

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 7 月～9 月に登録されたものを以下に紹介します。論文の情報 (主著者、巻、発行年、ページ、タイトル) に加え、データベースの登録番号 (研究成果番号) を掲載していますので、詳細は上記検索ページの検索結果画面でご覧いただくことができます。また実施された課題の情報 (課題番号、ビームライン、実験責任者名) も掲載しています。課題番号は最初の 4 文字が「year」、次の 1 文字が「term」、後ろの 4 文字が「proposal no.」となっていますので、この情報から以下の URL で公表している、各課題の英文利用報告書 (Spring-8 User Experiment Report) を探してご覧いただくことができます。

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

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 7 月～9 月に登録された論文が掲載された主な雑誌と掲載論文数

掲載雑誌	登録論文数	掲載雑誌	登録論文数
Scientific Reports	11	Chemical Communciations	4
The Journal of Physical Chemistry C	6	Japanese Journal of Applied Physics	4
Journal of the American Chemical Society	6	Journal of Synchrotron Radiation	4
Nature Communications	6	Journal of the Ceramic Society of Japan	4
Physical Review B	6	Proceedings of the National Academy of Sciences of the United States of America	4
The Journal of Biological Chemistry	5		
Angewandte Chemie International Edition	4	Protein Science	4

他全 117 誌、計 202 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

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
45602	Hideyuki Matsunami	6 (2016) 27399	2007B1500	BL41XU	今田 勝巳	Structural Flexibility of the Periplasmic Protein, FlgA, Regulates Flagellar P-ring Assembly in <i>Salmonella enterica</i>
45638	Ren Tomisawa	13 (2023) 11759	2019A7212	BL03XU	中田 克	Tensile Strength of Polyester Fiber Estimated by Molecular-chain Extension Prior to Structure Formation
45645	So Uezu	13 (2023) 10802	2017A8015	BL3	中迫 雅由	Ultrastructure and Fractal Property of Chromosomes in Close-to-native Yeast Nuclei Visualized using X-ray Laser Diffraction
			2017B8003	BL2	中迫 雅由	
45680	Sayoko Oiki	7 (2017) 17005	2016A2540	BL26B1	三上 文三	Alternative Substrate-bound Conformation of Bacterial Solute-binding Protein Involved in the Import of Mammalian Host Glycosaminoglycans
			2016A2574	BL38B1	橋本 渉	
			2016A2575	BL26B2	三上 文三	
			2016A2575	BL38B1	三上 文三	
45703	Akio Yoneyama	13 (2023) 12381	2021A5100	BL16XU	米山 明男	Three-dimensional Micro-X-ray Topography using Focused Sheet-shaped X-ray Beam
			2021B5100	BL16XU	米山 明男	
			2022A5100	BL16XU	米山 明男	
			2022B5100	BL16XU	米山 明男	
45767	Tomokazu Sano	13 (2023) 13796	2012A8053	BL3	佐野 智一	X-ray Free Electron Laser Observation of Ultrafast Lattice Behaviour under Femtosecond Laser-driven Shock Compression in Iron
			2012B8048	BL3	佐野 智一	
			2021B8031	BL3	佐野 智一	
			2022A8031	BL3	佐野 智一	
45784	Seiji Ishii	7 (2017) 4029	2015A1065	BL38B1	村川 武志	High-throughput Screening of Small Molecule Inhibitors of the <i>Streptococcus</i> Quorum-sensing Signal Pathway
45828	Hiroshi Yamaguchi	13 (2023) 16063	2014B1677	BL04B2	山口 展史	Structural Analysis and Ionic Conduction Mechanism of Sulfide-based Solid Electrolytes Doped with Br
			2022A2083	BL04B2	尾原 幸治	

Nature Communications

45574	Titouan Jaunet-Lahary	14 (2023) 1730	2012B1096	BL41XU	平井 照久	Structure and Mechanism of Oxalate Transporter OxIT in an Oxalate-Degrading Bacterium in the Gut Microbiota
			2015A1080	BL32XU	島村 達郎	
45596	Yasuaki Kabe	7 (2016) 11030	2011B1229	BL41XU	野村 紀通	Haem-dependent Dimerization of PGRMC1/Sigma-2 Receptor Facilitates Cancer Proliferation and Chemoresistance
			2012A1184	BL41XU	野村 紀通	
			2012B1253	BL41XU	野村 紀通	
45601	Kenji Tamasaku	14 (2023) 4262	2017B8034	BL3	玉作 賢治	Two-dimensional K β -K α Fluorescence Spectrum by Nonlinear Resonant Inelastic X-ray Scattering
			2018A8046	BL3	玉作 賢治	
			2018B8057	BL3	玉作 賢治	
			2019A8049	BL3	玉作 賢治	
			2020A8016	BL3	玉作 賢治	
			2021A8018	BL3	玉作 賢治	
45648	Katsumasa Irie	14 (2023) 4236	2016B2721	BL32XU	入江 克雅	The Structural Basis of Divalent Cation Block in a Tetrameric Prokaryotic Sodium Channel
			2017B2735	BL41XU	入江 克雅	
			2018B2710	BL41XU	入江 克雅	
			2016B2721	BL41XU	入江 克雅	
45744	Chengyi Yu	12 (2021) 4701	2018B1306	BL02B2	Xing Xianran	Plastic and Low-cost Axial Zero Thermal Expansion Alloy by a Natural Dual-phase Composite
			2018B1515	BL44B2	Lin Kun	
45745	Chengyi Yu	14 (2023) 3135	2019A1378	BL44B2	Lin Kun	Superior Zero Thermal Expansion Dual-phase Alloy via Boron-migration Mediated Solid-state Reaction
			2018B1515	BL44B2	Lin Kun	

Physical Review B-1

45625	Shunsuke Kitou	108 (2023) 024103	2019A0070	BL02B1	澤 博	Visualization of 4d Orbital Electrons in a Pyrochlore-type Oxide
			2021B1261	BL02B1	鬼頭 俊介	
45699	Hiroaki Hayashi	108 (2023) 075140	2021A1169	BL02B2	山浦 一成	Large Anomalous Hall Effect Observed in the Cubic-lattice Antiferromagnet Mn ₃ Sb with Kagome Lattice
			2022A1067	BL02B2	Belik Alexei	
			2022B1919	BL02B2	山浦 一成	
			2023A1496	BL02B2	Belik Alexei	
45701	Simone Altendorf	108 (2023) 085119	2022B4256	BL12XU	武上 大介	Electronic Structure of the Fe ²⁺ Compound FeWO ₄ : A Combined Experimental and Theoretical X-ray Photoelectron Spectroscopy Study

Physical Review B-2

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
45706	Yukiharu Takeda	108 (2023) 085129	2014B3821	BL23SU	竹田 幸治	Element-specific Insight into Ferromagnetic Stability in UCoGe Revealed by Soft X-ray Magnetic Circular Dichroism
			2015A3820	BL23SU	藤森 伸一	
			2015B3820	BL23SU	藤森 伸一	
			2016B3811	BL23SU	藤森 伸一	
			2017A3811	BL23SU	藤森 伸一	
			2017B3811	BL23SU	藤森 伸一	
			2018A3811	BL23SU	藤森 伸一	
			2020A3811	BL23SU	藤森 伸一	
45776	Ryo Okano	107 (2023) 205205	2018B3841	BL23SU	小林 正起	Ferromagnetism Induced by Hybridization of Fe 3d Orbitals with Ligand InSb Bands in the <i>n</i> -type Ferromagnetic Semiconductor (In,Fe)Sb
			2020A3841	BL23SU	小林 正起	
			2021A3841	BL23SU	小林 正起	
45806	Keita Kojima	108 (2023) 094107	2020A1063	BL02B2	片山 尚幸	Zigzag Chain Order of LiVSe ₂ Developing Away from the Vanadium Trimer Phase Transition Boundary
			2021A1111	BL10XU	片山 尚幸	
			2021A1117	BL44B2	片山 尚幸	
			2021B1136	BL02B2	片山 尚幸	
			2022A1167	BL02B2	片山 尚幸	

