

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

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

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

Spring-8 研究成果登録データベースに 2023 年 1 月～3 月に登録された論文が掲載された主な雑誌と掲載論文数

掲載雑誌	登録論文数	掲載雑誌	登録論文数
Acta Crystallographica Section D	9	ACS Applied Energy Materials	5
Materials Transactions	9	Chemistry of Materials	4
Biochemical and Biophysical Research Communications	8	Inorganic Chemistry	4
		Journal of the Physical Society of Japan	4
Journal of Alloys and Compounds	6	Materials	4
The Journal of Biological Chemistry	6	Nature Communications	4
Physical Review B	6	Scientific Reports	4

他全 143 誌、計 249 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

Materials 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
44716	Ikuya Yamada	(2023) Online published 10 Jan. 2023	2022A1493	BL02B2	山田 幾也	A Novel Diamagnetic Insulating Quadruple Perovskite Oxide YCu ₃ Rh ₄ O ₁₂
			2022B1619	BL14B2	山田 幾也	
44758	Serina Tanaka	64 (2023) 458-466	2021A1585	BL27SU	田中 芹奈	Soft X-ray XAFS Analysis of Cluster Formation Process during 353 K Aging in Al-Mg-Si Alloys
44893	Hiroshi Okuda	64 (2023) 780-784	2019A1235	BL40B2	奥田 浩司	Microstructure Evolution in Mg _{98.6} Y _{1.4} Zn _{0.4} Alloys and the Development by Hot Deformation Examined by Synchrotron Radiation Small- and Wide-Angle Scattering
			2019B1298	BL40B2	奥田 浩司	
			2022A1327	BL40B2	奥田 浩司	
44905	Amane Morimura	(2023) Online published 17 Feb. 2023	2022A1493	BL02B2	山田 幾也	Pressure-Induced Order-Disorder Transition in the Double Perovskite Oxide La ₂ CoRuO ₆
			2022B1619	BL14B2	山田 幾也	
			2022B1816	BL19B2	山田 幾也	
44923	Yuta Kato	(2023) Online published 3 Mar. 2023	2022A1493	BL02B2	山田 幾也	High-Pressure Synthesis of a Novel Quadruple Perovskite Oxide AgCu ₃ Cr ₄ O ₁₂
			2022B1619	BL14B2	山田 幾也	
44991	Atsushi Tanaka	(2023) Online published 17 Mar. 2023	2020A583	BL02B2	山田 幾也	High-Pressure Synthesis and Magnetic Property of a Novel Ferrimagnetic Quadruple Perovskite YMn ₃ Co ₄ O ₁₂
			2020A1735	BL14B2	山田 幾也	
45064	Koji Kimura	64 (2023) 750-755	2022A1112	BL39XU	江草 大佑	Local Structural Analysis around Solute-Element in Annealed Mg _{99.2} Zn _{0.2} Y _{0.6} Alloy Using X-ray Fluorescence Holography
			2021B1480	BL13XU	木村 耕治	
			2021B1481	BL39XU	木村 耕治	
			2021A1328	BL13XU	木村 耕治	
			2021A1331	BL39XU	木村 耕治	
			2020A1355	BL37XU	木村 耕治	
45067	Hiro Fujihara	63 (2022) 1406-1415	2020A1531	BL20XU	清水 一行	Suppression of Hydrogen Embrittlement due to Local Partitioning of Hydrogen to Dispersed Intermetallic Compound Particles in Al-Zn-Mg-Cu Alloys
			2015A0076	BL20XU	戸田 裕之	
45068	Ryoichi Oikawa	63 (2022) 1607-1616	2020A1531	BL20XU	清水 一行	Influence of Hydrogen on the Damage Behavior of IMC Particles in Al-Zn-Mg-Cu Alloys
			2021A1002	BL20XU	戸田 裕之	
			2021B1123	BL20XU	戸田 裕之	
			2021B1124	BL20XU	清水 一行	
			2020A1084	BL20XU	戸田 裕之	

Journal of Alloys and Compounds

44840	Alexei Belik	932 (2023) 167727	2019A4501	BL15XU	辻本 吉廣	Spin-glass to Long-range Order to Spin-glass Evolution of Magnetic Properties with the Composition in Sm ₂ MnZnMn _{4-x} Ti _x O ₁₂ (x = 1, 2, and 3) Perovskites
			2019B4500	BL15XU	山浦 一成	
44845	Yu.Yu. Dikhtyar	908 (2022) 164521	2020A4501	BL15XU	Belik Alexei	Site Occupancy, Luminescence and Dielectric Properties of β-Ca ₃ (PO ₄) ₂ -type Ca ₃ ZnLn(PO ₄) ₇ Host Materials
44869	Okkyun Seo	945 (2023) 169177	2018A4900	BL15XU	松田 晃史	Control of Atomic Ordering of LiNiO ₂ Thin Films on a Sapphire Substrate from Rock-salt to Layered Structure using Uniaxial Compression
			2018B4904	BL15XU	唐 佳藝	
			2018B4905	BL15XU	松田 晃史	
			2019A4904	BL15XU	唐 佳藝	
			2019B1607	BL25SU	唐 佳藝	
			2019B4900	BL15XU	唐 佳藝	
			2019B4902	BL15XU	松田 晃史	
			2020A4901	BL15XU	松田 晃史	
2020A4553	BL15XU	Seo Okkyun				
44888	Yujun Zhang	921 (2022) 166080	2019B1165	BL09XU	Zhang Yujun	Synchrotron X-ray Spectroscopic Study of the Antiferromagnetic-ferromagnetic Transition in Ni-doped FeRh Epitaxial Thin Films
44928	Keita Ito	946 (2023) 169450	2019A1802	BL46XU	伊藤 啓太	Fabrication of L1 ₀ -ordered FeNi Films by Denitriding FeNiN(001) and FeNiN(110) Films
			2019B1890	BL46XU	伊藤 啓太	
			2021A1675	BL46XU	西尾 隆宏	
			2021B1924	BL46XU	西尾 隆宏	
2022B1682	BL13XU	西尾 隆宏				
44944	Kenji Iwase	946 (2023) 169380	2017A3784	BL22XU	Kim Hyunjeong	Crystal and Local Structures of La ₂ Co ₇ H _x Obtained by Synchrotron X-ray Diffraction and Total Scattering

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
44732	Tatsuhiko Ishida	107 (2023) 045116	2017A1406	BL47XU	吉田 鉄平	Electronic Structure and Anharmonic Phonon Mode in BaIr_2Ge_7 with Two-dimensional Ba-Ge Networks Studied by Photoemission Spectroscopy
			2022A1579	BL09XU	吉田 鉄平	
44737	Hiromu Tamatsukuri	107 (2023) 024303	2016A1198	BL35XU	水牧 仁一朗	Investigation of the Phonon Dispersion Associated with Superlattice Reflections in the BiS_2 -based Superconductor $\text{LaBiS}_2\text{O}_{0.5}\text{F}_{0.5}$
			2016B1184	BL35XU	水牧 仁一朗	
			2017A1098	BL35XU	青木 勇二	
			2017B1266	BL35XU	筒井 智嗣	
2018A1357	BL35XU	筒井 智嗣				
44742	Ryo Nakamura	106 (2022) 195104	2022A4250	BL12XU	吉村 政人	Electronic Structure Reconstruction by Trimer Formation in CsW_2O_6 Studied by X-ray Photoelectron Spectroscopy
44772	Hidekazu Okamura	107 (2023) 045141	2013A1085	BL43IR	溝川 貴司	Pressure Suppression of the Excitonic Insulator State in Ta_2NiSe_5 Observed by Optical Conductivity
			2015B1698	BL43IR	松本 光亮	
			2016A1166	BL43IR	岡村 英一	
			2017A1163	BL43IR	岡村 英一	
2017A1164	BL43IR	岡村 英一				
44831	Keita Kojima	107 (2023) L020101	2018B1128	BL04B2	片山 尚幸	Short-range Order and Increased Transition Temperature in LiVO_2 with Weakened Trimer Frustration
			2019A1218	BL04B2	片山 尚幸	
			2021A1112	BL04B2	片山 尚幸	
			2021B1119	BL04B2	片山 尚幸	
45037	Takashi Miyoshino	107 (2023) 115145	2022B4256	BL12XU	武上 大介	Intra c -axis Dimer Hybridization and Mixed Valency in Mg-doped Ti_2O_3
			2022A4250	BL12XU	吉村 政人	

ACS Applied Energy Materials

44730	Katsuhiro Wakamatsu	(2023) Online published 14 Jan. 2023	2022A3634	BL14B1	吉川 浩史	Electron Storage Performance of Metal–Organic Frameworks Based on Tetrathiafulvalene–Tetrabenzoate as Cathode Active Materials in Lithium- and Sodium-Ion Batteries
			2022B3634	BL14B1	吉川 浩史	
44767	Kohsuke Mori	4 (2021) 11634-11642	2020A0523	BL01B1	森 浩亮	Photoreduction of Carbon Dioxide to Formic Acid with Fe-Based MOFs: The Promotional Effects of Heteroatom Doping and Alloy Nanoparticle Confinement
			2020A1062	BL01B1	森 浩亮	
44899	Tomoaki Takayama	6 (2023) 2793-2803	2021A1512	BL01B1	高山 大鑑	Durable Electrocatalytic CO_2 Reduction Using Intermetallic Compound PdIn Nanoparticles and Their Application to a Solar Energy Harvesting System
			2018A1507	BL01B1	高山 大鑑	
44998	Yoshinari Makimura	5 (2022) 12239-12251	2016B7008	BL33XU	野中 敬正	Improved Kinetics in Spinel-Related 5 V Positive Electrode Materials by Changing Lithium Insertion Schemes for Lithium-Ion Batteries
			2017B7008	BL33XU	野中 敬正	

Chemistry of Materials-1

44783	Yuichi Okazaki	34 (2022) 10973-10981	2022A1828	BL14B2	岡崎 湧一	Composition-Designed Multielement Perovskite Oxides for Oxygen Evolution Catalysis
			2022A1493	BL02B2	山田 幾也	
			2021B1902	BL14B2	岡崎 湧一	
44914	Yuki Sakai	35 (2023) 1008-1015	2019A1805	BL19B2	東 正樹	Two Types of Negative Thermal Expansion Observed in $\text{PbCr}_{1-x}\text{Ti}_x\text{O}_3$
			2019B1783	BL02B2	西久保 匠	
			2019B1896	BL19B2	東 正樹	
			2020A1737	BL19B2	東 正樹	
			2020A1773	BL19B2	東 正樹	
			2020A1890	BL19B2	東 正樹	
			2021A1156	BL02B2	Pan Zhao	
			2021A1282	BL02B2	東 正樹	
			2022A1775	BL19B2	東 正樹	
			2022B1852	BL02B2	西久保 匠	
2022B1868	BL19B2	東 正樹				

