

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、2024 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、以下の URL で検索することによりその課題の情報を閲覧することが可能です。

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

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

SPring-8 研究成果登録データベースに 2024 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
Physical Review B	10	Chemistry of Materials	5
Journal of the American Chemical Society	9	Construction and Building Materials	4
Nature Communications	7	The Journal of Biological Chemistry	4
Scientific Reports	7		

他全 167 誌、計 263 報

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

課題の成果として登録された論文

Physical Review B

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
46351	Macy Stavinocha	109 (2024) 035112	2020A4250	BL12XU	武上 大介	Conductive Surface States and Kondo Exhaustion in Insulating YbIr ₃ Si ₇
46363	Atsushi Yamasaki	109 (2024) 045131	2020A0630	BL39XU	山崎 篤志	Bulk Superconductivity in Pb-substituted BiS ₂ -based Compounds Studied by Hard X-ray Spectroscopy
			2019A1347	BL02B2	高瀬 浩一	
			理研	BL19LXU		
46364	Yasuhisa Tezuka	109 (2024) 035132	2018B4250	BL12XU	石井 啓文	Pressure-dependent Electronic Structure of the A-site Ordered Perovskite CaCu ₃ Ti ₄ O ₁₂ via X-ray Raman Scattering
46376	Veenavee Nipunika Kothalawala	109 (2024) 035139	2022A1454	BL08W	Barbiellini Bernardo	Compton Scattering Study of Strong Orbital Delocalization in a LiNiO ₂ Cathode
46412	Daisuke Urushihara	109 (2024) 024115	2018B1699	BL02B2	駒淵 舞	Structural Phase Transition and Spin State in the Perovskite Cobalt Oxides La _{1-x} Pr _x CoO ₃ (x = 0.30, 0.34)
46497	Shigenori Ueda	109 (2024) 085109	2020A4604	BL15XU	桜庭 裕弥	Near-interface Electronic and Magnetic States of Insulator/Co ₂ MnSi Heterostructures Probed by Hard X-ray Photoemission Combined with X-ray Total Reflection
			2020A4701	BL15XU	上田 茂典	
			2021A1147	BL25SU	上田 茂典	
46598	Shunsuke Kitou	109 (2024) L100101	2023A1687	BL02B1	鬼頭 俊介	Molecular Orbital Formation and Metastable Short-range Ordered Structure in VO ₂
			2023A1882	BL02B1	澤 博	
			2023B1603	BL02B1	鬼頭 俊介	
46619	Daisuke Takegami	109 (2024) 125119	2023B4255	BL12XU	武上 大介	Absence of Ni ²⁺ /Ni ³⁺ Charge Disproportionation and Possible Roles of O 2p Holes in La ₃ Ni ₂ O _{7-δ} Revealed by Hard X-ray Photoemission Spectroscopy

Journal of the American Chemical Society

46339	Youngcheol Jung	145 (2023) 25966-25970	2021A1302	BL26B1	佐藤 宗太	Function and Structure of a Terpene Synthase Encoded in a Giant Virus Genome
			2021A2725	BL41XU	長谷川 和也	
46530	Masahiro Yamaguchi	146 (2024) 4549-4556	2023A1731	BL02B1	鈴木 康介	Porphyrin-Polyoxotungstate Molecular Hybrid as a Highly Efficient, Durable, Visible-Light-Responsive Photocatalyst for Aerobic Oxidation Reactions
			2022B1859	BL02B1	鈴木 康介	
46554	Wei Yi	146 (2024) 4570-4581	2022A1587	BL02B2	藤田 晃司	La ₂ SrSc ₂ O ₇ : A-Site Cation Disorder Induces Ferroelectricity in Ruddlesden-Popper Layered Perovskite Oxide
			2022B0553	BL02B2	藤田 晃司	
			2022B1668	BL02B2	藤田 晃司	
			2023A1498	BL02B2	Yi Wei	
46592	Shota Hanabata	146 (2024) 181-186	2022A1373	BL02B2	北川 宏	Denary High-Entropy Oxide Nanoparticles Synthesized by a Continuous Supercritical Hydrothermal Flow Process
46606	Kiyofumi Takaba	146 (2024) 5872-5882	2021B8018	BL3	米倉 功治	Comprehensive Application of XFEL Microcrystallography for Challenging Targets in Various Organic Compounds
46681	Tomoaki Kumeda	(2024) Online published Mar. 20, 2024	2018B1679	BL13XU	久米田 友明	Surface Extraction Process During Initial Oxidation of Pt(111): Effect of Hydrophilic/Hydrophobic Cations in Alkaline Media
			2023B1836	BL13XU	中村 将志	
46729	Emina Yamada	146 (2024) 9181-9190	2020A1477	BL37XU	坂本 裕俊	Three-Dimensional Visualization of Adsorption Distribution in a Single Crystalline Particle of a Metal-Organic Framework

Chemistry of Materials

46432	Ritsuko Yaokawa	35 (2023) 10584-10593	2022B7008	BL33XU	野中 敬正	Redox Reaction Mechanism of Graphite Fluoride (CF) _n in Fluoride-Ion Batteries
46467	Morito Namba	36 (2024) 2076-2084	2022A1711	BL01B1	難波 杜人	Pure Fluorine Intercalation into Brownmillerite Oxide Thin Films by Using Ionic Liquid Gating
46526	Hikaru Otaguro	35 (2023) 6423-6436	2022A1489	BL02B2	赤松 寛文	Hydrogamet-Derived Porous Polyhedral Particles of SrFeO _{3-δ} Perovskite
			2020A1253	BL02B2	赤松 寛文	
			2022B1886	BL02B2	赤松 寛文	
46576	Qiumin Liu	36 (2024) 1899-1907	2021A3781	BL22XU	東 正樹	Pressure Induced Amorphization of Pb ²⁺ and Pb ⁴⁺ in Perovskite PbFeO ₃
			2021B3781	BL22XU	東 正樹	
46599	Shunsuke Kitou	36 (2024) 2993-2999	2023B1603	BL02B1	鬼頭 俊介	Cluster Rearrangement by Chiral Charge Order in Lacunar Spinel GaNb ₄ Se ₈

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
46398	Mengfei Wang	14 (2024) 778	2023A1815	BL19B2	松葉 豪	Structure-changeable Luminescent Eu(III) Complex as a Human Cancer Grade Probing System for Brain Tumor Diagnosis
			2022B1963	BL19B2	松葉 豪	
			2021B1128	BL43IR	松葉 豪	
			2022A1797	BL19B2	松葉 豪	
46406	Albert Mufundirwa	14 (2024) 2263	2021A1012	BL40B2	今井 英人	Contrast Variation Method Applied to Structural Evaluation of Catalysts by X-ray Small-angle Scattering
			2021B1014	BL40B2	今井 英人	
			2021B2073	BL40B2	岩本 裕之	
			2022A1016	BL40B2	今井 英人	
			2022B1008	BL40B2	今井 英人	
			2022B1185	BL40B2	Mufundirwa Albert	
46552	Kenji Yamamoto	9 (2019) 1503	2016A2516	BL38B1	阪本 龍司	Crystal Structure of the Dog Allergen Can f 6 and Structure-based Implications of its Cross-reactivity with the Cat Allergen Fel d 4
46566	Noriyuki Ogawa	9 (2019) 942	2010A1279	BL38B1	橋本 涉	Creation of Haemoglobin A1c Direct Oxidase from Fructosyl Peptide Oxidase by Combined Structure-based Site Specific Mutagenesis and Random Mutagenesis
			2011B1108	BL38B1	橋本 涉	
46602	Hirokazu Masai	14 (2024) 4638	2018A1309	BL04B2	正井 博和	Combinatorial Characterization of Metastable Luminous Silver Cations
			2022A1008	BL01B1	正井 博和	

Construction and Building Materials

46616	Yingyao Tan	369 (2023) 130526	2021B1025	BL28B2	杉山 隆文	Evaluation of Transport Properties of Deteriorated Concrete Due to Calcium Leaching with Coupled CT Image Analysis and Random Walk Simulation
			2022A1662	BL28B2	高橋 駿人	
46649	Gyeongryul Kim	411 (2024) 134529	2022A3783	BL22XU	裴 晟哲	Impact of Interatomic Structural Characteristics of Aluminosilicate Hydrate on the Mechanical Properties of Metakaolin-based Geopolymer
46650	Seongmin Cho	409 (2023) 133866	2022B3783	BL22XU	裴 晟哲	Characteristic Microstructural Phase Evolution and the Compressive Strength Development Mechanisms of Tricalcium Silicate Pastes under Various Initial Carbonation Curing Environments
46651	Sumin Im	365 (2023) 130034	2019A3784	BL22XU	裴 晟哲	Insight on the Mechanical Properties of Hierarchical Porous Calcium-Silicate-Hydrate Pastes According to the Ca/Si Molar Ratio using <i>in-situ</i> Synchrotron X-ray Scattering and Nanoindentation Test

Nature Communications

46522	Yuta Sakanaka	14 (2023) 6862	2020A1666	BL02B2	坂中 勇太	Generalised Analytical Method Unravels Framework-Dependent Kinetics of Adsorption-Induced Structural Transition in Flexible Metal–Organic Frameworks
			2021A1588	BL02B2	坂中 勇太	
			2021B1792	BL02B2	坂中 勇太	
			2022B1892	BL13XU	平出 翔太郎	
			2022B0555	BL13XU	渡邊 哲	
			2023A1701	BL13XU	平出 翔太郎	
			2023A1696	BL13XU	渡邊 哲	
46529	Kang Xia	15 (2024) 851	2023A1732	BL01B1	鈴木 康介	Ultra-stable and Highly Reactive Colloidal Gold Nanoparticle Catalysts Protected using Multi-dentate Metal Oxide Nanoclusters
			2023A1554	BL01B1	吉川 聡一	
			2022B1860	BL01B1	鈴木 康介	
			2022B1684	BL01B1	吉川 聡一	
46596	Gunjan Sharma	15 (2024) 713	2023B1608	BL01B1	増田 晋也	Pt-doped Ru Nanoparticles Loaded on 'Black Gold' Plasmonic Nanoreactors as Air Stable Reduction Catalysts
46621	Shuanghong Chen	10 (2019) 638	2015A1026	BL41XU	Wu Beili	Human Substance P Receptor Binding Mode of the Antagonist Drug Aprepitant by NMR and Crystallography
			2015A1027	BL41XU	Zhao Qiang	
			2016A2517	BL41XU	Zhao Qiang	
			2016A2518	BL41XU	Wu Beili	

ACS Applied Materials & Interfaces

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
46483	Sho Asano	16 (2024) 7189-7199	2018B7610	BL28XU	松原 英一郎	Formation Processes of a Solid Electrolyte Interphase at a Silicon/Sulfide Electrolyte Interface in a Model All-Solid-State Li-Ion Battery
			2019A7616	BL28XU	安部 武志	
			2019B7616	BL28XU	安部 武志	
			2021B7620	BL28XU	安部 武志	
			2022B7620	BL28XU	安部 武志	
			2022A7620	BL28XU	安部 武志	
			2023A7620	BL28XU	安部 武志	
46555	Shuta Onuki	16 (2024) 10682-10691	2021B1106	BL40B2	松本 英俊	All-Perfluorosulfonated-Ionomer Composite Membranes Containing Blow-Spun Fibers: Effect of a Thin Fiber Framework on Proton Conductivity and Mechanical Properties
			2022B1474	BL40B2	松本 英俊	
			2023B1123	BL40B2	松本 英俊	
46687	Jundong Song	16 (2024) 16145-16151	2018B4907	BL15XU	山田 智明	Novel Route for Enhancing Piezoelectricity of Ferroelectric Films: Controlling Nontrivial Polarization States in Pb(Zr, Ti)O ₃ Monodomain Superlattice Structure
			2015A4904	BL15XU	山田 智明	
			2017A4905	BL15XU	山田 智明	
			2019B4904	BL15XU	山田 智明	
			2014B1570	BL13XU	山田 智明	

