Letters	4
Inorganic Chemistry	6	Journal of the American Chemical Society	4
Journal of Synchrotron Radiation	6	Langmuir	4
Journal of the Physical Society of Japan	6	Proceedings of the National Academy of Sciences of the United States of America	4
Physical Review Materials	6		
Nature Communications	5	Protein Science	4
Science Advances	5		

他全 181 誌、計 321 報

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

課題の成果として登録された論文

Physical Review B

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43293	Shinobu Aoyagi	105 (2022) 024101	2017A1036	BL13XU	青柳 忍	Position and Electric Field Dependent Local Lattice Strain Detected by Nanobeam X-ray Diffraction on a Relaxor Ferroelectric Single Crystal
			2017A1465	BL13XU	青柳 忍	
			2017B1476	BL13XU	青柳 忍	
			2018B1529	BL02B1	青柳 忍	
			2018B1534	BL13XU	青柳 忍	
2019A1308	BL13XU	青柳 忍				
43346	Hirokazu Shimizu	105 (2022) 014442	2019B1248	BL47XU	組頭 広志	Rocksalt-type PrO Epitaxial Thin Film as a Weak Ferromagnetic Kondo Lattice
43347	Kazumichi Namikawa	100 (2019) 184110	2012B3713	BL22XU	大和田 謙二	Mesoscopic Hierarchic Polarization Structure in the Relaxor Ferroelectrics $Pb[(Mg_{1/3}Nb_{2/3})_{1-x}Ti_x]O_3$
43392	Yui Sakaguchi	105 (2022) 155129	2012B1519	BL39XU	池田 修悟	Pressure-induced Changes of Valence Fluctuation in β -YbAlB ₄ Probed by X-ray Absorption Spectroscopy
			2013A1368	BL39XU	小林 寿夫	
			2014A1652	BL39XU	阪口 友雄	
			2012B0046	BL39XU	渡辺 真仁	
43397	Kentaro Ueda	105 (2022) L161102	2021B1261	BL02B1	鬼頭 俊介	Experimental Signatures of a Versatile Weyl Semimetal in a Pyrochlore Iridate with Spin-ice-like Magnetic Orders
43404	Yuji Saitoh	102 (2020) 165152	2016A3832	BL23SU	藤原 秀紀	Insight into Kondo Screening in the Intermediate-valence Compound $SmOs_4Sb_{12}$ Uncovered by Soft X-ray Magnetic Circular Dichroism
43409	D. Yu. Usachov	102 (2020) 205102	2019A3811	BL23SU	藤森 伸一	Photoelectron Diffraction for Probing Valency and Magnetism of 4f-based Materials: A View on Valence-fluctuating $EuIr_2Si_2$
			2019B3811	BL23SU	藤森 伸一	
43446	Flavio Giorgianni	105 (2022) 155147	2017A8021	BL3	Scagnoli Valerio	Melting of Magnetic Order in $NaOsO_3$ by Femtosecond Laser Pulses
43595	Akihiro Ino	105 (2022) 195111	2015A4801	BL15XU	井野 明洋	Direct Observation of the Electronic Structure of the Layered Phosphide Superconductor $ZrP_{2-x}Se_x$
			2015B4800	BL15XU	井野 明洋	
			2016A4800	BL15XU	井野 明洋	
			2017B4801	BL15XU	井野 明洋	
43691	Kenta Takada	105 (2022) 205205	2018B1108	BL35XU	若林 裕助	Phonon Dispersion of the Organic Semiconductor Rubrene
			2019A1147	BL35XU	若林 裕助	
			2020A1783	BL35XU	若林 裕助	
43758	Takahito Takeda	105 (2022) 195155	2017B3841	BL23SU	藤森 淳	Development of Magnetism in Fe-doped Magnetic Semiconductors: Resonant Photoemission and X-ray Magnetic Circular Dichroism Studies of (Ga,Fe)As
			2019A3841	BL23SU	小林 正起	
43851	Andrew Krygier	105 (2022) L220102	2015A8066	BL3	尾崎 典雅	X-ray Diffraction Study of Phase Transformation Dynamics of Fe and Fe-Si Alloys along the Shock Hugoniot using an X-ray Free Electron Laser
			2015B8063	BL3	尾崎 典雅	
			2017A8062	BL3	尾崎 典雅	
			2015A8023	BL3	Harmand Marion	
			2015B8014	BL3	Harmand Marion	

Scientific Reports-1

43522	Motomichi Koyama	11 (2021) 19384	2020A3691	BL14B1	小山 元道	Hydrogenation Treatment under Several Gigapascals Assists Diffusionless Transformation in a Face-Centered Cubic Steel
			2021A3691	BL14B1	小山 元道	
43548	Gaku Okuma	12 (2022) 6994	2020A0521	BL20XU	大熊 学	Morphology of Subsurface Cracks in Glass-ceramics Induced by Vickers Indentation Observed by Synchrotron X-ray Multiscale Tomography
			2020A1603	BL20XU	前田 敬	
43598	Mohammad Riad Kasem	12 (2022) 7789	2020A4269	BL12XU	山岡 人志	Robustness of Superconductivity to External Pressure in High-entropy-alloy-type Metal Telluride $AgInSnPbBiTe_s$
			2021A4253	BL12XU	山岡 人志	
			2021B4254	BL12XU	山岡 人志	
43643	Michael Grimes	12 (2022) 8584	2021A8026	BL3	Scagnoli Valerio	Determination of Sub-ps Lattice Dynamics in FeRh Thin Films
43680	Amane Kobayashi	11 (2021) 3877	2016A8048	BL3	中迫 雅由	Common Architectures in Cyanobacteria <i>Prochlorococcus</i> Cells Visualized by X-ray Diffraction Imaging using X-ray Free Electron Laser
			2016B8064	BL3	中迫 雅由	
			2017A8015	BL3	中迫 雅由	
			2017B8003	BL2	中迫 雅由	
43694	Kosuke Takahashi	12 (2022) 8843	2021A1185	BL20XU	高橋 航圭	X-ray Nanoimaging of a Transversely Embedded Carbon Fiber in Epoxy Matrix under Static and Cyclic Loads
			2020A0655	BL20XU	高橋 航圭	

Scientific Reports-2

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43716	Martin Donnelley	12 (2022) 9000	2019A1151	BL20XU	Donnelley Martin	Improved in-vivo Airway Gene Transfer via Magnetic-guidance, with Protocol Development Informed by Synchrotron Imaging
			2019B1508	BL20XU	Donnelley Martin	
43804	Koutaro Hikosaka	12 (2022) 10000	2017A0072	BL10XU	廣瀬 敬	Melting Phase Relations in Fe-Si-H at High Pressure and Implications for Earth's Inner Core Crystallization

ACS Applied Energy Materials

43291	Takeshi Tojigamori	5 (2022) 1002-1009	2020A7613	BL28XU	安部 武志	Reversible Charge/Discharge Reaction of a Ternary Metal Fluoride, Pb ₂ CuF ₆ : A Highly Conductive Cathode Material for Fluoride-Ion Batteries
			2021A7618	BL28XU	安部 武志	
43344	Takeshi Shimizu	5 (2022) 5191-5198	2020A3634	BL14B1	吉川 浩史	Application of Porous Coordination Polymer Containing Aromatic Azo Linkers as Cathode-Active Materials in Sodium-Ion Batteries
			2021A3634	BL14B1	吉川 浩史	
			2021B3634	BL14B1	吉川 浩史	
43367	Miyuki Shinoda	5 (2022) 2642-2646	2021B1722	BL19B2	藪内 直明	Rocksalt and Layered Metal Sulfides for Li Storage Applications: LiMe _{0.5} Ti _{0.5} S ₂ (Me = Fe ²⁺ , Mn ²⁺ , and Mg ²⁺)
43547	Takeyuki Sekimoto	5 (2022) 4125-4137	2019A5120	BL16XU	山田 周吾	Investigation of the Acceleration and Suppression of the Light-Induced Degradation of a Lead Halide Perovskite Solar Cell Using Hard X-ray Photoelectron Spectroscopy
			2019B5120	BL16XU	山田 周吾	
			2020A5120	BL16XU	山田 周吾	
43642	Ikuya Yamada	5 (2022) 5995-6002	2020A0583	BL02B2	山田 幾也	Multiple Factors on Catalytic Activity for Oxygen Evolution Reaction in Magnetoplumbite Fe-Co Oxide BaFe _{12-x} Co _x O ₁₉
43658	Yadan Ren	5 (2022) 4108-4116	2017A1019	BL37XU	今井 英人	State of the Active Site in La _{1-x} Sr _x CoO _{3.5} Under Oxygen Evolution Reaction Investigated by Total-Reflection Fluorescence X-Ray Absorption Spectroscopy
			2018B1037	BL46XU	内本 喜晴	
			2020A1009	BL01B1	内本 喜晴	
			2020A1895	BL14B2	内山 智貴	
43852	Teppe Nishi	3 (2020) 8383-8392	2019A7034	BL33XU	野中 敬正	Low-Overpotential Electrochemical Water Oxidation Catalyzed by CuO Derived from 2 nm-Sized Cu ₂ (NO ₃)(OH) ₃ Nanoparticles Generated by Laser Ablation at the Air-Liquid Interface

ACS Applied Materials & Interfaces

43362	Fanji Wang	13 (2021) 7510-7516	2019A1765	BL46XU	尾坂 格	Inversion of Circular Dichroism Signals in Chiral Polythiophene Films Induced by End-On-Oriented Surface-Segregated Monolayers
43363	Fengkun Chen	13 (2021) 57743-57749	2019A1765	BL46XU	尾坂 格	Triphenylene[1,2-c:7,8-c'] bis([1,2,5]thiadiazole) as a V-Shaped Electron-Deficient Unit to Construct Wide-Bandgap Amorphous Polymers for Efficient Organic Solar Cells
43364	Kyohei Nakano	13 (2021) 60299-60305	2021A1558	BL46XU	尾坂 格	Reduction of Electric Current Loss by Aggregation-Induced Molecular Alignment of a Non-Fullerene Acceptor in Organic Photovoltaics
			2021A1641	BL46XU	但馬 敬介	
43605	Yane Zheng	12 (2020) 42274-42284	2020A3610	BL14B1	松村 大樹	Ultra-Fine CeO ₂ Particles Triggered Strong Interaction with LaFeO ₃ Framework for Total and Preferential CO Oxidation
43688	Yuji Mahara	14 (2022) 24321-24331	2019A7030	BL33XU	田島 伸	How Fluorine Introduction Solves the Spinel Transition, a Fundamental Problem of Mn-Based Positive Electrodes
			2019B7030	BL33XU	田島 伸	
			2020A7030	BL33XU	田島 伸	
43820	Tomooki Hosaka	14 (2022) 23507-23517	2018B1613	BL46XU	駒場 慎一	Superconcentrated NaFSA-KFSA Aqueous Electrolytes for 2 V-Class Dual-Ion Batteries

Journal of the Physical Society of Japan-1

43321	Takaya Mitsui	91 (2022) 035002	2018A3551	BL11XU	三井 隆也	Dynamical Effects on Thermal Diffuse Scattering in Si 111 Bragg Reflection
			2018A3552	BL11XU	三井 隆也	
			2018B3551	BL11XU	境 誠司	
			2018B3552	BL11XU	三井 隆也	
			2019A1108	BL09XU	三井 隆也	
			2019A3552	BL11XU	三井 隆也	
			2019B3552	BL11XU	三井 隆也	
43325	Yoshiya Yamamoto	88 (2019) 124703	2017A3551	BL11XU	三井 隆也	Mössbauer Spectroscopy Study of K ₂ Fe ₂ Se ₂ under Pressure

Journal of the Physical Society of Japan-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
43500	Takaya Mitsui	91 (2022) 064001	2018A3551	BL11XU	三井 隆也	Rayleigh Scattering of Synchrotron Mössbauer Radiation Using a Variable Bandwidth Nuclear Bragg Monochromator
			2018A3552	BL11XU	三井 隆也	
			2018B3551	BL11XU	境 誠司	
			2018B3552	BL11XU	三井 隆也	
			2019A1108	BL09XU	三井 隆也	
			2019A3552	BL11XU	三井 隆也	
			2019B3552	BL11XU	三井 隆也	
43634	Yajun Li	91 (2022) 054602	2020A0734	BL25SU	横谷 尚睦	Incorporation Site and Valence State of Sn Atoms in Sn-Substituted La(O,F)BiS ₂ Superconductor
			2020A1598	BL25SU	横谷 尚睦	
			2021A3845	BL23SU	横谷 尚睦	
			2021B1027	BL25SU	横谷 尚睦	
			2021B3845	BL23SU	横谷 尚睦	
2018B3844	BL23SU	横谷 尚睦				
43678	Kazuo Soda	91 (2022) 064713	2018B1061	BL47XU	曾田 一雄	Hard X-Ray Photoemission Study on Bulk Electronic Structure of Heusler-Type Fe _{2-x} V _{1+x} Al Alloys
43720	Tomoyuki Yamaguchi	91 (2022) 074704	2018B1021	BL09XU	溝川 貴司	Electronic Structure of Spinel-Type MgTi ₂ O ₄ : Valence Change at Surface and Effect of Fe Substitution for Mg
			2018B1049	BL47XU	大川 万里生	