Chemistry of Materials-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
44926	Takumi Nishikubo	35 (2023) 870-878	2022A1567	BL10XU	西久保 匠	Polar-Nonpolar Transition-Type Negative Thermal Expansion with 11.1% Volume Shrinkage by Design
			2018A1636	BL02B2	西久保 匠	
			2018A1667	BL09XU	西久保 匠	
			2018B1860	BL19B2	西久保 匠	
			2019A1045	BL02B2	Pan Zhao	
			2019A1251	BL47XU	酒井 雄樹	
			2019A1688	BL02B2	西久保 匠	
			2019A1805	BL19B2	東 正樹	
			2020A1773	BL19B2	東 正樹	
			2020A1646	BL02B2	福田 真幸	
			2020A3761	BL22XU	大和田 謙二	
2020A3762	BL22XU	押田 典宏				
2022A1250	BL02B2	酒井 雄樹				
45026	Yanchang Wang	34 (2022) 10631-10638	2020A1011	BL37XU	内本 喜晴	Oxyfluoride Cathode for All-Solid-State Fluoride-Ion Batteries with Small Volume Change Using Three-Dimensional Diffusion Paths
			2021A1022	BL27SU	内本 喜晴	
			2021A1028	BL02B2	内本 喜晴	
			2020A0748	BL27SU	内本 喜晴	

Journal of the Physical Society of Japan

44876	Ryuji Higashinaka	92 (2023) 034601	2012B1538	BL01B1	東中 隆二	Possible Partially Disordered Sm State Coexisting with Heavy Quasiparticles in SmAu ₃ Al ₇
			2014B1139	BL01B1	東中 隆二	
			2012B1226	BL35XU	筒井 智嗣	
44903	Satoru Hayami	92 (2023) 033702	2022A1462	BL35XU	筒井 智嗣	Cluster Toroidal Multipoles Formed by Electric-Quadrupole and Magnetic-Octupole Trimers: A Possible Scenario for Hidden Orders in CaIr ₃ O ₁₂
44939	Fuminori Honda	92 (2023) 044702	2020A0740	BL10XU	本多 史憲	Pressure-induced Structural Phase Transition and New Superconducting Phase in UTe ₂
			2021A1527	BL39XU	本多 史憲	
			2020A0741	BL39XU	本多 史憲	
45053	Osamu Ikeda	92 (2023) 043702	2020A3584	BL11XU	坂巻 竜也	Magnetic Spin-Flop Transition of ε-FeOOH at 8 GPa
			2021A3584	BL11XU	坂巻 竜也	

Materials

44839	Alexei Belik	15 (2022) 8306	2019A4501	BL15XU	辻本 吉廣	Dielectric and Spin-Glass Magnetic Properties of the A-Site Columnar-Ordered Quadruple Perovskite Sm ₂ CuMn(MnTi ₃)O ₁₂
			2019B4500	BL15XU	山浦 一成	
44841	Dmitry Spassky	16 (2023) 971	2020A4501	BL15XU	Belik Alexei	Decay Kinetics of Gd ₃ Al ₂ Ga ₃ O ₁₂ :Ce ³⁺ Luminescence under Dense Laser Irradiation
44842	Elena V. Sipina	16 (2023) 1383	2018B4502	BL15XU	Belik Alexei	Abnormal Eu ³⁺ → Eu ²⁺ Reduction in Ca _{9-x} Mn _x Eu(PO ₄) ₇ Phosphors: Structure and Luminescent Properties
			2020A4501	BL15XU	Belik Alexei	
44843	Alexei Belik	16 (2023) 1506	2018B4502	BL15XU	Belik Alexei	Ferrimagnetic Ordering and Spin-Glass State in Diluted GdFeO ₃ -Type Perovskites (Lu _{0.5} Mn _{0.5})(Mn _{1-x} Ti _x)O ₃ with x = 0.25, 0.50, and 0.75
			2019B4500	BL15XU	山浦 一成	
			2020A4501	BL15XU	Belik Alexei	

Nature Communications

44721	Tomohiro Ohuchi	13 (2022) 5213	2019B1115	BL04B1	大内 智博	In situ X-ray and Acoustic Observations of Deep Seismic Faulting upon Phase Transitions in Olivine
			2018B1052	BL04B1	大内 智博	
			2021B1240	BL04B1	大内 智博	
44749	Daisuke Takimoto	14 (2023) 19	2019B1028	BL14B2	今井 英人	Platinum Nanosheets Synthesized via Topotactic Reduction of Single-layer Platinum Oxide Nanosheets for Electrocatalysis
44766	Kohsuke Mori	12 (2021) 3884	2019A1048	BL01B1	森 浩亮	Hydrogen Spillover-driven Synthesis of High-entropy Alloy Nanoparticles as a Robust Catalyst for CO ₂ Hydrogenation
			2019B1091	BL01B1	森 浩亮	
44795	Nai Chi Chen	14 (2023) 545	2016A6600	BL44XU	Chen Chun Jung	Structures of Honeybee-infecting Lake Sinai Virus Reveal Domain Functions and Capsid Assembly with Dynamic Motions
			2016B6600	BL44XU	Chen Chun Jung	
			2017A6600	BL44XU	Chen Chun Jung	
			2017B6600	BL44XU	Chen Chun Jung	
			2017B6769	BL44XU	Chen Chun Jung	

Review of Scientific Instruments-1

44708	Shunya Yokomae	94 (2023) 015106	2021A1607	BL25SU	横前 俊也	Abrasive Slurry Jet Machining System using Polyurethane@silica Core-shell Particles for Internal Surfaces of Axisymmetric X-ray Mirrors
			2021B1823	BL25SU	横前 俊也	

Review of Scientific Instruments-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
44910	Kazuhiro Fuchizaki	92 (2021) 025117	2019B1423	BL04B1	松下 正史	A Unique Multianvil 6-6 Assembly for a Cubic-type Multianvil Apparatus
44921	Hiroyuki Ohsumi	94 (2023) 033701	2019A1295 2019B1366	BL25SU BL25SU	大隅 寛幸 大隅 寛幸	Post-acquisition Upsampling Method for Scanning X-ray Microscopy
45018	Hiroshi Sawada	94 (2023) 033511	2019A8002	BL2	澤田 寛	Ultrafast Time-resolved 2D Imaging of Laser-driven Fast Electron Transport in Solid Density Matter using an X-ray Free Electron Laser

Applied Physics Letters

44822	Yoshitaka Ehara	121 (2022) 262901	2018B4900	BL15XU	舟窪 浩	Film Thickness Dependence of In-Plane Ferroelastic Domain Structure in Constrained Tetragonal PbTiO ₃ Films Induced by Isotropic Tensile Strain
			2019B4905	BL15XU	舟窪 浩	
			2020A4950	BL15XU	小寺 正徳	
			2021A1160	BL13XU	白石 貴久	
44906	Yuya Kubota	122 (2023) 092201	2022A8072	BL3	富樫 格	Suppression of Atomic Displacive Excitation in Photo-induced A _{1g} Phonon Mode of Bismuth Unveiled by Low-temperature Time-resolved X-ray Diffraction
			2021B8054	BL3	久保田 雄也	
			2021A8061	BL3	久保田 雄也	
			2020A8070	BL3	富樫 格	
			2019B8045	BL3	久保田 雄也	
			2019A8065	BL3	久保田 雄也	
			2018B8011	BL3	久保田 雄也	
理研	BL19LXU					
45005	Yongzhao Yao	121 (2022) 012105	2022B3055	BL24XU	姚 永昭	Large-area Total-thickness Imaging and Burgers Vector Analysis of Dislocations in β -Ga ₂ O ₃ using Bright-field X-ray Topography Based on Anomalous Transmission

Chemical Science

44757	Shintaro Kato	14 (2023) 613-620	2020A1426	BL01B1	原田 隆史	Selective and High-rate CO ₂ Electroreduction by Metal-doped Covalent Triazine Frameworks: a Computational and Experimental Hybrid Approach
			2021A1294	BL01B1	神谷 和秀	
			2021B1204	BL01B1	神谷 和秀	
			2022A1165	BL01B1	神谷 和秀	
44768	Kazuki Shun	13 (2022) 8137-8147	2020A1062	BL01B1	森 浩亮	Revealing Hydrogen Spillover Pathways in Reducible Metal Oxides
			2020A0523	BL01B1	森 浩亮	
44945	Tetsuo Katayama	14 (2023) 2572-2584	2018B8062	BL3	片山 哲夫	Atomic-scale Observation of Solvent Reorganization Influencing Photoinduced Structural Dynamics in a Copper Complex Photosensitizer

Inorganic Chemistry

44701	Yu-Ting Tseng	62 (2023) 769-781	2020A1450	BL19LXU	Lauterbach Lars	Substrate-Gated Transformation of a Pre-Catalyst into an Iron-Hydride Intermediate [(NO) ₂ (CO)Fe(μ -H)Fe(CO)(NO) ₂] ⁻ for Catalytic Dehydrogenation of Dimethylamine Borane
44810	Xin Zheng	62 (2023) 1257-1263	2016B3631	BL14B1	加藤 優	Composite with a Glassy Nonporous Coordination Polymer Enhances Gas Adsorption Selectivity
			2017A3631	BL14B1	加藤 優	
44830	Kazushige Ueda	62 (2023) 2146-2152	2021A1672	BL14B2	植田 和茂	Effects of Codoping on Site-Dependent Eu ³⁺ Luminescence in Perovskite-Type Calcium Zirconate and Hafnate

Journal of Physics: Conference Series

44707	Yoshiyuki Ohtsubo	2380 (2022) 012037	2021B1322	BL25SU	大坪 嘉之	Design of Nano-spintronics Beamline at 3-GeV Next-generation Synchrotron Radiation Facility, NanoTerasu
44779	Kentaro Uesugi	2380 (2022) 012120	2021B1474	BL20B2	上杉 健大朗	Demonstration of the X-ray Imaging Capabilities of the Newly Installed Multilayer Monochromator at SPRING-8 BL20B2
			2018B2040	BL20B2	上杉 健大朗	
			2021A2084	BL20B2	上杉 健大朗	
45027	Shinji Kitao	2380 (2022) 012136	2019B1491	BL09XU	北尾 真司	Development of Time- and Energy-Resolved Synchrotron-Radiation-Based Mössbauer Spectroscopy
			2019B3581	BL11XU	瀬戸 誠	
			2020A1583	BL09XU	北尾 真司	
			2021B1699	BL35XU	北尾 真司	