Applied Physics Express

46402	Wolfgang Voegeli	16 (2023) 072007	2020A0176	BL28B2	矢代 航	Multi-beam X-ray Optical System for High-speed Tomography using a σ -polarization Diffraction Geometry
			2022A1789	BL28B2	矢代 航	
			2022A1132	BL28B2	矢代 航	
			2022B1223	BL28B2	矢代 航	
			2022B1016	BL28B2	矢代 航	
46403	Xiaoyu Liang	16 (2023) 072001	2020A0176	BL28B2	矢代 航	Sub-millisecond 4D X-ray Tomography Achieved with a Multibeam X-ray Imaging System
			2022A1789	BL28B2	矢代 航	
			2022A1132	BL28B2	矢代 航	
			2022B1223	BL28B2	矢代 航	
			2022B1016	BL28B2	矢代 航	
46524	Takuo Sasaki	17 (2024) 025502	2016A3553	BL11XU	佐々木 拓生	Temperature Dependence of Liquid-Gallium Ordering on the Surface of Epitaxially Grown GaN
			2017B3553	BL11XU	佐々木 拓生	
			2018A3553	BL11XU	佐々木 拓生	
			2018B3553	BL11XU	佐々木 拓生	
			2019A3553	BL11XU	佐々木 拓生	
			2019B3553	BL11XU	佐々木 拓生	
			2020A3553	BL11XU	佐々木 拓生	

Applied Physics Letters

46525	Tomohide Morikawa	124 (2024) 032901	2020A4950	BL15XU	小寺 正徳	Domain Structures of PbTiO ₃ and Pb(Zr,Ti)O ₃ Thin Films Controlled by Tensile Strain Induced by a Sr(Zr,Ti)O ₃ Buffer Layer
			2019A4903	BL15XU	清水 荘雄	
			2020A4551	BL15XU	清水 荘雄	
46560	Ryo Yokogawa	121 (2022) 082105	2020A1463	BL35XU	横川 凌	Study on Phonon Lifetime in Bulk Silicon-germanium through Observation of Acoustic Phonon Spectra Broadening by Inelastic X-ray Scattering
			2016A1496	BL35XU	小瀬村 大亮	
			2017B1630	BL35XU	白田 宏治	
			2019A1678	BL35XU	横川 凌	
			2019B1750	BL35XU	横川 凌	
46664	Yuhua Tsai	124 (2024) 112105	2023B3742	BL22XU	山下 良之	Atomic Position and the Chemical State of an Active Sn Dopant for Sn-doped β -Ga ₂ O ₃ (001)
			2023B3731	BL22XU	小畠 雅明	
			2023B3732	BL22XU	福田 竜生	

Chemical Communications

46395	Noor Dina Muhd Noor	54 (2018) 12385-12388	2014B6925	BL44XU	柴田 直樹	Redox-dependent Conformational Changes of a Proximal [4Fe-4S] Cluster in Hyb-type [NiFe]-hydrogenase to Protect the Active Site from O ₂
			2015A6700	BL44XU	中川 敦史	
46463	Yuya Hokimoto	60 (2024) 1281-1284	2022B0589	BL02B1	森迫 祥吾	Synthesis of a Macrocyclic Oligomer of Pyridylbenzoxazole Utilizing Dynamic Covalent Bonds and its Unsymmetric Conversion
46674	Tomoya Enjou	60 (2024) 3653-3656	2021A1628	BL19B2	松葉 豪	Water-dispersible Donor-acceptor-donor π -conjugated Bolaamphiphiles Enabling a Humidity-responsive Luminescence Color Change
			2022A1797	BL19B2	松葉 豪	
			2022B0578	BL19B2	以倉 峻平	
			2022B1963	BL19B2	松葉 豪	

Japanese Journal of Applied Physics

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
46407	Tomoki Onabe	63 (2024) 02SP61	2021B1650	BL13XU	藤平 哲也	Local Strain Distribution Analysis in Strained SiGe Spintronics Devices
			2022B1817	BL13XU	酒井 朗	
			2019B1797	BL13XU	濱地 威明	
			2020A1331	BL13XU	林 侑介	
			2020A1652	BL13XU	濱地 威明	
			2021A1584	BL13XU	Wu Zhendong	
			2021B1345	BL13XU	林 侑介	
2022B1567	BL13XU	林 侑介				
46427	Takuo Sasaki	63 (2024) 020901	2016A3553	BL11XU	佐々木 拓生	Real-time Observation of Liquid-Gallium Ordering on Epitaxially-Grown GaN(0001) by X-ray Scattering Measurements
			2017B3553	BL11XU	佐々木 拓生	
			2018A3553	BL11XU	佐々木 拓生	
			2018B3553	BL11XU	佐々木 拓生	
			2019A3553	BL11XU	佐々木 拓生	
			2019B3553	BL11XU	佐々木 拓生	
46520	Ryosuke Matsubara	63 (2024) 015505	2019B1846	BL19B2	松原 亮介	Preparation of Vertically Oriented Aromatic Polyester Thin Films by Thermal Chemical Vapor Deposition
			2021B1953	BL46XU	松原 亮介	

The Journal of Biological Chemistry

46355	Yoshiki Nakajima	293 (2018) 14786-14797	2016A2542	BL41XU	沈 建仁	Thylakoid Membrane Lipid Sulfoquinovosyl-diaclyglycerol (SQDG) is Required for Full Functioning of Photosystem II in <i>Thermosynechococcus elongatus</i>
			2017A2535	BL41XU	沈 建仁	
			2017A2529	BL38B1	梅名 泰史	
			2017A2529	BL41XU	梅名 泰史	
			2017B6704	BL44XU	梅名 泰史	
46575	Hiroko Ikushiro	300 (2024) 105728	2023B6803	BL44XU	生城 浩子	Racemization of the Substrate and Product by Serine Palmitoyltransferase from <i>Sphingobacterium multivorum</i> Yields Two Enantiomers of the Product from D-serine
			2021A6652	BL44XU	生城 浩子	
			2021B2540	BL45XU	生城 浩子	
			2021B6652	BL44XU	生城 浩子	
			2022B6703	BL44XU	生城 浩子	
			2021B2540	BL26B1	生城 浩子	
			2016B2554	BL38B1	宮原 郁子	
			2017A2694	BL26B1	赤井 翔太	
46642	Misa Yoshimura	300 (2024) 105748	2021B2553	BL41XU	寺本 岳大	Crystal Structure of Tick Tyrosylprotein Sulfotransferase Reveals the Activation Mechanism of the Tick Anticoagulant Protein Madanin
			2013A1350	BL38B1	角田 佳充	
			2014A6913	BL44XU	角田 佳充	
			2017A2536	BL26B1	角田 佳充	
			2018A2577	BL26B2	角田 佳充	
			2021B2553	BL45XU	寺本 岳大	

The Journal of Physical Chemistry C

46458	Hiroyuki Asakura	127 (2023) 24192-24199	2020A3585	BL11XU	朝倉 博行	Polarized High-Energy-Resolution Fluorescence Detection-X-ray Absorption Near-Edge Structure of the (La,Sr)(Al,Ta)O ₃ Single Crystal at the La L ₁ -Edge
			2016B1149	BL39XU	河村 直己	
			2020A1175	BL39XU	朝倉 博行	
			2020A1186	BL39XU	河村 直己	
			2021A1341	BL01B1	朝倉 博行	
46695	Tomoki Matsuyama	128 (2024) 2953-2958	2021A1344	BL39XU	朝倉 博行	CO ₂ Activation on Lindqvist-Type Polyoxotantalate: Structural Analysis by In Situ HERFD-XANES
			2022A1532	BL01B1	山添 誠司	
			2022B1259	BL36XU	山添 誠司	
			2022A2064	BL39XU	河村 直己	
			2022B2107	BL39XU	河村 直己	
			2021A1332	BL27SU	吉川 聡一	
			2021A1603	BL39XU	松山 知樹	
			2021B1380	BL36XU	山添 誠司	
			2022B1264	BL27SU	吉川 聡一	
46703	Hajime Suzuki	128 (2024) 4924-4933	2022B1743	BL39XU	松山 知樹	Arc Plasma Deposition as an Effective and Versatile Method for Loading Highly Dispersed and Active Nanococatalysts onto Particulate Photocatalysts for Efficient H ₂ Evolution
			2023A1628	BL39XU	松山 知樹	

Physical Review 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
46550	Yinggang Song	130 (2023) 266001	2020A1527	BL10XU	清水 克哉	Stoichiometric Ternary Superhydride LaBeH ₈ as a New Template for High-Temperature Superconductivity at 110 K under 80 GPa
			2021A1178	BL10XU	清水 克哉	
			2021B1189	BL10XU	清水 克哉	
			2022B1265	BL10XU	清水 克哉	
			2021A1172	BL10XU	Zhu Jinlong	
2021B1407	BL10XU	Zhu Jinlong				
46620	Denise S. Christovam	132 (2024) 046401	2022B4256	BL12XU	Takegami Daisuke	Spectroscopic Evidence of Kondo-Induced Quasi-quartet in CeRh ₂ As ₂
46754	Hiroaki Tanaka	132 (2024) 136402	2021B1797	BL25SU	田中 宏明	Broken Screw Rotational Symmetry in the Near-Surface Electronic Structure of AB-Stacked Crystals
			2022A1687	BL25SU	田中 宏明	
			2020A1181	BL25SU	黒田 健太	
			2021A1259	BL25SU	黒田 健太	

Acta Materialia

46456	Manabu Watanabe	267 (2024) 119718	2020A1533	BL01B1	渡邊 学	Clarification of Origin of Positive Excess Volume of Pd-Fe Binary Alloys by using First-principles Calculations and HAXPES
			2022A1182	BL01B1	渡邊 学	
			2023B1981	BL46XU	渡邊 学	
46668	Je Oh Choi	266 (2024) 119688	2020A1260	BL13XU	Cho Chi Yong	Polarization Reversal Dynamics of Ferroelastic Nanodomains in Pb(Zr,Ti)O ₃ Thin Film

Applied Surface Science

46728	Hoon Lim	585 (2022) 152771	2020A4903	BL15XU	Kang Hyon Chol	Crystallization and Bandgap Variation of Non-stoichiometric Amorphous Ga ₂ O _{3-x} Thin Films during Post-Annealing Process
46730	Su Yeon Cha	637 (2023) 157943	2022B1565	BL46XU	Kang Hyon Chol	Short-range Positional Order in Phase Separated Indium Gallium Oxide Islands Deposited in a Reducing Atmosphere
			2022A1251	BL46XU	Mun Bongjin	