Physical Review Materials

43377	Takahide Kubota	6 (2022) 044405	2019B3844	BL23SU	伊藤 啓太	Magnetoelastic Anisotropy in Heusler-type Mn _{2.5} CoGa _{1+x} Films
			2018B3842	BL23SU	木村 昭夫	
43461	Akitoshi Nakano	6 (2022) 044412	2019B1332	BL02B1	中埜 彰俊	Phase Variation of Ferroelectric Li ₂ Sr _{1-x} Ca _x (Nb _{1-x} Ta _x) ₂ O ₇ by Selective Reinforcement in the (Nb,Ta)-O Covalent Bonds
			2020A1431	BL02B1	中埜 彰俊	
			2020A1246	BL02B2	谷口 博基	
43562	Kazuki Sumida	6 (2022) 014006	2020A3811	BL23SU	藤森 伸一	Short-range Magnetic Interaction in a Monolayer 1T-VSe ₂ Film Revealed by Element-specific X-ray Magnetic Circular Dichroism
43600	Takashi Koida	6 (2022) 055401	2020A1876	BL46XU	野本 淳一	Effective Mass of High-mobility In ₂ O ₃ -based Transparent Conductive Oxides Fabricated by Solid-phase Crystallization
43672	Yuki Wakabayashi	5 (2021) 124403	2020A3841	BL23SU	小林 正起	Single-domain Perpendicular Magnetization Induced by the Coherent O 2p-Ru 4d/Hybridized State in an Ultra-High-Quality SrRuO ₃ Film
43818	Varun K. Kushwaha	6 (2022) 064411	2018A1231	BL13XU	Kumara L. S.	Prediction of Half-metallic Gap Formation and Fermi Level Position in Co-based Heusler Alloy Epitaxial Thin Films through Anisotropic Magnetoresistance Effect
			2018B1162	BL13XU	Kumara L. S.	
			2019B1138	BL13XU	Kumara L. S.	

Inorganic Chemistry

43410	Marie Simonnet	60 (2021) 13409-13418	2020A3711	BL22XU	小林 徹	Study on Phenanthroline Carboxamide for Lanthanide Separation: Influence of Amide Substituents
43421	Masafumi Nomi	61 (2022) 5255-5261	2019A1106	BL02B2	近藤 篤	Interlayer Modification of a Layered Silicate RUB-18 with 4-Phosphonophenylsilane and Its Surface Acidic Functions
			2017B1056	BL02B2	前田 和之	
43689	Shin Tajima	60 (2021) 17019-17032	2019A7030	BL33XU	田島 伸	Synthesis and Ion-Transport Properties of EuKGe ₂ O ₆ , Ca ₃ Fe ₂ Ge ₃ O ₁₂ , and BaCu ₂ Ge ₂ O ₇ -Type Oxide-Ion Conductors
			2019B7030	BL33XU	田島 伸	
			2020A7030	BL33XU	田島 伸	
43698	Svetlana M. Posokhova	61 (2022) 7910-7921	2020A4501	BL15XU	Belik Alexei	K ₅ Eu _{1-x} Tb _x (MoO ₄) ₄ Phosphors for Solid-State Lighting Applications: Aperiodic Structures and the Tb ³⁺ → Eu ³⁺ Energy Transfer
43816	Teppei Nagase	61 (2022) 8987-8991	2020A1646	BL02B2	福田 真幸	SrV _{0.3} Fe _{0.7} O _{2.8} : A Vacancy-Ordered Fe-Based Perovskite Exhibiting Room-Temperature Magnetoresistance
			2021B1159	BL02B2	山本 隆文	

Nature Communications

43503	Yoshio Kono	13 (2022) 2292	2019B1111	BL37XU	河野 義生	Experimental Evidence of Tetrahedral Symmetry Breaking in SiO ₂ Glass under Pressure
			2020A0600	BL37XU	河野 義生	
43596	Yalin Guo	13 (2022) 2648	2019B3415	BL08B2	崔 藝涛	Photo-thermo Semi-hydrogenation of Acetylene on Pd ₁ /TiO ₂ Single-atom Catalyst
			2020A3415	BL08B2	崔 藝涛	
43628	Kai Xu	13 (2022) 2443	2021A1387	BL01B1	Wang Feng	Catalytically Efficient Ni-NiO _x -Y ₂ O ₃ Interface for Medium Temperature Water-gas Shift Reaction
43648	Agata Butryn	12 (2021) 4461	2019A8088	BL2	Orville Allen	An On-demand, Drop-on-drop Method for Studying Enzyme Catalysis by Serial Crystallography
43807	Shunpei Yokoo	13 (2022) 644	2017A0072	BL10XU	廣瀬 敬	Stratification in Planetary Cores by Liquid Immiscibility in Fe-S-H

Science Advances

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
43316	Noriyoshi Tsujino	8 (2022) eabm1821	2015A1600	BL04B1	辻野 典秀	Viscosity of Bridgmanite Determined by in situ Stress and Strain Measurements in Uniaxial Deformation Experiments
			2015B1504	BL04B1	辻野 典秀	
			2017A1525	BL04B1	辻野 典秀	
			2017B1329	BL04B1	辻野 典秀	
			2018A1457	BL04B1	辻野 典秀	
2018B1258	BL04B1	辻野 典秀				
43627	Shohei Matsuda	8 (2022) eabn1991	2017A3504	BL11XU	塩飽 秀啓	Marking Actinides for Separation: Resonance-enhanced Multiphoton Charge Transfer in Actinide Complexes
			2021A3711	BL22XU	小林 徹	
43663	Pedram Mehrabi	7 (2021) eabf1380	2016A8036	BL3	Miller Dwayne	Serial Femtosecond and Serial Synchrotron Crystallography can Yield Data of Equivalent Quality: A Systematic Comparison
			2016B8052	BL3	Miller Dwayne	
43682	Patrick Rabe	7 (2021) eabh0250	2017B8085	BL2	Kern Jan	X-ray Free-Electron Laser Studies Reveal Correlated Motion during Isopenicillin N Synthase Catalysis
43756	Caner Akil	8 (2022) eabm2225	2020A2604	BL41XU	Robinson Robert	Structure and Dynamics of Oudinarchaeota Tubulin and the Implications for Eukaryotic Microtubule Evolution

Angewandte Chemie International Edition

43594	Takumi Nakanishi	59 (2020) 14781-14787	2019B1272	BL02B1	佐藤 治	Three-Step Spin State Transition and Hysteretic Proton Transfer in the Crystal of an Iron(II) Hydrazone Complex
			2018B1259	BL02B1	佐藤 治	
			2018A1213	BL02B1	佐藤 治	
			2017B1285	BL02B1	佐藤 治	
			2017A1364	BL02B1	佐藤 治	
43606	Wei-Hong Lai	59 (2020) 22171-22178	2018A3634	BL14B1	吉川 浩史	General Synthesis of Single-Atom Catalysts for Hydrogen Evolution Reactions and Room-Temperature Na-S Batteries
			2018B3634	BL14B1	吉川 浩史	
43718	Masaki Donoshita	60 (2021) 22839-22848	2017A1468	BL02B1	林 幹大	Various Stacking Patterns of Two-Dimensional Molecular Assemblies in Hydrogen-Bonded Cocrystals: Insight into Competitive Intermolecular Interactions and Control of Stacking Patterns
			2017A1476	BL43IR	林 幹大	
			2017B1379	BL43IR	林 幹大	
			2019A1180	BL02B1	北川 宏	
			2019B1380	BL02B1	北川 宏	
			2020A1199	BL02B1	北川 宏	
2020A1206	BL02B2	大坪 主弥				
43729	Kang Xia	(2022) Online published 29 May 2022	2021A1620	BL14B2	山口 和也	Supported Anionic Gold Nanoparticle Catalysts Modified Using Highly Negatively Charged Multivacant Polyoxometalates

Applied Physics Letters

43368	Yi-Jan Lin	119 (2021) 192102	2019A4130	BL12B2	Tseng Yuan-Chieh	Impacts of Surface Nitridation on Crystalline Ferroelectric Phase of Hf _{1-x} Zr _x O ₂ and Ferroelectric FET Performance
43420	Jiaqi Shen	120 (2022) 092404	2014A0079	BL25SU	白土 優	Low Pressure Drive of the Domain Wall in Pt/Co/Au/Cr ₂ O ₃ /Pt Thin Films by the Magnetoelectric Effect
			2018A1353	BL25SU	白土 優	
			2018B1338	BL39XU	白土 優	
			2018B1384	BL25SU	白土 優	
			2019A1200	BL25SU	白土 優	
			2019B1196	BL25SU	白土 優	
			2020A1172	BL25SU	白土 優	
			2021A1228	BL25SU	白土 優	
2021B1206	BL25SU	白土 優				
43659	Aierxiding Abulikemu	120 (2022) 182404	2021A1316	BL02B2	松永 利之	Partial Cation Disorder in Li ₂ MnO ₃ Obtained by High-pressure Synthesis
			2020A1570	BL02B2	松永 利之	
43696	Akihiko Ikeda	120 (2022) 142403	2021A8063	BL3	池田 暁彦	Generating 77 T using a Portable Pulse Magnet for Single-shot Quantum Beam Experiments

Chemical Communications

43386	Kazuyuki Iwase	58 (2022) 4865-4868	2021B1204	BL01B1	神谷 和秀	Activity Switching of Sn and In Species in Heusler Alloys for Electrochemical CO ₂ Reduction
43597	Yuto Murata	58 (2022) 6421-6424	2021A1681	BL46XU	Seo Okkyun	Compositional Dependence of Structures and Hydrogen Evolution Reaction Activity of Platinum-group-metal Quinary RuRhPdIrPt Alloy Nanoparticles
			2021B1740	BL46XU	Seo Okkyun	
			2021B1750	BL46XU	安野 聡	
43842	Fumi Suehiro	58 (2022) 7026-7029	2021B1089	BL40B2	西村 智貴	Bioorthogonal Micellar Nanoreactors for Prodrug Cancer Therapy using an Inverse-electron-demand Diels-Alder Reaction
43848	Takahiro Ikeda	58 (2022) 8125-8128	2017A7034	BL33XU	野中 敬正	Ni-modified β-FeOOH Nanorod Cocatalysts for Oxygen Evolution Utilising Photoexcited Holes on a N 2p Level in a N-doped TiO ₂ Electrode
			2019A7034	BL33XU	野中 敬正	
			2020A7034	BL33XU	野中 敬正	

Geophysical Research 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
43750	Longli Guan	49 (2022) e2022GL098549	2018B1080	BL04B1	山崎 大輔	Seismic Anisotropy in the Lower Mantle Transition Zone Induced by Lattice Preferred Orientation of Akimotoite
			2019B1088	BL04B1	山崎 大輔	
43806	Shoh Tagawa	49 (2022) e2021GL096260	2017A0072	BL10XU	廣瀬 敬	High-Temperature Equation of State of FeH: Implications for Hydrogen in Earth's Inner Core
43808	Yasuhiro Kuwayama	49 (2022) e2021GL096219	2017A0072	BL10XU	廣瀬 敬	Post-Perovskite Phase Transition in the Pyrolytic Lowermost Mantle: Implications for Ubiquitous Occurrence of Post-Perovskite Above CMB
43809	Masahiro Hasegawa	48 (2021) e2021GL092681	2017A0072	BL10XU	廣瀬 敬	Liquidus Phase Relations and Solid-Liquid Partitioning in the Fe-Si-C System Under Core Pressures

Journal of the American Chemical Society

43345	Fumiko Nakagawa	144 (2022) 5871-5877	2019B1672	BL40B2	猿山 雅亮	<i>In Situ</i> Control of Crystallinity of 3D Colloidal Crystals by Tuning the Growth Kinetics of Nanoparticle Building Blocks
			2020A1577	BL40B2	猿山 雅亮	
			2020A1596	BL02B2	佐藤 良太	
			2021A1076	BL40B2	猿山 雅亮	
43534	Yasuhiro Yamauchi	144 (2022) 8818-8826	2021B1717	BL14B2	植竹 裕太	Room-Temperature Reversible Chemisorption of Carbon Monoxide on Nickel(0) Complexes
			2021A1630	BL14B2	植竹 裕太	
43722	Susumu Oda	144 (2022) 106-112	2017A1132	BL40XU	畠山 琢次	One-Shot Synthesis of Expanded Heterohelicene Exhibiting Narrowband Thermally Activated Delayed Fluorescence
			2017B1073	BL40XU	畠山 琢次	
			2018A1114	BL40XU	畠山 琢次	
			2018B1125	BL40XU	畠山 琢次	
			2019A1142	BL40XU	畠山 琢次	
43780	Kenichiro Omoto	142 (2020) 12651-12657	2019A0068	BL02B2	森吉 千佳子	Thermosaliency in Macrocyclic-Based Soft Crystals via Anisotropic Deformation of Disilanyl Architecture
			2015A0074	BL02B2	森吉 千佳子	