Scientific Reports

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
44816	Kentaro Yoshiwara	13 (2023) 1920	2022B2534	BL45XU	渡辺 誠也	Molecular Evolutionary Insight of Structural Zinc Atom in Yeast Xylitol Dehydrogenases and its Application in Bioethanol Production by Lignocellulosic Biomass
44892	Elisabetta Nocerino	12 (2022) 21657	2019B1792	BL02B2	Nocerino Elisabetta	Nuclear and Magnetic Spin Structure of the Antiferromagnetic Triangular Lattice Compound LiCrTe ₂ Investigated by μ^+ SR, Neutron and X-ray Diffraction
44895	Satoshi Abe	12 (2022) 16031	2019A2561	BL32XU	安部 聡	Cell-free Protein Crystallization for Nanocrystal Structure Determination
			2020A2541	BL32XU	安部 聡	
			2021B2744	BL32XU	安部 聡	

ACS Applied Materials & Interfaces

44870	Yuji Yoshiyama	15 (2023) 5293-5300	2019B1845	BL14B2	細川 三郎	Reactivity of Lattice Oxygen in Ti-Site-Substituted SrTiO ₃ Perovskite Catalysts
			2021B1369	BL01B1	細川 三郎	
			2022A1328	BL01B1	細川 三郎	
45062	Kazuhiko Mukai	15 (2023) 15605-15615	2020A7037	BL33XU	宇山 健	Toward Improving the Thermal Stability of Negative Electrode Materials: Differential Scanning Calorimetry and In Situ High-Temperature X-ray Diffraction/X-ray Absorption Spectroscopy Studies of Li ₂ ZnTi ₃ O ₈ and Related Compounds

ACS Catalysis

44770	Yoshifumi Kondo	12 (2022) 14825-14835	2021B1090	BL01B1	桑原 泰隆	Boosting Photocatalytic Hydrogen Peroxide Production from Oxygen and Water Using a Hafnium-Based Metal–Organic Framework with Missing-Linker Defects and Nickel Single Atoms
			2021B1096	BL01B1	森 浩亮	
44793	Haifeng Wang	11 (2021) 8576-8584	2019A1522	BL01B1	宍戸 哲也	Ag Size/Structure-Dependent Effect on Low-Temperature Selective Catalytic Oxidation of NH ₃ over Ag/MnO ₂

ACS Omega

44800	Takahiro Iwai	8 (2023) 4285-4293	2019B1279	BL43IR	瀬戸 康雄	Forensic Discrimination of Drug Powder Based on Drug Mixing Condition Determined Using Micro Fourier Transform Infrared Spectroscopy
			2020A1326	BL43IR	瀬戸 康雄	
			2021A1247	BL43IR	瀬戸 康雄	
			2021B1328	BL43IR	瀬戸 康雄	
			2022A1208	BL43IR	瀬戸 康雄	
45033	Takahiro Sawahara	8 (2023) 11288-11292	2022A1697	BL25SU	片岡 範行	Synthesis and Characterization of a Trigonal Layered Compound AgInS ₂

Acta Crystallographica Section D

44782	Shipeng Wang	70 (2014) 196-202	2011A1915	BL32XU	田之倉 優	A Novel Mode of Ferric Ion Coordination by the Periplasmic Ferric Ion-binding Subunit FbpA of an ABC-type Iron Transporter from <i>Thermus thermophilus</i> HB8
44794	Phimonphan Chuankhayon	79 (2023) 154-167	2017B6600	BL44XU	Chen Chun Jung	Structural Insight into the Hydrolase and Synthase Activities of an Alkaline α -galactosidase from <i>Arabidopsis</i> from Complexes with Substrate/Product
			2017B6769	BL44XU	Chen Chun Jung	
			2018A6600	BL44XU	Chen Chun Jung	
			2018A6864	BL44XU	Chen Chun Jung	
			2018B6600	BL44XU	Chen Chun Jung	
			2018B6864	BL44XU	Chen Chun Jung	
			2019A6600	BL44XU	Chen Chun Jung	
			2019B6600	BL44XU	Chen Chun Jung	
2019B6971	BL44XU	Chen Chun Jung				

Acta Materialia

44868	Shunsuke Kitou	247 (2023) 118738	2019A0070	BL02B1	澤 博	Room-temperature Plastic Deformation Modes of Cubic ZnS Crystals
44943	Kouji Sakaki	234 (2022) 118055	2013A3703	BL22XU	町田 晃彦	Displacement of Hydrogen Position in Di-hydride of V-Ti-Cr Solid Solution Alloys
			2013B3783	BL22XU	Kim Hyunjeong	
			2015B3703	BL22XU	町田 晃彦	
			2015B3786	BL22XU	Kim Hyunjeong	
			2016B3751	BL22XU	町田 晃彦	
			2017A3784	BL22XU	Kim Hyunjeong	
2013B3703	BL22XU	町田 晃彦				

Angewandte Chemie International Edition

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
44896	Satoshi Abe	60 (2021) 12341-12345	2017B2566	BL32XU	安部 聡	Design of an In-Cell Protein Crystal for the Environmentally Responsive Construction of a Supramolecular Filament
			2018A2525	BL32XU	安部 聡	
			2019A2561	BL32XU	安部 聡	
44902	Mohd Taher	61 (2022) e202116623	2019A2563	BL45XU	安部 聡	Controlled Uptake of an Iridium Complex inside Engineered apo-Ferritin Nanocages: Study of Structure and Catalysis

Applied Catalysis B

44769	Kohsuke Mori	320 (2023) 122022	2020A1062	BL01B1	森 浩亮	Interplay of Pd Ensemble Sites Induced by GaO _x Modification in Boosting CO ₂ Hydrogenation to Formic Acid
			2021A1095	BL01B1	森 浩亮	
45004	Kiyoshi Yamazaki	325 (2023) 122352	2018A7036	BL33XU	山崎 清	NH ₃ Decomposition over Ru/CeO ₂ -PrO _x Catalyst under High Space Velocity Conditions for an on-site H ₂ Fueling Station

ChemElectroChem

44751	Stephanie F. Linnell	9 (2022) e202200929	2019B1604	BL27SU	Duda Laurent	Effect of Ti-Substitution on the Properties of P3 Structure Na ₂₃ Mn ₁₀ Li ₁₀ O ₂ Showing a Ribbon Superlattice
44753	Stephanie F. Linnell	9 (2022) e202200240	2021A1425	BL27SU	Duda Laurent	Enhanced Cycling Stability in the Anion Redox Material P3-Type Zn-Substituted Sodium Manganese Oxide

Chemical Communications

44785	Yu Kitamura	58 (2022) 11426-11429	2020A0554	BL02B1	田中 大輔	Data-driven Efficient Synthetic Exploration of Anionic Lanthanide-based Metal-organic Frameworks
			2020A1350	BL02B1	田中 大輔	
			2021A1140	BL02B1	田中 大輔	
			2021B1255	BL02B1	田中 大輔	
			2022A1164	BL02B1	田中 大輔	
45002	Yoshihiro Goto	58 (2022) 3210-3213	2021A7039	BL33XU	山崎 清	Enhanced Ammonia Synthesis Activity of Ru-supported Cerium-lanthanum Oxide Induced by Ti Substitution Forming Mesopores

Chemical Engineering Journal

44710	Can He	455 (2023) 140932	2018B1847	BL14B2	武田 隆史	Powder Synthesis and Luminescence of a Novel Yellow-emitting Ba ₅ Si ₁₁ Al ₇ N ₂₅ : Eu ²⁺ Phosphor Discovered by a Single-Particle-Diagnosis Approach for Warm w-LEDs
44880	Rio Akbar Yuwono	456 (2023) 141065	2019B4136	BL12B2	Wang Fu-Ming	Evaluation of LiNiO ₂ with Minimal Cation Mixing as a Cathode for Li-ion Batteries

CrystEngComm

44729	Wenxiong Zhang	25 (2023) 183-188	2017B7541	BL07LSU	朝倉 大輔	Facet-dependent Electrochemical Performance and Electronic Structure of LiCoO ₂ Polyhedral Particles Revealed by Microscopic Resonant X-ray Photoelectron Spectroscopy
			2019A7594	BL07LSU	細野 英司	
			2019B7462	BL07LSU	朝倉 大輔	
			2019B7470	BL07LSU	細野 英司	
			2020A7471	BL07LSU	細野 英司	
44844	Svetlana M. Posokhova	25 (2023) 835-847	2020A4501	BL15XU	Belik Alexei	K ₅ Eu(MoO ₄) ₄ Red Phosphor for Solid State Lighting Applications, Prepared by Different Techniques

Dalton Transactions

44911	Shingo Hattori	51 (2022) 15830-15841	2019A0159	BL02B1	西堀 英治	Luminescence Color Change of [3,4-difluoro-2,6-bis(5-methyl-2-pyridyl)phenyl-κ ³ N,C ¹ ,N ¹] cyanidoplatinum(II) by Aggregation
			2021B1140	BL02B1	西堀 英治	
			2019A0068	BL02B2	森吉 千佳子	
44912	Kenichiro Omoto	51 (2022) 17967-17972	2015A0074	BL02B2	森吉 千佳子	Thermally Responsive Morphological Changes of Layered Coordination Polymers Induced by Disorder/Ordering of Flexible Alkyl Chains
			2019A0159	BL02B1	西堀 英治	
			2019A0068	BL02B2	森吉 千佳子	

EES Catalysis

44756	Asato Inoue	1 (2023) 9-16	2020A1426	BL01B1	原田 隆史	Ultra-high-rate CO ₂ Reduction Reactions to Multicarbon Products with a Current Density of 1.7 A cm ⁻² in Neutral Electrolytes
			2021A1294	BL01B1	神谷 和秀	
			2021B1204	BL01B1	神谷 和秀	
			2022A1165	BL01B1	神谷 和秀	
44771	Kohsuke Mori	1 (2023) 84-93	2021B1096	BL01B1	森 浩亮	Boosting the Activity of PdAg Alloy Nanoparticles during H ₂ Production from Formic Acid Induced by CrO _x as an Inorganic Interface Modifier
			2022A1076	BL01B1	森 浩亮	
			2020A0523	BL01B1	森 浩亮	
			2020A1062	BL01B1	森 浩亮	

IUCrJ

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
44702	Ji Sung Koo	9 (2022) 625-631	2019B6972	BL44XU	Lee Bong Jin	The <i>Haemophilus influenzae</i> HipBA Toxin-antitoxin System Adopts an Unusual Three-component Regulatory Mechanism
44722	Lise Joost Stockler	10 (2023) 103-117	2018B8050	BL3	笠井 秀隆	Towards Pump-probe Single-crystal XFEL Refinements for Small-unit-cell Systems
			2019B8038	BL3	Iversen Bo	
			2021A8011	BL3	Iversen Bo	