Biochemical and Biophysical Research Communications

46558	Seisuke Hasegawa	704 (2024) 149707	2021B6612	BL44XU	木下 誉富	Distinct Binding Modes of a Benzothiazole Derivative Confer Structural Bases for Increasing ERK2 or p38α MAPK Selectivity
			2022A6711	BL44XU	木下 誉富	
46643	Yuka Iwamoto	677 (2023) 149-154	2021B2553	BL45XU	寺本 岳大	Crystal Structure of <i>Arabidopsis thaliana</i> Sulfotransferase SOT16 Involved in Glucosinolate Biosynthesis

Catalysis Science & Technology

46479	Mengwen Huang	13 (2023) 6832-6838	2021B3621	BL14B1	前野 禅	<i>In situ</i> Ga K-edge XANES Study of Ga-exchanged Zeolites at High Temperatures under Different Atmospheres Including Vacuum, CO, and Pressurized H ₂
			2022A3621	BL14B1	前野 禅	
46573	Airi Hirayama	11 (2021) 6217-6224	2020A0534	BL01B1	大山 順也	Catalytic Oxidation of Methane to Methanol over Cu-CHA with Molecular Oxygen

ChemCatChem

46457	Hiroyuki Asakura	(2024) Online published 4 Feb. 2024	2020A1777	BL14B2	朝倉 博行	Light-Off Performance of Three-Way Catalysts Before and After Accelerated Aging Test with an Engine-Dynamometer
			2017B1014	BL01B1	田中 庸裕	
			2019B1889	BL14B2	朝倉 博行	
46516	Takuya Suguro	16 (2024) e202301598	2023B1648	BL01B1	岸本 史直	Coherent Evaluation of Energy Efficiency for Microwave Catalytic Reactors Based on Reaction Equilibrium
			2022B0532	BL01B1	岸本 史直	
			2022B1629	BL14B2	岸本 史直	
			2022A1082	BL01B1	岸本 史直	

Communications Biology

46331	Ilian Häggmark	7 (2024) 17	2022A1565	BL20B2	Haggmark Ilian	X-ray Phase Contrast Reveals Soft Tissue and Shell Growth Lines in Mollusks
46523	Chisae Nagiri	2 (2019) 236	2016A2527	BL32XU	石谷 隆一郎	Crystal Structure of Human Endothelin ET _B Receptor in Complex with Peptide Inverse Agonist IRL2500
			2017A2578	BL32XU	石谷 隆一郎	

Communications Chemistry

46601	Hirokazu Masai	6 (2023) 269	2019B1563	BL04B2	正井 博和	Siliceous Zeolite-derived Topology of Amorphous Silica
			2021A1166	BL04B2	正井 博和	
46693	Yu Fujiki	6 (2023) 129	2018B0938	BL01B1	若林 裕助	Counteranion-induced Structural Isomerization of Phosphine-protected PdAu ₈ and PtAu ₈ Clusters
			2020A0715	BL01B1	山添 誠司	
			2022A1532	BL01B1	山添 誠司	
			2022A1627	BL01B1	吉川 聡一	
			2022B1684	BL01B1	吉川 聡一	
			2022B1911	BL01B1	吉川 聡一	

Communications 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
46353	Junya Katsumata	4 (2023) 41	2018B1121	BL17SU	小野 新平	Investigating the Operation Mechanism of Light-emitting Electrochemical Cells through Operando Observations of Spin States
			2021A1263	BL17SU	小野 新平	
			2021B1604	BL17SU	小野 新平	
			2022A1090	BL17SU	小野 新平	
46663	Lingfei Zhang	5 (2024) 35	2022B0504	BL14B2	細頭 広志	Peculiar Magnetotransport Properties in Epitaxially Stabilized Orthorhombic Ru ³⁺ Perovskite LaRuO ₃ and NdRuO ₃
			2022B1574	BL09XU	細頭 広志	

CrystEngComm

46450	Svetlana M. Posokhova	25 (2023) 4822-4833	2020A4501	BL15XU	Belik Alexei	K ₅ Yb _{1-x} Eu _x (MoO ₄) ₄ Phosphors: Aperiodic Structures and Luminescence Properties
46574	Ryohei Akiyoshi	25 (2023) 2990-2994	2022B1583	BL02B1	田中 大輔	Selective Synthesis of Two-Dimensional Semiconductive Coordination Polymers with Silver-Sulfur Network
			2022B1882	BL02B1	田中 大輔	
			2022B0521	BL02B1	田中 大輔	

Electrochemistry

46424	Junji Iihara	92 (2024) 037001	2017A5330	BL16B2	徳田 一弥	XAFS Analysis of Sulfuric Acid Solution Related to the Effect of Te and Sb in Suppressing the Disproportionation Reaction of Mn ³⁺ in Mn/Ti Redox Flow Cells
46584	Yuri Yamamoto	92 (2024) 043019	2022B3716	BL22XU	高島 容子	Investigation of Manganese(II) Behavior in Molten Chlorides at Precipitate Formation by Oxide Addition

Hyperfine Interactions

46380	Satoshi Tsutsui	245 (2024) 9	2008A1972	BL39XU	河村 直己	¹⁴⁹ Sm Synchrotron-radiation-based Mössbauer Spectroscopy of Sm-based Heavy Fermion Compounds
			2011A1436	BL01B1	青木 勇二	
			2012A1333	BL01B1	青木 勇二	
			2012B1538	BL01B1	東中 隆二	
			2014B1139	BL01B1	東中 隆二	
			2015B1947	BL09XU	筒井 智嗣	
			2016A1413	BL09XU	筒井 智嗣	
			2016B1948	BL35XU	筒井 智嗣	
			2017A1060	BL09XU	筒井 智嗣	
			2017B1275	BL09XU	筒井 智嗣	
			2018A1534	BL09XU	筒井 智嗣	
			2019A1226	BL09XU	筒井 智嗣	
			2020A1346	BL09XU	筒井 智嗣	
2020A2025	BL01B1	筒井 智嗣				
2021A2052	BL39XU	筒井 智嗣				
46512	Hiroyuki Yamashita	245 (2024) 15	2022B3581	BL11XU	瀬戸 誠	Measurement of the Sub-nanometer Vibration Amplitudes using ⁵⁷ Fe Synchrotron Mössbauer Source
			2023A3581	BL11XU	瀬戸 誠	

Inorganic Chemistry

46330	Alexei Belik	62 (2023) 20042-20049	2023A1496	BL02B2	Belik Alexei	Anisotropic Thermal Expansion and a Second-Order Charge Order Transition in the Ferrimagnetic Dy ₂ CuZnMn ₄ O ₁₂ Perovskite with Triple A-Site Cation Ordering
			2023A2361	BL02B2	山浦 一成	
46400	Wasusate Soontornchaiyakul	63 (2024) 2787-2792	2022A1175	BL02B2	岡田 友彦	Nanoarchitectonics of a Smectite with 4,4'-Diammonium- α -truxillic Acid and Its Methyl Ester for the Removal of <i>o</i> -Phenylphenol and Biphenyl from Water
			2022B1575	BL13XU	岡田 友彦	
			2023A1680	BL13XU	岡田 友彦	
			2023A1579	BL02B2	齊藤 寛治	

International Journal of Hydrogen Energy

46383	Masahide Inagaki	58 (2024) 14-27	2019A7032	BL33XU	山口 聡	Condensation Model to Reproduce Experimentally Observed Liquid Water Distributions in Gas Diffusion Layer for Polymer Electrolyte Fuel Cells with Variation of Cell Temperature and Relative Humidity of Inlet Gas
			2019B7032	BL33XU	山口 聡	
46518	Kazutaka Ikeda	51 (2024) 79-87	2013B3783	BL22XU	Kim Hyunjeong	Local Structural Changes in V-Ti-Cr Alloy Hydrides with Hydrogen Absorption/Desorption Cycling
			2014A3785	BL22XU	Kim Hyunjeong	
			2014A3703	BL22XU	町田 晃彦	
			2015B3703	BL22XU	町田 晃彦	
			2015B3786	BL22XU	Kim Hyunjeong	

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
46447	Iana S. Soboleva	25 (2024) 1437	2017B4502	BL15XU	辻本 吉廣	Understanding Complex Interplay among Different Instabilities in Multiferroic BiMn ₇ O ₁₂ Using ⁵⁷ Fe Probe Mössbauer Spectroscopy
46611	Methanee Hiranyakom	24 (2023) 6075	2020A6510	BL44XU	加藤 晃一	Mutational and Environmental Effects on the Dynamic Conformational Distributions of Lys48-Linked Ubiquitin Chains

IOP Conference Series: Materials Science and Engineering

46545	Hideyuki Yasuda	1281 (2023) 012064	2020A1565	BL28B2	安田 秀幸	Reconstruction of Dendritic Growth by Fast Tomography and Phase Field Filtering
			2019A1490	BL20B2	安田 秀幸	
			2021A1485	BL47XU	安田 秀幸	
			2021B1561	BL20B2	安田 秀幸	
46546	Hideyuki Yasuda	1281 (2023) 012032	2022A1606	BL47XU	安田 秀幸	In situ Observation of Solidification in Peritectic Steels and Evaluation of the Strains Induced in the Solidifying Shell
			2021A1499	BL20XU	安田 秀幸	
			2021B1560	BL47XU	安田 秀幸	

The Journal of Chemical Physics

46390	Hiroki Nobori	160 (2024) 044902	2022A1163	BL40B2	田口 健	Phase Transitions and Dynamics in Ionic Liquid Crystals Confined in Nanopores
			2022A1283	BL40B2	深尾 浩次	
			2022B1322	BL40B2	深尾 浩次	
			2023A1172	BL40B2	深尾 浩次	
			2023A1260	BL40B2	田口 健	
46685	Akiyuki Ryoki	160 (2024) 114907	2020A1373	BL40B2	中村 洋	Contrast Dependence of Scattering Profiles for Poly(ethylene glycol) in Water: Investigation by Small-Angle Neutron Scattering with ³ He Spin Filter and Small-Angle X-ray Scattering
			2022A1355	BL40B2	領木 研之	

Journal of Materials Chemistry A

46462	Hiroki Komiya	12 (2024) 3513-3522	2023A1885	BL14B2	小畑 圭亮	Dynamic Stabilization of Nickel-based Oxygen Evolution Electrocatalysts in the Presence of Chloride Ions using a Phosphate Additive
46727	Izuru Miyazaki	(2024) Online published 6 Mar. 2024	2022A7030	BL33XU	梅原 密太郎	High-throughput Screening and Characterization of Novel Zeolitic Imidazolate Framework Gels
			2022B7030	BL33XU	梅原 密太郎	

Journal of Molecular Liquids

46534	Yusuke Sanada	396 (2024) 123845	2020A1443	BL40B2	真田 雄介	Effects of Coexisting Na ⁺ on the Reentrant Condensation of Bovine Serum Albumin Induced by Y ³⁺ in Aqueous Media
46535	Hironori Shimakura	395 (2024) 123938	2020A1617	BL04B2	島倉 宏典	Characterization of the Structure of Amorphous Disodium Etidronate
			2021B1735	BL04B2	島倉 宏典	

The Journal of Organic Chemistry

46341	Chiharu Takubo	88 (2023) 16707-16718	2022A1482	BL26B1	棚谷 綾	Conformational Properties of Aromatic Amides Bearing Imidazole Ring and Acid-Induced <i>Trans-Cis</i> Amide Switching
			2019B1121	BL26B1	片桐 幸輔	
46342	Kimiko Tanaka	88 (2023) 12289-12293	2022B1154	BL26B1	棚谷 綾	Solvent-Dependent Conformational Switching of <i>N</i> -Methyl- <i>N,N'</i> -diarylsquaramide
			2022A1376	BL26B1	片桐 幸輔	
			2022A1482	BL26B1	棚谷 綾	