The Journal of Physical Chemistry C

45577	Kosuke Kawai	127 (2023) 12428-12434	2016A1161	BL27SU	朝倉 大輔	High-Voltage Electrochemical Properties of Lithium-Rich Spinel Oxides
			2016B1503	BL27SU	須田山 貴亮	
			2017B1328	BL27SU	須田山 貴亮	
			2018A1359	BL27SU	須田山 貴亮	
			2018B1514	BL27SU	須田山 貴亮	
45640	Takahiro Okuo	127 (2023) 14502-14509	2022B1474	BL40B2	松本 英俊	Magnesian Nafion-Based Gel Electrolytes: Structural and Electrochemical Characterization
45720	Naoya Yoshikane	127 (2023) 10375-10383	2017A4139	BL12B2	Prassides Kosmas	Isosymmetric Lattice Collapse in Mixed-Valence Rare-Earth Fullerenes at High Pressure—Coupling of Lattice and Electronic Degrees of Freedom
			2017B4132	BL12B2	Prassides Kosmas	
			2018A4133	BL12B2	Prassides Kosmas	
			2019B4125	BL12B2	Prassides Kosmas	
45807	Roman Svoboda	127 (2023) 16132-16147	2022A1315	BL01B1	Fons Paul	Formation of 2D-Structured InSe Ceramics from Amorphous Phase Deposited on a Kapton Foil
45841	Kohei Inagawa	127 (2023) 11542-11549	2021A3609	BL14B1	松村 大樹	Development of Hydrogen Oxidation Reaction Catalysts to Overcome CO Poisoning and Elucidation of Reaction Mechanism
			2021B3609	BL14B1	松村 大樹	
			2022A3609	BL14B1	松村 大樹	
			2022B3609	BL14B1	松村 大樹	
			2022B3630	BL14B1	田中 裕久	
			2023A3630	BL14B1	田中 裕久	

Journal of the American Chemical Society

45620	Yasuhiro Yamauchi	145 (2023) 16938-16947	2022A1767	BL14B2	植竹 裕太	Reversible Modulation of the Electronic and Spatial Environment around Ni(0) Centers Bearing Multifunctional Carbene Ligands with Triarylaluminum
			2020A1871	BL14B2	植竹 裕太	
			2021A1630	BL14B2	植竹 裕太	
			2022A1784	BL14B2	山内 泰宏	
45633	Hiroki Minamihara	145 (2023) 17136-17142	2022A1373	BL02B2	北川 宏	Continuous-Flow Chemical Synthesis for Sub-2 nm Ultra-Multielement Alloy Nanoparticles Consisting of Group IV to XV Elements
			2022B0598	BL13XU	北川 宏	
			2022A1394	BL46XU	北川 宏	
45676	Jinya Suzuki	145 (2023) 16398-16405	2021B3693	BL14B1	山本 隆文	Selective Synthesis of Perovskite Oxyhydrides Using a High-Pressure Flux Method
			2021A3693	BL14B1	Pan Zhao	
			2022B3693	BL14B1	山本 隆文	
			2022B1561	BL02B1	山本 隆文	
45685	Alisia Fadini	145 (2023) 15796-15808	2021A8006	BL3	van Thor Jasper	Serial Femtosecond Crystallography Reveals that Photoactivation in a Fluorescent Protein Proceeds via the Hula Twist Mechanism
			2019B8021	BL3	van Thor Jasper	
45760	Takuya Ohmi	145 (2023) 19759-19767	2021A1130	BL02B2	山本 隆文	Thiocyanate-Stabilized Pseudo-cubic Perovskite CH(NH ₂) ₂ PbI ₃ from Coincident Columnar Defect Lattices
			2021B1159	BL02B2	山本 隆文	
			2022A1191	BL02B2	山本 隆文	

Chemical Communications

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
45634	Masashi Nakamura	59 (2023) 9485-9488	2021B1202	BL02B2	北川 宏	B2-structured Indium-platinum Group Metal High-entropy Intermetallic Nanoparticles
			2022A1373	BL02B2	北川 宏	
45675	Jaehee Park	59 (2023) 7799-7802	2020A1014	BL27SU	内本 喜晴	Unique Li Deposition Behavior in Li ₃ PS ₄ Solid Electrolyte Observed via Operando X-ray Computed Tomography
			2020A1015	BL20XU	内本 喜晴	
			2021A1026	BL20XU	内本 喜晴	
45797	Yuko Shishido	53 (2017) 11138-11141	2015A1065	BL38B1	村川 武志	A Covalent G-site Inhibitor for Glutathione S-transferase Pi (GSTP ₁₋₁)
45808	Tomiko M. Suzuki	(2023) Online published 20 Sep. 2023	2021A7038	BL33XU	坂本 直柔	Highly Selective CO ₂ Electrolysis in Aqueous Media by a Water-soluble Cobalt Dimethyl-bipyridine Complex
			2021B7038	BL33XU	坂本 直柔	
			2022A7038	BL33XU	坂本 直柔	
			2022B7038	BL33XU	坂本 直柔	

Japanese Journal of Applied Physics

45631	Yasuhiro Yoneda	62 (2023) SM1006	2021A1134	BL04B2	米田 安宏	Local Structure Analysis of Bi _{0.5} Na _{0.5} TiO ₃ -BaTiO ₃ Solid Solutions
			2021B3801	BL23SU	吉越 章隆	
			2022A1192	BL04B2	米田 安宏	
			2022A3701	BL22XU	米田 安宏	
			2022B3701	BL22XU	米田 安宏	
			2021A3701	BL22XU	米田 安宏	
45639	Yuhei Kondo	62 (2023) SM1008	2021A1186	BL02B1	青柳 忍	X-ray Diffuse Scattering and Polar Nanoregion of a Relaxor Ferroelectric under Electric Field
			2021B1661	BL02B1	青柳 忍	
45796	Yoshiaki Maegawa	62 (2023) 090903	2020A1370	BL40B2	奥田 浩司	Small-angle X-ray Scattering Analysis on the In-plane Cluster Distribution during Heating Amorphous Mg ₈₅ Y ₉ Cu ₆ Alloys
			2022B1502	BL40B2	奥田 浩司	
45809	Mingyang Shao	62 (2023) SM1024	2021B1459	BL02B1	黒岩 芳弘	Crystal Structure of Heteroepitaxial BaTiO ₃ -KNbO ₃ Core-shell Nanocomposite Particles Studied by Synchrotron Radiation X-ray Diffraction
			2021B1252	BL02B2	黒岩 芳弘	
			2022A1172	BL02B2	黒岩 芳弘	
			2022B1834	BL02B2	黒岩 芳弘	

Journal of the Ceramic Society of Japan

45578	Masahide Kaneko	131 (2023) 270-274	2020A1885	BL14B2	金子 雅英	Investigation of Grain Boundary and Local Structure of Sr-doped LLZO with High Li-ion Conductivity
			2021A1642	BL14B2	金子 雅英	
45590	Yuma Yamada	131 (2023) 306-312	2017B1516	BL02B2	上野 慎太郎	Solvothetical Synthesis of Dispersible Homogeneous KNbO ₃ Nanocubes from K ₄ Nb ₅ O ₁₇ Microsheets
			2018A1492	BL02B2	上野 慎太郎	
45762	Naoki Shinyoshi	131 (2023) 575-580	2022B1890	BL14B2	植竹 裕太	Radiation-induced Synthesis of Carbon-supported Niobium Oxide Nanoparticle Catalysts and Investigation of Heat Treatment Conditions to Improve the Oxygen Reduction Reaction Activity
			2021B1717	BL14B2	植竹 裕太	
45795	Shugo Sakuraba	131 (2023) 216-222	2021B1470	BL04B2	萩原 学	Influence of Local Crystal Structure and Grain Size on Electronic Transport Properties of (La _{1-x/2} K _{x/2})TiO ₃ -based Thermoelectric Ceramics

ACS Applied Materials & Interfaces

45581	Takeyuki Sekimoto	15 (2023) 33581-33592	2020A5120	BL16XU	山田 周吾	Perovskite Solar Cell Using Isonicotinic Acid as a Gap-Filling Self-Assembled Monolayer with High Photovoltaic Performance and Light Stability
			2021A5120	BL16XU	山田 周吾	
			2021B5120	BL16XU	山田 周吾	
			2022A5120	BL16XU	山田 周吾	
45714	Shoma Kondo	15 (2023) 37837-37844	2022A1095	BL40B2	西村 智貴	Counteraction Engineering of Graphene-Oxide Nanosheets for Imparting a Thermoresponsive Ability
45755	Renato Belli Strozi	15 (2023) 38412-38422	2022B3782	BL22XU	榊 浩司	Elucidating Primary Degradation Mechanisms in High-Cycling-Capacity, Compositionally Tunable High-Entropy Hydrides

Applied Physics Letters-1

45594	Kakeru Ujimoto	123 (2023) 022407	2018B1384	BL25SU	白土 優	Direct Observation of Antiferromagnetic Domains and Field-induced Reversal in Pt/Cr ₂ O ₃ /Pt Epitaxial Trilayers
			2019A1200	BL25SU	白土 優	
			2020A1172	BL25SU	白土 優	
			2020A2046	BL25SU	小谷 佳範	
			2021B1206	BL25SU	白土 優	
			2022A1205	BL25SU	白土 優	
			2022B1247	BL25SU	白土 優	
			2022B2053	BL25SU	大河内 拓雄	