Langmuir

43423	Surachada Chuaychob	38 (2022) 4870-4878	2019A1291	BL40B2	藤田 雅弘	G-Quadruplex-Functionalized Gold Nanoparticles for a Real-Time Biomolecule Sensor with On-Demand Tunable Properties
			2019B1280	BL40B2	藤田 雅弘	
			2020A1297	BL40B2	藤田 雅弘	
43546	Masashi Mizukami	38 (2022) 5248-5256	2018B1485	BL40B2	栗原 和枝	Structures of Nanoconfined Liquids Determined by Synchrotron X-ray Diffraction
			2019A1452	BL40B2	栗原 和枝	
			2019B1198	BL40B2	栗原 和枝	
			2020A1575	BL40B2	栗原 和枝	
			2018A1470	BL40B2	栗原 和枝	
			2018A2069	BL40B2	太田 昇	
			2019B2089	BL40B2	太田 昇	
43588	Yusuke Sakamoto	38 (2022) 5883-5890	2020A1070	BL40B2	西村 智貴	Supramolecular Shear-Thinning Glycopeptide Hydrogels for Injectable Enzyme Prodrug Therapy Applications
			2021B1089	BL40B2	西村 智貴	
			2021A1065	BL40B2	西村 智貴	
43602	Taishi Kobayashi	35 (2019) 7995-8006	2016B3609	BL14B1	松村 大樹	Structural Approach to Understanding the Solubility of Metal Hydroxides
			2017A3609	BL14B1	松村 大樹	

Acta Materialia

43319	Magnus Nygård	205 (2021) 116496	2019A3783	BL22XU	榊 浩司	The Average and Local Structure of TiVCrNbD _x (x = 0, 2.2, 8) from Total Scattering and Neutron Spectroscopy
43551	Zixi Chen	232 (2022) 117958	2018A1007	BL25SU	宝野 和博	Microstructure and Atomic Order Analyses in CoFeCrAl Heusler Alloy Thin Films: Interpretation of Spin Gapless Semiconductor-like Transport Properties
			2017B0921	BL13XU	壬生 攻	
			2019A1492	BL25SU	桜庭 裕弥	
			2019B1657	BL13XU	桜庭 裕弥	
43736	Hiroo Tajiri	235 (2022) 118063	2017B1313	BL13XU	田尻 寛男	Structural Insight using Anomalous XRD into Mn ₂ CoAl Heusler Alloy Films Grown by Magnetron Sputtering, IBAS, and MBE Techniques
			2018A1231	BL13XU	Kumara L. S.	
			2017B0921	BL13XU	壬生 攻	
			2018B1162	BL13XU	Kumara L. S.	
			2018B1538	BL02B2	森 茂生	
			2018B2092	BL13XU	田尻 寛男	

Chemical Science-1

43361	Chao Wang	11 (2020) 4702-4708	2019A1765	BL46XU	尾坂 格	Surface-induced Enantiomorphic Crystallization of Achiral Fullerene Derivatives in Thin Films
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Chemical 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
43589	Tomoki Nishimura	13 (2022) 5243-5251	2020A0524	BL40B2	西村 智貴	Single-component Nanodiscs <i>via</i> the Thermal Folding of Amphiphilic Graft Copolymers with the Adjusted Flexibility of the Main Chain
			2020A1070	BL40B2	西村 智貴	
			2021A1065	BL40B2	西村 智貴	
43660	Hanui Kim	12 (2021) 2114-2120	2015B8055	BL3	足立 伸一	Ultrafast Structural Dynamics of in-cage Isomerization of Diiodomethane in Solution

Crystals

43614	Hiroshi Sakurai	12 (2022) 690	2017B0921	BL08W	壬生 攻	Symmetry of Wavefunction at the Interface of Fe/MgO Magnetic Tunneling Junction
			2015B0901	BL08W	千葉 大地	
43749	Kenichiro Hashimoto	12 (2022) 831	2016A0073	BL43IR	佐々木 孝彦	Optical Conductivity Spectra of Charge-Crystal and Charge-Glass States in a Series of θ -Type BEDT-TTF Compounds
			2020A0639	BL43IR	佐々木 孝彦	
			2020A1065	BL43IR	佐々木 孝彦	
43752	Kosuke Suzuki	12 (2022) 824	2019A1720	BL08W	花輪 洋宇	Non-Destructive Analysis of a High-Power Capacitor Using High-Energy X-ray Compton Scattering
			2019B1815	BL08W	花輪 洋宇	
			2021A1369	BL08W	鈴木 宏輔	
			2021B1505	BL08W	鈴木 宏輔	

Hyperfine Interaction

43326	Ryo Masuda	243 (2022) 17	2021A2087	BL35XU	依田 芳卓	¹⁶¹ Dy Synchrotron-radiation-based Mössbauer Absorption Spectroscopy
			2019B3581	BL11XU	瀬戸 誠	
			2020A3581	BL11XU	瀬戸 誠	
			2021A3581	BL11XU	瀬戸 誠	
43329	Takaya Mitsui	242 (2021) 37	2017A3551	BL11XU	三井 隆也	Direct Observation of Magnetic Friedel Oscillation at Fe(001) Surface
			2017B3551	BL11XU	三井 隆也	
			2018A3552	BL11XU	三井 隆也	
			2018B3551	BL11XU	境 誠司	
			2018B3552	BL11XU	三井 隆也	
43331	Jun Okabayashi	242 (2021) 59	2019A3551	BL11XU	境 誠司	Mössbauer Spectroscopy with Polarized Synchrotron Beams at Fe/Au (111) Interface
			2019B3551	BL11XU	境 誠司	
			2020A3551	BL11XU	境 誠司	

JACS Au

43297	Katsumasa Sakoda	2 (2022) 665-672	2018A1784	BL14B2	水垣 共雄	Selective Hydrodeoxygenation of Esters to Unsymmetrical Ethers over a Zirconium Oxide-Supported Pt-Mo Catalyst
			2018B1792	BL14B2	水垣 共雄	
			2019B1858	BL14B2	水垣 共雄	
			2020A1487	BL01B1	満留 敬人	
			2021A1647	BL14B2	水垣 共雄	
43298	Hiroya Ishikawa	2 (2022) 419-427	2020A1640	BL14B2	水垣 共雄	Phosphorus-Alloying as a Powerful Method for Designing Highly Active and Durable Metal Nanoparticle Catalysts for the Deoxygenation of Sulfoxides: Ligand and Ensemble Effects of Phosphorus
			2020A1487	BL01B1	満留 敬人	
43568	Katsutoshi Sato	2 (2022) 1627-1637	2014B1824	BL01B1	永岡 勝俊	Operando Spectroscopic Study of the Dynamics of Ru Catalyst during Preferential Oxidation of CO and the Prevention of Ammonia Poisoning by Pt
			2013B1771	BL01B1	永岡 勝俊	
			2019A1379	BL01B1	佐藤 勝俊	

Japanese Journal of Applied Physics

43290	Noritake Isomura	61 (2022) 048001	2021A5371	BL16B2	小坂 悟	Distinguishing Sb-containing Sites in SnO ₂ using Spectrum Simulation of X-ray Absorption Spectroscopy
43393	Akitaka Yoshigoe	59 (2020) SMMB05	2013B3802	BL23SU	吉越 章隆	Synchrotron Radiation Photoelectron Spectroscopy Study on Oxides Formed at Ge(100)2×1 Surface in Atmosphere
			2015A3802	BL23SU	吉越 章隆	
			2015B3801	BL23SU	吉越 章隆	
			2018A3801	BL23SU	吉越 章隆	
			2018B3801	BL23SU	吉越 章隆	
			2019A3801	BL23SU	吉越 章隆	
43740	Takuya Shibata	61 (2022) 065502	2020A5130	BL16XU	今澤 貴史	Effects of Carbon Impurity in ALD-Al ₂ O ₃ Film on HAXPES Spectrum and Electrical Properties of Al ₂ O ₃ /AlGaN/GaN MIS Structure
			2021B5131	BL16XU	南條 拓真	
			2021B5132	BL16XU	山田 高寛	

Journal of Materials Chemistry A

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
43360	Wei-Chih Wang	8 (2020) 6268-6275	2019A1765	BL46XU	尾坂 格	Face-on Reorientation of π -conjugated Polymers in Thin Films by Surface-segregated Monolayers
43448	Donglin Han	10 (2022) 8887-8897	2019A1795	BL14B2	韓 東麟	Selecting the Best Dopant Sites in Proton-Conducting Pyrochlore Oxides ($\text{La}_2(\text{Nb}_{1-x}\text{Y}_x)_2\text{O}_{7-\delta}$) by Probing Hydration-induced Local Distortion
43781	Haruki Kusaka	9 (2021) 24631-24640	2019A0068	BL02B2	森吉 千佳子	Crystalline Boron Monosulfide Nanosheets with Tunable Bandgaps

The Journal of Physical Chemistry C

43460	Gian Marco Pierantozzi	125 (2021) 14430-14437	2019A1560	BL19LXU	Panaccione Giancarlo	Evidence of Robust Half-Metallicity in Strained Manganite Films
43604	Hiroyuki Itoi	124 (2020) 15205-15215	2017B3609	BL14B1	松村 大樹	Unusual Redox Behavior of Ruthenocene Confined in the Micropores of Activated Carbon
43624	Kenta Furutani	126 (2022) 7999-8015	2014B1814	BL04B2	大窪 貴洋	Elucidating the Atomic Structures of the Gel Layer Formed during Aluminoborosilicate Glass Dissolution: An Integrated Experimental and Simulation Study

Journal of Physics: Condensed Matter

43405	Hitoshi Yamaoka	34 (2022) 255501	2017A4254	BL12XU	水木 純一郎	Pressure-induced Transitions in RCO_5 ($R = \text{Y}, \text{La}$) Studied by X-ray Emission Spectroscopy, X-ray Diffraction and Density Functional Theory
			2017B4260	BL12XU	水木 純一郎	
			2018A4141	BL12B2	辻井 直人	
43419	Yasuhiro Yoneda	33 (2021) 035401	2019A1217	BL04B2	米田 安宏	Nanoscale Structural Analysis of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$
			2019A3607	BL14B1	米田 安宏	
			2019B1194	BL04B2	米田 安宏	
43665	Katarina Pussi	34 (2022) 285301	2021B1305	BL04B2	Kamali-Moghaddam Saeed	Atomic Structure of an FeCrMoCBy Metallic Glass Revealed by High Energy X-ray Diffraction

Journal of Solid State Chemistry

43667	Fumito Fujishiro	312 (2022) 123254	2019B1146	BL01B1	大石 昌嗣	Oxygen Desorption Properties of Perovskite-type $\text{SrFe}_{1-x}\text{Co}_x\text{O}_{3-\delta}$: B-site Mixing Effect on the Reduction Properties of Fe and Co Ions
			2018B1446	BL01B1	大石 昌嗣	
			2018A1174	BL01B1	大石 昌嗣	
			2017B1437	BL01B1	大石 昌嗣	
43701	Alexei A. Belik	309 (2022) 122969	2020A4501	BL15XU	Belik Alexei	Multiple Magnetic Transitions and Complex Magnetic Behaviour of the Perovskite Manganite $\text{NdMn}_7\text{O}_{12}$
43735	Hiroki Ishibashi	312 (2022) 123273	2018B1538	BL02B2	森 茂生	Phase Diagram and Crystal Structure of Ti-doped HoMnO_3 by High-resolution Synchrotron Powder Diffraction
			2021B1642	BL02B2	石橋 広記	
			2019B1504	BL01B1	久保田 佳基	
			2019A0068	BL02B2	森吉 千佳子	
			2015A0074	BL02B2	森吉 千佳子	

Journal of Synchrotron Radiation

43391	Takahiko Masuda	28 (2021) 111-119	2019B1619	BL19LXU	吉村 浩司	Absolute X-ray Energy Measurement using a High-accuracy Angle Encoder
			2020A1284	BL19LXU	吉村 浩司	
			2014A1334	BL09XU	吉村 浩司	
			2014B1524	BL09XU	吉村 浩司	
			2015B1380	BL09XU	吉村 浩司	
			2016A1420	BL09XU	吉村 浩司	
			2016B1232	BL09XU	吉村 浩司	
			2017B1335	BL09XU	吉村 浩司	
			2018A1326	BL19LXU	吉村 浩司	
			2018B1436	BL19LXU	吉村 浩司	
43542	Nelson Hua	27 (2020) 1626-1632	2018B8080	BL3	Shpyrko Oleg	Extracting Contrast in an X-ray Speckle Visibility Spectroscopy Experiment under Imperfect Conditions
43727	Hiroki Yamada	29 (2022) 549-554	2018B2095	BL04B2	尾原 幸治	Fully Automated Measurement System for Temperature-dependent X-ray Total Scattering at Beamline BL04B2 at SPring-8
			2019A2058	BL04B2	尾原 幸治	
			2019B2091	BL04B2	尾原 幸治	
			2021A1455	BL04B2	山田 大貴	
			2021B1612	BL04B2	山田 大貴	