The Journal of Physical Chemistry Letters

46569	Tomoshige Okada	15 (2024) 1539-1545	2023A1675	BL01B1	川脇 徳久	Tiara-like Hexanuclear Nickel-Platinum Alloy Nanocluster
			2022B1823	BL01B1	川脇 徳久	
			2022A1075	BL01B1	川脇 徳久	
			2021B1163	BL01B1	川脇 徳久	
			2021A1102	BL01B1	川脇 徳久	
			2020A0695	BL01B1	川脇 徳久	
46618	Kazuma Hamaguchi	15 (2024) 454-460	2021A7425	BL07LSU	倉橋 直也	Hydrogen-Bonded Structures of Water Molecules in Hydroxy-Functionalized Nanochannels of Columnar Liquid Crystalline Nanostructured Membranes Studied by Soft X-ray Emission Spectroscopy
			2021B7427	BL07LSU	倉橋 直也	

Journal of the Physical Society of Japan

46533	Sora Kobayashi	93 (2024) 024707	2020A1475	BL02B2	出村 郷志	Enhancement of Superconductivity and Structural Instability by Sn Substitution in LaO _{0.5} F _{0.5} BiS ₂
			2022A1708	BL02B1	小林 天	
46617	Yoichi Ishiwata	93 (2024) 044603	2017A4130	BL12B2	石渡 洋一	Invariable Simultaneous Emergence of Antiferromagnetic Order and Tetragonal Deformation in CoO Nanocrystals
			2017B4129	BL12B2	石渡 洋一	
			2018A4142	BL12B2	石渡 洋一	

JPS Conference Proceedings

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
46564	Kosuke Fujiwara	41 (2024) 011002	2021A3583	BL11XU	中村 真一	Synchrotron Mössbauer Micro γ -ray Diffractometer Installed on BL11XU at SPring-8
			2021B3583	BL11XU	中村 真一	
			2020A3583	BL11XU	中村 真一	
			2021A3552	BL11XU	三井 隆也	
			2021B3552	BL11XU	三井 隆也	
			2022A3552	BL11XU	三井 隆也	
			2022A3583	BL11XU	中村 真一	
46582	Satoshi Iguchi	38 (2023) 011148	2020A1314	BL43IR	池本 夕佳	Infrared Magneto-optical Kerr Effect Measurements by Polarization Modulation Method in Anisotropic Magnets
			2021A1472	BL43IR	池本 夕佳	
			2021B1360	BL43IR	池本 夕佳	
			2019B1595	BL43IR	池本 夕佳	
			2022B1488	BL43IR	池本 夕佳	
			2022A1469	BL43IR	池本 夕佳	

Macromolecules

46388	Hiroyuki Kono	56 (2023) 6086-6098	2022B1160	BL40B2	井田 大地	Self-Assembly of Amphiphilic Alternating Copolymers by Chain Folding in Water: From Uniform Composition and Sequence to Monodisperse Micelles
46470	Taizo Kabe	57 (2024) 1138-1146	2020A2094	BL03XU	加部 泰三	Thermal Properties and Crystallization Behavior of Curdlan Acetate Propionate Mixed Esters
			2021A2063	BL03XU	加部 泰三	
			2021B2034	BL03XU	加部 泰三	
			2022A7222	BL03XU	加部 泰三	

Physical Review Materials

46536	Kouji Taniguchi	8 (2024) 024409	2021B1261	BL02B1	鬼頭 俊介	Tuning of Spin-orbit Coupling in Chiral Molecule-incorporated Two-dimensional Organic-inorganic Hybrid Perovskite Copper Halides with Ferromagnetic Exchange Interactions
46622	Kohei Yoshimatsu	8 (2024) 035002	2022B1574	BL09XU	細頭 広志	Temperature-induced Structural and Electronic Phase Transitions in λ -phase Ti_3O_5

Polymer Journal

46590	Hiroyuki Yamane	56 (2024) 215-220	2021A1036	BL27SU	山根 宏之	Depth Analysis of Local Conformation in Poly(methyl methacrylate) Adsorbed onto SiO_2 , Studied by Soft X-ray Absorption Spectroscopy Combined with an Ar Gas Cluster Ion Beam
46746	Kohji Tashiro	(2024) Online published 14 Mar. 2024	2020A7225	BL03XU	田代 孝二	Three Representative Types of WAXD/SAXS Patterns to Establish the Bimodal Structure Concept of Stacked Lamellae in <i>isotactic</i> Polypropylene Spherulites

Quantum Beam Science

46514	Yujiro Hayashi	7 (2023) 23	2016A7002	BL33XU	林 雄二郎	Scanning Three-Dimensional X-ray Diffraction Microscopy for Carbon Steels
			2016B7002	BL33XU	林 雄二郎	
46515	Yujiro Hayashi	7 (2023) 16	2019A7002	BL33XU	林 雄二郎	Scanning Three-Dimensional X-ray Diffraction Microscopy with a Spiral Slit

Radiation Physics and Chemistry

46682	Hironori Ofuchi	218 (2024) 111581	2018B2054	BL14B2	大淵 博宣	Construction of XAFS Standard Sample Database at BL14B2 in SPring-8
			2019A2053	BL14B2	大淵 博宣	
			2019B2088	BL14B2	大淵 博宣	
			2020A2150	BL14B2	大淵 博宣	
			2020A2042	BL14B2	大淵 博宣	
			2021A2069	BL14B2	大淵 博宣	
			2021B2084	BL14B2	大淵 博宣	
			2022A2061	BL14B2	大淵 博宣	
			2023A1527	BL14B2	大淵 博宣	
			2023B1845	BL14B2	大淵 博宣	
			2020A1613	BL14B2	大坂 恵一	
46694	Tomoki Matsuyama	215 (2024) 111351	2021A1603	BL39XU	松山 知樹	Redox-induced Structural Changes in Keggin-type Tungstophosphate Investigated by High-energy-resolution Fluorescence Detection X-ray Absorption Spectroscopy
			2021B1818	BL39XU	松山 知樹	
			2021B1373	BL01B1	山添 誠司	
			2021B2090	BL39XU	河村 直己	
			2022A2064	BL39XU	河村 直己	

Review of Scientific Instruments

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
46345	Priyanka Muhunthan	95 (2024) 013901	2022B8017	BL3	Ihme Werner	A Versatile Pressure-cell Design for Studying Ultrafast Molecular-dynamics in Supercritical Fluids using Coherent Multi-pulse X-ray Scattering
			2023A8012	BL3	Ihme Werner	
46378	Yoshio Kono	95 (2024) 013904	2021A1087	BL04B2	河野 義生	<i>In situ</i> High-pressure Pair Distribution Function Measurement of Liquid and Glass by using 100 keV Pink Beam
			理研	BL05XU		

ACS Applied Electronic Materials

46539	Miku Saito	3 (2021) 3980-3989	2020A1131	BL01B1	日隈 聡士	Formation of Mobile Hydridic Defects in Zirconium Nitride Films with n-Type Semiconductor Properties
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ACS Applied Energy Materials

46724	Akira Yamaguchi	7 (2024) 2593-2599	2021B1856	BL14B2	中村 龍平	Temperature and Pressure Dependence of Hydrothermal Electrodeposition of Molybdenum Sulfide
			理研	BL44B2		

ACS Applied Polymer Materials

46472	Manikandan Ilangoan	5 (2023) 9255-9262	2022B1405	BL05XU	加部 泰三	Investigating the Structure-Property Relationships of Paramylon Ester/PBAT Blends for Sustainable Packaging
			2023A7204	BL03XU	加部 泰三	

ACS Catalysis

46377	Yu Zhuang	14 (2024) 1750-1758	2022B0608	BL14B2	庄 宇	Platinum-Nickel Alloy Nanowire Electrocatalysts Transform into Pt-Skin Beads-on-Nanowires Keeping Oxygen Reduction Reaction Activity During Potential Cycling
			2023A1791	BL14B2	Ma Zhengwei	

ACS Materials Letters

46329	Xin Zhou	6 (2024) 353-359	2019B1142	BL01B1	北川 宏	RuIn Solid-Solution Alloy Nanoparticles with Enhanced Hydrogen Evolution Reaction Activity
			2020A1129	BL01B1	北川 宏	
			2022B0598	BL13XU	北川 宏	
			2022B1831	BL13XU	北川 宏	
			2023A1706	BL13XU	北川 宏	

ACS Omega

46381	Shoto Noda	8 (2023) 24875-24882	2020A1665	BL39XU	野土 翔登	Intrinsic Magnetic Proximity Effect at the Atomically Sharp Interface of Co _x Fe _{3-x} O ₄ /Pt Grown by Molecular Beam Epitaxy
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ACS Sustainable Chemistry & Engineering

46474	Hao Ge	12 (2024) 2162-2171	2021A1089	BL01B1	桑原 泰隆	Mild Hydrodeoxygenation of Aromatic Ketones by Pd/H ₂ /WO _{3-y} with Plasmonic Features Assisted by Visible-NIR Light Irradiation
			2022A1171	BL01B1	桑原 泰隆	

Acta Crystallographica Section F

46511	Reina Nagamura	75 (2019) 348-358	2017A2578	BL32XU	石谷 隆一郎	Structural Basis for Oligomerization of the Prokaryotic Peptide Transporter PepT _{Soc2}
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Acta Palaeontologica Polonica

46389	Qing-Qin Tang	67 (2022) 317-327	2020A0561	BL20XU	小宮 剛	New Materials of Multicellular Algae from the Earliest Cambrian Kuanchuanpu Biota in South China
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Advanced Functional Materials

46571	Yuki Akinaga	33 (2023) 2303321	2022A1075	BL01B1	川脇 徳久	Metal Single-Atom Cocatalyst on Carbon Nitride for the Photocatalytic Hydrogen Evolution Reaction: Effects of Metal Species
			2021B1163	BL01B1	川脇 徳久	
			2022B1823	BL01B1	川脇 徳久	

Analytical Sciences

46537	Haruna Sugahara	40 (2024) 781-789	2016A1090	BL27SU	菅原 春菜	Nitrogen K-edge X-ray Adsorption Near-edge Structure Spectroscopy of Chemically Adsorbed Ammonia Gas on Clay Minerals and the ¹⁵ N/ ¹⁴ N-nitrogen Isotopic Fractionation
			2015A1897	BL27SU	吉村 寿紘	

Angewandte Chemie

46684	Qilong Gao	136 (2024) e202401302	2023B2054	BL02B2	Gao Qilong	Giant Negative Thermal Expansion in Ultralight NaB(CN) ₄
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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
46334	Tasuku Honda	63 (2024) e202318548	2021B1512	BL26B1	佐藤 宗太	Rapid Synthesis of Chiral Figure-Eight Macrocycles Using a Preorganized Natural Product-Based Scaffold
			2022A1551	BL26B1	佐藤 宗太	

APL Materials

46563	Shunsuke Yamashita	12 (2024) 031101	2021A5040	BL16XU	新井 龍志	Local Defect and Mid-Gap State Analysis of GaN using Monochromated EELS Combined with Nanodiffraction and Atomic-Resolution Imaging
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Applied Catalysis A: General

46581	Masaru Kondo	676 (2024) 119638	2022A1782	BL14B2	田代 啓悟	Aerobic Oxidative Coupling of 2-naphthols Catalyzed by Flame-made VO _x /t-ZrO ₂ : Effect of Metal Oxide Support and VO _x Content on Catalytic Activity
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Asian Journal of Organic Chemistry