Japanese Journal of Applied Physics

44762	Kentaro Kuga	62 (2023) SD1014	2019A1370	BL09XU	久我 健太郎	Valence Fluctuation in Yb ₃ Si ₅ Probed by Synchrotron X-ray Photoemission Spectroscopy
			2019B1440	BL09XU	藤原 秀紀	
			2020A0730	BL09XU	久我 健太郎	
			2020A1462	BL09XU	藤原 秀紀	
			2021B1346	BL09XU	藤原 秀紀	
			2022A1518	BL09XU	久我 健太郎	
			2022B1654	BL09XU	久我 健太郎	
			2022B1693	BL09XU	藤原 秀紀	
	理研	BL17SU				
44805	Ryosuke Ueda	62 (2023) 016501	2019A1396	BL28B2	呉 彦霖	Dynamical X-ray Phase Imaging of Polymer Materials under Laser Engraving
			2020A0683	BL28B2	百生 敦	
			2021A1261	BL28B2	百生 敦	

The Journal of Biochemistry

44727	Keito Hiragi	173 (2023) 317-326	2016B6643	BL44XU	水島 恒裕	Structural Insight into the Recognition of the Linear Ubiquitin Assembly Complex by <i>Shigella</i> E3 Ligase IpaH1.4/2.5
			2017A6753	BL44XU	水島 恒裕	
			2017B6753	BL44XU	水島 恒裕	
			2018A6849	BL44XU	水島 恒裕	
			2018B6849	BL44XU	水島 恒裕	
			2019A6949	BL44XU	水島 恒裕	
			2019B6949	BL44XU	水島 恒裕	
			2020A6549	BL44XU	水島 恒裕	
			2021A6640	BL44XU	水島 恒裕	
			2021B6640	BL44XU	水島 恒裕	
2022A6735	BL44XU	水島 恒裕				
44879	Tsukimi Iida	(2023) Online published 10 Feb. 2023	2015B1419	BL40B2	乾 隆	Thermodynamic Stability of Human Lipocalin-type Prostaglandin D Synthase under Various pH Conditions

The Journal of Physical Chemistry C

44872	Hankun Xu	126 (2022) 14735-14741	2021A1145	BL44B2	Lin Kun	Local Structure Manipulates Nonlinear Optical Properties in Non-stoichiometric Lithium Niobate
			2021A1129	BL08W	Lin Kun	
44908	Satoshi Hiroi	127 (2023) 4792-4798	2019B1813	BL08W	宇都野 太	Local Structural Analysis of Sulfide Polymer Electrolytes Prepared via I ₂ -Induced Polymerization of Li ₃ PS ₄
			2020A0704	BL08W	尾原 幸治	
			2020A1702	BL08W	宇都野 太	
			2020A1703	BL04B2	宇都野 太	
			2020A2053	BL04B2	尾原 幸治	
2021A2073	BL04B2	尾原 幸治				

Journal of Power Sources-1

44933	Kiyoshi Betsuyaku	565 (2023) 232893	2015B1800	BL17SU	小林 剛	Fading Analyses of Commercial Lithium-ion Batteries with Blended Cathodes using Synchrotron X-ray Diffraction Measurement and Discharge Curve Analysis
			2016A1446	BL17SU	小林 剛	
			2016A1567	BL14B2	小林 剛	
			2019A1581	BL17SU	小林 剛	
			2018B1469	BL27SU	小林 剛	
			2019A5350	BL16B2	野口 真一	
			2019B5350	BL16B2	野口 真一	
			2020A1327	BL27SU	小林 剛	
			2020A5350	BL16B2	野口 真一	
			2021B5051	BL16XU	野口 真一	
			2021B5351	BL16B2	野口 真一	

Journal of Power Sources-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
45055	Naoki Yamamoto	557 (2023) 232508	2019B3508	BL11XU	松村 大樹	Investigation of Hydrogen Superoxide Adsorption during ORR on Pt/C Catalyst in Acidic Solution for PEFC by <i>in-situ</i> High Energy Resolution XAFS
			2019A3508	BL11XU	松村 大樹	
			2020A3508	BL11XU	松村 大樹	
			2021A3508	BL11XU	松村 大樹	
			2021B3508	BL11XU	松村 大樹	
			2022A3508	BL11XU	松村 大樹	
			2022B3508	BL11XU	松村 大樹	
2022B3597	BL11XU	田中 裕久				

Journal of Synchrotron Radiation

44887	Masato Hoshino	30 (2023) 400-406	2019B1303	BL28B2	星野 真人	High-energy X-ray Micro-laminography to Visualize Microstructures in Dense Planar Objects
			2019B1304	BL20B2	星野 真人	
			2021A1262	BL20B2	星野 真人	
			2021B1398	BL20B2	星野 真人	
45025	Artoni Ang	30 (2023) 368-378	2015A1071	BL38B1	梅名 泰史	Development of Serial X-ray Fluorescence Holography for Radiation-sensitive Protein Crystals
			2016A2514	BL38B1	梅名 泰史	
			2017A2529	BL38B1	梅名 泰史	
			2018A1097	BL39XU	梅名 泰史	
			2017B1355	BL39XU	梅名 泰史	
			2018A2519	BL38B1	梅名 泰史	
			2018B1153	BL39XU	梅名 泰史	
			2019A1230	BL39XU	梅名 泰史	
			2019B1149	BL39XU	梅名 泰史	
			2019B1151	BL39XU	梅名 泰史	
			2016A1391	BL39XU	佐々木 裕次	
			2016B1328	BL39XU	佐々木 裕次	
2017A1137	BL39XU	佐々木 裕次				

Journal of the American Ceramic Society

44790	Takayuki Nakane	106 (2023) 2317-2325	2017A4508	BL15XU	名嘉 節	Influence of Fabrication Conditions on the Structural Characteristics and the Magnetic Properties of FeAl ₂ O ₄
44950	Masahide Kaneko	(2023) Online published 3 Mar. 2023	2020A1885	BL14B2	金子 雅英	Enhanced Li-ion Conductivity of Strontium Doped Li-excess Garnet-type Li _{7+x} La _{3-x} Sr _x Zr ₂ O ₁₂
			2021A1642	BL14B2	金子 雅英	

Journal of the American Chemical Society

44907	Yuki Nakaya	145 (2023) 2985-2998	2022A0302	BL01B1	中谷 勇希	Interstitial Carbon Dopant in Palladium-Gold Alloy Boosting the Catalytic Performance in Vinyl Acetate Monomer Synthesis
			2021A1571	BL01B1	中谷 勇希	
			2021B1795	BL01B1	中谷 勇希	
			2020A1609	BL14B2	古川 森也	
			2021B1962	BL14B2	Xing Feilong	
45072	Zheng Yin	144 (2022) 13021-13025	2019A1528	BL04B2	山室 修	Synergistic Stimulation of Metal-Organic Frameworks for Stable Super-cooled Liquid and Quenched Glass

Nucleic Acids Research

44700	Do-Hee Kim	50 (2022) 2319-2333	2019A6972	BL44XU	Lee Bong Jin	Role of PemI in the <i>Staphylococcus aureus</i> PemIK Toxin-Antitoxin Complex: PemI Controls PemK by Acting as a PemK Loop Mimic
44789	Kan Kobayashi	42 (2014) 12295-12305	2012B1146	BL32XU	塚崎 智也	The Non-canonical Hydroxylase Structure of YfcM Reveals a Metal Ion-coordination Motif Required for EF-P Hydroxylation
			2012B1161	BL41XU	石谷 隆一郎	

Optics Express

44712	Yasuhiko Shimotsuma	31 (2023) 1594-1603	2019A1060	BL13XU	下間 靖彦	Formation of NV Centers in Diamond by a Femtosecond Laser Single Pulse
44804	Takashi Kimura	30 (2022) 26220-26228	2021A7402	BL07LSU	木村 隆志	Soft X-ray Ptychography System using a Wolter Mirror for Achromatic Illumination Optics
			2021B7402	BL07LSU	木村 隆志	
			2022A7402	BL07LSU	木村 隆志	

Physical Review Research

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
44877	Yukio Kajihara	5 (2023) 013120	2008B1108	BL35XU	乾 雅祝	Experimental Observation of Mesoscopic Fluctuations to Identify Origin of Thermodynamic Anomalies of Ambient Liquid Water
45016	Yoshiki Kohmura	5 (2023) L012043	2018A1169	BL29XU	大和田 謙二	X-ray Two-beam Topography for Quantitative Derivation of Phase Shift by Crystalline Dislocations

Progress in Earth and Planetary Science

44725	Hisako Hirai	10 (2023) 3	2016A1660	BL10XU	門林 宏和	Significance of the High-pressure Properties and Structural Evolution of Gas Hydrates for Inferring the Interior of Icy Bodies
44818	Tomoaki Kubo	9 (2022) 21	2016B1358	BL04B1	久保 友明	Back-transformation Processes in High-pressure Minerals: Implications for Planetary Collisions and Diamond Transportation from the Deep Earth
			2018B1363	BL04B1	久保 友明	
			2019A1487	BL04B1	久保 友明	

RSC Advances

44802	Kosuke Watanabe	12 (2022) 24465-24470	2021B1050	BL14B2	関根 泰	Catalytic Selective Ethane Dehydrogenation at Low-temperature with Low Coke Formation
44803	Kaho Nagakawa	12 (2022) 25565-25569	2021A1617	BL14B2	関根 泰	Evaluating the Effects of OH-groups on the Ni Surface on Low-temperature Steam Reforming in an Electric Field
			2022A1802	BL14B2	関根 泰	

Small

44930	Aufandra C. Wardhana	(2023) Online published 20 Feb. 2023	2022A1669	BL14B2	足立 精宏	Direct Interfacial Excitation from TiO ₂ to Cu(II) Nanoclusters Enables Cathodic Photoresponse for Hydrogen Evolution under Visible-Light Irradiation
45017	Yingyao Zhang	19 (2023) 2206233	2022A1654	BL19B2	柴山 直之	Revealing the Enhanced Thermoelectric Properties of Controllably Doped Donor-Acceptor Copolymer: The Impact of Regioregularity
			2022A1777	BL19B2	柴山 直之	
			2022A1822	BL19B2	柴山 直之	

Accounts of Materials & Surface Research

44886	Shiho Yada	4 (2019) 69-80	2018A1688	BL40B2	矢田 詩歩	Development of Novel Nonionic Surfactants with the Aim of Environmental Load Reduction
			2017B1696	BL40B2	矢田 詩歩	
			2016A1669	BL40B2	矢田 詩歩	
			2015A1987	BL19B2	矢田 詩歩	
			2014B1767	BL40B2	矢田 詩歩	