Protein 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
43374	Le Zhai	31 (2022) e4285	2018A6830	BL44XU	中島 良介	Structure-based Analysis and Evolution of a Monomerized Red-colored Chromoprotein from the <i>Olinidias formosa</i> Jellyfish
			2018B6830	BL44XU	中島 良介	
			2019A6928	BL44XU	中島 良介	
43645	Kosuke Oda	31 (2022) e4338	2021A6607	BL44XU	小田 康祐	Catalytic Mechanism of DcsB: Arginase Framework used for Hydrolyzing its Inhibitor
			2020A6508	BL44XU	小田 康祐	
			2018B6868	BL44XU	小田 康祐	
2018B2720	BL26B1	小田 康祐				
43693	Yoshiki Inoue	31 (2022) e4331	2020A2608	BL45XU	潘 東青	Structure-based Alteration of Tryptophan Residues of the Multidrug Transporter CmABC1 to Assess Substrate Binding using Fluorescence Spectroscopy

Scripta Materialia

43444	Tomoya Nagira	216 (2022) 114743	2021B1152	BL20XU	柳樂 知也	Direct Observation of Solidification Behaviors of Fe-Mn-Si Alloys during TIG Spot Welding using Synchrotron X-ray
			2021A1121	BL20XU	柳樂 知也	
			2020A1150	BL20XU	柳樂 知也	
			2019B1439	BL20XU	柳樂 知也	
43523	Tomohiko Hojo	210 (2022) 114463	2018B3681	BL14B1	北條 智彦	Comparative Study of Stress and Strain Partitioning Behaviors in Medium Manganese and Transformation-induced Plasticity-aided Bainitic Ferrite Steels
			2020A3681	BL14B1	北條 智彦	
43843	Binbin Yue	219 (2022) 114879	2019B1287	BL10XU	Yue Binbin	Deformation Behavior of High-entropy Oxide (Mg,Co,Ni,Cu,Zn)O under Extreme Compression

ACS Catalysis

43296	Jingyan Guan	12 (2022) 3881-3889	2021A1489	BL01B1	鈴木 肇	Two-Dimensional Metal–Organic Framework Acts as a Hydrogen Evolution Cocatalyst for Overall Photocatalytic Water Splitting
43684	Shingo Hasegawa	12 (2022) 6550-6558	2021A1200	BL01B1	増田 晋也	Polymer-Stabilized Au ₃₈ Cluster: Atomically Precise Synthesis by Digestive Ripening and Characterization of the Atomic Structure and Oxidation Catalysis
			2021B1415	BL01B1	増田 晋也	

ACS Omega

43619	Kouichi Nakashima	6 (2021) 9410-9425	2020A3744	BL22XU	中島 光一	Stabilization of Size-Controlled BaTiO ₃ Nanocubes via Precise Solvothermal Crystal Growth and Their Anomalous Surface Compositional Reconstruction
43641	Kouichi Nakashima	6 (2021) 32517-32527	2019B3701	BL22XU	米田 安宏	Optimizing TiO ₂ through Water-Soluble Ti Complexes as Raw Material for Controlling Particle Size and Distribution of Synthesized BaTiO ₃ Nanocubes
			2020A3744	BL22XU	中島 光一	

Acta Crystallographica Section F

43571	Sho Ito	78 (2022) 193-199	2019B6935	BL44XU	西野 達哉	Biochemical and Crystallization Analysis of the CENP-SX–DNA Complex
			2017A6737	BL44XU	西野 達哉	
			2020A6535	BL44XU	西野 達哉	
43692	Hideo Okumura	78 (2022) 241-251	2017A2562	BL26B1	馬場 清喜	<i>In situ</i> Crystal Data-collection and Ligand-screening System at SPring-8
			2018A2537	BL26B1	馬場 清喜	
			2018B2719	BL26B1	奥村 英夫	
			2019B2722	BL26B1	奥村 英夫	
			2021A2749	BL26B1	奥村 英夫	

Bulletin of the Chemical Society of Japan

43435	Keishiro Tahara	95 (2022) 400-409	2019B1193	BL02B1	田原 圭志朗	Synthesis of an Organometallic Alkyl-Co(III) Complex with Amidoquinoline Directing Groups via C(sp ³)-H Activation and Its UV–vis/NMR Spectroscopic, Crystallographic, DFT, and Electrochemical Studies
			2020A1278	BL02B1	阿部 正明	
43755	Ryo Sasai	95 (2022) 802-812	2010A1287	BL02B2	笹井 亮	Origin of Selective Nitrate Removal by Ni ²⁺ –Al ³⁺ Layered Double Hydroxides in Aqueous Media and Its Application Potential in Seawater Purification
			2010B1279	BL02B2	笹井 亮	
			2011B1703	BL02B2	笹井 亮	
			2012B1770	BL02B2	笹井 亮	
			2013B1677	BL02B2	新井 栄作	
			2014A1684	BL02B2	帆足 宏一	
			2015A0074	BL02B2	森吉 千佳子	
			2017A1483	BL02B2	藤村 卓也	
			2017B1196	BL02B2	藤村 卓也	
			2018A1004	BL02B2	笹井 亮	
2019A0068	BL02B2	森吉 千佳子				

Catalysts

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
43638	Wakao Fukuda	12 (2022) 567	2018B6850	BL44XU	溝端 栄一	Substrate Specificity of an Aminopropyltransferase and the Biosynthesis Pathway of Polyamines in the Hyperthermophilic Crenarchaeon <i>Pyrobaculum caldifontis</i>
			2019B6950	BL44XU	溝端 栄一	
43764	Kotohiro Nomura	12 (2022) 198	2016B1509	BL01B1	野村 琴広	Solution XAS Analysis for Reactions of Phenoxide-Modified (Arylimido)vanadium(V) Dichloride and (Oxo)vanadium(V) Complexes with Al Alkyls: Effect of Al Cocatalyst in Ethylene (Co)polymerization
			2017A1512	BL01B1	野村 琴広	
			2018A1245	BL01B1	野村 琴広	
			2018B1335	BL01B1	野村 琴広	
			2019A1233	BL01B1	野村 琴広	
2020A1473	BL01B1	野村 琴広				

Chemistry Letters

43505	Ryosuke Matsuno	51 (2022) 650-653	2021A7499	BL07LSU	高原 淳	Electronic Structure of Carbon Dioxide in Sylgard-184 Evaluated by using X-ray Emission Spectroscopy
43620	Daiki Kido	51 (2022) 538-541	2018B7901	BL36XU	竹口 竜弥	Constrained Thorough Search Analysis of Multi-edge EXAFS Spectra for Characterization of Bimetallic Nanoparticles
			2019A7901	BL36XU	竹口 竜弥	
			2019A7904	BL36XU	朝倉 清高	

Chemistry of Materials

43352	Lei Hu	33 (2021) 7665-7674	2019B1896	BL19B2	東 正樹	Origin and Absence of Giant Negative Thermal Expansion in Reduced and Oxidized Ca ₂ RuO ₄
			2019B3751	BL22XU	町田 晃彦	
			2020A3783	BL22XU	Hu Lei	
			2020A2061	BL14B2	Hu Lei	
			2020A2132	BL02B2	河口 彰吾	
2021A1074	BL02B2	Hu Lei				
43366	Ruijie Qi	34 (2022) 1946-1955	2021B1722	BL19B2	藪内 直明	Highly Graphitic Carbon Coating on Li _{1.25} Nb _{0.25} V _{0.5} O ₂ Derived from a Precursor with a Perylene Core for High-Power Battery Applications

Colloids and Surfaces A: Physicochemical and Engineering Aspects

43640	Daisuke Kawamoto	642 (2022) 128708	2019B1840	BL14B2	石田 玉青	Reduction Mechanism of Au(III) Species Adsorbed on δ-MnO ₂
43765	Shiho Yada	648 (2022) 129247	2018A1688	BL40B2	矢田 詩歩	Adsorption and Aggregation Properties of Homogeneous Polyoxyethylene Alkyl Ether- and Ester-type Nonionic Surfactants with Multi-branched Double Chains

Dalton Transactions

43379	Raimundas Sereika	50 (2021) 3005-3010	2019B4128	BL12B2	Ding Yang	Quenchable Amorphous Glass-like Material from VF ₃
			2019A4132	BL12B2	Ding Yang	
			2019A4131	BL12B2	久保園 芳博	
			2018A4140	BL12B2	Hwang Bing Joe	
43779	Ryosuke Sei	49 (2020) 3321-3325	2019A0068	BL02B2	森吉 千佳子	Tetragonality Induced Superconductivity in Anti-ThCr ₂ Si ₂ -type RE ₂ O ₂ Bi (RE = Rare Earth) with Bi Square Nets
			2015A0074	BL02B2	森吉 千佳子	

Electrochemistry

43365	Ruijie Qi	90 (2022) 037005	2021B1722	BL19B2	藪内 直明	Metastable and Nanosized Li _{1.2} Nb _{0.2} V _{0.6} O ₂ for High-Energy Li-ion Batteries
43403	Yasushi Idemoto	90 (2022) 027002	2020A1729	BL14B2	井手本 康	Electrochemical Properties and Crystal and Electronic Structures of Spinel αMgCo _{2-x} Mn _x O ₄ -(1 - α)Mg(Mg _{0.33} V _{1.67} Ni _y)O ₄ for Magnesium Secondary Batteries
			2018B1596	BL14B2	井手本 康	
			2018B1777	BL19B2	井手本 康	
			2019A1626	BL14B2	井手本 康	
			2019A1760	BL19B2	井手本 康	
			2019B1714	BL14B2	井手本 康	
			2019B1882	BL19B2	井手本 康	
2020A1728	BL19B2	井手本 康				

Food 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
43731	Tetsuya Masuda	389 (2022) 132996	2014B2020	BL26B2	榎田 哲哉	Structure of Thaumatin under Acidic Conditions: Structural insight into the Conformations in Lysine Residues Responsible for Maintaining the Sweetness after Heat-Treatment
			2014A1063	BL38B1	榎田 哲哉	
			2014B1181	BL26B1	榎田 哲哉	
			2015A1037	BL26B1	榎田 哲哉	
			2016A2548	BL26B1	榎田 哲哉	
			2017A2511	BL26B1	榎田 哲哉	
			2017B2526	BL38B1	榎田 哲哉	
			2018A2526	BL38B1	榎田 哲哉	
			2018A2546	BL26B1	榎田 哲哉	
			2019A2529	BL26B1	榎田 哲哉	
2019A2532	BL26B1	榎田 哲哉				
2020A2537	BL26B1	榎田 哲哉				
43738	Hideaki Takagi	393 (2022) 133389	2021A1314	BL40B2	高木 秀彰	Temperature Dependence of the Casein Micelle Structure in the Range of 10–40 °C: An in-situ SAXS Study
			2021B1447	BL40B2	高木 秀彰	

Journal of Hazardous Materials

43741	Baasansuren Gankhurel	436 (2022) 129017	2020A3740	BL22XU	高橋 嘉夫	Arsenic and Uranium Contamination of Orog Lake in the Valley of Gobi Lakes, Mongolia: Field Evidence of Conservative Accumulation of U in an Alkaline, Closed-basin Lake during Evaporation
43743	Ayumi Minoda	432 (2022) 128576	2020A0174	BL01B1	高橋 嘉夫	Cell Population Behavior of the Unicellular Red Alga <i>Galdieria sulphuraria</i> during Precious Metal Biosorption
			2019B1498	BL37XU	高橋 嘉夫	

Journal of Physics and Chemistry of Solids

43601	S. Murase	162 (2022) 110468	2018A3609	BL14B1	松村 大樹	Valence Control of Charge and Orbital Frustrated System YbFe ₂ O ₄ with Electrochemical Li ⁺ Intercalation
			2018B3611	BL14B1	辻 卓也	
43813	Makoto Taniguchi	169 (2022) 110840	2019A6939	BL44XU	東浦 彰史	Synthesis of Superparamagnetic Co–Pt Nanoparticle in <i>Pyrococcus furiosus</i> Virus-like Particle Crystal
			2018A1353	BL25SU	白土 優	

Materials Chemistry and Physics

43339	Waner He	281 (2022) 125861	2021B1106	BL40B2	松本 英俊	[2+2] Cycloaddition-retroelectrocyclization Reactivity and Thin Film Transistor Performances of Carbazole-based Platinum Polyene Polymers
43382	Shin Inagaki	281 (2022) 125911	2021A1693	BL46XU	稲垣 伸	Synthesis of a novel A-b(B-co-C)-type Terpolymer with a Regioregular Poly(3-hexylthiophene) Segment and its Application to Intrinsically Stretchable Transistor Memory

Nanomaterials

43699	Dmitry V. Karpinsky	12 (2022) 1565	2021A1334	BL02B2	Belik Alexei	Structural and Magnetic Phase Transitions in BiFe _{1-x} Mn _x O ₃ Solid Solution Driven by Temperature
43700	Cameliu Hincinschi	12 (2022) 1607	2021A1334	BL02B2	Belik Alexei	Unexpected Phonon Behaviour in BiFe _x Cr _{1-x} O ₃ , a Material System Different from Its BiFeO ₃ and BiCrO ₃ Parents