46692	Vorakit Chudatemiya	12 (2023) e202200521	2021A1272	BL01B1	山添 誠司	Bifunctional Platinum-Incorporated Polyoxoniobate Derived Catalyst for <i>N</i> -formylation of Piperidine Using CO ₂
			2021A1406	BL01B1	吉川 聡一	
			2021B1373	BL01B1	山添 誠司	
			2021B1535	BL01B1	吉川 聡一	

Biochemical Journal

46425	Satoshi Murakami	475 (2018) 2925-2939	2015A6500	BL44XU	山下 栄樹	Structure of the γ - ϵ Complex of Cyanobacterial F ₁ -ATPase Reveals a Suppression Mechanism of the γ Subunit on ATP Hydrolysis in Phototrophs
			2015A6700	BL44XU	中川 敦史	
			2015B6500	BL44XU	山下 栄樹	
			2015B6700	BL44XU	中川 敦史	
			2016A6500	BL44XU	山下 栄樹	
			2016A6700	BL44XU	中川 敦史	
			2016B6500	BL44XU	山下 栄樹	

Biochemistry

46379	Yota Fukuda	63 (2024) 339-347	2020A2612	BL41XU	福田 庸太	Overlooked Hydrogen Bond in a Blue Copper Protein Uncovered by Neutron and Sub-Ångström Resolution X-ray Crystallography
			2021A2767	BL41XU	福田 庸太	
			2022A2762	BL41XU	福田 庸太	

Bioconjugate Chemistry

46553	Satoshi Kishimoto	30 (2019) 698-702	2014B1313	BL38B1	安達 基泰	Site-Specific Chemical Conjugation of Antibodies by Using Affinity Peptide for the Development of Therapeutic Antibody Format
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Biological and Pharmaceutical Bulletin

46392	Yoshiyuki Miyasaka	47 (2024) 245-252	2022A1143	BL40B2	橋崎 要	Rheological Properties and Composition Affecting the Skin Permeation of a Model of a Hydrophilic Drug in Lecithin Reverse Wormlike Micelles
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Calphad: Computer Coupling of Phase Diagrams and Thermodynamics

46335	Xi Li	84 (2024) 102641	2013B1157	BL04B1	Liss Klaus Dieter	Phase Transformation and Equation of State in Ti-45Al Alloy under High Pressure
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Carbon Reports

46469	Daisuke Kimura	(2024) Online published Feb. 1, 2024	2021B1028	BL13XU	宝田 亘	Compressive Strength and Compressive Failure Mechanism of High-modulus Carbon Fibers from Polyacrylonitrile and Mesophase Pitch
			2022A1041	BL13XU	宝田 亘	

Catalysis

46690	Vorakit Chudatemiya	13 (2023) 442	2021B1380	BL36XU	山添 誠司	Selective CO ₂ Fixation to Styrene Oxide by Ta-Substitution of Lindqvist-Type [(Ta,Nb) ₆ O ₁₉] ⁸⁻ Clusters
			2022A1532	BL01B1	山添 誠司	
			2020A1068	BL02B2	山本 隆文	
			2021A1406	BL01B1	吉川 聡一	
			2021B1535	BL01B1	吉川 聡一	
			2022A1627	BL01B1	吉川 聡一	
			2022B1684	BL01B1	吉川 聡一	

Ceramics International

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
46360	Yoshiki Otsubo	50 (2024) 5992-6000	2021B1856	BL14B2	中村 龍平	Hydrothermal Electrochemical Flow Reactor to Independently Control Temperature, Pressure, and Potential for Manganese Oxide Electrodeposition
			理研	BL44B2		

Chemical and Pharmaceutical Bulletin

46464	Yuri Ikeuchi-Takahashi	72 (2024) 102-108	2022A1293	BL43IR	小幡 誉子	Development of Ethylcellulose Microparticles for Taste Masking of Fexofenadine
			2022B1465	BL43IR	小幡 誉子	
			2023A1195	BL43IR	小幡 誉子	

Chemical Engineering Journal

46578	Foni Biswas	407 (2021) 127225	2020A1615	BL14B2	遠藤 克	Selective Recovery of Silver and Palladium from Acidic Waste Solutions using Dithiocarbamate-functionalized Cellulose
			2019B1828	BL14B2	福住 謙亨	

Chemical Physics Impact

46408	Masae Takahashi	8 (2024) 100442	2018A1198	BL43IR	高橋 まさえ	Upward Vibrational Frequency Shift Due to Electron-Phonon Polar-Coupling Interaction in C ₁₂ H ₁₇ ClN ₄ OS·HCl·H ₂ O Crystals
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Chemical Science

46484	Masaki Saruyama	15 (2024) 2425-2432	2020A1577	BL40B2	猿山 雅亮	Pseudomorphic Amorphization of Three-Dimensional Superlattices through Morphological Transformation of Nanocrystal Building Blocks
			2021A1076	BL40B2	猿山 雅亮	
			2021B1662	BL40B2	猿山 雅亮	
			2022A1614	BL40B2	猿山 雅亮	
			2022B1389	BL40B2	猿山 雅亮	
			2023A1267	BL40B2	猿山 雅亮	
			2021B7702	BL28XU	竹中 幹人	
			2022A7702	BL28XU	竹中 幹人	
			2022B7702	BL28XU	竹中 幹人	

Chemistry Letters

46612	Yasuhiro Yamauchi	53 (2024) upae042	2020A1871	BL14B2	植竹 裕太	Reversible Modulation of the Local Environment around Metal Centers Bearing Multifunctional Carbenes
			2021A1630	BL14B2	植竹 裕太	
			2021B1717	BL14B2	植竹 裕太	
			2022A1767	BL14B2	植竹 裕太	
			2022A1784	BL14B2	山内 泰宏	

ChemRxiv

46542	Basudev Maity	(2023) Online published Nov. 6, 2023	2019B8053	BL2	上野 隆史	Real-time Observation of a Metal Complex-driven Reaction Intermediate using a Porous Protein Crystal and Serial Femtosecond Crystallography
			2020A8034	BL2	上野 隆史	
			2021B8024	BL2	上野 隆史	
			2022B8005	BL2	上野 隆史	
			2023A8003	BL2	上野 隆史	
			2019A8052	BL2	岩田 想	
			2019B8029	BL2	岩田 想	

e-Journal of Surface Science and Nanotechnology

46382	Shinya Hosokawa	22 (2023) 25-31	2023A1346	BL47XU	林 好一	Atomic and Electronic Structures on a Mordenite Zeolite
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ECS Transactions

46736	Zhuo Diao	111 (2023) 1145-1152	2020A0728	BL37XU	雨澤 浩史	Investigation on Reaction Mechanism in an SOFC Composite Cathode by Using Patterned Thin Film Electrodes
			2020A1444	BL37XU	雨澤 浩史	
			2020A1445	BL37XU	雨澤 浩史	

Experimental Eye Research

46597	Kehao Wang	241 (2024) 109858	2020A1193	BL20B2	Pierscionek Barbara	Optical Development in the Murine Eye Lens of Accelerated Senescence-prone SAMP8 and Senescence-resistant SAMR1 Strains
			2020A1270	BL20B2	星野 真人	
			2021A1303	BL20B2	Pierscionek Barbara	
			2022A1139	BL20B2	Pierscionek Barbara	

The FASEB Journal

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
46368	Motoyasu Adachi	33 (2019) 3647-3658	2014B1313	BL41XU	安達 基泰	Extended Structure of Pleiotropic DNA Repair-promoting Protein PprA from <i>Deinococcus radiodurans</i>
			2011A1124	BL38B1	玉田 太郎	

Food Chemistry

46420	Hideaki Takagi	443 (2024) 138606	2021B1447	BL40B2	高木 秀彰	A SAXS and USAXS Study of the Influence of pH on the Casein Micelle Structure
			2022A1230	BL40B2	高木 秀彰	
			2022B1142	BL40B2	高木 秀彰	
			2022B3075	BL24XU	高木 秀彰	

Geophysical Research Letters

46405	Satoshi Okumura	50 (2023) e2023GL104083	2021B1248	BL20B2	奥村 聡	A Molecular-Scale Origin of Shear Thinning and Brittle Failure of Silicate Melt
			2022B1139	BL47XU	奥村 聡	
			2021B1201	BL47XU	奥村 聡	
			2022A1259	BL47XU	奥村 聡	

Glycobiology

46641	Takahiro Okada	(2024) Online published 20 Feb. 2024	2020A2579	BL45XU	寺本 岳大	Crystal Structure of Mango α 1,3/4-fucosyltransferase Elucidates Unique Elements that Regulate Lewis A-dominant Oligosaccharide Assembly
			2014B1550	BL38B1	角田 佳充	
			2014B2025	BL26B1	角田 佳充	

Green Chemistry

46356	Hiroshi Itahara	26 (2024) 2190-2197	2022B5070	BL16XU	高橋 直子	Facile Synthesis of Electrocatalytically Active Cu/Graphite using the Negative Electrode of Spent Li-ion Batteries
			2023A5070	BL16XU	高橋 直子	
			2022A5371	BL16B2	小坂 悟	
			2022B5371	BL16B2	小坂 悟	
			2023A5371	BL16B2	小坂 悟	

High Pressure Research

46485	Xun Kang	44 (2024) 25-37	2021A1169	BL02B2	山浦 一成	High-pressure Synthesis of Half-doped Perovskites $MnV_{0.5}Nb_{0.5}O_3$ and $MnV_{0.5}Ta_{0.5}O_3$ with Unusual A-site Small Mn^{2+} Cations
			2022A1067	BL02B2	Belik Alexei	
			2023A2361	BL02B2	山浦 一成	

International Journal of Applied Glass Science

46613	Takato Kajihara	15 (2024) 31-43	2021B2017	BL14B2	梶原 貴人	Effect of $ZrSnO_4$ Solid Solution on the Crystallization Behavior of $Li_2O-Al_2O_3-SiO_2$ Glasses
			2022A1768	BL14B2	梶原 貴人	

International Journal of Plasticity

46744	Hiro Fujihara	174 (2024) 103897	2015A0076	BL20XU	戸田 裕之	Assessment of Hydrogen Embrittlement Behavior in Al-Zn-Mg Alloy through Multi-modal 3D Image-based Simulation
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ISIJ International

46647	Takashi Matsuno	64 (2024) 859-867	2022A1385	BL28B2	松野 崇	Local Yield Stress and Its Unusual Independence on Multi-axial Stress States during Lüders Deformation of Medium-Mn, High-strength Steel
			2020A1097	BL28B2	松野 崇	

IUCrJ

46436	Ami Kobayashi	10 (2023) 544-554	2020A6533	BL44XU	西川 幸志	Structure and Function Relationship of Formate Dehydrogenases: An Overview of Recent Progress
			2021A6629	BL44XU	西川 幸志	
			2021B6629	BL44XU	西川 幸志	
			2022A6724	BL44XU	西川 幸志	
			2022B6724	BL44XU	西川 幸志	

Journal of Applied Crystallography

46486	Yohei Nakanishi	57 (2024) 215-219	2021B7702	BL28XU	竹中 幹人	Time-resolved AUSAXS at BL28XU at SPring-8
			2022A7702	BL28XU	竹中 幹人	
			2022B7702	BL28XU	竹中 幹人	
			2023A7702	BL28XU	竹中 幹人	
			2023A7620	BL28XU	安部 武志	