ACS Macro Letters

44801	Takashi Konishi	12 (2023) 208-214	2022B1376	BL40B2	小西 隆士	Crystallization with Nodular Aggregation near the Glass Transition Temperature for Syndiotactic Polypropylene
			2021A1413	BL40B2	小西 隆士	
			2020A1113	BL40B2	小西 隆士	
			2020A1111	BL40B2	小西 隆士	
			2019B1318	BL40B2	小西 隆士	

Advanced Engineering Materials

44925	Gaku Okuma	(2023) Online published 21 Feb. 2023	2022A1115	BL20XU	大熊 学	3D Visualization of Morphological Evolution of Large Defects during Spark Plasma Sintering of Alumina Granules
			2021B1243	BL20XU	大熊 学	
			2020A0521	BL20XU	大熊 学	
			2019A1306	BL20XU	大熊 学	

Advanced Materials

44917	Sangwook Kim	35 (2023) 2208717	2021B1311	BL02B2	Kim Sangwook	Piezoelectric Actuation Mechanism Involving Extrinsic Nanodomain Dynamics in Lead-Free Piezoelectrics
			2022A1133	BL02B2	Kim Sangwook	
			2022B1842	BL02B2	Kim Sangwook	

Advanced Theory and Simulations

44942	Keishu Utimula	6 (2023) 2200613	2017B1634	BL02B2	矢野 正雄	Feature Space of XRD Patterns Constructed by an Autoencoder
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Analytical Sciences

45011	Toshio Yamaguchi	(2023) Online published 1 Mar. 2023	2019B1656	BL08W	山口 敏男	In situ Raman and X-ray Scattering of a Single Supersaturated Aqueous Mg(NO ₃) ₂ Droplet Ultrasonically Levitated
			2019A1603	BL08W	山口 敏男	
			2020A0771	BL08W	山口 敏男	

APL 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
44924	Rajkumar Modak	9 (2021) 031105	2020A4604	BL15XU	桜庭 裕弥	Combinatorial Tuning of Electronic Structure and Thermoelectric Properties in $\text{Co}_2\text{MnAl}_{1-x}\text{Si}_x$ Weyl Semimetals
			2020A4606	BL15XU	上田 茂典	
			2019B4604	BL15XU	桜庭 裕弥	

Applied Biochemistry and Biotechnology

44878	Misumi Kataoka	174 (2014) 1599-1612	2012A6704	BL44XU	石川 一彦	Crystal Structure of <i>Talaromyces cellulolyticus</i> (Formerly Known as <i>Acremonium cellulolyticus</i>) GH Family 11 Xylanase
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Applied Sciences

44832	Yoshiaki Kumagai	13 (2023) 2176	2014A8040	BL3	上田 潔	Ionization of Xenon Clusters by a Hard X-ray Laser Pulse
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Asian Journal of Organic Chemistry

44759	Sota Kuroyanagi	11 (2022) e202200423	2021A1345	BL40XU	山門 陵平	Synthesis of 3-(Phenylcarbonyl)-1 <i>H</i> -indazole Derivatives through Intramolecular Cyclization under Mild Conditions
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Batteries and Supercaps

44960	Riki Kataoka	6 (2023) e202200462	2022A3781	BL22XU	片岡 理樹	Improving Electrochemical Activity of P2-type $\text{Na}_{23}\text{Mn}_{23}\text{Ni}_{13}\text{O}_{22}$ by Controlling its Crystallinity
			2022A2015	BL14B2	片岡 理樹	

Biochemical and Biophysical Research Communications

44890	Daisuke Hira	526 (2020) 654-660	2019B6940	BL44XU	平 大輔	Unique Hexameric Structure of Copper-containing Nitrite Reductase of an Anammox Bacterium KSU-1
			2015A1123	BL26B1	平 大輔	

Biomacromolecules

44720	Tero Kämäräinen	24 (2023) 225-237	2021A1659	BL19B2	Tse Jun Yee	Tuning the Phytoglycogen Size and Aggregate Structure with Solvent Quality: Influence of Water-Ethanol Mixtures Revealed by X-ray and Light Scattering Techniques
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Biomaterials Science

44897	Mariko Kojima	11 (2023) 1350-1357	2019A2561	BL32XU	安部 聡	Engineering of an In-cell Protein Crystal for Fastening a Metastable Conformation of a Target Mini-protein
			2020A2541	BL32XU	安部 聡	

Bulletin of the Chemical Society of Japan

44961	Kiyohiro Adachi	(2023) Online published 16 Mar. 2023	2021B1856	BL14B2	中村 龍平	Hybrid Structure Analysis: Accurate and Precise Determination of the Structure Parameters of Mono- and Bimetallic Spinels by Iterative and Alternating Refinements of Powder X-ray Diffraction and X-ray Absorption Fine Structure
			2021B1892	BL14B2	足立 精宏	
			理研	BL44B2		

Chemical Geology

44936	Satoshi Okumura	621 (2023) 121372	2020A1433	BL20XU	奥村 聡	Molecular-scale Structural Changes of Silicate Melts under Tension Revealed by Time-resolved X-ray Diffraction
			2021A1081	BL47XU	奥村 聡	
			2021B1201	BL47XU	奥村 聡	
			2022A1259	BL47XU	奥村 聡	

Chemistry Letters

44826	Mamoru Kitaura	52 (2023) 190-193	2018A1085	BL01B1	北浦 守	Valence and Local Structure Analyses of Eu and Dy Ions in $\text{Sr}_2\text{MgSi}_2\text{O}_7$:Eu, Dy Long Persistent Phosphorescence Phosphors Synthesized by Solid State Reaction
			2021A1167	BL39XU	北浦 守	

Colloids and Surfaces A: Physicochemical and Engineering Aspects

44837	Keishi Akada	658 (2023) 130727	2020A7485	BL07LSU	赤田 圭史	Anisotropic Flocculation in Shear Thickening Colloid-polymer Suspension via Simultaneous Observation of Rheology and X-ray Scattering
			2021A1030	BL40XU	大久保 総一郎	
			2021B1044	BL40XU	大久保 総一郎	
			2021B1857	BL19B2	大久保 総一郎	
			2022A1032	BL40XU	大久保 総一郎	
			2022A1759	BL19B2	大久保 総一郎	

Communications 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
44920	Hiroyuki Kajiura	4 (2021) 215	2017A6748	BL44XU	松村 浩由	Structure-function Studies of Ultrahigh Molecular Weight Isoprenes Provide Key Insights into Their Biosynthesis
			2017A2570	BL26B1	松村 浩由	
			2017B6748	BL44XU	松村 浩由	
			2018A2719	BL32XU	吉澤 拓也	
			2018A6859	BL44XU	吉澤 拓也	

Communications Physics

44915	Min-Cheol Lee	5 (2022) 335	2019B8023	BL3	Li Jiarui	Ultrafast Signatures of Spin and Orbital Order in Antiferromagnetic α - Sr_2CrO_4
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Crystal Growth & Design

44958	Laura Bayés-García	28 (2023) 2870-2881	2022A1283	BL40B2	深尾 浩次	Crystallization and Transformation Behavior of Triacylglycerol Binary Mixtures Forming Molecular Compounds of POP/OPO, POP/ <i>rac</i> -PPO, and POP/ <i>sn</i> -PPO
			2022B1322	BL40B2	深尾 浩次	
			2020A1078	BL40B2	田口 健	
			2020A1111	BL40B2	小西 隆士	
			2020A1348	BL40B2	深尾 浩次	
			2021B1190	BL40B2	田口 健	
			2022B1548	BL40B2	田口 健	

e-journal of Surface Science and Nanotechnology

44901	Junya Kogo	20 (2022) 243-247	2019B1199	BL39XU	朝倉 清高	Angular Dependence of Multi-atom Resonant X-ray Raman Scattering
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ECS Transactions

45007	Zhuo Diao	103 (2021) 1745	2017B1562	BL05XU	八代 圭司	Evaluation of Reaction Mechanism of PCFC Composite Cathodes by Utilizing Patterned Thin Film Model Electrodes
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Electrochemistry

44761	Junji Iihara	91 (2023) 027001	2017A5330	BL16B2	徳田 一弥	XAFS Analysis of Sulfuric Acid Solution Related to the Effect of Bi in Suppressing the Disproportionation Reaction of Mn^{3+} in Mn/Ti Redox Flow Cells
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eLife

44932	Nanako Atsumi	(2023) Online published 28 Feb. 2023	2016A2534	BL41XU	山下 敦子	Chloride Ions Evoke Taste Sensations by Binding to the Extracellular Ligand-binding Domain of Sweet/Umami Taste Receptors
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Energy & Environmental Materials

44938	Hiroki Yamada	(2023) Online published 2 Mar. 2023	2018B1301	BL08W	Temleitner László	Lithium Ion Transport Environment by Molecular Vibrations in Ion-conducting Glasses
			2019A1371	BL04B2	増田 卓也	
			2020A0704	BL08W	尾原 幸治	
			2020A2053	BL04B2	尾原 幸治	
			2020A2135	BL04B2	尾原 幸治	
			2021A2073	BL04B2	尾原 幸治	
			2021B1362	BL04B2	尾原 幸治	

Energy & Fuels

44754	Charifa Hakim	36 (2022) 4015-4025	2019A1459	BL27SU	Duda Laurent	Anionic Redox and Electrochemical Kinetics of the $\text{Na}_2\text{Mn}_3\text{O}_7$ Cathode Material for Sodium-Ion Batteries
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Faraday Discussions

44781	Casey Van Stappen	(2023) Online published 31 Jan. 2023	2020A1413	BL19LXU	Van Stappen Casey	Structural Correlations of Nitrogenase Active Sites using Nuclear Resonance Vibrational Spectroscopy and QM/MM Calculations
			2019A1700	BL19LXU	Van Stappen Casey	

Fatigue and Fracture of Engineering Materials and Structures

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
44833	Fumiyoshi Yoshinaka	(2023) Online published 3 Feb. 2023	2020A0172	BL20XU	中村 孝	Characterization of Internal Fatigue Crack Initiation in Ti-6Al-4V Alloy via Synchrotron Radiation X-ray Computed Tomography
			2014A1020	BL20XU	中村 孝	
			2017B1421	BL20XU	中村 孝	
			2014A1459	BL20XU	中村 孝	

FEBS Letters

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
45013	Teruya Nakamura	(2023) Online published 13 Mar. 2023	2015B6551	BL44XU	山縣 ゆり子	Protonation States of Asp Residues in the Human Nudix Hydrolase MTH1 Contribute to its Broad Substrate Recognition
			2016B6650	BL44XU	山縣 ゆり子	
			2017A6761	BL44XU	山縣 ゆり子	