Nature

43644	Ilya Belopolski	604 (2022) 647-652	2017A1669	BL25SU	Belopolski Ilya	Observation of a Linked-loop Quantum State in a Topological Magnet
			2019A1696	BL25SU	Cochran Tyler	
			2018A1684	BL25SU	Belopolski Ilya	
43757	Tatsuya Hirasawa	606 (2022) 109-112	2019A1053	BL20B2	平沢 達矢	Morphology of <i>Palaeospondylus</i> Shows Affinity to Tetrapod Ancestors

Nature Chemistry

43456	Mickaele Bonneau	14 (2022) 816-822	2018B1820	BL02B1	北川 進	Tunable Acetylene Sorption by Flexible Catenated Metal–Organic Frameworks
			2019A1136	BL02B2	北川 進	
43695	Manuel Maestre-Reyna	14 (2022) 677-685	2017A8019	BL3	岩田 想	Serial Crystallography Captures Dynamic Control of Sequential Electron and Proton Transfer Events in a Flavoenzyme
			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				

Physical Chemistry Chemical 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
43543	Miguel Angel Gonzalez	24 (2022) 10727-10736	2014A1044	BL04B2	Saboungi Marie-Louise	Structure of Water-in-Salt and Water-in-Bisalt Electrolytes
43739	Namie Ikeda	24 (2022) 9626-9633	2021B1408	BL04B2	藤井 健太	Polyether-based Solid Electrolytes with a Homogeneous Polymer Network: Effect of the Salt Concentration on the Li-ion Coordination Structure

Physics and Chemistry of Minerals

43535	Sota Takagi	49 (2022) 8	2021A8060	BL3	瀬戸 雄介	Phase Transition and Melting in Zircon by Nanosecond Shock Loading
			2021A8501	BL3	一柳 光平	
			2021A8017	BL3	尾崎 典雅	
			2021A8022	BL3	奥地 拓生	
43536	Tatsuya Wakamatsu	49 (2022) 17	2017A0072	BL10XU	廣瀬 敬	Compressional Wave Velocity for Iron Hydrides to 100 Gigapascals via Picosecond Acoustics

Polymer

43422	Ren Tomisawa	245 (2022) 124708	2018A7214	BL03XU	中田 克	Fiber Structure Development of Poly(ethylene terephthalate-co-isophthalate) Copolymer
43515	Takumitsu Kida	250 (2022) 124869	2021B1335	BL40XU	木田 拓充	Evaluation of Microscopic Structural Changes during Strain Hardening of Polyethylene Solids using In situ Raman, SAXS, and WAXD Measurements under Step-cycle Test

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

43428	Lingping Kong	117 (2020) 16121-16126	2019A1455	BL43IR	Liu Gang	Highly Tunable Properties in Pressure-treated Two-dimensional Dion-Jacobson Perovskites
43773	Teruya Nakamura	119 (2022) e2203118119	2017A6761	BL44XU	山縣 ゆり子	Visualization of Mutagenic Nucleotide Processing by <i>Escherichia coli</i> MutT, a Nudix Hydrolase
			2015B6551	BL44XU	山縣 ゆり子	

軽金属 (Journal of Japan Institute of Light Metals)

43629	Naoki Takata	72 (2022) 178-184	2021A1663	BL19B2	足立 大樹	Effect of Heat Treatment on Solute Si Content in Al-12%Si Alloy Additive-manufactured by Laser Powder Bed Fusion
43630	Hiroki Adachi	72 (2022) 274-276	2019A1809	BL46XU	足立 大樹	Evaluation of Change in Dislocation Substructure during Tensile Deformation in 1200 Aluminum by using In-situ XRD Measurement
			2019B1030	BL46XU	辻 伸泰	

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

43455	Kenji Suzuki	71 (2022) 347-353	2018B3721	BL22XU	菖蒲 敬久	Stress Measurements of Quasi-Coarse Grained Material using Double Exposure Method with High-Energy Monochromatic X-Rays
			2019B3605	BL14B1	菖蒲 敬久	
			2019B3684	BL14B1	鈴木 賢治	
			2020A3721	BL22XU	菖蒲 敬久	
			2020A3684	BL14B1	鈴木 賢治	
43459	Ayumi Shiro	71 (2022) 354-360	2013B3723	BL22XU	城 鮎美	In Situ Observation of Recrystallization of Aluminum Single Crystals Using Synchrotron Radiation Monochromatic X-Rays
			2014A3722	BL22XU	城 鮎美	

ACS Applied Nano Materials

43545	Yugo Kubo	5 (2022) 6757-6769	2015B5030	BL16XU	上村 重明	High-Energy Electron-Irradiated Fluorinated Ethylene Polypropylene Copolymer Coatings on Al Substrates for Enhanced Metal Adhesion and Protection
			2015B1870	BL46XU	久保 優吾	
			2016A5031	BL16XU	久保 優吾	
			2016B5030	BL16XU	久保 優吾	
			2019A5030	BL16XU	斎藤 吉広	
			2019B5030	BL16XU	上村 重明	

ACS Chemical Neuroscience

43373	Yusuke Kageyama	12 (2021) 3418-3432	2021A2750	BL45XU	入江 一浩	Characterization of a Conformation-Restricted Amyloid β Peptide and Immunoreactivity of Its Antibody in Human AD Brain
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ACS Energy Letters

43637	Kimihiko Ito	7 (2022) 2024-2028	2018B3642	BL14B1	久保 佳実	Operando Br K-Edge Dispersive X-ray Absorption Fine Structure Analysis for Br ⁻ /Br ₃ ⁻ Redox Mediator for Li-Air Batteries
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ACS Nano

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
43573	Makoto Suzuki	16 (2022) 6111-6117	2021A1103	BL40XU	松下 裕秀	The Largest Quasicrystalline Tiling with Dodecagonal Symmetry from a Single Pentablock Quarterpolymer of the AB ₁ CB ₂ D Type

ACS Sustainable Chemistry & Engineering

43549	Jun Jeffri Basa Lidasan	10 (2022) 2921-2929	2020A1081	BL01B1	田中 庸裕	Pure Hydrogen Production by Aqueous Ethanol Electrolysis on Pt-Ru-O Anodes in a Solid Polymer Electrolyte Electrolysis Cell
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Advanced Composite Materials

43541	Shiryu Morita	(2022) Published online: 05 May 2022	2019B1838	BL46XU	上田 政人	Performance Assessment for Fiber Tracking of Unidirectional Carbon Fiber Reinforced Plastic by Digital Image Correlation of X-ray Computed-Tomography
			2018A1580	BL46XU	上田 政人	

Advanced Materials

43338	Ryojun Toyoda	34 (2022) 2106204	2019A1394	BL01B1	神谷 和秀	Heterometallic Benzenehexathiolato Coordination Nanosheets: Periodic Structure Improves Crystallinity and Electrical Conductivity
			理研	BL44B2		
			理研	BL05XU		

Advanced Optical Materials

43761	Ruilin Zheng	(2022) Online published 20 May 2022	2021B1413	BL08W	篠崎 健二	Self-Straining Nanocrystals Strategy: Temperature and Pressure Co-Induced Phase Transitions of CsPbBr ₃ in Amorphous Matrices
			2020A0701	BL08W	篠崎 健二	

American Mineralogist

43805	Kenta Oka	107 (2022) 1249-1253	2008B0099	BL10XU	廣瀬 敬	A Cotunnite-type New High-pressure Phase of Fe ₂ S
			2017A0072	BL10XU	廣瀬 敬	

Applied Catalysis B: Environmental

43730	Kenji Wachi	314 (2022) 121420	2021A1620	BL14B2	山口 和也	Selective Oxidation of Methane into Formaldehyde and Carbon Monoxide Catalyzed by Supported Thermally Stable Iron Oxide Subnanoclusters Prepared from a Diiron-introduced Polyoxometalate Precursor
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Applied Surface Science

43681	Fumihiko Ozaki	593 (2022) 153313	2020A7481	BL07LSU	吉信 淳	Functionalization of the MoS ₂ Basal Plane for Activation of Molecular Hydrogen by Pd Deposition
			2021A7426	BL07LSU	吉信 淳	

Biochimica et Biophysica Acta - Biomembranes

43635	Hiromitsu Nakazawa	1864 (2022) 183933	2019B1283	BL40B2	中沢 寛光	Low-flux Electron Diffraction Study on Body Site Dependence of Stratum Corneum Structures in Human Skin
			2020A1419	BL40B2	中沢 寛光	
			2021A1398	BL40B2	中沢 寛光	
			2020A7202	BL03XU	中沢 寛光	

Biophysical Reviews

43649	Marius Schmidt	13 (2021) 1191-1197	2016B8005	BL3	Schmidt Marius	Macromolecular Movies, Storybooks Written by Nature
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Bioscience, Biotechnology and Biochemistry

43452	Yusuke Nakamichi	86 (2022) 855-864	2019A6930	BL44XU	中道 優介	Crystal Structure of Glycoside Hydrolase Family 31 α -xylosidase from a Soil Metagenome
			2019B6930	BL44XU	中道 優介	

Carbohydrate Polymers

43467	Aika Kishimoto	290 (2022) 119491	2020A1132	BL40B2	寺尾 憲	Molecular Structure and Chiral Recognition Ability of Highly Branched Cyclic Dextrin Carbamate Derivative
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Catalysis Science & Technology

43552	Takeshi Nagata	12 (2022) 2749-2754	2021A1165	BL01B1	織田 晃	High Pt-Mass Activity of Pt ₁ /β-MnO ₂ Surface for Low-Temperature Oxidation of CO under O ₂ -Rich Conditions
			2021B1691	BL01B1	織田 晃	

Cell Reports Physical 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
43454	Xiao-Xin Gao	3 (2022) 100848	2019B1808	BL46XU	柴山 直之	Halide Exchange in the Passivation of Perovskite Solar Cells with Functionalized Ionic Liquids

ChemCatChem

43721	Soichi Kikkawa	14 (2022) e202101723	2017B1958	BL01B1	加藤 和男	Formation of CH ₄ at the Metal-Support Interface of Pt/Al ₂ O ₃ During Hydrogenation of CO ₂ : Operando XAS-DRIFTS Study
			2018A2070	BL01B1	加藤 和男	
			2018B2110	BL01B1	加藤 和男	
			2019A1447	BL01B1	寺村 謙太郎	
			2019A2066	BL01B1	加藤 和男	
			2019B1761	BL01B1	吉川 聡一	

Chemical Geology

43745	Jing Sun	604 (2022) 120943	2020A0174	BL37XU	高橋 嘉夫	New Insights into the Distribution and Speciation of Nickel in a Myanmar Laterite
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Chemistry - A European Journal

43753	Daisuke Saito	28 (2022) e202200703	2020A0532	BL02B1	西堀 英治	Reversible and Stepwise Single-Crystal-to-Single-Crystal Transformation of a Platinum(II) Complex with Vapochromic Luminescence
			2019A0159	BL02B1	西堀 英治	
			2021B1140	BL02B1	西堀 英治	

Chemistry - An Asian Journal

43299	Taisuke Matsuno	17 (2022) e202200076	2020A1190	BL26B1	松野 太輔	Activation of Positive Cooperativity by Size-Mismatch Assembly via Inclination of Guests in a Single-Site Receptor
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ChemPhysChem

43538	Takahisa Omata	23 (2022) e202100840	2019A2058	BL04B2	尾原 幸治	Anhydrous Silicophosphoric Acid Glass: Thermal Properties and Proton Conductivity
			2019B2091	BL04B2	尾原 幸治	

Chinese Journal of Physics

43306	An-Lun Chin	65 (2020) 24-32	2018B1044	BL29XU	Hwu Yeu Kuang	A Synchrotron X-ray Imaging Strategy to Map Large Animal Brains
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Chinese Physics B

43445	Zhe Zhang	31 (2022) 036802	2019A1249	BL04B2	Chen Yanna	High-energy X-ray Diffraction Study on Phase Transition Asymmetry of Plastic Crystal Neopentylglycol
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Communications Biology

43844	Yuko Makino	5 (2022) 619	2021B2560	BL41XU	林 宏典	Serine Hydroxymethyltransferase as a Potential Target of Antibacterial Agents Acting Synergistically with One-carbon Metabolism-related Inhibitors
			理研	BL32XU		

Communications Chemistry

43396	Kazuhiro Hikima	5 (2022) 52	2017B7610	BL28XU	松原 英一郎	Operando Analysis of Electronic Band Structure in an All-Solid-State Thin-Film Battery
			2018A7610	BL28XU	松原 英一郎	
			2018B7610	BL28XU	松原 英一郎	
			2019A7616	BL28XU	安部 武志	
			2019B7616	BL28XU	安部 武志	
			2020A7616	BL28XU	安部 武志	

Condensed Matter

43301	Masashi Tanaka	7 (2022) 33	2020A1670	BL25SU	片岡 範行	Superconductivity in the α -Form Layer Structured Metal Nitride Halide
			2019B1454	BL25SU	横谷 尚睦	

Crystal Growth & Design

43734	Hayato Sumi	22 (2022) 3708-3718	2019A1576	BL40B2	田川 美穂	Designing a High-Crystallinity Nano-Gapped Particle Superlattice via DNA-Guided Colloidal Crystallization and Dehydration
			2019B1586	BL40B2	田川 美穂	
			2020A1569	BL40B2	田川 美穂	