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
46348	Yoh Kohno	175 (2024) 43-56	2014A1246	BL38B1	平田 章	<i>Escherichia coli</i> tRNA (Gm18) Methyltransferase (TrmH) Requires the Correct Localization of its Methylation Site (G18) in the D-loop for Efficient Methylation
			2016A2547	BL38B1	平田 章	
			2017B2730	BL38B1	平田 章	
			2019B2713	BL26B2	平田 章	

Journal of Colloid and Interface Science

46567	Akiko Yamaguchi	661 (2024) 317-332	2019A1523	BL37XU	高橋 嘉夫	Molecular Geochemistry of Radium: A Key to Understanding Cation Adsorption Reaction on Clay Minerals
			2019B1498	BL37XU	高橋 嘉夫	
			2020A0174	BL01B1	高橋 嘉夫	
			2020A1423	BL01B1	田中 万也	
			2020A3716	BL22XU	横山 啓一	
			2021A3712	BL22XU	横山 啓一	
			2021B3720	BL22XU	山口 瑛子	
			2021B1790	BL39XU	山口 瑛子	
			2022B0577	BL01B1	高橋 嘉夫	
2022B1539	BL39XU	高橋 嘉夫				

Journal of Crystal Growth

46583	Shigeya Naritsuka	630 (2024) 127593	2023A3587	BL11XU	成塚 重弥	A-plane GaN Microchannel Epitaxy on r-plane Sapphire Substrate using Patterned Graphene Mask
			2023B3587	BL11XU	成塚 重弥	

Journal of Geophysical Research, Solid Earth

46559	Kyoko Matsukage	129 (2024) e2023JB027906	2020A0571	BL04B1	西原 遊	Phase Relation and Equation of State of Iron-titanium Oxyhydroxides with α -PbO ₂ Type Crystal Structure at Deep Mantle Conditions
			2020A0619	BL04B1	松影 香子	
			2022A1398	BL04B1	松影 香子	

Journal of Hazardous Materials

46577	Foni B. Biswas	410 (2021) 124569	2020A1615	BL14B2	遠藤 克	Highly Selective and Straightforward Recovery of Gold and Platinum from Acidic Waste Effluents using Cellulose-based Bio-adsorbent
			2019B1828	BL14B2	福住 謙亨	

Journal of Magnetism and Magnetic Materials

46528	Takuo Ohkouchi	593 (2024) 171854	2011B1302	BL25SU	大河内 拓雄	Investigation of Deterministic and Cumulative Nature in Helicity- dependent Optical Switching of Ferrimagnetic Gd-Fe-Co Films
			2012A1232	BL25SU	大河内 拓雄	
			2012B1200	BL25SU	大河内 拓雄	
			2013A1482	BL25SU	大河内 拓雄	
			2013B1304	BL25SU	大河内 拓雄	
			2016B1296	BL25SU	大河内 拓雄	

Journal of Manufacturing Processes

46661	Yuta Funabiki	115 (2024) 40-55	2019B3689	BL14B1	伊與田 宗慶	Convection and Joint Characteristics in Aluminum Alloy Melting Zone during Resistance Spot Welding of Dissimilar Fe-Al Material in External Magnetic Field
			2020A3689	BL14B1	伊與田 宗慶	

Journal of Materials Chemistry C

46509	Ikumi Aratani	12 (2024) 724-735	2022A1244	BL25SU	堀井 洋司	Two-dimensional Metal-organic Nanosheets Composed of Single-molecule Magnets: Structural Modulation and Enhanced Magnetism Utilizing the Steric Hindrance Effect
			2022B1340	BL37XU	堀井 洋司	

Journal of Materials Science

46669	Bhukya Devendar Singh Rathod	(2023) Online published 31 Dec. 2023	2023A1823	BL13XU	辻 伸泰	Effect of Zr Micro-alloying on Microstructure Refinement and Mechanical Property of CoCrNi Medium-entropy Alloy Processed by High-pressure Torsion and Subsequent Annealing
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Journal of Materials Science & Technology

46375	Jun Cheng	187 (2024) 248-257	2023A1294	BL44B2	Zhang Jiawei	Thermoelectric Properties of Heavily Co-doped β -FeSi ₂
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Journal of Orthopaedic 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
46367	Takeshi Matsumoto	(2024) Online published 17 Jan. 2024	2017B1446	BL20B2	松本 健志	Discretizing Low-intensity Whole-body Vibration into Bouts with Short Rest Intervals Promotes Bone Defect Repair in Osteoporotic Mice
			2018B1107	BL20B2	松本 健志	
			2019B1389	BL20B2	松本 健志	
			2021B1309	BL20B2	松本 健志	

The Journal of Physical Chemistry A

46600	Yuta Shuseki	128 (2024) 716-726	2018A1096	BL04B2	小原 真司	Atomic and Electronic Structure in MgO-SiO ₂
			2022A1074	BL04B2	小原 真司	

Journal of Power Sources

46431	Hideaki Oka	580 (2023) 233387	2016B7008	BL33XU	野中 敬正	Quantification of Side Reactions in Lithium-ion Batteries during Overcharging at Elevated Temperatures
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Journal of Solid State Chemistry

46413	Alexei A. Belik	331 (2024) 124543	2023A1496	BL02B2	Belik Alexei	Gd ₂ CuZnMn ₄ O ₁₂ : A-site Columnar-ordered Perovskite with Anisotropic Thermal Expansion and a Gradual Charge-order Transition
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Journal of Synchrotron Radiation

46421	Jun Miyawaki	31 (2024) 208-216	2016A7505	BL07LSU	宮脇 淳	Angle-resolved X-ray Emission Spectroscopy Facility Realized by an Innovative Spectrometer Rotation Mechanism at SPring-8 BL07LSU
			2017B7543	BL07LSU	宮脇 淳	
			2019A7401	BL07LSU	宮脇 淳	
			2019B7401	BL07LSU	宮脇 淳	
			2020A7480	BL07LSU	宮脇 淳	
			2021A7420	BL07LSU	宮脇 淳	

Journal of the Ceramic Society of Japan

46679	Kuda Durayalage Sulasa Devi Ariyapala	132 (2024) 39-44	2021B1008	BL02B2	熊田 伸弘	Ion-exchange and Antibacterial Properties of Layered Silicate, Na-kenyaite, Prepared using Amorphous Silicon Dioxide (a-SiO ₂) Blocks
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Journal of The Electrochemical Society

46547	Hiroyuki Fujimoto	171 (2024) 020534	2023A7619	BL28XU	安部 武志	Charge-Discharge Performances and Mechanisms of Zn-Ion Batteries with β-MnO ₂ , γ-MnO ₂ , and Mn ₂ O ₃ Positive Electrodes
			2023B7619	BL28XU	安部 武志	

Journal of the Japan Petroleum Institute

46572	Junya Ohyama	66 (2023) 180-184	2020A0534	BL01B1	大山 順也	Relationship between Redox Rate and Catalytic Activity of Cu Zeolite in the Partial Oxidation of Methane
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KEK Proceedings

46448	Hidenori Toyokawa	2023 (2024) 77-83	2018A2002	BL04B2	豊川 秀訓	Dual-Wavelength X-ray Diffraction Method by using Photon-Counting CdTe Pixel Detector
			2019A1282	BL04B2	豊川 秀訓	

Molecules

46733	Maxim Khomenko	29 (2024) 1358	2018B1339	BL04B2	Bychkov Evgeny	Gallium Trichloride Fluid: Dimer Dissociation Mechanism, Local Structure, and Atomic Dynamics
			2020A1229	BL04B2	Bychkov Evgeny	

Nano Letters

46544	Kenta Watanabe	24 (2024) 1916-1922	2023B3741	BL22XU	平山 雅章	Stable Photoelectrochemical Reactions at Solid/Solid Interfaces toward Solar Energy Conversion and Storage
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Nano Research

46604	Yongqiang Qiao	17 (2024) 2195-2203	2023B2054	BL02B2	Gao Qilong	Simple Chemical Synthesis and Isotropic Negative Thermal Expansion in MHfF ₆ (M = Ca, Mn, Fe, and Co)
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National Science Review

46466	Ye Yuan	6 (2019) 524-531	2019A1456	BL10XU	Wang Lin	Stoichiometric Evolutions of PH ₃ under High Pressure: Implication for High-T _c Superconducting Hydrides
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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
46473	Hongjie Li	626 (2024) 670-677	2018A8037	BL2	沈 建仁	Oxygen-evolving Photosystem II Structures during S ₁ -S ₂ -S ₃ Transitions
			2018A8010	BL2	菅 倫寛	
			2018B8029	BL2	沈 建仁	
			2018B8055	BL2	菅 倫寛	
			2019A8019	BL2	菅 倫寛	
			2019A8032	BL2	沈 建仁	
			2019B8020	BL2	菅 倫寛	
			2019B8028	BL2	沈 建仁	
			2020A8003	BL2	菅 倫寛	
			2020A2550	BL41XU	沈 建仁	
			2021A2741	BL41XU	沈 建仁	
			2021B6618	BL44XU	菅 倫寛	
			2022A2728	BL41XU	沈 建仁	
			2020A8059	BL2	沈 建仁	
			2021A8003	BL2	菅 倫寛	
			2021B8012	BL3	沈 建仁	
2022A8007	BL3	沈 建仁				
2018A2530	BL41XU	沈 建仁				
2019A2559	BL41XU	沈 建仁				

Nature Catalysis

46362	Shuang Kong	7 (2024) 252-261	2021A1664	BL14B2	中村 龍平	Acid-stable Manganese Oxides for Proton Exchange Membrane Water Electrolysis
			2022B1667	BL14B2	足立 精宏	
			2022A1045	BL14B2	中村 龍平	
			理研	BL44B2		

Nature Plants

46481	Takafumi Kato	5 (2019) 308-315	2015A1024	BL32XU	石谷 隆一郎	Crystal Structure of Plant Vacuolar Iron Transporter VIT1
			2015A1057	BL32XU	西澤 知宏	
			2016A2527	BL32XU	石谷 隆一郎	

New Physics: Sae Mulli

46665	Yumi Kinoshita	73 (2023) 1145-1148	2022A1360	BL35XU	小林 寿夫	Synchrotron-radiation-based ¹⁷⁴ Yb Mössbauer Spectroscopy of the 1/1 Au-Al-Yb Approximant
			2022B1220	BL35XU	小林 寿夫	
			2023A1257	BL35XU	小林 寿夫	
			2021B1235	BL35XU	小林 寿夫	

npj Quantum Materials

46414	Hidefumi Takahashi	8 (2023) 77	2021B1198	BL02B1	中埜 彰俊	Superconductivity in a Ferroelectric-like Topological Semimetal SrAuBi
			2022A1158	BL02B1	中埜 彰俊	

Nucleic Acids Research

46352	Tatsuya Matsuoka	46 (2018) 10368-10379	2017B2720	BL41XU	武田 修一	Structural Basis of Chimpanzee APOBEC3H Dimerization Stabilized by Double-stranded RNA
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Physica Status Solidi - Rapid Research Letters

46461	Takeshi Usuki	(2024) Online published 30 Jan. 2024	2021A1432	BL04B2	Bychkov Evgeny	Atomic Structure and Dynamics of Unusual and Wide-Gap Phase-Change Chalcogenides: A GeTe ₂ Case
			2022A1418	BL04B2	Bychkov Evgeny	

