

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

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

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

SPring-8 研究成果登録データベースに 2023 年 4 月～6 月に登録された論文が掲載された主な雑誌と掲載論文数

掲載雑誌	登録論文数	掲載雑誌	登録論文数
Nature Communications	12	Chemistry - A European Journal	5
Angewandte Chemie International Edition	9	Scientific Reports	5
Acta Crystallographica Section F	8	ACS Applied Energy Materials	4
Inorganic Chemistry	8	ACS Applied Materials & Interfaces	4
Journal of the American Chemical Society	8	Acta Crystallographica Section D	4
ACS Catalysis	7	Acta Materialia	4
Chemistry of Materials	7	e-Journal of Surface Science and Nanotechnology	4
The Journal of Physical Chemistry C	7	Japanese Journal of Applied Physics	4
Applied Physics Letters	6	Polymer Journal	4

他全 200 誌、計 337 報

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

課題の成果として登録された論文

Nature Communications

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
45087	Zihui Huang	12 (2021) 1100	2019A2559	BL41XU	沈 建仁	Structure of Photosystem I-LHCI-LHCII from the Green Alga <i>Chlamydomonas reinhardtii</i> in State 2
			2020A2550	BL41XU	沈 建仁	
			2020A8059	BL2	沈 建仁	
45100	Shingo Tojo	11 (2020) 5204	2019A2581	BL45XU	大戸 梅治	Structural Analysis Reveals TLR7 Dynamics Underlying Antagonism
45123	Masahiro Fukuda	6 (2015) 7097	2012A1093	BL32XU	濡木 理	Structural Basis for Dynamic Mechanism of Nitrate/Nitrite Antipport by NarK
			2012B1146	BL32XU	塚崎 智也	
			2012B1162	BL32XU	濡木 理	
			2013A1168	BL32XU	濡木 理	
45232	Xin Tang	13 (2022) 1817	2020A1414	BL25SU	Sepehri Amin Hossein	Magnetic Refrigeration Material Operating at a Full Temperature Range Required for Hydrogen Liquefaction
			2020A2143	BL25SU	小谷 佳範	
45312	Yafei Wang	13 (2022) 6860	2020A1796	BL20XU	戸田 裕之	Switching Nanoprecipitates to Resist Hydrogen Embrittlement in High-strength Aluminum Alloys
			2020A1084	BL20XU	戸田 裕之	
45335	Masahiro Hayakawa	14 (2023) 2741	2019A1057	BL02B1	笹森 貴裕	Flattened 1D Fragments of Fullerene C ₆₀ that Exhibit Robustness toward Multi-electron Reduction
			2019B1129	BL02B1	笹森 貴裕	
			2019B1784	BL02B1	早川 雅大	
			2020A0557	BL02B1	菅又 功	
			2020A1056	BL02B1	笹森 貴裕	
			2020A1644	BL02B1	潘 楊	
			2020A1650	BL02B1	薄葉 純一	
			2020A1656	BL02B1	西野 龍平	
			2021A1578	BL02B1	早川 雅大	
			2021A1592	BL02B1	西野 龍平	
			2021B1435	BL02B1	村田 理尚	
			2021B1798	BL02B1	早川 雅大	
			2021B1833	BL02B1	成田 皓樹	
2022A1705	BL02B1	成田 皓樹				
45364	Nobuyo Higashi-Kuwata	14 (2023) 1076	2021A2725	BL41XU	長谷川 和也	Identification of SARS-CoV-2 M ^{pro} Inhibitors Containing P1' 4-fluorobenzothiazole Moiety Highly Active against SARS-CoV-2
			2021B2560	BL41XU	林 宏典	
45436	Jingkai Bi	13 (2022) 5952	2019B1122	BL10XU	Ma Yanming	Giant Enhancement of Superconducting Critical Temperature in Substitutional Alloy (La,Ce)H ₉
			2021A1172	BL10XU	Zhu Jinlong	
			2021B1407	BL10XU	Zhu Jinlong	
45471	Yuta Yasui	14 (2023) 2337	2021A1599	BL02B2	安井 雄太	Hidden Chemical Order in Disordered Ba ₇ Nb ₄ MoO ₂₀ Revealed by Resonant X-ray Diffraction and Solid-state NMR
			2019A1052	BL02B2	藤井 孝太郎	
			2020A1730	BL19B2	藤井 孝太郎	
			2021B1826	BL02B2	矢口 寛	
45535	Haofeng Wang	13 (2022) 1608	2019A2528	BL41XU	Yang Haitao	Crystal Structures of <i>Wolbachia</i> CidA and CidB Reveal Determinants of Bacteria-induced Cytoplasmic Incompatibility and Rescue