Applied Physics Letters-2

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
45604	Hisato Yamaguchi	122 (2023) 141901	2022B3831	BL23SU	山口 尚登	Work Function Lowering of LaB ₆ by Monolayer Hexagonal Boron Nitride Coating for Improved Photo- and Thermionic-cathodes
			2022A3831	BL23SU	山口 尚登	
			2021B3831	BL23SU	山口 尚登	
			2021A3831	BL23SU	山口 尚登	
			2021A3801	BL23SU	吉越 章隆	
			2021B3801	BL23SU	吉越 章隆	
			2022A3801	BL23SU	吉越 章隆	
45681	Masafumi Horio	123 (2023) 031602	2022A8056	BL1	Lawler Keith	Detecting Driving Potentials at the Buried SiO ₂ Nanolayers in Solar Cells by Chemical-selective Nonlinear X-ray Spectroscopy

The Journal of Biological Chemistry

45588	Kenji Fukui	291 (2016) 16990-17000	2015A1065	BL38B1	村川 武志	Structural Features and Functional Dependency on β -Clamp Define Distinct Subfamilies of Bacterial Mismatch Repair Endonuclease MutL
45779	Masao Inoue	292 (2017) 9801-9814	2014B1148	BL38B1	村川 武志	The Lon Protease-like Domain in the Bacterial RecA Paralog RadA is Required for DNA Binding and Repair
45815	Rei Tohda	296 (2021) 100217	2019A6500	BL44XU	山下 栄樹	Crystal Structure of Higher Plant Heme Oxygenase-1 and Its Mechanism of Interaction with Ferredoxin

Journal of Synchrotron Radiation

45647	Hidetaka Kasai	30 (2023) 555-560	2019A0068	BL02B2	森吉 千佳子	Synchrotron X-ray Powder Diffraction under High Pressures up to 33 MPa for Mechanoresponsive Materials
			2021B1630	BL02B2	笠井 秀隆	
			2021B1775	BL02B2	藤田 知樹	
45711	Yojiro Koda	30 (2023) 995-1002	2015B1508	BL20B2	築部 卓郎	Structural Properties in Ruptured Mitral Chordae Tendineae Measured by Synchrotron-based X-ray Phase Computed Tomography
			2016A1165	BL20B2	築部 卓郎	
			2017B1163	BL20B2	築部 卓郎	
			2019B1542	BL20B2	築部 卓郎	
45778	Akira Yasui	30 (2023) 1013-1022	2019A2069	BL09XU	保井 晃	BL09XU: an Advanced Hard X-ray Photoelectron Spectroscopy Beamline of SPring-8
			2019B2099	BL09XU	保井 晃	
			2020A2055	BL09XU	保井 晃	
			2020A2144	BL09XU	高木 康多	
			2021B2099	BL09XU	保井 晃	
2022A2080	BL09XU	保井 晃				

Physical Review Letters

45575	Kenji Ohta	130 (2023) 266301	2017A0072	BL10XU	廣瀬 敬	Measuring the Electrical Resistivity of Liquid Iron to 1.4 Mbar
45693	Hiroaki Tanaka	130 (2023) 186402	2020A0606	BL25SU	黒田 健太	Semiconducting Electronic Structure of the Ferromagnetic Spinel HgCr ₂ Se ₄ Revealed by Soft-X-Ray Angle-Resolved Photoemission Spectroscopy
			2019B1092	BL25SU	黒田 健太	
45757	Quynh L. Nguyen	131 (2023) 076901	2021A8037	BL3	Trigo Mariano	Ultrafast X-Ray Scattering Reveals Composite Amplitude Collective Mode in the Weyl Charge Density Wave Material (TaSe ₄) ₂

Proceedings of the National Academy of Sciences of the United States of America-1

45585	Takaaki Kato	120 (2023) e2215072120	2019A6500	BL44XU	山下 栄樹	Crystal Structures of Multidrug Efflux Transporters from <i>Burkholderia pseudomallei</i> Suggest Details of Transport Mechanism
			2019A6700	BL44XU	中川 敦史	
			2019B6500	BL44XU	山下 栄樹	
			2019B6700	BL44XU	中川 敦史	
			2020A6500	BL44XU	山下 栄樹	
			2020A6700	BL44XU	中川 敦史	
			2021A6500	BL44XU	山下 栄樹	
			2021A6700	BL44XU	中川 敦史	
			2021A6642	BL44XU	村上 聡	
			2021B6500	BL44XU	山下 栄樹	
			2021B6700	BL44XU	中川 敦史	

Proceedings of the National Academy of Sciences of the United States of America-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
45667	Chao Liu	120 (2023) e2221770120	2016B1091	BL04B1	芳野 極	Effect of Water on Seismic Attenuation of the Upper Mantle: The Origin of the Sharp Lithosphere–Asthenosphere Boundary
			2017B1175	BL04B1	芳野 極	
			2018B1071	BL04B1	芳野 極	
			2019B1071	BL04B1	芳野 極	
45749	Simon Miller	119 (2022) e2203936119	2019A6942	BL44XU	廣田 毅	CRY2 Isoform Selectivity of a Circadian Clock Modulator with Antiglioblastoma Efficacy
			2019B6942	BL44XU	廣田 毅	

Protein Science

45719	Toshiaki Hosaka	26 (2017) 1749-1758	2012A1332	BL32XU	保坂 俊彰	Crystal Structural Characterization Reveals Novel Oligomeric Interactions of Human Voltage-dependent Anion Channel 1
			2012B1453	BL32XU	保坂 俊彰	
45786	Monika Jain	31 (2022) e4312	2018B6600	BL44XU	Chen Chun Jung	Dimeric Assembly of Human Suv3 Helicase Promotes its RNA Unwinding Function in Mitochondrial RNA Degradosome for RNA Decay
			2018A6600	BL44XU	Chen Chun Jung	
			2017B6600	BL44XU	Chen Chun Jung	
			2017A6600	BL44XU	Chen Chun Jung	
45812	Debayan Dey	31 (2022) e4430	2021A6500	BL44XU	山下 栄樹	Crystal Structure and Reaction Mechanism of a Bacterial Mg- dechelatase Homolog from the Chloroflexi <i>Anaerolineae</i>

ACS Applied Energy Materials

45689	Yasushi Idemoto	6 (2023) 8327-8335	2021B1873	BL19B2	井手本 康	Rate Dependence of the Average Crystal Structure and Electronic Structure of 0.5Li ₂ MnO ₃ -0.5LiMn _{10/24} Ni _{7/24} Co _{7/24} O ₂ for a Lithium-Ion Battery Positive Electrode Material in Steady State
			2019B1882	BL19B2	井手本 康	
			2020A1728	BL19B2	井手本 康	
45694	Nozomu Ishiguro	6 (2023) 8306-8315	2021A1483	BL36XU	石黒 志	Comprehensive Operando Visualization of the Electrochemical Events in the Cathode/Anode Layers in Thin-Film-Type All- Solid-State Lithium-Ion Batteries
			2021B1566	BL37XU	石黒 志	
			2022A1430	BL37XU	石黒 志	
			2022B1491	BL37XU	石黒 志	

Advanced Engineering Materials

45793	Klaus-Dieter Liss	(2023) Online published 19 Aug. 2023	2013B3606	BL14B1	Liss Klaus Dieter	Abnormal Grain Growth: A Spontaneous Activation of Competing Grain Rotation
45804	Gavin Tay	62 (2023) e202305122	2021A1302	BL26B1	佐藤 宗太	Synthetic Modulation of an Unstable Dehydrosecodine-type Intermediate and Its Encapsulation into a Confined Cavity Enable Its X-ray Crystallographic Observation
			2020A0757	BL26B1	佐藤 宗太	

AIP Advances

45764	Keisuke Hirata	13 (2023) 035122	2021B1837	BL02B2	平田 圭佑	Significantly Reduced Lattice Thermal Conductivity with Anharmonic Lattice Vibrations and Band Edge Effect in Electronic Thermal Conductivity in Ag ₂ Si _{1-x} Se _x (0 ≤ x ≤ 0.6)
45765	Keisuke Hirata	13 (2023) 015016	2021B1837	BL02B2	平田 圭佑	Magneto-thermal Conductivity Effect and Enhanced Thermoelectric Figure of Merit in Ag ₂ Te