Forensic 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
44873	Shimpei Watanabe	33 (2023) 100480	2021A1275	BL02B1	渡邊 慎平	Single Crystal X-ray Analysis using the Crystalline Sponge Method for Direct Structure Determination of New and Earlier Synthetic Cannabinoids Including OXIZIDs, AKB48, and JWH-424 from a Trace Sample
			2021B1617	BL02B1	渡邊 慎平	
			2022A1198	BL02B1	渡邊 慎平	
			2022B1590	BL02B1	渡邊 慎平	

Frontiers in Plant 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
44719	Yasunori Saitoh	13 (2022) 982068	2021B6618	BL44XU	菅 倫寛	Structure and Function of a Silicic Acid Channel Lsi1
			2022A2717	BL41XU	菅 倫寛	

Fuel

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
44823	Weidi Huang	341 (2023) 127696	2021B1334	BL40XU	黄 魏迪	Spray Dynamics of Synthetic Dimethyl Carbonate and its Blends with Gasoline
			2022B1372	BL40XU	黄 魏迪	

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
44918	Masayuki Nishi	49 (2022) e2022GL098231	2021A1086	BL02B2	西 真之	Bridgmanite Freezing in Shocked Meteorites Due To Amorphization-Induced Stress

Hyperfine Interactions

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
44750	Ryo Masuda	244 (2023) 5	2021B3581	BL11XU	瀬戸 誠	Energy Domain Synchrotron-radiation-based Mössbauer Spectroscopy of EuH ₂ under a Few GPa Pressure
			2022A3581	BL11XU	瀬戸 誠	

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
45071	Toshiya Inami	59 (2023) 6000406	2019B3556	BL11XU	稲見 俊哉	Observation of Buried Magnetic Domains in Grain-Oriented Electrical Steel
			2019B3585	BL11XU	中田 崇寛	

International Journal of Cosmetic 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
44709	Makoto Uyama	45 (2023) 246-254	2021B1710	BL43IR	宇山 允人	Promotion of Glyoxylic Acid Penetration into Human Hair by Glycolic Acid
			2020A1636	BL43IR	宇山 允人	
			2019B1682	BL43IR	宇山 允人	

International Journal of Fatigue

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
44882	Isshin Ando	171 (2023) 107557	2019B1399	BL20XU	尾崎 由紀子	Quantitative Estimation of Contribution of Pore Size and the Distance between Nearest Neighbour Pores on High Cycle Fatigue (HCF) Crack Initiation in Ti-6Al-4V MIM-sintered Materials

International Journal of Hydrogen Energy

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
45032	Rama Srinivas Varanasi	48 (2023) 10081-10088	2020A3691	BL14B1	小山 元道	Phase Transformations and Microstructure Evolutions during Depressurization of Hydrogenated Fe-Mn-Si-Cr Alloy
			2021A3691	BL14B1	小山 元道	

International Journal of Molecular Sciences

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
44931	Yasushi Imamoto	24 (2023) 4963	2020A1371	BL40B2	今元 泰	Role of Monomer/Tetramer Equilibrium of Rod Visual Arrestin in the Interaction with Phosphorylated Rhodopsin
			2021A1287	BL40B2	今元 泰	
			2021B1337	BL40B2	今元 泰	
			2012B1307	BL40B2	今元 泰	
			2013A1136	BL40B2	今元 泰	
			2014B1219	BL40B2	今元 泰	

IOP Conference Series: Materials Science and Engineering

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
44957	Taka Narumi	1274 (2023) 012053	2019B1478	BL20XU	安田 秀幸	Observation of Grain Motion during Semisolid Deformation by using 4D-CT and 3DXRD
			2020A0737	BL20XU	鳴海 大翔	
			2020A1558	BL20XU	鳴海 大翔	

iScience

44726	Kohei Tsuji	25 (2022) 105365	2021A2725	BL41XU	長谷川 和也	Potent and Biostable Inhibitors of the Main Protease of SARS-CoV-2
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Journal of Applied Physics

44741	Tatsuo Fukuda	132 (2022) 245102	2020A3723	BL22XU	菫浦 敬久	Direct Energy Conversion using Ni/SiC Schottky Junction in ²³⁷ Np and ²⁴¹ Am Gamma Ray Regions
			2021A3721	BL22XU	菫浦 敬久	
			2021A3722	BL22XU	菫浦 敬久	
			2021A3731	BL22XU	小島 雅明	
			2021B3731	BL22XU	小島 雅明	
			2021B3732	BL22XU	福田 竜生	

Journal of Asian Ceramic Societies

44940	Keito Makise	11 (2023) 170-177	2018A1189	BL02B2	熊田 伸弘	Crystal Structure and Ion-exchange Property of a Lepidocrocite-like Sodium Titanate
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The Journal of Biological Chemistry

44718	Yoshiki Nakajima	298 (2022) 102668	2022A2717	BL41XU	菅 倫寛	Crystal Structures of Photosystem II from a Cyanobacterium Expressing <i>psbA₂</i> in Comparison to <i>psbA₃</i> Reveal Differences in the D1 Subunit
			2021B6618	BL44XU	菅 倫寛	
			2015B6522	BL44XU	菅 倫寛	
			2017A6724	BL44XU	菅 倫寛	
			2017B6724	BL44XU	菅 倫寛	
			2018B6822	BL44XU	菅 倫寛	

Journal of Catalysis

45003	Masashi Kikugawa	413 (2022) 934-942	2021B7039	BL33XU	山崎 清	Efficient Ammonia Synthesis over Ru/CeO ₂ -PrO _x Catalysts with Controlled Ru Dispersion by Ru-Pr Interaction
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Journal of Crystal Growth

44733	Hiroshi Takatsu	593 (2022) 126752	2020A0628	BL01B1	高津 浩	Single-crystal Thin Film Growth of the Mott Insulator EuVO ₃ under Biaxial Substrate Strain
			2019B1084	BL01B1	高津 浩	
			2019A1304	BL01B1	高津 浩	

Journal of Electron Spectroscopy and Related Phenomena

45035	Takehisa Konishi	264 (2023) 147314	2018B4910	BL15XU	小西 健久	Quantitative Analysis of Energy Loss Processes for the Core Level Intensities in Hard X-ray Photoemission
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Journal of Material Cycles and Waste Management

44992	Masaki Takaoka	(2023) Online published 17 Mar. 2023	2019B1019	BL37XU	高岡 昌輝	Microscopic Synchrotron X-ray Analysis of Mercury Waste in Simulated Landfill Experiments
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Journal of Materials Chemistry A

44755	Stephanie Linnell	10 (2022) 9941-9953	2021A1425	BL27SU	Duda Laurent	Enhanced Oxygen Redox Reversibility and Capacity Retention of Titanium-substituted Na ₄₇ [□ ₁₇ Ti ₁₇ Mn ₅₇]O ₂ in Sodium-ion Batteries
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Journal of Materials Chemistry C

45012	Mohammad Kassem	11 (2023) 4654-4673	2017B1771	BL04B2	Bychkov Evgeny	Glassy and Liquid Sb ₂ S ₃ : Insight into the Structure and Dynamics of a Promising Functional Material
			2022B1471	BL04B2	Bychkov Evgeny	

Journal of Physics 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
44791	Takashi Naka	6 (2022) 055001	2015B4505	BL15XU	名嘉 節	Slow Spin Dynamics in a CoM ₂ O ₄ A-site Spinel (M=Al, Ga, and Rh)
			2016B4505	BL15XU	名嘉 節	
			2018A4507	BL15XU	名嘉 節	

Journal of Physics: Condensed Matter

44748	Takumi Hasegawa	35 (2023) 114002	2006B1089	BL35XU	高畠 敏郎	Phonon Dispersion Curves in the Type-I Crystalline and Molten Clathrate Compound Eu ₈ Ga ₁₆ Ge ₃₀
			2016B1116	BL04B2	乾 雅祝	
			2016B1117	BL35XU	乾 雅祝	
			2017B1205	BL04B2	乾 雅祝	
			2017B1206	BL35XU	乾 雅祝	
			2018A1181	BL35XU	乾 雅祝	
			2019A1194	BL39XU	乾 雅祝	

Journal of Physics: Energy

44752	Stephanie Linnell	4 (2022) 044006	2021A1425	BL27SU	Duda Laurent	Effect of Cu Substitution on Anion Redox Behaviour in P3-type Sodium Manganese Oxides
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Journal of the Japan Petroleum Institute

44792	Katsutoshi Nomoto	65 (2022) 161-170	2017B1245	BL01B1	穴戸 哲也	Production of Hydrogen by the Autothermal Reforming of Methanol over Cu/ZnO/Al ₂ O ₃ -based Catalysts: Improved Durability and Self-activation Ability upon Pd-doping
			2019A1522	BL01B1	穴戸 哲也	

Langmuir

44765	Naoki Hashimoto	37 (2021) 5376-5384	2019B1091	BL01B1	森 浩亮	How the Morphology of NiO _x -Decorated CeO ₂ Nanostructures Affects Catalytic Properties in CO ₂ Methanation
			2019A1048	BL01B1	森 浩亮	

Macromolecules

44875	Noboru Osaka	56 (2023) 1419-1433	2019B1602	BL40B2	大坂 昇	Miscibility, Hierarchical Structures, and Enhanced Mechanical Properties of Acrylic Rubber by the Formation of a Chemically and Physically Crosslinked Partially Miscible Interpenetrating Polymer Network with Poly(vinylidene fluoride)
			2017A1192	BL40B2	大坂 昇	

Materials Advances

44900	Yanyan Zheng	4 (2023) 1005-1010	2019A0068	BL02B2	森吉 千佳子	<i>In situ</i> Observation of a Mechanically Induced Self-sustaining Reaction for Synthesis of Silver
			2021B1630	BL02B2	笠井 秀隆	
			2021B1775	BL02B2	藤田 知樹	
			2021B1783	BL02B2	Zheng Yanyan	
			2022A1231	BL02B2	笠井 秀隆	

Molecular Pharmacology

44999	Wataru Koizumi	103 (2023) Online published 22 Mar. 2023	2017A2514	BL26B1	伊原 誠	Determinants of Subtype-selectivity of the Anthelmintic Paraherquamide A on <i>Caenorhabditis elegans</i> Nicotinic Acetylcholine Receptors
			2018B2566	BL26B1	伊原 誠	

Molecules

44941	Toyoto Sato	28 (2023) 1256	2021B3694	BL14B1	佐藤 豊人	Hydrogen Absorption Reactions of Hydrogen Storage Alloy LaNi ₅ under High Pressure
			2022A3694	BL14B1	佐藤 豊人	
			2022B3694	BL14B1	佐藤 豊人	

Nano Letters

44959	Mami N. Fujii	23 (2023) 1189-1194	2021B1091	BL25SU	藤井 茉美	Atomic Imaging of Interface Defects in an Insulating Film on Diamond
			2020A634	BL25SU	藤井 茉美	