Angewandte Chemie International Edition-1

45147	Koh Sugamata	62 (2023) e202302836	2020A0557	BL02B1	菅又 功	A Linear C=Ge=C Heteroallene with a Di-coordinated Germanium Atom
			2020A0834	BL02B1	西野 龍平	
			2020A1056	BL02B1	笹森 貴裕	
			2020A1644	BL02B1	潘 楊	
			2020A1650	BL02B1	薄葉 純一	
			2020A1656	BL02B1	西野 龍平	
			2021A1592	BL02B1	西野 龍平	
			2021A1578	BL02B1	早川 雅大	
			2021B1435	BL02B1	村田 理尚	
			2021B1833	BL02B1	成田 皓樹	
			2021B1132	BL02B1	森迫 祥吾	
			2021B1798	BL02B1	早川 雅大	
			2022A1200	BL02B1	箕浦 真生	

Angewandte Chemie International Edition-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
45207	Masahiro Hayakawa	62 (2023) e202217512	2017A1132	BL40XU	畠山 琢次	Spiroborate-Based Host Materials with High Triplet Energies and Ambipolar Charge-Transport Properties
			2017B1073	BL40XU	畠山 琢次	
			2018A1114	BL40XU	畠山 琢次	
			2018B1125	BL40XU	畠山 琢次	
			2019A1142	BL40XU	畠山 琢次	
45256	Kazuto Suzuki	62 (2023) e202215706	2019B1063	BL40XU	畠山 琢次	A Compound I Mimic Reveals the Transient Active Species of a Cytochrome P450 Enzyme: Insight into the Stereoselectivity of P450-Catalysed Oxidations
			2021A2759	BL45XU	杉本 宏	
			2018A2576	BL41XU	杉本 宏	
			2019A2519	BL41XU	杉本 宏	
			2020A2556	BL41XU	杉本 宏	
45257	Asahi Takiguchi	61 (2022) e202112456	2020A2556	BL45XU	杉本 宏	A Heme-Acquisition Protein Reconstructed with a Cobalt 5-Oxaporphyrinium Cation and Its Growth-Inhibition Activity Toward Multidrug-Resistant <i>Pseudomonas aeruginosa</i>
45265	Yuya Domoto	(2023) Online published 3 May 2023	理研	BL32XU		Interconversion of Highly Entangled Polyhedra into Concave Polyhedra by Nitrate-Induced Ternary Coordination
			2020A0168	BL26B1	藤田 誠	
			2022A1092	BL26B1	堂本 悠也	
45267	Zhenhong Tan	61 (2022) e202203669	2022B1190	BL26B1	堂本 悠也	LiNbO ₃ -Type Polar Antiferromagnet InVO ₃ Synthesized under High-Pressure Conditions
			2020A0829	BL04B1	譚 振宏	
45482	Hirokazu Miyoshi	61 (2022) e202115316	2019B1757	BL02B2	譚 振宏	Dianion and Dication of Tetracyclopentatetraphenylene as Decoupled Annulene-within-an-Annulene Models
			2018A1327	BL38B1	久木 一朗	
45531	Ming-Shui Yao	(2023) Online published 21 May 2023	2020A1628	BL19B2	北川 進	Integrated Soft Porosity and Electrical Properties of Conductive-on-Insulating Metal-Organic Framework Nanocrystals
			2020A1819	BL46XU	北川 進	
			2021A1542	BL46XU	北川 進	
			2021A1683	BL46XU	北川 進	
			2021B1886	BL46XU	北川 進	