Physical Chemistry Chemical Physics

46734	Yu Chikaoka	26 (2023) 3920-3926	2023A1289	BL04B2	藤井 健太	A Structural Study on a Specific Li-ion Ordered Complex in Dimethyl Carbonate-based Dual-cation Electrolytes
			2023A1623	BL04B2	澤山 沙希	
			2021B1200	BL04B2	直井 勝彦	
			2022A1174	BL04B2	直井 勝彦	

Polymer

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
46689	Tomoka Kozuzawa	298 (2024) 126922	2021A1195	BL43IR	松葉 豪	Absorption of Water Molecules on the Surface of Stereocomplex-crystal Sphenulites of Poly lactides: An in-situ FT-IR Spectroscopy Investigation
			2020A1046	BL19B2	松葉 豪	
			2020A1427	BL43IR	松葉 豪	
			2020A1262	BL40B2	松葉 豪	
			2021A1187	BL40B2	松葉 豪	
			2021A1628	BL19B2	松葉 豪	
			2021A1444	BL40B2	松葉 豪	
			2021A1196	BL40B2	松葉 豪	
			2021B1128	BL43IR	松葉 豪	
			2022A1797	BL19B2	松葉 豪	
			2022A1226	BL43IR	松葉 豪	
			2022B1019	BL40B2	松葉 豪	
			2022B1140	BL43IR	松葉 豪	
			2022B1963	BL19B2	松葉 豪	
			2023A1815	BL19B2	松葉 豪	
			2023A1140	BL43IR	松葉 豪	
2023B1141	BL43IR	松葉 豪				
2022A1136	BL43IR	松葉 豪				
2023B1162	BL43IR	松葉 豪				

Polymer Degradation and Stability

46471	Naotaka Kimura	219 (2023) 110607	2021B7254	BL03XU	岩田 忠久	Enzymatic Degradation Mechanism of the Lamellar Stacking Structures of Poly([R]-3-hydroxybutyrate-co-[R]-3-hydroxyvalerate) Fibers
			2022A7204	BL03XU	岩田 忠久	
			2022B1405	BL05XU	加部 泰三	
			2023A7204	BL05XU	加部 泰三	

Proceedings of the 11th International Symposium on Adaptive Motion of Animals and Machines

46698	Hitoshi Aonuma	(2023) 67-68	2018B1325	BL40XU	青沼 仁志	Musculoskeletal Systems that Generate Extremely Fast Movements in the Trap-jaw Ants
			2019B1128	BL40XU	青沼 仁志	
			2020A1247	BL40XU	青沼 仁志	
			2021A1288	BL40XU	青沼 仁志	
			2018A1240	BL20B2	青沼 仁志	
			2018A1244	BL40XU	青沼 仁志	

Proceedings of The 29th International Colloquium on the Dynamics of Explosions and Reactive Systems

46354	Tadafumi Daitoku	(2023) 301	2021B1344	BL20B2	大徳 忠史	Measurement of Internal Structural Changes during Pyrolysis of Wooden Pellets under a Radiant Heating Field using Synchrotron X-ray CT
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Proteins: Structure, Function, and Bioinformatics

46673	Akiko Kita	(2024) Online published 18 Jan. 2024	2020A2584	BL45XU	喜田 昭子	Crystal Structure of GTP-dependent Dephospho-coenzyme A Kinase from the Hyperthermophilic Archaeon, <i>Thermococcus kodakarensis</i>
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RSC Advances

46541	Kazuki Ouchi	13 (2023) 16321-16326	2018B3610	BL14B1	松村 大樹	Uranium Hydroxide/Oxide Deposits on Uranyl Reduction
			2019A3610	BL14B1	松村 大樹	
			2019B3610	BL14B1	松村 大樹	
			2020A3610	BL14B1	松村 大樹	
			2021A3610	BL14B1	松村 大樹	
			2021B3610	BL14B1	松村 大樹	

Small

46568	Daichi Yazaki	19 (2023) 2208287	2022A1075	BL01B1	川脇 徳久	Carbon Nitride Loaded with an Ultrafine, Monodisperse, Metallic Platinum-Cluster Cocatalyst for the Photocatalytic Hydrogen-Evolution Reaction
			2021B1163	BL01B1	川脇 徳久	
			2021A1102	BL01B1	川脇 徳久	
			2020A1219	BL01B1	山添 誠司	
			2020A1410	BL01B1	平山 純	
			2020A0695	BL01B1	川脇 徳久	

Small Methods

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
46561	Yuta Kimura	7 (2023) 2300310	2020A1303	BL37XU	木村 勇太	5D Analysis of Capacity Degradation in Battery Electrodes Enabled by <i>Operando</i> CT-XANES
			2021B1301	BL37XU	木村 勇太	
			2022A1340	BL37XU	木村 勇太	
			2022B1509	BL37XU	木村 勇太	
			2019B1639	BL37XU	雨澤 浩史	
2021A2002	BL37XU	関澤 央輝				

Soft Matter

46459	Yuto Kaku	20 (2024) 1245-1252	2023A1134	BL40B2	磯部 紀之	Low Solid Content Mouldable Chitin Physical Hydrogel Prepared by Atypical Rupture-free Swelling
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Solid State Ionics

46451	Hidenori Miki	406 (2024) 116481	2020A1899	BL19B2	山本 健太郎	Transient Phase Change of Ruddlesden-Popper Type Perovskite on Fluoride-ion Intercalation Reaction
			2021A1646	BL19B2	山本 健太郎	
			2021A1686	BL19B2	山本 健太郎	
			2021B1879	BL19B2	山本 健太郎	

Springer Proceedings in Materials

46739	Bagautdin Bagautdinov	44 (2024) 1-10	2021B2100	BL04B2	Bagautdinov Bagautdin	Pair Diffraction Function Analysis of Conversion of a Fermat Scroll to an Archimedean Scroll in Multiwalled Carbon Nanotubes
			2016A1836	BL04B2	Bagautdinov Bagautdin	

Structural Dynamics

46415	Christopher J. Milne	10 (2023) 064501	2014B8039	BL3	Milne Christopher	Disentangling the Evolution of Electrons and Holes in Photoexcited ZnO Nanoparticles
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Sustainable Energy & Fuels

46543	Masataka Yoshimoto	8 (2024) 1236-1244	2019A3635	BL14B1	菅野 了次	Intercalative and Non-intercalative Photo-recharge using All-solid-state Cells for Solar Energy Conversion and Storage
			2020A3742	BL22XU	菅野 了次	
			2021A3742	BL22XU	平山 雅章	
			2021B1907	BL46XU	吉本 将隆	
			2021B3738	BL22XU	平山 雅章	
			2022A3741	BL22XU	平山 雅章	
			2022B3741	BL22XU	平山 雅章	
2023A3741	BL22XU	平山 雅章				

TrAC Trends in Analytical Chemistry

46540	Hari Arora	172 (2024) 117588	2019A1310	BL20B2	Arora Hari	Lung Disease Characterised via Synchrotron Radiation Micro-CT and Digital Volume Correlation (DVC)
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Ultrasonics Sonochemistry

46404	Hitoshi Soyama	101 (2023) 106715	2023A1808	BL28B2	矢代 航	Revealing the Origins of Vortex Cavitation in a Venturi Tube by High Speed X-ray Imaging
			2023B1165	BL28B2	矢代 航	

X線分析の進歩 (Advances in X-ray Chemical Analysis, Japan)

46742	Hajime Tanida	55 (2024) 145-152	2021B3713	BL22XU	谷田 肇	Trial of Electron Yield Method on Aqueous Solution Surface by Tender X-ray
			2020A0760	BL27SU	谷田 肇	
			2022B1335	BL27SU	谷田 肇	

まてりあ (Materia Japan)

46743	Hiroyuki Toda	62 (2023) 359-367	2019B2046	BL20XU	戸田 裕之	Suppressing Hydrogen Embrittlement and Stress Corrosion Cracking in Aluminum Alloys via Local Hydrogen Partitioning
			2020A1084	BL20XU	戸田 裕之	
			2020A1796	BL20XU	戸田 裕之	
			2021A1002	BL20XU	戸田 裕之	
			2021B1123	BL20XU	戸田 裕之	
2022A1005	BL20XU	戸田 裕之				

鉄と鋼 (Tetsu to Hagane)

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
46531	Tomohiko Hojo	110 (2024) 227-240	2018B3681	BL14B1	北條 智彦	Stress and Plastic Strain Partitioning Behaviors and Those Contributions to Martensitic Transformation of Retained Austenite in Medium Manganese and Transformation-Induced Plasticity-Aided Bainitic Ferrite Steels
			2020A3681	BL14B1	北條 智彦	
			2021B3681	BL14B1	北條 智彦	

博士論文 (東京大学)

46579	Yosuke Arai	(2023)	2020A0609	BL35XU	黒田 健太	Electronic Structure of Low-carrier Rare Earth Compounds Cerium Monopnictides Investigated by Angle-resolved Photoemission Spectroscopy
			2020A1169	BL35XU	黒田 健太	
46753	Yuki Mizuno	(2020)	2016B1471	BL04B2	山室 修	X-ray Diffraction Studies on Local Structures of Simple Molecular Glasses and Liquids

博士論文 (東京工業大学)

46738	Sho Asano	(2024) 1-132	2021B1964	BL46XU	浅野 翔	Synthesis, Structure and Electrochemical Properties of Si-based Anode/Electrolyte Model Interface for Lithium Battery
			2022B1945	BL46XU	浅野 翔	
46757	Kana Tomita	(2023)	2021B1963	BL19B2	富田 夏奈	Nano Micrometer Size Structural Modification through Laser Absorption in Borosilicate and Silica Glasses for Functional Device Fabrication
			2021B1903	BL14B2	富田 夏奈	
			2022A1788	BL19B2	富田 夏奈	
			2019B3645	BL14B1	矢野 哲司	

博士論文 (University College London)

46538	Qiming Wang	(2023)	2020A1480	BL37XU	Wang Feng	Design, Deactivation and Deployment of Functional Materials in Green Chemical Conversion
			2021B1228	BL37XU	Wang Feng	
			2022A1188	BL37XU	Wang Feng	

博士論文 (九州大学)

46614	Takato Kajihara	(2023)	2021A1648	BL14B2	梶原 貴人	結晶化促進剤を添加したシリケートガラスの結晶化挙動に関する研究
			2021B1937	BL14B2	梶原 貴人	
			2021B2017	BL14B2	梶原 貴人	
			2022A1768	BL14B2	梶原 貴人	
			2022B1858	BL13XU	梶原 貴人	

博士論文 (群馬大学)

46549	Natsuki Hayashi	(2023)	2020A3656	BL14B1	瀬古 典明	放射線グラフト吸着材による金属吸着に関する研究
			2021A3656	BL14B1	瀬古 典明	
			2021B3656	BL14B1	瀬古 典明	
			2022A3656	BL14B1	瀬古 典明	

博士論文 (総合研究大学院大学)

46430	Wataru Yoshimune	(2024)	2017A7032	BL33XU	長井 康貴	Quantum Beam Analysis for Development of Polymer Electrolyte Fuel Cells
			2017B7032	BL33XU	長井 康貴	
			2018A7032	BL33XU	長井 康貴	
			2018B7032	BL33XU	長井 康貴	
			2019A7032	BL33XU	山口 聡	
			2019B7032	BL33XU	山口 聡	
			2020A7032	BL33XU	山口 聡	
			2021B7032	BL33XU	山口 聡	
			2022A7032	BL33XU	山口 聡	