Biochimica et Biophysica Acta - Proteins and Proteomics

45788	Kuang-Lung Hsueh	1871 (2023) 140855	2018A6600	BL44XU	Chen Chun Jung	FeoC from <i>Klebsiella pneumoniae</i> Uses Its Iron Sulfur Cluster to Regulate the GTPase Activity of the Ferrous Iron Channel
			2018B6600	BL44XU	Chen Chun Jung	
			2017B6600	BL44XU	Chen Chun Jung	
			2017A6600	BL44XU	Chen Chun Jung	
45798	Kenji Fukui	1865 (2017) 1178-1187	2016A2522	BL38B1	村川 武志	Crystal Structure and DNA-binding Property of the ATPase Domain of Bacterial Mismatch Repair Endonuclease MutL from <i>Aquifex aeolicus</i>

Chemistry Letters

45582	Yusaku Araki	52 (2023) 533-537	2022B1609	BL01B1	吉田 真明	Hemispherical Cavity Cobalt Oxyhydroxides as Oxygen Evolution Electrocatalysts Electrodeposited in Borate-buffered Solution Using a Polystyrene Colloidal Template Method
45595	Yuna Yamaguchi	52 (2023) 542-545	2020A1117	BL02B1	久木 一朗	Construction of Hydrogen-bonded Crystalline Frameworks Using Tetrakis(carboxyphenyl)dimethyldihydropyrene Derivative
			2021B1180	BL40XU	久木 一朗	
			2022A1093	BL40XU	久木 一朗	

ChemSusChem

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
45619	Masakazu Murase	(2023) Online published 20 Jul. 2023	2021B7038	BL33XU	坂本 直柔	Reversible CO ₂ Fixation and Release by a Trinuclear Zn(II) Cryptate Complex and Operando Analysis of the Complex Structure
			2022A7038	BL33XU	坂本 直柔	
			2022B7038	BL33XU	坂本 直柔	
45691	Kohsuke Mori	16 (2023) e202300283	2021A1095	BL01B1	森 浩亮	Improved Low-Temperature Hydrogen Production from Aqueous Methanol Based on Synergism between Cationic Pt and Interfacial Basic LaO _x
			2021B1096	BL01B1	森 浩亮	
			2020A1062	BL01B1	森 浩亮	

FEBS Letters

45758	Takeshi Yokoyama	591 (2017) 1862-1871	2012B1086	BL41XU	帯田 孝之	Stability and Crystal Structures of His88 Mutant Human Transthyretins
			2013A1060	BL38B1	帯田 孝之	
			2013B1235	BL41XU	帯田 孝之	
			2014A1185	BL41XU	帯田 孝之	
45787	Haoliang Ke	591 (2017) 2470-2481	2016A2515	BL38B1	熊坂 崇	Structural Basis for Intramolecular Interaction of Post-translationally Modified H-Ras-GTP Prepared by Protein Ligation

Journal of Alloys and Compounds

45573	Alexei Belik	946 (2023) 169435	2011B4512	BL15XU	Belik Alexei	Possible Metal-insulator Transition in a Bismuth Iridium Oxide with the KSbO ₃ -type Structure
			2022A1067	BL02B2	Belik Alexei	
45754	Veronique Charbonnier	965 (2023) 171348	2019B3686	BL14B1	榎 浩司	Hydrogenation Behavior of a C14 Laves Phase under Ultra-high Hydrogen Pressure
			2020A3686	BL14B1	榎 浩司	
			2021B3686	BL14B1	榎 浩司	
			2021A3686	BL14B1	榎 浩司	
			2022A3686	BL14B1	榎 浩司	
			2022B3686	BL14B1	榎 浩司	

Journal of Applied Crystallography

45777	Yuki Watanabe	56 (2023) 461-467	2019A7218	BL03XU	川添 真幸	Anomalous Small-angle X-ray Scattering Analyses on Hierarchical Structures of Rubber-filler Systems
			2019B7267	BL03XU	川添 真幸	
			2020A7216	BL03XU	川添 真幸	
45791	James Birch	56 (2023) 1361-1370	2017B8041	BL2	Moraes Isabel	A Versatile Approach to High-density Microcrystals in Lipidic Cubic Phase for Room-temperature Serial Crystallography
			2018B8018	BL2	Moraes Isabel	

Materials Transactions

45686	Megumi Kawasaki	64 (2023) 1683-1694	2018B1219	BL02B1	Liss Klaus Dieter	Synchrotron High-Energy X-Ray & Neutron Diffraction, and Laser-Scanning Confocal Microscopy: <i>In-Situ</i> Characterization Techniques for Bulk Nanocrystalline Metals
45780	Yoichi Ikeda	64 (2023) 2254-2260	2020A3647	BL14B1	池田 陽一	Local Atomic Displacements and Sign of the Structural Transformation in Medium-Entropy Alloys Observed in Extended X-ray Absorption Fine Structure Spectra

Physical Review Materials

45704	Kouta Kazama	7 (2023) 085402	2022B2106	BL25SU	山神 光平	Charge Transport and Thermopower in the Electron-doped Narrow Gap Semiconductor Ca _{1-x} La _x Pd ₃ O ₄
			2022B1332	BL25SU	坂野 昌人	
			2022A2060	BL25SU	山神 光平	
45832	Phillip Bentley	7 (2023) 064404	2019A3551	BL11XU	境 誠司	Cubic-type Heusler Compound Mn ₂ FeGa Thin Film with Strain-induced Large Perpendicular Magnetic Anisotropy
			2019B3551	BL11XU	境 誠司	
			2020A3551	BL11XU	境 誠司	
			2021A3551	BL11XU	境 誠司	
			2021B3551	BL11XU	境 誠司	
			2022A3551	BL11XU	境 誠司	
			2022B3551	BL11XU	境 誠司	

Polymer

45668	Ryohei Ippitsu	283 (2023) 126225	2021B1351	BL40B2	比江嶋 祐介	<i>In-situ</i> Observation of Falling-weight Impact Damage in Isotactic Polypropylene Sheet
45753	Aika Kishimoto	284 (2023) 126303	2018B1088	BL40B2	寺尾 憲	Correlation between Conformational Feature in Solution and Chiral Separation Ability of Linear and Nonlinear Amylose Tris(alkylcarbamate)s
			2019A1072	BL40B2	寺尾 憲	
			2019B1113	BL40B2	寺尾 憲	

Polymer 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
45713	Naoki Ozawa	14 (2023) 3834-3842	2021A1065	BL40B2	西村 智貴	Exploring the Effects of Glyco-copolymer Architectures on the Solution Self-assembly of Amphiphilic Thermoresponsive Linear, Star, and Cyclic Polymers
			2021B1089	BL40B2	西村 智貴	
			2022A1095	BL40B2	西村 智貴	
			2022B1109	BL40B2	西村 智貴	
45794	Takuya Matsumoto	13 (2022) 5536-5544	2019A7209	BL03XU	和泉 篤士	Mechanical Properties and Structures under the Deformation of Thiophene Copolymers with Cyclic Siloxane Units
			2019B7259	BL03XU	和泉 篤士	
			2020A7208	BL03XU	和泉 篤士	
			2021A7208	BL03XU	和泉 篤士	
			2021B7258	BL03XU	和泉 篤士	
2022A7209	BL03XU	和泉 篤士				

Polymer Journal

45630	Eri Ito	(2023) Online published 25 Jul. 2023	2019A1779	BL46XU	伊藤 恵利	Evaluation of Pigment Distribution in Contact Lenses with Iris Patterns by Multiprobe Analysis Methods
			2019B1871	BL46XU	伊藤 恵利	
			2019B1910	BL46XU	伊藤 恵利	
			2020A1639	BL46XU	伊藤 恵利	
			2020A1741	BL46XU	伊藤 恵利	
45763	Daisuke Kawaguchi	55 (2023) 497-505	2021A1566	BL46XU	伊藤 恵利	Crystalline Structure, Molecular Motion and Photocarrier Formation in Thin Films of Monodisperse Poly(3-hexylthiophene) with Various Molecular Weights
			2021A7217	BL03XU	田村 雄児	
			2016B7273	BL03XU	小池 淳一郎	
			2016A7225	BL03XU	小池 淳一郎	

ACS Applied Nano Materials

45771	Kenji Shinozaki	5 (2022) 4281-4292	2018A1463	BL04B2	篠崎 健二	Ultrafast Nanocrystallization of BaF ₂ in Oxyfluoride Glasses with Crystal-like Nanostructures: Implications for Upconversion Fiber Devices
			2020A0701	BL08W	篠崎 健二	

ACS Catalysis

45688	Yunfei Gao	13 (2023) 10988-11000	2021A1557	BL14B2	内山 智貴	Origin of High Activity and Durability of Confined Ordered Intermetallic PtCo Catalysts for the Oxygen Reduction Reaction in Rotating Disk Electrode and Fuel Cell Operating Conditions
			2021B1036	BL01B1	内山 智貴	
			2021B1037	BL04B2	内山 智貴	
			2021B1038	BL37XU	内山 智貴	