CrystEngComm

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
43708	Yuto Higuchi	24 (2022) 3859-3864	2020A1094	BL02B2	田中 俊輔	OSDA-free and Steam-assisted Synthesis of PHI Type Zeolite Showing a Unique CO ₂ Adsorption Behaviour

e-Journal of Surface Science and Nanotechnology

43702	Toshihide Sumi	20 (2022) 31-35	2021A8024	BL1	堀尾 眞史	Separating Non-linear Optical Signals of a Sample from High Harmonic Radiation in a Soft X-ray Free Electron Laser
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Electrocatalysis

43387	Jun Maruyama	13 (2022) 219-229	2018B1775	BL14B2	丸山 純	Graphitic Carbon Materials with Various Nanostructures Decorated with Fe-N-C Catalytically Active Sites for Air Electrodes
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Electrochemistry Communications

43553	Yumi Katasho	138 (2022) 107287	2020A1114	BL28B2	片所 優宇美	<i>In situ</i> X-ray Diffraction Analysis of Electrochemical Dy-Ni Alloying in Molten LiCl-KCl
			2021A1313	BL28B2	片所 優宇美	
			2021B1384	BL28B2	片所 優宇美	

eLife

43570	Xing Wang	11 (2022) e74716	2019A1425	BL47XU	小宮 剛	Muscle Systems and Motility of Early Animals Highlighted by Cnidarians from the Basal Cambrian
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Energy & Environmental Science

43626	Kosuke Kawai	15 (2022) 2591-2600	2020A7474	BL07LSU	大久保 將史	Kinetic Square Scheme in Oxygen-redox Battery Electrodes
			2019B7456	BL07LSU	大久保 將史	
			2019A7452	BL07LSU	大久保 將史	
			2018B7590	BL07LSU	大久保 將史	
			2018A7560	BL07LSU	大久保 將史	
			2018B1514	BL27SU	須田山 貴亮	
			2018A1359	BL27SU	須田山 貴亮	
			2017B1328	BL27SU	須田山 貴亮	
2016B1503	BL27SU	須田山 貴亮				

Environmental Science and Technology

43300	Paul Clarence M. Francisco	56 (2022) 3011-3020	2020A3714	BL22XU	Francisco Paul Clarence	Selenide [Se(-II)] Immobilization in Anoxic, Fe(II)-Rich Environments: Coprecipitation and Behavior during Phase Transformations
			2019A3609	BL14B1	松村 大樹	
			2020A3609	BL14B1	松村 大樹	

The FASEB Journal

43384	Suk-Kyeong Jung	24 (2010) 560-569	2007B1426	BL38B1	Jeong DaeGwin	Crystal Structure of ED-Eya2: Insight into Dual Roles as a Protein Tyrosine Phosphatase and a Transcription Factor
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The FEBS Journal

43432	Takafumi Itoh	287 (2019) 2524-2543	2019A2713	BL26B1	日弁 隆雄	Structural Insights into Substrate Recognition and Catalysis by Glycoside Hydrolase Family 87 α -1,3-glucanase from <i>Paenibacillus glycanilyticus</i> FH11
			2018B2545	BL38B1	伊藤 貴文	
			2018B2545	BL38B1	伊藤 貴文	
			2016B2722	BL26B1	伊藤 貴文	
2017A2528	BL26B2	伊藤 貴文				

Frontiers in Ecology and Evolution

43759	Tatsuya Hirasawa	9 (2021) 679633	2019B1269	BL20B2	Cupello Camila	Development of the Pectoral Lobed Fin in the Australian Lungfish <i>Neoceratodus forsteri</i>
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Geochimica et Cosmochimica Acta

43748	Hai-bo Qin	294 (2021) 255-272	2020A0174	BL37XU	高橋 嘉夫	Scandium Immobilization by Goethite: Surface Adsorption versus Structural Incorporation
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International Journal of Heat and Mass Transfer

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
43359	Wataru Yoshimune	191 (2022) 122887	2017A7032	BL33XU	長井 康貴	A Simple Method to Measure Through-plane Effective Gas Diffusivity of a Gas Diffusion Layer for Polymer Electrolyte Fuel Cells
			2017B7032	BL33XU	長井 康貴	
			2018B7032	BL33XU	長井 康貴	
			2019A7032	BL33XU	山口 聡	

International Journal of Molecular Sciences

43587	Riku Kawasaki	23 (2022) 4686	2021A1065	BL40B2	西村 智貴	Theranostic Agent Combining Fullerene Nanocrystals and Gold Nanoparticles for Photoacoustic Imaging and Photothermal Therapy
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Journal of Alloys and Compounds

43380	Martina Vrankic	894 (2022) 162444	2018B4141	BL12B2	Ding Yang	Pressure-induced and Flaring Photocatalytic Diversity of ZnO Particles Hallmarked by Finely Tuned Pathways
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Journal of Chemical Research

43633	Mina Sakuragi	45 (2021) 649-654	2019A1225	BL40B2	櫻木 美菜	Self-standing Magnetic Composite Nanosheets Prepared in the Presence of an External Magnetic Field: Characterization and Potential for Medical Applications
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Journal of Crystal Growth

43611	Shigeya Naritsuka	549 (2020) 125861	2016A1003	BL13XU	若林 裕助	X-ray in situ Observation of Graphene Precipitating Directly on Sapphire Substrate with and without Ti Capping Layer
			2017B3584	BL11XU	成塚 重弥	
			2018A3588	BL11XU	成塚 重弥	
			2018B3588	BL11XU	成塚 重弥	
			2019A3589	BL11XU	成塚 重弥	
			2019B3587	BL11XU	成塚 重弥	

Journal of Electron Spectroscopy and Related Phenomena

43709	Satoru Suzuki	257 (2022) 147192	2020A3231	BL24XU	住田 弘祐	Effects of Sample-aperture Cone Distance on the Environmental Charge Compensation in Near-ambient Pressure Hard X-ray Photoemission Spectroscopy
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Journal of Energy Chemistry

43714	Na Li	68 (2022) 564-571	2019A1496	BL02B2	張 志剛	Tailoring Interphase Structure to Enable High-Rate, Durable Sodium-Ion Battery Cathode
			2019B1096	BL02B2	張 志剛	
			2020A1430	BL02B2	張 志剛	

Journal of Fiber Science and Technology

43703	Ryuji Hirase	78 (2022) 89-95	2020A1421	BL40B2	湯口 宣明	Dispersion Characteristics of Cellulose Nanocrystals in Water and Ethanol Using Small-Angle X-Ray Scattering and Scanning Probe Microscopy
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Journal of Geophysical Research: Solid Earth

43803	Shoh Tagawa	127 (2022) e2022JB024365	2017A0072	BL10XU	廣瀬 敬	High-Pressure Melting Curve of FeH: Implications for Eutectic Melting between Fe and Non-Magnetic FeH
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Journal of Hazardous Materials Letters

43559	Owen P. Missen	3 (2022) 100053	2021A1077	BL37XU	Brugger Joel	Natural Nanoparticles of the Critical Element Tellurium
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Journal of Inorganic Biochemistry

43705	Daisuke Matsui	230 (2022) 111770	2017B6757	BL44XU	村木 則文	Crystal Structural Analysis of Aldoxime Dehydratase from <i>Bacillus</i> sp. OxB-1: Importance of Surface Residues in Optimization for Crystallization
			2018A6853	BL44XU	村木 則文	
			2018B6853	BL44XU	村木 則文	
			2019A6953	BL44XU	村木 則文	
			2020A6551	BL44XU	村木 則文	

Journal of Low Temperature 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
43292	Akira Yamaguchi	(2022) Online published 29 Jan. 2022	2020A0599	BL13XU	山口 明	Structural Study of Adsorbed Helium Films: New Approach with Synchrotron Radiation X-rays
			2020A2045	BL13XU	田尻 寛男	
			2020A2137	BL13XU	田尻 寛男	
			2021A1142	BL13XU	山口 明	
			2021A2070	BL13XU	田尻 寛男	

Journal of Molecular Biology

43854	Soun Kanada	413 (2011) 162-176	2009A1241	BL38B1	神山 勉	Crystal Structures of an O-Like Blue Form and an Anion-Free Yellow Form of <i>pharaonis</i> Halorhodopsin
			2009A1022	BL26B2	神山 勉	

Journal of Molecular Liquids

43317	Jun Shirai	350 (2022) 118567	2018B1360	BL04B2	馬渡 和真	Water Structure in 100 nm Nanochannels Revealed by Nano X-ray Diffractometry and Raman Spectroscopy
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Journal of Molecular Structure

43457	Naoki Fujimoto	1259 (2022) 132721	2017B1414	BL38B1	片桐 幸輔	Investigating the Synthesis and Structure of [2]pseudorotaxanes Assembled by Crown ether as Wheel Component and Dual-cation Axle with Phosphonium and Ammonium Cations
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Journal of Non-Crystalline Solids: X

43697	Anders Nilsson	14 (2022) 100095	2015A8038	BL3	Nilsson Anders	Origin of the Anomalous Properties in Supercooled Water Based on Experimental Probing inside "no-man's land"
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Journal of Photochemistry and Photobiology A: Chemistry

43426	Hiroshi Isobe	405 (2021) 112905	2018A8037	BL2	沈 建仁	Exploring Reaction Pathways for the Structural Rearrangements of the Mn Cluster Induced by Water Binding in the S ₃ State of the Oxygen Evolving Complex of Photosystem II
			2018B8029	BL2	沈 建仁	
			2019A8032	BL2	沈 建仁	
			2019B8028	BL2	沈 建仁	
			2020A8059	BL2	沈 建仁	

The Journal of Physical Chemistry B

43845	Yuka Ikemoto	126 (2022) 4143-4151	2018B1243	BL43IR	村上 大樹	Infrared Spectra and Hydrogen-Bond Configurations of Water Molecules at the Interface of Water-Insoluble Polymers under Humidified Conditions
			2018B0938	BL43IR	若林 裕助	
			2020A1315	BL43IR	池本 夕佳	
			2020A1756	BL43IR	池本 夕佳	
			2020A1779	BL43IR	池本 夕佳	
			2021A1488	BL43IR	池本 夕佳	
			2021B1363	BL43IR	池本 夕佳	
			2021A1476	BL43IR	池本 夕佳	
2021B1628	BL43IR	池本 夕佳				

Journal of Physics: Conference Series

43650	Sergey Makarov	1787 (2021) 012027	2019A8037	BL3	Koenig Michel	X-ray Radiography Based on the Phase-contrast Imaging with using LiF Detector
			2019B8057	BL3	Albertazzi Bruno	

Journal of Power Sources

43438	Kenji Sato	535 (2022) 231399	2017A1004	BL04B2	松原 英一郎	Non-destructive Observation of Plated Lithium Distribution in a Large-Scale Automobile Li-ion Battery using Synchrotron X-ray Diffraction
			2017B1431	BL04B2	松原 英一郎	
			2018A2048	BL04B2	尾原 幸治	
			2018B1022	BL04B2	松原 英一郎	
			2019A1008	BL04B2	松原 英一郎	

Journal of Robotics and Mechatronics

43751	Hiroaki Yoshizawa	34 (2022) 310-315	2017A1613	BL40XU	上原 宏樹	<i>In-Situ</i> X-Ray Analyses of Structural Change During Drawing and Shrinking of Linear Low-Density Polyethylene Film
			2017B1591	BL40XU	上原 宏樹	

The Journal of Supercritical Fluids

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
43647	Kohei Yamanoi	184 (2022) 105555	2018B1837	BL19B2	森田 剛	Structure Disorder Observation of Fluoropolymers Composed of Vinylidene Fluoride and Tetrafluoroethylene in Supercritical CO ₂ using Time-resolved Small- and Wide-angle X-ray Scattering
			2018A3401	BL08B2	森田 剛	

Journal of the American Ceramic Society

43318	HyeonSeok Jee	103 (2020) 7188-7201	2017A3782	BL22XU	裴 晟哲	Determination of Atomistic Deformation of Tricalcium Silicate Paste with High-volume Fly Ash
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Journal of the Ceramic Society of Japan

43811	Kyoko Okada	130 (2022) S1-S6	2015B1520	BL27SU	岡田 京子	Needle-like Forms with a Few Tens of Nanometer in Diameter and More than a Few Tens of Micrometer Length, and Specific Oxygen State during In-flight Glass Melting
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Journal of The Electrochemical Society

43434	Hikaru Ohara	169 (2022) 042507	2019A1629	BL20XU	小林 正和	Electrochemically Fabricated SrGa ₂ S ₄ :Eu/ZnO-Vertical Nanowire Bilayer Scintillator for X-ray Imaging
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Journal of the Royal Society Interface

43737	Noriyuki Isobe	19 (2022) 20220120	2021A1240	BL40B2	磯部 紀之	Uniaxial Orientation of β -chitin Nanofibres used as an Organic Framework in the Scales of a Hot Vent Snail
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Materials