博士論文 (東北大学)

46741	Shuhei Tanaka	(2024)	2017A0136	BL46XU	宮寺 哲彦	Research on Organic Heterostructures on Perylene Derivative Thin Films
			2020A1768	BL46XU	丸山 伸伍	
			2020A1881	BL19B2	丸山 伸伍	
			2022B1569	BL19B2	丸山 伸伍	

博士論文 (兵庫県立大学)

46562	Serina Tanaka	(2024)	2020A0848	BL27SU	田中 芹奈	放射光を用いた自動車パネル用 Al-Mg-Si 合金中におけるナノクラスター形成挙動の解明
			2021B1904	BL14B2	田中 芹奈	

課題以外の成果として登録された論文

Nature Communications

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
46338	Atsushi Yamagata	9 (2018) 3964		BL41XU	Structural Insights into Modulation and Selectivity of Transsynaptic Neurexin-LRRTM Interaction
46349	Kazuki Kato	9 (2018) 4424	理研	BL41XU BL32XU	Structural Insights into cGAMP Degradation by Ecto-nucleotide Pyrophosphatase Phosphodiesterase 1
46422	Masamichi Nagae	9 (2018) 3380		BL44XU	Structure and Mechanism of Cancer-associated N-acetylglucosaminyltransferase-V

Acta Crystallographica Section F

46475	Aoba Ogawa	75 (2019) 450-454	理研	BL26B2	Crystal Structure of the Flavin-dependent Thymidylate Synthase Thy1 from <i>Thermus thermophilus</i> with an Extra C-terminal Domain
46580	Clement Angkawidjaja	75 (2019) 634-639		BL38B1	Crystal Structure of the Fab Region of a Neutralizing Antibody against Granulocyte-macrophage Colony-stimulating Factor

Genes to Cells

46333	Yoshinori Hirano	23 (2018) 370-385		BL41XU BL44XU	The Force-sensing Device Region of α -catenin is an Intrinsically Disordered Segment in the Absence of Intramolecular Stabilization of the Autoinhibitory Form
46399	Takuma Iwasaki	23 (2018) 528-536		BL44XU	Three-dimensional Structures of Bacteriophage Neck Subunits are Shared in <i>Podoviridae</i> , <i>Siphoviridae</i> and <i>Myoviridae</i>

Journal of Medicinal Chemistry

46391	Panfeng Peng	61 (2018) 9621-9636		BL41XU	Structure-Based Design of 1-Heteroaryl-1,3-propanediamine Derivatives as a Novel Series of CC-Chemokine Receptor 5 Antagonists
46446	Fumiyuki Shirai	62 (2019) 3407-3427	理研	BL41XU BL26B2	Discovery of Novel Spiroindoline Derivatives as Selective Tankyrase Inhibitors

Journal of the American Chemical Society

46361	Xiaohan Wang	146 (2024) 1832-1838	理研	BL44B2	Triple Isomerism in 3D Covalent Organic Frameworks
46732	Yingluo Zhao	145 (2023) 13920-13928		BL38B1	Pathway Complexity in Nanotubular Supramolecular Polymerization: Metal-Organic Nanotubes with a Planar-Chiral Monomer

Nucleic Acids Research

46423	Bagher Golzarroshan	46 (2018) 8630-8640		BL44XU	Crystal Structure of Dimeric Human PNPase Reveals why Disease-linked Mutants Suffer from Low RNA Import and Degradation Activities
46667	Diane T. Takahashi	47 (2019) 3784-3794		BL41XU	Structural Basis of Ubiquitin Recognition by the Winged-helix Domain of Cockayne Syndrome Group B Protein

Physical Review B

46373	Ryusuke Misawa	106 (2022) 104401	理研	BL17SU	Magnetic Domains in Two Distinct Antiferromagnetic Phases of CuO
46374	Ryusuke Misawa	108 (2023) 134433	理研	BL17SU	Resonant X-ray Diffraction Study using Circularly Polarized X rays on Antiferromagnetic TbB ₄

Scientific Reports

46419	Park Young Woo	8 (2018) 13244		BL44XU	Structural Analysis of Redox-sensing Transcriptional Repressor Rex from <i>Thermotoga maritima</i>
46428	Yuri Choi	8 (2018) 18061		BL44XU	Structural Insights into the FtsQ/FtsB/FtsL Complex, a Key Component of the Divisome

Structure

46482	Mutsuko Kukimoto-Niino	27 (2019) 741-748	理研	BL32XU	Structural Basis for the Dual Substrate Specificity of DOCK7 Guanine Nucleotide Exchange Factor
46723	Lin Lin	27 (2019) 729-740		BL41XU	Rab35/ACAP2 and Rab35/RUSC2 Complex Structures Reveal Molecular Basis for Effector Recognition by Rab35 GTPase

ACS Chemical Biology

46517	Tomomi Sumida	14 (2019) 1619-1627	理研	BL32XU	Structural Basis of Leader Peptide Recognition in Lasso Peptide Biosynthesis Pathway
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Applied Microbiology and Biotechnology

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
46337	Ekaterina Yu. Bezsudnova	102 (2018) 9621-9633		BL41XU	Diaminopelargonic Acid Transaminase from <i>Psychrobacter cryohalolentis</i> is Active towards (S)-(-)-1-phenylethylamine, Aldehydes and α -diketones

Archives of Biochemistry and Biophysics

46686	Maria G. Alekseeva	671 (2019) 111-122		BL41XU	Identification, Functional and Structural Characterization of Novel Aminoglycoside Phosphotransferase APH(3 ^{II})-Id from <i>Streptomyces rimosus</i> subsp. <i>rimosus</i> ATCC 10970
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Atoms

46344	Beata Ziaja-Motyka	11 (2023) 154	XFEL	BL3	Modeling Femtosecond Reduction of Atomic Scattering Factors in X-ray-Excited Silicon with Boltzmann Kinetic Equations
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Biochemical and Biophysical Research Communications

46586	Yasunori Watanabe	511 (2019) 135-140		BL38B1	Crystal Structure of Substrate-bound Bifunctional Proline Racemase/Hydroxyproline Epimerase from a Hyperthermophilic Archaeon
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Biochemistry

46366	A. V. Sokolov	83 (2018) 701-707		BL41XU	Structural Study of the Complex Formed by Ceruloplasmin and Macrophage Migration Inhibitory Factor
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Biochimica et Biophysica Acta - Bioenergetics

46557	Taiki Motomura	1860 (2019) 148084		BL41XU	An Alternative Plant-like Cyanobacterial Ferredoxin with Unprecedented Structural and Functional Properties
				BL38B1	
				BL44XU	

Biochimica et Biophysica Acta - Proteins and Proteomics

46532	Saki Fujiyama	1867 (2019) 367-375		BL38B1	Insight into the Interaction between PriB and DnaT on Bacterial DNA Replication Restart: Significance of the Residues on PriB Dimer Interface and Highly Acidic Region on DnaT
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Biochimie

46369	Ekaterina Yu. Bezsudnova	158 (2019) 130-138		BL41XU	Biochemical and Structural Insights into PLP Fold Type IV Transaminase from <i>Thermobaculum terrenum</i>
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Biomolecules

46585	Yen T. K. Nguyen	10 (2020) 31		BL38B1	Structural and Functional Analyses of Human ChaC2 in Glutathione Metabolism
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Bioresource Technology

46455	Jon Del Arco	276 (2019) 244-252	理研	BL26B1	Structural and Functional Characterization of Thermostable Biocatalysts for the Synthesis of 6-aminopurine Nucleoside-5'-monophosphate Analogues
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Bioscience, Biotechnology and Biochemistry

46615	Kohei Yoshitani	83 (2019) 684-694		BL41XU	Identification of an Internal Cavity in the PhoQ Sensor Domain for PhoQ Activity and SafA-mediated Control
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Cell Reports

46510	Michio Inoue	27 (2019) 1221-1230	理研	BL32XU	Structural Basis of Sarco/Endoplasmic Reticulum Ca ²⁺ -ATPase 2b Regulation via Transmembrane Helix Interplay
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FEBS Letters

46435	Yasunori Watanabe	593 (2019) 1257-1266		BL41XU	Structural Insights into the Catalytic and Substrate Recognition Mechanisms of Bacterial L-arabinose 1-dehydrogenase
			理研	BL26B1	

The Journal of Biological Chemistry

46418	Narumi Shioi	294 (2019) 1250-1256		BL44XU	Crystal Structure of the Complex between Venom Toxin and Serum Inhibitor from Viperidae Snake
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Journal of Materials Chemistry B

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
46332	Kyoko Yokomaku	6 (2018) 2417-2425		BL41XU	Core-shell Protein Clusters Comprising Haemoglobin and Recombinant Feline Serum Albumin as an Artificial O ₂ Carrier for Cats

The Journal of Physical Chemistry B

46350	Yoshitsugu Morita	122 (2018) 12031-12039		BL41XU	Quaternary Structure Analysis of a Hemoglobin Core in Hemoglobin-Albumin Cluster
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Journal of Synchrotron Radiation

46527	Takahisa Koyama	31 (2024) 276-281	光学系	BL05XU	Sub-micrometre Focusing of Intense 100 keV X-rays with Multilayer Reflective Optics
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Journal of Virology

46476	Marie Kubota	93 (2019) e00344-19	理研	BL26B2	Molecular Mechanism of the Flexible Glycan Receptor Recognition by Mumps Virus
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Nature Chemical Biology

46429	Naoya Shindo	15 (2019) 250-258	理研	BL26B1	Selective and Reversible Modification of Kinase Cysteines with Chlorofluoroacetamides
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Photosynthesis Research

46365	Jinghua Chen	139 (2019) 281-293		BL41XU	Properties and Structure of a Low-potential, Penta-heme Cytochrome <i>c</i> ₅₅₂ from a Thermophilic Purple Sulfur Photosynthetic Bacterium <i>Thermochromatium tepidum</i>
			理研	BL26B1	

PLoS Biology

46397	Kuan-Wei Huang	16 (2018) e2005653		BL44XU	Structural Basis for Overhang Excision and Terminal Unwinding of DNA Duplexes by TREX1
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Proceedings of SPIE

46401	Takahisa Koyama	8139 (2011) 81390I	光学系	BL39XU	Upgrade Status of Hard X-ray 100-nm Probe Beamlines BL37XU and BL39XU at SPring-8
			光学系	BL37XU	

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

46519	David M. Needham	116 (2019) 20574-20583	理研	BL32XU	A Distinct Lineage of Giant Viruses Brings a Rhodopsin Photosystem to Unicellular Marine Predators
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Protein Science

46426	Yota Fukuda	27 (2018) 993-999		BL44XU	Crystal Structure of Secretory Abundant Heat Soluble Protein 4 from One of the Toughest "Water Bears" Micro-animals <i>Ramazzottius varieornatus</i>
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Review of Scientific Instruments

46346	Shotaro Matsumura	95 (2024) 015101		装置&技術	High-precision Finishing Method for Narrow-groove Channel-cut Crystal X-ray Monochromator using Plasma Chemical Vaporization Machining with Wire Electrode
			理研	BL29XU	

RSC Advances

46434	Erika Sakakibara	9 (2019) 18697-18702	理研	BL26B1	Highly Malleable Haem-binding Site of the Haemoprotein HasA Permits Stable Accommodation of Bulky Tetraphenylporphycenes
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