ACS Energy Letters

45622	Wataru Yoshimune	8 (2023) 3485-3487	2022A7032	BL33XU	山口 聡	3D Water Management in Polymer Electrolyte Fuel Cells toward Fuel Cell Electric Vehicles
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ACS Omega

45818	Yuto Suga	8 (2023) 24078-24082	2023A1509	BL02B1	砂田 祐輔	Iron(II) Complex with a Silacycle-Bridged Biaryl-Based Ligand
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Acta Crystallographica Section F

45799	Hiroko Ikushiro	78 (2022) 408-415	2021A6652	BL44XU	生城 浩子	Crystal Structure of <i>Sphingobacterium multivorum</i> Serine Palmitoyltransferase Complexed with Tris-(hydroxymethyl)aminomethane
			2021B6652	BL44XU	生城 浩子	
			2022B6703	BL44XU	生城 浩子	
			2021B2540	BL26B1	生城 浩子	
			2021B2540	BL45XU	生城 浩子	

Advanced Materials

45775	Duc Anh Le	35 (2023) 2301347	2018A8064	BL1	小林 正起	Ultrafast Subpicosecond Magnetization of a 2D Ferromagnet
			2019A8001	BL1	小林 正起	
			2019B8060	BL1	小林 正起	
			2020A8063	BL1	小林 正起	

Advanced Materials Technologies

45743	Tokihiko Shimura	8 (2023) 2201992	2021B1106	BL40B2	松本 英俊	A High-Resolution, Transparent, and Stretchable Polymer Conductor for Wearable Sensor Arrays
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Advanced Science

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
45715	Shunsuke Kitou	(2023) Online published 18 Aug. 2023	2021B1261	BL02B1	鬼頭 俊介	Real-Space Observation of Ligand Hole State in Cubic Perovskite SrFeO ₃

Angewandte Chemie International Edition

45591	Rebecca Scatena	62 (2023) e202305994	2021A1169	BL02B2	山浦 一成	Hybrid Improper Ferroelectricity in Columnar (NaY)MnMnTi ₄ O ₁₂
			2021A1334	BL02B2	Belik Alexei	

Biochimica et Biophysica Acta - Bioenergetics

45810	Christoph Gerle	1864 (2023) 148986	2014A6500	BL44XU	山下 栄樹	Three Structures of PSI-LHCI from <i>Chlamydomonas reinhardtii</i> Suggest a Resting State Re-activated by Ferredoxin
			2014B6500	BL44XU	山下 栄樹	

Bioorganic and Medicinal Chemistry Letters

45682	Hajime Sugiyama	93 (2023) 129431	2021B6612	BL44XU	木下 誉富	Low Entropic Cost of Binding Confers High Selectivity on an Allosteric ERK2 Inhibitor
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CCS Chemistry

45846	Can Wang	5 (2023) 2159-2170	2022A1654	BL19B2	柴山 直之	D ^{3h} Symmetric Radical Donor-Acceptor Nanographene Modulated Interfacial Carrier Transfer for High-Performance Perovskite Solar Cells
			2022A1777	BL19B2	柴山 直之	
			2022A1822	BL19B2	柴山 直之	

Cellulose

45646	Tomoya Imai	30 (2023) 8423-8438	2023A1480	BL40B2	今井 友也	Disturbance of the Hydrogen Bonding in Cellulose by Bacterial Expansin
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Ceramic International

45572	Alexei Belik	49 (2023) 14327-14334	2019A4501	BL15XU	辻本 吉廣	Realization of Triple A-site Cation Ordering through the Dy/Mn/Zn Combination in the Ferrimagnetic Dy ₂ MnZnMn _{4-x} Ti _x O ₁₂ Perovskites
			2019B4500	BL15XU	山浦 一成	

ChemElectroChem

45583	Shunosuke Tanaka	10 (2023) e202300095	2021A1257	BL13XU	中村 将志	Hydrogen Evolution Reaction on AuNi Surface Alloy Formed on Single Crystal Au Electrodes
			2021B1488	BL13XU	中村 将志	

Chemical and Pharmaceutical Bulletin

45571	Keiji Nishiwaki	71 (2023) 558-565	2019A6913	BL44XU	木下 誉富	Design, Synthesis and Structure-Activity Relationship Studies of Protein Kinase CK2 Inhibitors Containing a Purine Scaffold
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Chemical Science

45707	Takeshi Hiromoto	14 (2023) 9306-9315	2018A2516	BL26B2	廣本 武史	New Insights into the Oxidation Process from Neutron and X-ray Crystal Structures of an O ₂ -sensitive [NiFe]-hydrogenase
			2014B1995	BL26B2	玉田 太郎	

Colloids and Surfaces A: Physicochemical and Engineering Aspects

45782	Takanori Takiue	676 (2023) 132318	2018A1250	BL37XU	瀧上 隆智	Effect of Line Tension on Domain Formation of Fluorinated Compounds at Alkane/Water Interface
			2019A1171	BL37XU	瀧上 隆智	
			2019B1191	BL37XU	瀧上 隆智	

Communications Biology

45814	Orkun Çoruh	4 (2021) 304	2014B6500	BL44XU	山下 栄樹	Cryo-EM Structure of a Functional Monomeric Photosystem I from <i>Thermosynechococcus elongatus</i> Reveals Red Chlorophyll Cluster
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Communications Chemistry

45785	Saeid Malek Zadeh	5 (2022) 87	2018B6600	BL44XU	Chen Chun Jung	β-Hydroxylation of α-amino-β-hydroxybutanoyl-glycyluridine Catalyzed by a Nonheme Hydroxylase Ensures the Maturation of Caprazamycin
			2018A6600	BL44XU	Chen Chun Jung	
			2017A6600	BL44XU	Chen Chun Jung	
			2017B6600	BL44XU	Chen Chun Jung	

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
45789	Kanae Tsujiata	25 (2023) 64-71	2020A1881	BL19B2	丸山 伸伍	Directional Lateral Crystallization of Vacuum-deposited C8-BTBT Thin Films via Liquid Crystal Phase by a Seeded Horizontal Temperature Gradient Cooling Technique

Current Research in Structural Biology

45811	Hiraku Kishimoto	5 (2023) 100101	2011B6500	BL44XU	山下 栄樹	Soluble Domains of Cytochrome <i>c</i> -556 and Rieske Iron-Sulfur Protein from <i>Chlorobaculum tepidum</i> : Crystal Structures and Interaction Analysis
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Earth and Planetary Science Letters

45598	Yoshio Kono	618 (2023) 118287	2018A1201	BL04B1	桑原 秀治	Strong Effect of Liquid Fe-S on Elastic Wave Velocity of Olivine Aggregate: Implication for the Low Velocity Anomaly at the Base of the Lunar Mantle
			2019A0069	BL04B1	河野 義生	

ECS Journal of Solid State Science and Technology

45790	Yota Matsuoka	12 (2023) 074006	2022B1569	BL19B2	丸山 伸伍	Ionic Liquid-Assisted Vacuum Deposition of Organic Ionic Plastic Crystal Thin Films
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Energy and AI

45834	Manabu Kodama	14 (2023) 100305	2022B1020	BL20XU	兒玉 学	Machine Learning Super-Resolution of Laboratory CT Images in All-Solid-State Batteries using Synchrotron Radiation CT as Training Data
			2022A1003	BL20XU	兒玉 学	
			2021B1005	BL20XU	兒玉 学	
			2021B1004	BL47XU	兒玉 学	
			2021A1017	BL47XU	兒玉 学	
			2020A1782	BL47XU	兒玉 学	

Epigenetics & Chromatin

45615	Takashi Urahama	9 (2016) 2	2011A1528	BL41XU	胡桃坂 仁志	Histone H3.5 Forms an Unstable Nucleosome and Accumulates around Transcription Start Sites in Human Testis
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F1000 Research

45750	Moeri Yagi	11 (2022) 1016	2019A6942	BL44XU	廣田 毅	A Methylbenzimidazole Derivative Regulates Mammalian Circadian Rhythms by Targeting Cryptochrome Proteins
			2019B6942	BL44XU	廣田 毅	

Frontiers in Microbiology

45587	Masaaki Nakashima	7 (2016) 00061	2011B1255	BL38B1	鈴木 淳巨	Unique Flap Conformation in an HIV-1 Protease with High-Level Darunavir Resistance
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Inorganic Chemistry