43760	Ruilin Zheng	15 (2022) 1678	2021B1413	BL08W	篠崎 健二	Effect of Glass Composition on Luminescence and Structure of CsPbBr ₃ Quantum Dots in an Amorphous Matrix
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Materials Letters

43560	Jae-Kyung Han	321 (2022) 132414	2018B1219	BL02B1	Liss Klaus Dieter	Strain-dependent Phase Transformation Mapping of Diffusion-bonded Nanocrystalline Aluminum-magnesium by High-energy Synchrotron X-rays
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Materials Today Communications

43327	Riki Kataoka	31 (2022) 103265	2020A3690	BL14B1	片岡 理樹	The Origin of the Highly Crystallized Face-centered Cubic YH ₃ High-pressure Phase when Quenched to Ambient Condition
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Materials Transactions

43469	Tetsu Watanuki	62 (2021) 338-341	2012B3701	BL22XU	綿貫 徹	Pressure-Volume Relationship of a Au-Al-Yb Intermediate Valence Quasicrystal and Its Crystalline Approximant
			2013A3701	BL22XU	綿貫 徹	
			2013B3701	BL22XU	綿貫 徹	

Matter and Radiation Extremes

43451	Naohisa Hirao	7 (2022) 038403	2005B0272	BL10XU	平尾 直久	Equations of State of Iron and Nickel to the Pressure at the Center of the Earth
			2005B0307	BL04B2	川村 春樹	
			2006A1077	BL04B2	川村 春樹	
			2006A1307	BL10XU	平尾 直久	
			2006A1792	BL10XU	大石 泰生	
			2007A1277	BL10XU	平尾 直久	
			2007A1286	BL04B2	平尾 直久	
			2008B1247	BL10XU	赤浜 裕一	
			2009A1444	BL10XU	平尾 直久	
			2018B1144	BL10XU	赤浜 裕一	
2020A1194	BL10XU	赤浜 裕一				

Membranes

43599	Shinya Hanashima	11 (2021) 823	2021A8504	BL2	溝端 栄一	Heavy Atom Detergent/Lipid Combined X-ray Crystallography for Elucidating the Structure-Function Relationships of Membrane Proteins
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Minerals

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
43742	Sachika Natori	12 (2022) 536	2021A1449	BL37XU	高橋 嘉夫	High-Energy Resolution Fluorescence Detected X-ray Absorption Spectroscopy for the Speciation of Fe in Aerosol Samples
			2021A2072	BL39XU	河村 直己	
			2020A0174	BL01B1	高橋 嘉夫	
			2021B1625	BL37XU	高橋 嘉夫	
			2021B2090	BL39XU	河村 直己	
2022A1507	BL39XU	高橋 嘉夫				

Molecular Catalysis

43544	Yoshinao Nakagawa	523 (2022) 111208	2019A1825	BL14B2	浅野 壮宏	One-pot Production of Dioctyl Ether from 1,2-octanediol over Rutile-titania-supported Palladium-tungsten Catalyst
			2019B1325	BL01B1	奥村 和	
			2019B1435	BL01B1	奥村 和	

Nano Letters

43704	Akihiro Suzuki	22 (2022) 4603-4607	2017A8006	BL2	西野 吉則	Femtosecond X-ray Laser Reveals Intact Sea-Island Structures of Metastable Solid-State Electrolytes for Batteries
			2017B8061	BL2	西野 吉則	
			2018A8041	BL2	山重 寿夫	
			2018B8800	BL2	山重 寿夫	
			2019A8024	BL2	山重 寿夫	

Nanoscale

43683	Shinya Masuda	14 (2022) 3031-3039	2020A0672	BL01B1	増田 晋也	Synthesis of Active, Robust and Cationic Au ₂₅ Cluster Catalysts on Double Metal Hydroxide by Long-term Oxidative Aging of Au ₂₅ (SR) ₁₈
			2021A1200	BL01B1	増田 晋也	

Nature Reviews Earth & Environment

43817	Kei Hirose	2 (2021) 645-658	2017A0072	BL10XU	廣瀬 敬	Light Elements in the Earth's Core
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npj Asia Materials

43439	Yusaku Kawai	14 (2022) 32	2021A1593	BL40B2	河合 優作	Preparation of Dual-cross Network Polymers by the Knitting Method and Evaluation of Their Mechanical Properties
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Nuclear Materials and Energy

43304	Hiroshi Sakurai	31 (2022) 101171	2020A1697	BL08W	尾崎 豪嗣	Development of Non-destructive Testing (NDT) Technique for HIPed Interface by Compton Scattering X-ray Spectroscopy
			2021A1562	BL08W	桜井 浩	

OSA Technical Digest

43303	Thomas Penfold	(2016) UF1A.6	2014B8039	BL3	Milne Christopher	Femtosecond X-ray Absorption and Emission Spectroscopy on ZnO Nanoparticles in Solution
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Physical Review E

43440	So Kitsunezaki	105 (2022) 044902	2018B1477	BL20B2	狐崎 創	X-ray Computerized Tomography Observation of Lycopodium Paste Incorporating Memory of Shaking
			2019B1150	BL20B2	狐崎 創	

Physical Review Letters

43754	Ichiro Inoue	128 (2022) 223203	2018A8040	BL3	井上 伊知郎	Delayed Onset and Directionality of X-Ray-Induced Atomic Displacements Observed on Subatomic Length Scales
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Physical Review Research

43302	Edwin Kukk	3 (2021) 013221	2018B8014	BL1	Kukk Edwin	Formative Period in the X-ray-induced Photodissociation of Organic Molecules
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Physics of the Earth and Planetary Interiors

43554	Tomohiro Ohuchi	326 (2022) 106865	2021A1124	BL04B1	大内 智博	Grain-size-sensitive Creep of Olivine Induced by Oxidation of Olivine in the Earth's Deep Upper Mantle: Implications for Weakening of the Subduction Interface
			2019A0069	BL04B1	河野 義生	
			2019A1731	BL04B1	大内 智博	
			2019B1115	BL04B1	大内 智博	

Polar 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
43847	Takaaki Noguchi	29 (2021) 100727	2019A0165	BL47XU	土山 明	Mineralogy of Fine-grained Matrix, Fine-grained Rim, Chondrule Rim, and Altered Mesostasis of a Chondrule in Asuka 12169, One of the Least Altered CM Chondrites

Polymer Journal

43632	Mina Sakuragi	53 (2021) 1335-1344	2017B1216	BL40B2	櫻木 美菜	Evaluation of the Supramolecular Structure of Drug Delivery Carriers using Synchrotron X-ray Scattering
			2018B1424	BL40B2	櫻木 美菜	
			2019A1225	BL40B2	櫻木 美菜	

Precambrian Research

43388	Motoko Igisu	373 (2022) 106628	2019A1109	BL43IR	伊規須 素子	Spatial Distribution of Organic Functional Groups in Ediacaran Acritarchs from the Doushantuo Formation in South China as Revealed by Micro-FTIR Spectroscopy
			2020A1145	BL43IR	伊規須 素子	

Proceedings of Suzaku-MAXI 2014: Expanding the Frontiers of the X-ray Universe

43616	Kenta Kaneko	(2014) 162-163	2013B1194	BL25SU	幸村 孝由	X-ray Transmission Measurement of Contamination Blocking Filter for SXI onboard ASTRO-H
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RSC Advances

43603	E. V. Johnstone	10 (2020) 25116-25124	2018A3609	BL14B1	松村 大樹	Synthesis and Characterization of Iodovanadinite using PdI ₂ , an Iodine Source for the Immobilisation of Radioiodine
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SAE Technical Paper

43607	Hirohisa Tanaka	(2022) 2022-01-0534	2016A1418	BL28B2	松村 大樹	An Automotive Intelligent Catalyst that Contributes to Hydrogen Safety for the Decommissioning of Fukushima Daiichi Nuclear Power Station (1FD)
			2016A3609	BL14B1	松村 大樹	
			2016B1466	BL28B2	松村 大樹	
			2016B3609	BL14B1	松村 大樹	

Science

43646	Ilya Belopolski	365 (2019) 1278-1281	2017A1669	BL25SU	Belopolski Ilya	Discovery of Topological Weyl Fermion Lines and Drumhead Surface States in a Room Temperature Magnet
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Science and Technology of Advanced Materials

43375	Masatomo Sumiya	23 (2022) 189-198	2018A3801	BL23SU	吉越 章隆	High Reactivity of H ₂ O Vapor on GaN Surfaces
			2019A3801	BL23SU	吉越 章隆	
			2019B3801	BL23SU	吉越 章隆	
			2018A3834	BL23SU	角谷 正友	
			2019B3837	BL23SU	角谷 正友	
			2020A3801	BL23SU	吉越 章隆	
			2021A3801	BL23SU	吉越 章隆	
			2021A3837	BL23SU	角谷 正友	

Science of The Total Environment

43746	Yuka Yokoyama	802 (2022) 149221	2019A1523	BL37XU	高橋 嘉夫	The Uptake of Selenite in Calcite Revealed by X-ray Absorption Spectroscopy and Quantum Chemical Calculations
			2019A1498	BL40XU	佐々木 裕次	
			2020A3740	BL22XU	高橋 嘉夫	
			2020A0174	BL01B1	高橋 嘉夫	

Solid State Ionics

43719	Tetsuhiro Katsumata	380 (2022) 115921	2017B1133	BL02B2	勝又 哲裕	Synthesis and Ionic Conductivity of Li Boracites, Li ₄ B ₇ O ₁₂ Cl and Li ₄ B ₄ Al ₃ O ₁₂ Cl _{1-x} Br _x
			2020A1393	BL02B2	稲熊 直之	

Tetrahedron Letters

43406	Yuzuka Onaka	96 (2022) 153774	2021A1061	BL26B1	松野 太輔	A Large-bore Chiral Cylindrical Molecule Prone to Radial Deformations
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自動車技術会論文集 (Transactions of the Society of Automotive Engineers of Japan)

43449	Kentaro Inoue	51 (2020) 422-427	2018B3738	BL22XU	池田 知廣	Fatigue Life Prediction of Motor Rotor Considering Influence of Die-cutting on Electrical Steel
			2016A3789	BL22XU	井上 健太郎	

しょうとつ (原子衝突学会誌, Journal of Atomic Collision Research)

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
43687	Kiyoshi Ueda	18 (2021) 69-78	2012A8036	BL3	上田 潔	X線自由電子レーザーの高強度・極短X線パルス照射が誘起する原子・分子・クラスター内超高速電子・分子ダイナミクス
			2012B8045	BL3	上田 潔	

日本物理学会誌 (Butsuri)

43337	Takaya Mitsui	77 (2022) 23-28	2017A3551	BL11XU	三井 隆也	Direct Observation of Magnetic Friedel Oscillation at the Fe (001) Surface
			2017B3551	BL11XU	三井 隆也	
			2018A3552	BL11XU	三井 隆也	
			2018B3551	BL11XU	境 誠司	
			2018B3552	BL11XU	三井 隆也	
			2019A3551	BL11XU	境 誠司	

放射光 (Journal of the Japanese Society for Synchrotron Radiation Research)

43715	Susumu Yamamoto	35 (2022) 182-190	2017A7532	BL07LSU	山本 達	Operando Measurements of Catalytic Surface Reactions by Soft X-ray Ambient Pressure XPS
			2017B7549	BL07LSU	山本 達	
			2018A7564	BL07LSU	山本 達	
			2018B7582	BL07LSU	山本 達	
			2019A7591	BL07LSU	山本 達	
			2019B7461	BL07LSU	山本 達	
			2020A7401	BL07LSU	山本 達	
			2021A7401	BL07LSU	山本 達	
			2021B7401	BL07LSU	山本 達	
			2018A7568	BL07LSU	小坂谷 貴典	
			2018B7583	BL07LSU	小坂谷 貴典	
			2016A7401	BL07LSU	吉信 淳	
			2016B7401	BL07LSU	吉信 淳	
			2017A7401	BL07LSU	吉信 淳	
			2017B7401	BL07LSU	吉信 淳	
			2015A7491	BL07LSU	吉信 淳	
			2015B7496	BL07LSU	吉信 淳	
			2014B7479	BL07LSU	吉信 淳	

膜 (Membrane)

43429	Takatoshi Yamada	47 (2022) 92-97	2019A3836	BL23SU	小川 修一	Oxygen Gas Barrier Property of Monolayer CVD Graphene
			2019B3801	BL23SU	吉越 章隆	
			2020A3801	BL23SU	吉越 章隆	
			2021A3801	BL23SU	吉越 章隆	

博士論文 (大阪大学)

43427	Yusuke Ohnishi	(2020)	2019A8073	BL2	栗栖 源嗣	Redox-dependent Conformational Change of the [2Fe-2S] Ferredoxin Revealed by Ultra-high Resolution X-ray Crystallography
43786	Masamitsu Takahashi	(2022)	2021A5050	BL16XU	出口 博史	金属化合物を添加した塗膜を有する鋼材の大気腐食挙動に関する研究
			2020A5351	BL16B2	出口 博史	
			2020A5050	BL16XU	出口 博史	
			2019B5050	BL16XU	出口 博史	
			2019A5050	BL16XU	出口 博史	

博士論文 (京都大学)