Natural Product Research

44913	Thu Thi Minh Quach	19 (2023) 498-506	2014B1937	BL19B2	湯口 宣明	Structure, Anticoagulant and Cytotoxic Activity of a Sulfated Polysaccharide from Green Seaweed <i>Chaetomorpha linum</i>
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Nature

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
45028	Thomas Gruhl	615 (2023) 939-944	2015B8043	BL3	Schertler Gebhard	Ultrafast Structural Changes Direct the First Molecular Events of Vision
			2018A8066	BL3	Schertler Gebhard	

Nature Chemical Biology

44780	Giorgio Caserta	19 (2023) 498-506	2019A1700	BL19LXU	Van Stappen Casey	Stepwise Assembly of the Active Site of [NiFe]-hydrogenase
			2019A1201	BL09XU	Caserta Giorgio	

Nature Materials

44889	Linglong Li	21 (2022) 1246-1251	2019B1201	BL17SU	Yu Pu	Manipulating the Insulator-metal Transition through Tip-induced Hydrogenation
			2019A1307	BL17SU	Yu Pu	

Organic & Biomolecular Chemistry

44937	Hang Xu	21 (2023) 1404-1410	2021B1176	BL01B1	満留 敬人	A Copper Nitride Nanocube Catalyst for Highly Efficient Hydroboration of Alkynes
			2022A1772	BL14B2	水垣 共雄	
			2021B1898	BL14B2	水垣 共雄	

Physical Chemistry Chemical Physics

44715	Hideshi Uematsu	25 (2023) 3867-3874	2021A1483	BL36XU	石黒 志	Nanoscale Domain Imaging of Li-rich Disordered Rocksalt-type Cathode Materials with X-ray Spectroscopic Ptychography
			2021B1566	BL37XU	石黒 志	

Physical Review A

44894	Mizuho Fushitani	107 (2023) L021101	2019B8046	BL1	伏谷 瑞穂	Capturing Transient Core-to-core Resonances in Kr in Intense Extreme-ultraviolet Laser Fields by Electron-ion Coincidence Spectroscopy
			2021A8052	BL1	伏谷 瑞穂	
			2021B8072	BL1	伏谷 瑞穂	

Physical Review Materials

44814	Naoki Ishimatsu	7 (2023) 024401	2018A1269	BL39XU	石松 直樹	Ferrimagnetic Coupling between Cobalt and Light Rare-earth Samarium Induced by Dense Hydrogenation of SmCo ₅ Permanent Magnet under High Pressures
			2019A1530	BL39XU	石松 直樹	
			2019B1514	BL39XU	石松 直樹	
			2020A1540	BL10XU	石松 直樹	
			2020A1486	BL39XU	石松 直樹	
			2021B1574	BL10XU	石松 直樹	

Physics and Chemistry of Minerals

44714	Gen-ichiro Yamamoto	50 (2023) 5	2021A3737	BL22XU	興野 純	Structural Variations of Amorphous Magnesium Carbonate during Nucleation, Crystallization, and Decomposition of Nesquehonite MgCO ₃ ·3H ₂ O
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Polymers

45022	Tasuku Nakajima	15 (2023) 1624	2019B1520	BL05XU	中島 祐	Mechanical Model for Super-Anisotropic Swelling of the Multi-Cylindrical PDGI/PAAm Gels
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Procedia Structural Integrity

44728	Yoshikazu Nakai	43 (2023) 221-227	2021B1887	BL46XU	中井 善一	Misorientation Measurement in Tensile Test of Bimodal Harmonic Structured Stainless Steel by Diffraction Contrast Tomography Using Ultrabright Synchrotron Radiation X-ray
			2020A1620	BL46XU	牧野 泰三	
			2019B1728	BL46XU	中井 善一	
			2019A1643	BL46XU	中井 善一	
			2018B1597	BL46XU	中井 善一	

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

44881	BongHeon Kim	119 (2022) e2209597119	2019B6973	BL44XU	Song HyunKyu	Crystal Structure of the Ate1 Arginyl-tRNA-protein Transferase and Arginylation of N-degron Substrates
			2020A6573	BL44XU	Song HyunKyu	

Progress in Nuclear Science and Technology

44935	Tohru Kobayashi	5 (2018) 74-77	2014B3504	BL11XU	塩飽 秀啓	Lanthanides Complexation Properties of O, N-hetero Donor Ligand PTA
			2015B3613	BL14B1	小林 徹	
			2016A3613	BL14B1	小林 徹	

Science

研究成果番号	著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
44922	Hisao Kobayashi	379 (2023) 908-912	2011A1450	BL09XU	小林 寿夫	Observation of a Critical Charge Mode in a Strange Metal
			2012B1521	BL09XU	小林 寿夫	
			2013B1393	BL09XU	小林 寿夫	
			2015A1458	BL09XU	小林 寿夫	
			2016A1363	BL09XU	小林 寿夫	
			2019B1597	BL09XU	小林 寿夫	
			2020A1553	BL09XU	小林 寿夫	
	理研	BL19LXU				

Soft Matter

44747	Maasa Yokomori	18 (2022) 6954-6964	2020A0809	BL40B2	田川 美穂	DNA-functionalized Colloidal Crystals for Macromolecular Encapsulation
			2021A1518	BL40B2	田川 美穂	
			2021B1615	BL40B2	田川 美穂	

軽金属 (Journal of Japan Institute of Light Metals)

45069	Ryoichi Oikawa	72 (2022) 411-419	2020A1531	BL20XU	清水 一行	Influence of Hydrogen on the Damage Behavior of IMC Particles in Al-Zn-Mg-Cu Alloys
			2020A1084	BL20XU	戸田 裕之	
			2021A1002	BL20XU	戸田 裕之	
			2021B1123	BL20XU	戸田 裕之	
			2021B1124	BL20XU	清水 一行	

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

44834	Hironori Morishita	71 (2022) 997-1004	2014A1020	BL20XU	中村 孝	Fatigue Life Distribution Analysis of α + β Titanium Alloy Based on the Initiation and Propagation Behaviors of Small Internal Cracks
			2014A1459	BL20XU	中村 孝	
			2020A0172	BL20XU	中村 孝	

セラミックス (Ceramics Japan)

44821	Satoru Fujita	58 (2023) 91-94	2021A7024	BL33XU	藤田 悟	SOFC Reliability Assurance by Quantum Beam Measurement Techniques (XAFS and μ XRD)
			2020A7024	BL33XU	藤田 悟	
			2019B7024	BL33XU	藤田 悟	
			2019A7024	BL33XU	藤田 悟	
			2018B7024	BL33XU	藤田 悟	
			2018A7024	BL33XU	藤田 悟	
			2017A7024	BL33XU	松尾 秀仁	
			2016B7024	BL33XU	藤田 悟	

溶射 (Journal of Japan Thermal Spray Society)

44809	Yasuhiro Yamazaki	60 (2023) 3-10	2020A1605	BL02B1	山崎 泰広	Internal Stress Distribution in Suspension Plasma Sprayed Thermal Barrier Coating Subjected to In-Plane Tensile Loading
			2021B1716	BL02B1	山崎 泰広	

博士論文 (大阪大学)

44711	Kengo Kasama	(2022)	2021B1905	BL14B2	笠間 建吾	固体触媒を活用した高光学純度の軸不斉ピアリアル類不斉合成法の開発
44927	Le Zhai	(2023)	2018A6830	BL44XU	中島 良介	Structure-based Analysis and Evolution of a Monomerized Red-colored Chromoprotein from the <i>Olinidias formosa</i> Jellyfish for Bioimaging
			2018B6830	BL44XU	中島 良介	
			2019A6928	BL44XU	中島 良介	
			2021B6624	BL44XU	中島 良介	
45074	Masato Ota	(2022)	2019B8071	BL2	坂和 洋一	Ultrafast Diagnostics for Relativistic Laser-Plasma Interaction
			2018B8047	BL2	坂和 洋一	
			2021A8036	BL2	坂和 洋一	

博士論文 (東京大学)

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
45000	Kiyohiro Adachi	(2023)	2021A2013	BL14B2	足立 精宏	Hybrid Structure Analysis: Precise Structure Determination of Metal Oxide Electrocatalysts by the Combination of X-ray Diffraction, Absorption, and Scattering
			2021A1664	BL14B2	中村 龍平	
			2021B1856	BL14B2	中村 龍平	
			2021B1892	BL14B2	足立 精宏	
			2021B1920	BL14B2	中村 龍平	
			2022A1045	BL14B2	中村 龍平	
			2022A1669	BL14B2	足立 精宏	
			2022A1761	BL14B2	中村 龍平	
			2022A1776	BL14B2	足立 精宏	
			2022B1667	BL14B2	足立 精宏	
				理研	BL44B2	
	理研	BL17SU				
45038	Ryusuke Misawa	(2023)	2021B7430	BL07LSU	木村 剛	Detection and Domain Observation of Orderings in Antiferromagnets by Resonant Diffraction using Circularly Polarized X rays

博士論文 (関西学院大学)

44990	Endah Kinarya Palupi	(2023)	2014B1806	BL27SU	塚越 一仁	Structural and Electronic Properties of Solution-Processed Amorphous Indium-Silicon-Oxide for High Performance Thin Film Transistors
			2014B1842	BL28B2	藤原 明比古	
			2015A1884	BL04B2	塚越 一仁	
			2015A1885	BL01B1	塚越 一仁	
			2016A1216	BL04B2	藤原 明比古	
			2016A1222	BL01B1	藤原 明比古	
			2016A1224	BL27SU	藤原 明比古	
			2016B1238	BL27SU	藤原 明比古	

博士論文 (京都大学)

45073	Kazuhiro Goto	(2023)	2020A5330	BL16B2	後藤 和宏	Changes of Fe Precipitates by Wire Drawing in Dilute Cu-Fe Alloys
			2019B5331	BL16B2	後藤 和宏	
			2018A5330	BL16B2	後藤 和宏	
			2017B5330	BL16B2	後藤 和宏	
			2022A2026	BL19B2	後藤 和宏	