45783	Rie Horie	62 (2023) 10897-10904	2018B1427	BL25SU	堀江 理恵	Origin of Unexpected Ir ³⁺ in a Superconducting Candidate Sr ₂ IrO ₄ System Analyzed by Photoelectron Holography
			2019B1558	BL25SU	堀江 理恵	
			2021A1534	BL25SU	堀江 理恵	
			2019A1323	BL25SU	室 隆桂之	

The International Journal of Advanced Manufacturing Technology

45747	Daichi Yamaguchi	128 (2023) 1981-1990	2020A3422	BL08B2	山口 大地	X-ray Observation Study of the Influence of Binder Deposition on Sintering Process of Aluminum Binder Jetting
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International Journal of Molecular Sciences

45825	Takahiro Nakayama	24 (2023) 15423	2016A1102	BL40XU	中山 高宏	Comparison of the Molecular Motility of Tubulin Dimeric Isoforms: Molecular Dynamics Simulations and Diffracted X-ray Tracking Study
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JACS Au

45692	Naoki Hashimoto	3 (2023) 2131-2143	2022A1076	BL01B1	森 浩亮	Sub-nanometric High-Entropy Alloy Cluster: Hydrogen Spillover Driven Synthesis on CeO ₂ and Structural Reversibility
			2021B1096	BL01B1	森 浩亮	

The Journal of Biochemistry

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
45813	Keizo Yamamoto	173 (2023) 21-30	2021A6500	BL44XU	山下 栄樹	Structural Insights into the Substrate Specificity of IMP-6 and IMP-1 Metallo- β -lactamases

Journal of Crystal Growth

45616	Yasuo Nakayama	621 (2023) 127365	2022A1324	BL13XU	中山 泰生	Epitaxial Growth of Crystalline Thin-films of Perfluorinated Copper Phthalocyanine on the Single-crystal Copper Phthalocyanine
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Journal of Electron Spectroscopy and Related Phenomena

45664	Takuo Ohkouchi	267 (2023) 147371	2012B1429	BL25SU	大槻 匠	Present Status and Recent Progress of Research, using Photoemission-electron Microscopy at SPring-8
			2013A1421	BL17SU	大槻 匠	
			2011B1304	BL43IR	北島 富美雄	
			2012A1290	BL17SU	北島 富美雄	
			2012B1588	BL17SU	北島 富美雄	
			2013A1499	BL17SU	北島 富美雄	
			2013A1695	BL17SU	田中 真人	
			2013B1761	BL25SU	田中 真人	
			2014A1432	BL17SU	田中 真人	
2015A1887	BL17SU	堀田 善治				

Journal of Molecular Biology

45617	Rieko Kojima	428 (2016) 2392-2404	2014A1185	BL41XU	帯田 孝之	Structural Fine-Tuning of MIT-Interacting Motif 2 (MIM2) and Allosteric Regulation of ESCRT-III by Vps4 in Yeast
			2014B1451	BL38B1	帯田 孝之	
			2015A1038	BL41XU	帯田 孝之	
			2015A1038	BL26B1	帯田 孝之	

Journal of Non-Crystalline Solids

45774	Kana Tomita	597 (2022) 121891	2019B3645	BL14B1	矢野 哲司	Laser Heating Induced Spatial Homogenization of Phase Separated Na ₂ O-B ₂ O ₃ -SiO ₂ Glass Plate with Bearing NiO for Heat Center and Structural Probe
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Journal of Pharmaceutical Sciences

45593	Yukio Morimoto	105 (2016) 2298-2301	2006A1422	BL38B1	森本 幸生	Structural Insight Into Protein Binding of Boron Tracedrug UTX-97 Revealed by the Co-Crystal Structure With Lysozyme at 1.26 Å Resolution
			2011B1138	BL38B1	茶竹 俊行	
			2011A6647	BL44XU	森本 幸生	
			2011B6647	BL44XU	森本 幸生	

The Journal of Physical Chemistry Letters

45773	Ruilin Zheng	13 (2022) 7809-7815	2021B1413	BL08W	篠崎 健二	Reversible Phase Segregation and Amorphization of Mixed-Halide Perovskite Nanocrystals in Glass Matrices
			2022A1371	BL08W	篠崎 健二	

Journal of Physics and Chemistry of Solids

45772	Fumitaka Sato	161 (2022) 110377	2020A1793	BL01B1	篠崎 健二	Formation of Highly Dispersed Tin Nanoparticles in Amorphous Silicates for Sodium Ion Battery Anode
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Journal of Solid State Chemistry

45748	Takanori Itoh	327 (2023) 124274	2017B1625	BL04B2	伊藤 孝憲	Correlation among Crystal and Local Structure, Phase Transition, and Li-ion Conduction of Solid Electrolyte Li ₇ La ₃ Zr ₂ O ₁₂
			2017B1628	BL19B2	伊藤 孝憲	
			2017B1932	BL14B2	伊藤 孝憲	
			2018A1279	BL04B2	松井 雅樹	
			2018A1587	BL14B2	伊藤 孝憲	
			2018A1589	BL19B2	伊藤 孝憲	
			2019A5390	BL16B2	今井 英人	
			2019B5390	BL16B2	今井 英人	

Journal of the Physical Society of Japan

45641	Keiichiro Imura	92 (2023) 093701	2021B4252	BL12XU	井村 敬一郎	Variation of Pressure-Induced Valence Transition with Approximation Degree in Yb-Based Quasicrystalline Approximants
			2022A4257	BL12XU	井村 敬一郎	
			2022B4265	BL12XU	井村 敬一郎	

Journal of Wood 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
45709	Koji Murata	69 (2023) 25	2021A1192	BL40B2	村田 功二	Effect of Thermal Modification on the Stress Relaxation Behavior and Microstructure of the Cell Wall

JVS-Vascular Science

45717	Takateru Yamamoto	4 (2023) 100123	2016A1186	BL20B2	築部 卓郎	Mechanism of Sac Expansion without Evident Endoleak Analyzed with X ray Phase-contrast Tomography
			2016B1453	BL20B2	築部 卓郎	
			2018B1331	BL20B2	築部 卓郎	
			2021A1460	BL20B2	築部 卓郎	

Langmuir

45624	Yuma Sasaki	39 (2023) 9262-9272	2022A7201	BL03XU	廣澤 和	Nanoparticle-Based Tough Polymers with Crack-Propagation Resistance
			2022B7251	BL03XU	廣澤 和	

Life Science Alliance

45698	Kenji Fukui	6 (2023) e202302001	2016A2522	BL38B1	村川 武志	Catalytic Mechanism of the Zinc-dependent MutL Endonuclease Reaction
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Macromolecules

45629	Ken Terao	56 (2023) 5635-5641	2019B1113	BL40B2	寺尾 憲	Temperature-Induced Nanostructure Formation Behavior of Core Cross-Linked Star-Shaped Poly(<i>N</i> -isopropylacrylamide) in Water
			2020A1132	BL40B2	寺尾 憲	
			2020A0529	BL40B2	寺尾 憲	
			2021A1092	BL40B2	寺尾 憲	
			2021B1138	BL40B2	寺尾 憲	
			2021B1139	BL40B2	寺尾 憲	
			2022A1083	BL40B2	寺尾 憲	
			2022B1119	BL40B2	寺尾 憲	

Materials and Corrosion

45824	Masamitsu Takahashi	(2023) Online published 22 Sep. 2023	2020A5050	BL16XU	出口 博史	Corrosion Behavior of Carbon Steel Covered with a Coating Film Containing Metallic Compounds under a Sulfuric Acid Mist Environment Containing Chloride
			2021A5050	BL16XU	出口 博史	
			2021B5050	BL16XU	出口 博史	

Materials Today Sustainability

45690	Kohsuke Mori	22 (2023) 100407	2020A1062	BL01B1	森 浩亮	Selective Production of Hydrogen Isotope Gases via PdAg-catalyzed Dehydrogenation of Formic Acid in D ₂ O Assisted by Surface-grafted Amine Groups
			2021A1095	BL01B1	森 浩亮	

Matter and Radiation Extremes

45829	Sergey Makarov	8 (2023) 066601	2021A8004	BL3	Koenig Michel	Direct Imaging of Shock Wave Splitting in Diamond at Mbar Pressure
			2021B8002	BL3	Albertazzi Bruno	

Molecular Cancer Therapeutics

45643	Kohei Takano	22 (2023) 317-332	2019B2503	BL45XU	高橋 瑞稀	Discovery of a Novel ATP-Competitive MEK Inhibitor DS03090629 that Overcomes Resistance Conferred by BRAF Overexpression in BRAF-Mutated Melanoma
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Nature Chemistry