43305	Daichi Kato	(2020)	2018B1163	BL02B2	陰山 洋	Crystal and Band Structure Control of Layered Oxyhalide Photocatalysts
43690	Akinobu Niozu	(2021)	2016A8057	BL3	上田 潔	Ultrafast X-ray Diffraction with an XFEL: Probing Transient Structures of Nanoparticles
			2016B8077	BL3	上田 潔	
			2018B8063	BL3	上田 潔	

博士論文 (東京大学)

43425	Surachada Chuaychob	(2020)	2019A1291	BL40B2	藤田 雅弘	A Biosensing Platform Based on G-Quadruplex DNA-Functionalized Gold Nanoparticles
43728	Hiroki Yamada	(2019)	2017A1657	BL13XU	山田 大貴	Structural Analysis of Amorphous Precursors during the Crystallization of Zeolites using High Energy X-ray and Neutron Total Scattering

博士論文 (滋賀県立医科大学)

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
43394	Yusuke Kageyama	(2022)	2021A2750	BL45XU	入江 一浩	Characterization of a Conformation-Restricted Amyloid β Peptide and Immunoreactivity of Its Antibody in Human AD Brain

博士論文 (広島大学)

43572	Kazuki Sumida	(2019)	2013B4910	BL15XU	木村 昭夫	Spin-Dependent Electronic Structures and Ultrafast Carrier Dynamics of Novel Functional Materials
			2014A4903	BL15XU	木村 昭夫	
			2015A4907	BL15XU	木村 昭夫	
			2015B4906	BL15XU	木村 昭夫	
			2013B3880	BL23SU	木村 昭夫	
			2014A3880	BL23SU	木村 昭夫	
			2014B3880	BL23SU	木村 昭夫	
			2017A3842	BL23SU	木村 昭夫	

博士論文 (明治大学)

43787	Kazutoshi Yoshioka	(2022)	2019A1773	BL14B2	吉岡 和俊	Study on Evaluation of Lattice Strain and Atomic Vibration in the Nanoscopic Region of Silicon-based Group IV Alloy Semiconductors using Synchrotron Radiation X-rays
			2019A1828	BL19B2	吉岡 和俊	
			2019B1802	BL14B2	吉岡 和俊	
			2019B1905	BL19B2	吉岡 和俊	
			2020A1748	BL19B2	吉岡 和俊	
			2020A1849	BL19B2	吉岡 和俊	
			2020A1904	BL19B2	吉岡 和俊	
			2021A1661	BL14B2	吉岡 和俊	
			2021B1843	BL19B2	吉岡 和俊	
			2018A1801	BL14B2	君島 堅一	
			2019A1815	BL14B2	渡辺 剛	
			2019B1723	BL14B2	渡辺 剛	
			2020A1631	BL19B2	渡辺 剛	
			2021A2034	BL14B2	渡辺 剛	
2021A2031	BL19B2	渡辺 剛				
			2021B1895	BL19B2	渡辺 剛	

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
43408	Kengo Yasuhira	285 (2010) 1239-1248		BL38B1	X-ray Crystallographic Analysis of the 6-Aminohexanoate Cyclic Dimer Hydrolase
				BL41XU	
43462	Tamami Uejima	285 (2010) 36689-36697		BL41XU	GDP-bound and Nucleotide-free Intermediates of the Guanine Nucleotide Exchange in the Rab5-Vps9 System
43612	Iitaru Yanagihara	285 (2010) 16267-16274		BL41XU	Structure and Functional Characterization of <i>Vibrio parahaemolyticus</i> Thermostable Direct Hemolysin
43622	Xiaoqiu Yuan	285 (2010) 28953-28958		BL41XU	Single Amino Acid Alteration between Valine and Isoleucine Determines the Distinct Pyrabactin Selectivity by PYL1 and PYL2
43623	Zui Fujimoto	285 (2010) 34134-34143		BL41XU	Crystal Structure of an Exo-1,5- α -L-arabinofuranosidase from <i>Streptomyces avermitilis</i> Provides Insights into the Mechanism of Substrate Discrimination between Exo- and Endo-type Enzymes in Glycoside Hydrolase Family 43
43724	Qi Hao	285 (2010) 28946-28952		BL41XU	Functional Mechanism of the Abscisic Acid Agonist Pyrabactin
43772	Kazuko Okumura-Ikeda	285 (2010) 18684-18692		BL44XU	Crystal Structure of Aminomethyltransferase in Complex with Dihydropolypyl-H-Protein of the Glycine Cleavage System: Implications for Recognition of Lipoyl Protein Substrate, Disease-Related Mutations, and Reaction Mechanism

Journal of Synchrotron Radiation

43430	Togo Kudo	29 (2022) 670-676	理研	BL05XU	An X-ray Beam Profile Monitoring System at a Beamline Front-end Combining a Single-crystal Diamond Film and Energy Discrimination using Droplet Analysis
43706	Ichiro Inoue	29 (2022) 862-865	装置&技術	BL3	Single-shot Spectrometer using Diamond Microcrystals for X-ray Free-electron Laser Pulses
43771	Mitsuhiro Masaki	28 (2021) 1758-1768	加速器	全般	Adaptive Feedforward Control of Closed Orbit Distortion Caused by Fast Helicity-switching Undulators

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
43385	Kimihiko Mizutani	66 (2010) 765-770		BL38B1	X-ray Analysis of Bilirubin Oxidase from <i>Myrothecium verrucaria</i> at 2.3 Å Resolution using a Twinned Crystal
43853	Shankar Prasad Kanaujia	67 (2011) 2-16	理研	BL26B2	Crystal Structures, Dynamics and Functional Implications of Molybdenum-cofactor Biosynthesis Protein MogA from Two Thermophilic Organisms

The FEBS Journal

43591	Kazuaki Yoshimune	277 (2010) 738-748		BL41XU	Crystal Structure of Salt-tolerant Glutaminase from <i>Micrococcus luteus</i> K-3 in the Presence and Absence of its Product L-glutamate and its Activator Tris
43770	Keizo Yamamoto	277 (2010) 4205-4214		BL44XU	Crystal Structures of Isomaltase from <i>Saccharomyces cerevisiae</i> and in Complex with its Competitive Inhibitor Maltose

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

43767	Akiyuki Nishimura	107 (2010) 13666-13671		BL41XU	Structural Basis for the Specific Inhibition of Heterotrimeric G _q Protein by a Small Molecule
43812	Kenji Mizutani	108 (2011) 13474-13479	理研	BL26B1	Structure of the Rotor Ring Modified with <i>N,N</i> -dicyclohexylcarbodiimide of the Na ⁺ -transporting Vacuolar ATPase
				BL41XU	

Acta Crystallographica Section D

43618	Kaoru Nishimura	66 (2010) 1295-1300		BL41XU	Role of Domains within the Autotransporter Hbp/Tsh
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Biochemistry

43725	Atsuko Satoh	49 (2010) 6400-6410		BL41XU	Substrate-Induced Closing of the Active Site Revealed by the Crystal Structure of Pantothenate Synthetase from <i>Staphylococcus aureus</i>
				BL44XU	

Biophysical Journal

43768	Clint L. Makino	99 (2010) 2366-2373		BL41XU	Binding of More Than One Retinoid to Visual Opsins
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Chemical Reviews

43537	Katelyn A. Kirchner	(2022) Online Published May 5, 2022		BL04B2	Beyond the Average: Spatial and Temporal Fluctuations in Oxide Glass-Forming Systems
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Crystal Growth & Design

43814	Michihiro Sugahara	11 (2011) 110-120	理研	BL26B1	Packing Space Expansion of Protein Crystallization Screening with Synthetic Zeolite as a Heteroepitaxial Nucleant
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Drug Discovery Today: Technologies

43661	Gabriela Nass Kovacs	39 (2021) 101-110	XFEL		Potential of X-ray Free-electron Lasers for Challenging Targets in Structure-based Drug Discovery
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The EMBO Journal

43463	Shin-ichi Terawaki	29 (2010) 236-250		BL41XU	The PHCCEX Domain of Tiam1/2 is a Novel Protein- and Membrane-binding Module
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Genes to Cells

43615	Kiyohiro Takahashi	15 (2010) 901-910		BL41XU	Ser386 Phosphorylation of Transcription Factor IRF-3 Induces Dimerization and Association with CBP/p300 without Overall Conformational Change
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Icarus

43793	Yuhei Umeda	377 (2022) 114901	加速器	全般	Hugoniot and Released State of Calcite above 200 GPa with Implications for Hypervelocity Planetary Impacts
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IEEE Transactions on Electron Devices

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
43685	Hiroya Shike	68 (2021) 2056-2063	XFEL		A Global Shutter Wide Dynamic Range Soft X-Ray CMOS Image Sensor With Backside-Illuminated Pinned Photodiode, Two-Stage Lateral Overflow Integration Capacitor, and Voltage Domain Memory Bank

Inorganic Chemistry

43402	Toshitaka Matsui	49 (2010) 3602-3609		BL38B1	Dioxygen Activation for the Self-Degradation of Heme: Reaction Mechanism and Regulation of Heme Oxygenase
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Journal of Applied Physics

43639	Aleksander Lyapin	126 (2019) 065102		BL14B1	Order versus Disorder: <i>In situ</i> High-pressure Structural Study of Highly Polymerized Three-dimensional C ₆₀ Fullerite
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The Journal of Biochemistry

43383	Yoshihiro Yamaguchi	147 (2010) 905-915		BL38B1	Structure of Metallo- β -lactamase IND-7 from a <i>Chryseobacterium indologenes</i> Clinical Isolate at 1.65-Å Resolution
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Journal of Medicinal Chemistry

43723	Daisuke Tanaka	54 (2011) 851-857		BL41XU	A Practical Use of Ligand Efficiency Indices Out of the Fragment-Based Approach: Ligand Efficiency-Guided Lead Identification of Soluble Epoxide Hydrolase Inhibitors
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Journal of Molecular Biology

43592	Kinuyo Yamashita	396 (2010) 1081-1096		BL41XU	Substitution of Glu122 by Glutamine Revealed the Function of the Second Water Molecule as a Proton Donor in the Binuclear Metal Enzyme Creatininase
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Kobe Journal of Medical Sciences

43613	Rieko Nishimasu	56 (2010) E125-E139		BL41XU	Crystal Structure of a PFU-PUL Domain Pair of <i>Saccharomyces Cerevisiae</i> Doa1/Ufd3
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Molecular Cell

43458	Jennifer M. Doyle	39 (2010) 963-974		BL38B1	MAGE-RING Protein Complexes Comprise a Family of E3 Ubiquitin Ligases
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Molecules and Cells

43401	Hun Kim	29 (2010) 397-405		BL38B1	Structural Basis for the Reaction Mechanism of UDP-glucose Pyrophosphorylase
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Nuclear Instruments and Methods in Physics Research Section A

43686	Kyo Nakajima	1003 (2021) 165303	理研	BL29XU	Development of a Precise Evaluation Technique for the Pre-sampled Point Spread Function of X-ray Imaging Detectors with Sub-micrometer Resolution
			理研	BL19LXU	
			装置&技術		

Nucleic Acids Research

43625	Yusuke Nomura	38 (2010) 7822-7829		BL41XU	Conformational Plasticity of RNA for Target Recognition as Revealed by the 2.15 Å Crystal Structure of a Human IgG-aptamer Complex
				BL44XU	

Protein and Peptide Letters

43801	Masaki Tanaka	17 (2010) 1163-1169		BL44XU	Protein Core Adaptability: Crystal Structures of the Cavity-Filling Variants of Escherichia coli RNase HI
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Protein Science

43802	Nick C. Pace	19 (2010) 929-943		BL44XU	Urea Denatured State Ensembles Contain Extensive Secondary Structure that is Increased in Hydrophobic Proteins
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Proteins: Structure, Function, and Bioinformatics

43407	Yuichiro Kezuka	78 (2010) 2295-2305		BL38B1	Structure of Full-length Class I Chitinase from Rice Revealed by X-ray Crystallography and Small-Angle X-ray Scattering
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Review of Scientific Instruments

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
43783	Kenji Fukami	93 (2019) 023301	加速器	全般	Iron Lamination and Interlaminar Insulation for High-Frequency Pulsed Magnets

Structure

43617	Ken Kitano	18 (2010) 177-187		BL41XU	Structural Basis for DNA Strand Separation by the Unconventional Winged-Helix Domain of RecQ Helicase WRN
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加速器 (Journal of the Particle Accelerator Society of Japan)

43769	Nobuyuki Nishimori	18 (2021) 28-37	加速器	全般	R&D and Building Design for a Highly Brilliant 3 GeV Light Source Accelerator System
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日本結晶学会誌 (Journal of the Crystallographic Society of Japan)

43539	Shinji Kohara	64 (2022) 50-56		BL04B2	Understanding Disordered Structures by Accurate High-Energy X-ray Diffraction Measurement
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薬学雑誌 (Journal of the Pharmaceutical Society of Japan)

43707	Toru Nakatsu	142 (2022) 479-485	装置&技術	SACLA	What Kind of Measurements Can Be Made with an X-ray Free Electron Laser at SACLA?
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