課題以外の成果として登録された論文

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
44704	In-Gyun Lee	78 (2022) 424-434		BL44XU	Structural and Functional Analysis of the D-alanyl Carrier Protein Ligase DltA from <i>Staphylococcus aureus</i> Mu50
44731	Kudigana J. Pampa	70 (2014) 994-1004	理研	BL26B1	The First Crystal Structure of NAD-dependent 3-dehydro-2-deoxy-D-gluconate Dehydrogenase from <i>Thermus thermophilus</i> HB8
44735	Yoshitaka Kanoh	70 (2014) 1271-1280	理研	BL26B1	Structural Insight into Glucose Dehydrogenase from the Thermoacidophilic Archaeon <i>Thermoplasma volcanium</i>
44760	Do-Hee Kim	70 (2014) 3273-3289	理研	BL26B1	β -Arm Flexibility of HU from <i>Staphylococcus aureus</i> Dictates the DNA-binding and Recognition Mechanism
44811	Vladimir Timofeev	70 (2014) 1155-1165		BL41XU	3'-Azidothymidine in the Active Site of <i>Escherichia coli</i> Thymidine Phosphorylase: the Peculiarity of the Binding on the Basis of X-ray Study
44815	Eun Hye Lee	70 (2014) 922-931	理研	BL26B1	Structural Characterization and Comparison of the Large Subunits of IPM Isomerase and Homoaconitase from <i>Methanococcus jannaschii</i>
			理研	BL26B2	
44817	Truc Kim	70 (2014) 694-707		BL41XU	Structural Insights into the Molecular Mechanism of <i>Escherichia coli</i> SdiA, a Quorum-sensing Receptor

Biochemical and Biophysical Research Communications

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
44703	Hyun-Jong Eun	616 (2022) 19-25		BL44XU	The Structural and Functional Investigation of the VapBC43 Complex from <i>Mycobacterium tuberculosis</i>
44724	Yoko Kimata-Ariga	434 (2013) 867-872		BL44XU	Concentration-dependent Oligomerization of Cross-linked Complexes between Ferredoxin and Ferredoxin-NADP ⁺ Reductase
44736	Viswanathan Thiruselvam	446 (2014) 945-951	理研	BL26B1	Crystal Structure of the Single-stranded RNA Binding Protein HutP from <i>Geobacillus thermodenitrificans</i>
44777	Viswanathan Thiruselvam	453 (2014) 636-641	理研	BL26B2	Revelation of Endogenously Bound Fe ²⁺ Ions in the Crystal Structure of Ferritin from <i>Escherichia coli</i>
44824	Xusheng Kang	446 (2014) 965-970		BL41XU	Crystal Structure and Biochemical Studies of <i>Brucella melitensis</i> 5-methylthioadenosine/S-adenosylhomocysteine Nucleosidase
44835	Daohua Jiang	450 (2014) 929-935		BL41XU	Atomic Resolution Structure of the <i>E. coli</i> YajR Transporter YAM Domain
44909	Andrew Mugo	456 (2015) 35-40	理研	BL26B1	Crystal Structure of 5-formyl-3-hydroxy-2-methylpyridine 4-carboxylic Acid 5-dehydrogenase, an NAD ⁺ -dependent Dismutase from <i>Mesorhizobium loti</i>

The Journal of Biological Chemistry

44723	Nobutaka Fujieda	288 (2013) 22128-22140		BL44XU	Crystal Structures of Copper-depleted and Copper-bound Fungal Pro-tyrosinase Insights into Endogenous Cysteine-Dependent Copper Incorporation
44774	Shao-Chen Lee	289 (2014) 20170-20181	理研	BL26B2	Endocytotic Routes of Cobra Cardiotoxins Depend on Spatial Distribution of Positively Charged and Hydrophobic Domains to Target Distinct Types of Sulfated Glycoconjugates on Cell Surface
44812	Takayoshi Tagami	290 (2014) 1796-1803		BL41XU	Structural Advantage of Sugar Beet α -Glucosidase to Stabilize the Michaelis Complex with Long-chain Substrate
44813	Yumi Hayashi	289 (2014) 10530-10539		BL41XU	Roles of the Protruding Loop of Factor B Essential for the Localization of Lipoproteins (LoIB) in the Anchoring of Bacterial Triacylated Proteins to the Outer Membrane
44871	Kazuhiro Ohara	289 (2014) 24499-24510		BL44XU	Structural Insights into the Low pH Adaptation of a Unique Carboxylesterase from <i>Ferroplasma</i> Altering the pH Optima of Two Carboxylesterases

FEBS Open Bio

44734	Trung Thanh Thach	4 (2014) 672-682	理研	BL26B1	Adenylate Kinase from <i>Streptococcus pneumoniae</i> is Essential for Growth through its Catalytic Activity
44776	Yasuyuki Matoba	4 (2014) 834-847	理研	BL26B2	An Alternative Allosteric Regulation Mechanism of an Acidophilic L-lactate Dehydrogenase from <i>Enterococcus mundtii</i> 15-1A

Genes to Cells

44806	Tomoyuki Mori	19 (2014) 603-619		BL41XU	Structural Basis of DDB1-and-Cullin 4-associated Factor 1 (DCAF1) Recognition by Merlin/NF2 and its Implication in Tumorigenesis by CD44-mediated Inhibition of Merlin Suppression of DCAF1 Function
44819	Masahiro Nakagawa	19 (2014) 386-404		BL41XU	Mechanism of High-affinity Abscisic Acid Binding to PYL9/RCAR1

ACS Applied Energy Materials

44797	Preetha Chandrasekharan Meenu	5 (2022) 503-515	理研	BL36XU	Electro-Oxidation Reaction of Methanol over La _{2-x} Sr _x NiO _{4+δ} Ruddlesden-Popper Oxides
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ACS Medicinal Chemistry Letters

44838	Shingo Tojo	5 (2014) 1119-1123		BL41XU	Crystal Structures and Structure-Activity Relationships of Imidazothiazole Derivatives as IDO1 Inhibitors
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ACS Synthetic Biology

44874	Kento Koketsu	4 (2015) 383-392		BL44XU	Refined Regio- and Stereoselective Hydroxylation of L-Pipecolic Acid by Protein Engineering of L-Proline cis-4-Hydroxylase Based on the X-ray Crystal Structure
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Acta Crystallographica Section F

44743	Trung Thanh Thach	70 (2014) 1468-1471	理研	BL26B1	New Crystal Structures of Adenylate Kinase from <i>Streptococcus pneumoniae</i> D39 in Two Conformations
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Advanced Materials

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
44799	Viet-Hung Do	35 (2023) 2208860	理研	BL36XU	Pd-PdO Nanodomains on Amorphous Ru Metallene Oxide for High-Performance Multifunctional Electrocatalysis

Bioorganic and Medicinal Chemistry

44825	Tomoaki Hasui	22 (2014) 5428-5445		BL41XU	Discovery of 6-[5-(4-fluorophenyl)-3-methyl-pyrazol-4-yl]-benzoxazin-3-one Derivatives as Novel Selective Nonsteroidal Mineralocorticoid Receptor Antagonists
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Biophysical Chemistry

44808	K. Dhanalakshmi	293 (2023) 106946	理研	BL26B2	Crystal Structure Analysis of Pyrrolidone Carboxyl Peptidase from <i>Thermus thermophilus</i>
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Enzyme and Microbial Technology

44929	Jae-Woo Ahn	77 (2015) 29-37	理研	BL26B1	Crystal Structure of 1'-OH-carotenoid 3,4-desaturase from <i>Nonlabens dokdonensis</i> DSW-6
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The FEBS Journal

44904	Jiro Arima	283 (2016) 337-349	理研	BL26B1	Crystal Structure of D-stereospecific Amidohydrolase from <i>Streptomyces</i> sp. 82F2 – Insight into the Structural Factors for Substrate Specificity
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FEBS Letters

44828	Luc Bonnefond	588 (2014) 4478-4486		BL41XU	Crystal Structures of <i>Entamoeba histolytica</i> Lysyl-tRNA Synthetase Reveal Conformational Changes upon Lysine Binding and a Specific Helix Bundle Domain
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Inorganic Chemistry

44796	Takefumi Yoshida	61 (2022) 14067-14074		BL02B2	Hydrogen Bonding Propagated Phase Separation in Quasi-Epitaxial Single Crystals: A Pd-Br Molecular Insulator
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International Journal of Biological Macromolecules

44778	Sangwoo Kim	68 (2014) 151-157	理研	BL26B2	Crystal Structure and Thermodynamic Properties of D-lactate Dehydrogenase from <i>Lactobacillus jensenii</i>
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Journal of Medicinal Chemistry

44820	Jun Kunitomo	57 (2014) 9627-9643		BL41XU	Discovery of 1-[2-Fluoro-4-(1 <i>H</i> -pyrazol-1-yl)phenyl]-5-methoxy-3-(1-phenyl-1 <i>H</i> -pyrazol-5-yl)pyridazin-4(1 <i>H</i>)-one (TAK-063), a Highly Potent, Selective, and Orally Active Phosphodiesterase 10A (PDE10A) Inhibitor
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The Journal of Physical Chemistry C

44798	Takefumi Yoshida	126 (2022) 7973-7979	理研	BL36XU	Hidden Heterometallic Interaction Emerging from Resonant Inelastic X-ray Scattering in Luminescent Tb-Pt Molecules
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The Journal of Steroid Biochemistry and Molecular Biology

44836	Hiroshi Saitoh	148 (2015) 27-30		BL41XU	Synthesis and Biological Activities of Vitamin D ₃ Derivatives with Cyanoalkyl Side Chain at C-2 Position
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Journal of Virology

44934	Jingshan Ren	89 (2015) 10500-10511		BL41XU	Structures of Coxsackievirus A16 Capsids with Native Antigenicity: Implications for Particle Expansion, Receptor Binding, and Immunogenicity
			理研	BL26B1	

Molecular Cancer Therapeutics

44916	Yangmi Lim	15 (2016) 251-263	理研	BL26B1	GC1118, an Anti-EGFR Antibody with a Distinct Binding Epitope and Superior Inhibitory Activity against High-Affinity EGFR Ligands
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Molecular Pharmacology

44775	Makoto Ihara	86 (2014) 736-746	理研	BL26B2	Studies on an Acetylcholine Binding Protein Identify a Basic Residue in Loop G on the β_1 Strand as a New Structural Determinant of Neonicotinoid Actions
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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
44744	Eun Hyuk Jang	37 (2014) 719-726	理研	BL26B1	Kinetic and Structural Characterization for Cofactor Preference of Succinic Semialdehyde Dehydrogenase from <i>Streptococcus pyogenes</i>

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

44827	Kimiko Kuroki	111 (2014) 8877-8882		BL41XU	Structural Basis for Simultaneous Recognition of an <i>O</i> -glycan and its Attached Peptide of Mucin Family by Immune Receptor PILR α
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Protein & Cell

44738	Minghao Dang	5 (2014) 692-703	理研	BL26B1	Molecular Mechanism of SCARB2-mediated Attachment and Uncoating of EV71
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Science

44784	Hiroshi Suzuki	344 (2014) 304-307	理研	BL32XU	Crystal Structure of a Claudin Provides Insight into the Architecture of Tight Junctions
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Scientific Reports

44807	Yasumitsu Sakamoto	4 (2014) 4977		BL41XU	S46 Peptidases are the First Exopeptidases to be Members of Clan PA
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