45830	Alexander M. Wolff	(2023) Online published 18 Sep. 2023	2017B8055	BL2	Thompson Michael	Mapping Protein Dynamics at High Spatial Resolution with Temperature-jump X-ray Crystallography
			2018A8023	BL2	岩田 想	

Nature Geoscience

45606	Hideharu Kuwahara	16 (2023) 461-465	2020A1313	BL27SU	桑原 秀治	Hadean Mantle Oxidation Inferred from Melting of Peridotite under Lower-mantle Conditions
			2021A1206	BL27SU	桑原 秀治	
			2022A1302	BL27SU	桑原 秀治	
			2021B1664	BL27SU	小池 みずほ	

Nature 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
45613	Clarisse Woodahl	22 (2023) 848-852	2019B8066	BL1	Schwartz Craig	Probing Lithium Mobility at a Solid Electrolyte Surface

Nature Structural and Molecular Biology

45716	Wataru Shihoya	24 (2017) 758-764	2015A1024	BL32XU	石谷 隆一郎	X-ray Structures of Endothelin ET _B Receptor Bound to Clinical Antagonist Bosentan and its Analog
			2015A1057	BL32XU	西澤 知宏	

Nucleic Acids Research

45614	Takao Yamaguchi	51 (2023) 7749-7761	2018B6801	BL44XU	青山 浩	Mechanism of the Extremely High Duplex-forming Ability of Oligonucleotides Modified with <i>N</i> - <i>tert</i> -butylguanidine- or <i>N</i> - <i>tert</i> -butyl- <i>N'</i> -methylguanidine-bridged Nucleic Acids
			2019A6901	BL44XU	青山 浩	

Optics Express

45618	Masaki Abe	31 (2023) 26027-26039	2022A1465	BL27SU	高橋 幸生	X-ray Ptychographic and Fluorescence Microscopy using Virtual Single-pixel Imaging Based Deconvolution with Accurate Probe Images
			2022A1377	BL27SU	金子 房恵	
			2022B1269	BL27SU	高橋 幸生	
			装置&技術	BL29XU		

Optics Letters

45831	Katsuhiro Mikami	48 (2023) 5041-5044	2020A8024	BL1	坂上 和之	Sub-nanometer Scale Depth Patterning on Sapphire Crystal by Femtosecond Soft X-ray Laser Pulse Irradiation
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Physical Chemistry Chemical Physics

45627	Nozomu Ishiguro	25 (2023) 17197-17206	2015A1125	BL37XU	石黒 志	Oxidation and Phase Transfer of Individual Cr-doped Dendritic FeO _x Particles Visualized by Full-field Nano-XAFS Spectroimaging
			2015A1599	BL37XU	石黒 志	
			2016B1330	BL37XU	唯 美津木	
			2017B1852	BL37XU	石黒 志	
			2018A1332	BL37XU	松井 公佑	
			2018B1343	BL37XU	石黒 志	
	理研	BL32B2				

Physics and Chemistry of Minerals

45570	Iori Yamada	50 (2023) 19	2017A1317	BL04B1	寺崎 英紀	Sound Velocity and Elastic Properties of Fe-Ni-S-Si Liquid: the Effects of Pressure and Multiple Light Elements
			2017B1270	BL04B1	西田 圭佑	
			2018A3781	BL22XU	寺崎 英紀	
			2018B1557	BL04B1	寺崎 英紀	
			2019B1403	BL04B1	寺崎 英紀	

Pure and Applied Chemistry

45845	Keichirou Ozawa	95 (2023) 733-741	2020A1451	BL02B2	長谷川 美貴	Dispersion Control by using a Bulky Surfactant Medium in the LB Films for the Enhancement of Linearly Polarized Luminescence of Eu Complexes
			2022B0571	BL02B2	長谷川 美貴	

Results in Chemistry

45610	Masahiko Maekawa	4 (2022) 100550	2021B2075	BL02B1	杉本 邦久	Syntheses and Structural Characterization of Heterometallic Trinuclear {Cu(I), Ag(I)}-Ir(III) Hydride Complexes Bridged by Ir Metalloligands
			2019A1262	BL02B1	杉本 邦久	
			2019A2071	BL02B1	杉本 邦久	
			2019B2092	BL02B1	杉本 邦久	

Review of Scientific Instruments

45752	Shintaro Kobayashi	94 (2023) 083103	2021A2068	BL02B2	河口 彰吾	<i>In situ</i> High Temperature Powder X-ray Diffraction Technique using a Sapphire Single-crystal Flat Cell
			2021B1315	BL02B2	小林 慎太郎	
			2021B2083	BL02B2	小林 慎太郎	
			2022A2077	BL02B2	小林 慎太郎	
			2022B2105	BL02B2	小林 慎太郎	

Science China 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
45746	Chengyi Yu	65 (2022) 1912-1919	2021A1145	BL44B2	Lin Kun	Two-dimensional Zero Thermal Expansion in Low-cost Mn _x Fe _{5-x} Si ₃ Alloys via Integrating Crystallographic Texture and Magneto-volume Effect
			2019A1378	BL44B2	Lin Kun	

日本化粧品技術者会誌 (Journal of the Society of Cosmetic Chemists of Japan)

45805	Junichiro Kamikado	57 (2023) 251-264	2018A3264	BL24XU	小林 翔	Mechanism of Frizz Phenomenon Occurring in Bleached Hair
			2018B3264	BL24XU	小林 翔	
			2019A3264	BL24XU	小林 翔	
			2019B3264	BL24XU	小林 翔	
			2020A3264	BL24XU	小林 翔	
			2022A3264	BL24XU	木村 洋則	

日本生物学的精神医学会誌 (Japanese Journal of Biological Psychiatry)

45579	Ryuta Mizutani	34 (2023) 63-67	2018B1187	BL37XU	水谷 隆太	Structural Alterations of Neurons Revealed from Postmortem Brain Tissues of Schizophrenia Cases
			2019A1207	BL20XU	水谷 隆太	
			2019B1087	BL37XU	水谷 隆太	
			2020A1163	BL20XU	水谷 隆太	
			2023A1142	BL20XU	水谷 隆太	

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

45718	Hiroshi Matsui	36 (2023) 185-193	2022B1134	BL43IR	松井 広志	Mechanism of Antiferroelectric Ordering in Superprotonic Conductor Cs ₃ H(SeO ₄) ₂
			2021B1199	BL43IR	松井 広志	
			2020A1098	BL43IR	松井 広志	
			2019A1081	BL43IR	松井 広志	

溶接学会論文集 (Quarterly Journal of the Japan Welding Society)

45600	Tomoya Nagira	41 (2023) 1s-5s	2020A1150	BL20XU	柳樂 知也	Elucidation of Solidification Mode of Fe-Mn-Si Alloy during TIG Spot Welding using Synchrotron X-ray
			2021A1121	BL20XU	柳樂 知也	
			2021B1152	BL20XU	柳樂 知也	
			2022A1096	BL20XU	柳樂 知也	

博士論文 (Oregon State University)

45687	Jae-Kyung Han	(2023)	2018B1219	BL02B1	Liss Klaus Dieter	Characterization of Heterostructured Nanocrystalline Metals Processed by High-Pressure Torsion
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博士論文 (兵庫県立大学)

45671	Satoshi Yamaguchi	(2023)	2017B7032	BL33XU	長井 康貴	Development of Imaging Techniques Using Synchrotron Radiation for Observation of Liquid Water in Gas Diffusion Layers of Polymer Electrolyte Fuel Cells
			2018A7032	BL33XU	長井 康貴	
			2018B7032	BL33XU	長井 康貴	
			2019A7032	BL33XU	山口 聡	

課題以外の成果として登録された論文

Bioorganic and Medicinal Chemistry

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
45592	Akane Kamiyama	24 (2016) 5340-5352		BL38B1	Phosphonate-based Irreversible Inhibitors of Human γ -glutamyl Transpeptidase (GGT). GGsTop is a Non-toxic and Highly Selective Inhibitor with Critical Electrostatic Interaction with an Active-site Residue Lys562 for Enhanced Inhibitory Activity
45650	Hitomi Yuki	25 (2017) 4259-4264	理研	BL26B2	Activity Cliff for 7-substituted Pyrrolo-pyrimidine Inhibitors of HCK Explained in Terms of Predicted Basicity of the Amine Nitrogen
45666	Yuichi Amano	25 (2017) 2617-2624	理研	BL26B2	Development and Crystallographic Evaluation of Histone H3 Peptide with N-terminal Serine Substitution as a Potent Inhibitor of Lysine-specific Demethylase 1

Scientific Reports

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
45611	Junko Morita	6 (2016) 20995		BL41XU	Structure and Biological Function of ENPP6, a Choline-specific Glycerophosphodiester-phosphodiesterase
45697	Shinsuke Niwa	7 (2017) 10681	理研	BL26B2	Structural Basis for CRMP2-induced Axonal Microtubule Formation
			理研	BL32XU	
				BL41XU	
45712	Taku Fukuzawa	7 (2017) 1080	理研	BL32XU	Long Lasting Neutralization of C5 by SKY59, a Novel Recycling Antibody, is a Potential Therapy for Complement-mediated Diseases

Structure

45589	Setsu Nakae	24 (2016) 1960-1971		BL44XU	Structure of the EndoMS-DNA Complex as Mismatch Restriction Endonuclease
				BL38B1	
45632	Chien-Chu Lin	24 (2016) 667-675		BL44XU	Structural Insights into the Allosteric Operation of the Lon AAA+ Protease
45635	Katsuhiko Kamada	25 (2017) 603-616	理研	BL26B2	Overall Shapes of the SMC-ScpAB Complex Are Determined by Balance between Constraint and Relaxation of Its Structural Parts
			理研	BL26B1	

Angewandte Chemie International Edition

45673	Hiromu Uehara	56 (2017) 15279-15283	理研	BL26B2	Structures of the Heme Acquisition Protein HasA with Iron(III)-5,15-Diphenylporphyrin and Derivatives Thereof as an Artificial Prosthetic Group
45674	Osami Shoji	56 (2017) 10324-10329	理研	BL26B2	Direct Hydroxylation of Benzene to Phenol by Cytochrome P450BM3 Triggered by Amino Acid Derivatives

Catalysis Science & Technology

45637	Hiroki Onoda	8 (2018) 434-442	理研	BL26B1	α -Oxidative Decarboxylation of Fatty Acids Catalysed by Cytochrome P450 Peroxygenases Yielding Shorter-alkyl-chain Fatty Acids
45679	Kazuto Suzuki	7 (2017) 3332-3338	理研	BL26B2	Control of Stereoselectivity of Benzylic Hydroxylation Catalysed by Wild-type Cytochrome P450BM3 using Decoy Molecules

The Journal of Biochemistry

45628	Ju Yaen Kim	160 (2016) 101-109		BL44XU	Structural and Mutational Studies of an Electron Transfer Complex of Maize Sulfite Reductase and Ferredoxin
45700	Ami Sotokawauchi	161 (2017) 45-53	理研	BL32XU	Structural Basis of Cucumisin Protease Activity Regulation by its Propeptide

The Journal of Biological Chemistry

45580	Toshiaki Hosaka	291 (2016) 17488-17495	理研	BL32XU	Structural Mechanism for Light-driven Transport by a New Type of Chloride Ion Pump, <i>Nonlabens marinus</i> Rhodopsin-3
45636	Tomoya Hino	292 (2017) 15804-15813	理研	BL26B1	Crystal Structures of TdsC, a Dibenzothiophene Monooxygenase from the Thermophile <i>Paenibacillus</i> sp. A11-2, Reveal Potential for Expanding its Substrate Selectivity

Nature

45576	Wataru Shihoya	537 (2016) 363-368	理研	BL32XU	Activation Mechanism of Endothelin ET _B Receptor by Endothelin-1
45705	Ieva Vasiliauskaitė-Brooks	544 (2017) 120-123	理研	BL32XU	Structural Insights into Adiponectin Receptors Suggest Ceramidase Activity

Archaea

45612	Ekaterina Yu. Bezsudnova	2016 (2016) 9127857		BL41XU	NADP-Dependent Aldehyde Dehydrogenase from Archaeon <i>Pyrobaculum</i> sp. 1860: Structural and Functional Features
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Biochemical and Biophysical Research Communications

45684	Kaori Yasuda	486 (2017) 336-341	理研	BL26B2	Production of an Active Form of Vitamin D ₂ by Genetically Engineered CYP105A1
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Biochemistry and Biophysics Reports

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
45649	Fumiaki Tomoike	11 (2017) 93-98	理研	BL26B2	Indispensable Residue for Uridine Binding in the Uridine-cytidine Kinase Family

Biochemistry Research International

45586	Midori Murakami	2016 (2016) 7560919	理研	BL44B2	Crystal Structures of Two Isozymes of Citrate Synthase from <i>Sulfolobus tokodaii</i> Strain 7
				BL38B1	

Biochimica et Biophysica Acta - Bioenergetics

45603	Sebastian Veit	1857 (2016) 1879-1891		BL41XU	Structural and Functional Characterisation of the Cyanobacterial PetC3 Rieske Protein Family
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Bioorganic and Medicinal Chemistry Letters

45642	Satoyuki Takahara	28 (2018) 441-445	理研	BL26B1	Design, Synthesis, and Evaluation of Novel Inhibitors for Wild-type Human Serine Racemase
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Cell

45623	Naoki Matsumoto	167 (2016) 484-497		BL41XU	Crystal Structure of Silkworm PIWI-Clade Argonaute Siwi Bound to piRNA
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Chemical Science

45626	Julian Esselborn	7 (2016) 959-968		BL44XU	A Structural View of Synthetic Cofactor Integration into [FeFe]-hydrogenases
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Extremophiles

45605	Konstantin Boyko	20 (2016) 215-225		BL41XU	First Structure of Archaeal Branched-chain Amino Acid Aminotransferase from <i>Thermoproteus uzoniensis</i> Specific for L-amino Acids and <i>R</i> -amines
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Faraday Discussions

45761	Sayaka Uto	198 (2017) 107-120		BL38B1	Mutual Relationships between Structural and Functional Changes in a PsbM-deletion Mutant of Photosystem II
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The FEBS Journal

45683	Marina Nawata	284 (2017) 3114-3127	理研	BL26B2	Heat-induced Native Dimerization Prevents Amyloid Formation by Variable Domain from Immunoglobulin Light-chain RE1
				BL38B1	

FEBS Letters

45621	Lisa Asano	590 (2016) 3270-3279		BL41XU	Regulation of the Vitamin D Receptor by Vitamin D Lactam Derivatives
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Genes to Cells

45665	Masamichi Nagae	22 (2017) 348-359	理研	BL26B2	3D Structural Analysis of Protein O-mannosyl Kinase, POMK, a Causative Gene Product of Dystroglycanopathy
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Journal of Chemical Information and Modeling

45696	Chiduru Watanabe	57 (2017) 2996-3010	理研	BL26B2	Theoretical Analysis of Activity Cliffs among Benzofuranone-Class Pim1 Inhibitors Using the Fragment Molecular Orbital Method with Molecular Mechanics Poisson-Boltzmann Surface Area (FMO+MM-PBSA) Approach
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The Journal of Physical Chemistry C

45597	Takanori Koitaya	127 (2023) 13044-13054	理研	BL36XU	Operando Characterization of Copper-Zinc-Alumina Catalyst for Methanol Synthesis from Carbon Dioxide and Hydrogen by Ambient-Pressure Hard X-ray Photoelectron Spectroscopy
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Journal of Synchrotron Radiation

45670	Yukio Takahashi	30 (2023) 989-994	装置&技術	BL29XU	High-resolution and High-sensitivity X-ray Ptychographic Coherent Diffraction Imaging using the CITIUS Detector
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Journal of the American Chemical Society

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
45644	Koji Oohora	139 (2017) 18460-18463	理研	BL26B1	Manganese(V)Porphycene Complex Responsible for Inert C-H Bond Hydroxylation in a Myoglobin Matrix

Molecular Cell

45672	Yuta Shinohara	67 (2017) 783-798	理研	BL26B2	Temperature-Sensitive Substrate and Product Binding Underlie Temperature-Compensated Phosphorylation in the Clock
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Physical Review X

45678	Daisuke Takegami	13 (2023) 011037		BL12XU	Paramagnetic LaCoO ₃ : A Highly Inhomogeneous Mixed Spin-State System
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Proceedings of the National Academy of Sciences of the United States of America

45584	Naoyuki Kuwabara	113 (2016) 9280-9285	理研	BL32XU	Carbohydrate-binding Domain of the POMGnT1 Stem Region Modulates O-mannosylation Sites of α -dystroglycan
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Protein Science

45756	Yasuyuki Matoba	26 (2017) 763-783		BL38B1	Crystallographic and Mutational Analyses of Cystathionine β -synthase in the H ₂ S-synthetic Gene Cluster in <i>Lactobacillus plantarum</i>
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X線分析の進歩 (Advances in X-ray Chemical Analysis, Japan)

45702	Haruko Yakumaru	54 (2023) 139-146		BL37XU	Cesium Distribution in Renal Tissues by High-Energy Synchrotron Radiation X-ray Fluorescence Analysis
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