Inorganic Chemistry

45107	Kohdai Ishida	61 (2022) 11118-11123	2020A0823	BL04B1	石田 耕大	Highly Electron-Doped TaON Single-Crystal Growth by a High-Pressure Flux Method
			2021A1568	BL04B1	石田 耕大	
			2021B1774	BL04B1	石田 耕大	
45135	Sachiko Kamiyama	61 (2022) 7841-7846	2021A1342	BL02B2	山本 孟	V-V Dimerization and Magnetic State of Cobalt Ions in Ilmenite-Type CoVO ₃
			2021B1327	BL02B2	山本 孟	
			2021B1726	BL14B2	山田 幾也	
			2021A1343	BL27SU	中村 崇司	
45153	Kazuhiko Mukai	62 (2023) 5602-5613	2020A7037	BL33XU	宇山 健	Dynamic Structural Transformations in a Series of Zero-Strain Lithium-Ion Battery Materials: Almost Simultaneous <i>Operando</i> X-ray Diffraction and X-ray Absorption Spectroscopy on Li ₂ ZnTi ₃ O ₈ and Related Compounds
45321	Hiroki Ubukata	62 (2023) 6696-6703	2020A0822	BL02B2	生方 宏樹	Structural Transformation in LnHS (Ln = La, Nd, Gd, and Er) with Coordination Change between an S-Centered Octahedron and a Trigonal Prism
45368	Mitsuki Ikeda	62 (2023) 7453-7460	2021B1426	BL13XU	久保園 芳博	Pressure Dependence of Superconductivity in a Charge-Density-Wave Superconductor Bi ₂ Rh ₃ Se ₂
			2022A4126	BL12B2	久保園 芳博	
			2022A1388	BL47XU	久保園 芳博	
45370	Mitsuki Ikeda	61 (2022) 20538-20546	2019A4131	BL12B2	久保園 芳博	Superconducting Behavior of BaTi ₂ (Sb _{1-x} Bi _x) ₂ O under Pressure
			2022A4126	BL12B2	久保園 芳博	
45455	Masayuki Fukuda	62 (2023) 8372-8378	2020A1646	BL02B2	福田 真幸	A-Site Columnar-Ordered Perovskite CaZnV ₂ O ₆ as a Pauli-Paramagnetic Metal
45509	Zhao Pan	61 (2022) 3730-3735	2020A0589	BL02B2	Pan Zhao	Realization of Negative Thermal Expansion in Lead-Free Bi _{0.5} K _{0.5} VO ₃ by the Suppression of Tetragonality
			2020A1154	BL44B2	Pan Zhao	
			2021A1156	BL02B2	Pan Zhao	

ACS Catalysis-1

45125	Chihiro Mochizuki	12 (2022) 6149-6158	2019B1840	BL14B2	石田 玉青	Defective NiO as a Stabilizer for Au Single-Atom Catalysts
			2020A1638	BL14B2	村山 美乃	
			2020A1769	BL14B2	村山 美乃	
			2021A1543	BL14B2	石田 玉青	
			2021A1676	BL14B2	村山 美乃	
			2021B1949	BL14B2	村山 美乃	

ACS Catalysis-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
45187	Hiroya Ishikawa	13 (2023) 5744-5751	2022B0519	BL01B1	満留 敬人	Robust Ruthenium Phosphide Catalyst for Hydrogenation of Sulfur-Containing Nitroarenes
			2022B1585	BL14B2	満留 敬人	
			2021B1176	BL01B1	満留 敬人	
45251	Ryo Watari	13 (2023) 5159-5169	2020A5350	BL16B2	野口 真一	Alkoxide-Decorated Copper Nanoparticles on Amidine-Modified Polymers as Hydrogenation Catalysts for Enabling H ₂ Heterolysis
			2019A5350	BL16B2	野口 真一	
			2018B5350	BL16B2	野口 真一	
			2018A5350	BL16B2	野口 真一	
45297	Marina Lučić	12 (2022) 13349-13359	2021A8031	BL2	Hough Michael	Serial Femtosecond Crystallography Reveals the Role of Water in the One- or Two-Electron Redox Chemistry of Compound I in the Catalytic Cycle of the B-Type Dye-Decolorizing Peroxidase DtpB
			2021B8032	BL2	Hough Michael	
45503	Shohei Tada	12 (2022) 7748-7759	2020A1626	BL14B2	大島 一真	Active Sites on Zn _x Zr _{1-x} O _{2-x} Solid Solution Catalysts for CO ₂ -to-Methanol Hydrogenation
45519	Kosuke Sakamoto	13 (2023) 3263-3271	2022B1576	BL14B2	増田 晋也	Partially Thiolated Au ₂₅ Cluster Anchored on Carbon Support via Noncovalent Ligand-Support Interactions: Active and Robust Catalyst for Aerobic Oxidation of Alcohols
			2021B1415	BL01B1	増田 晋也	
45522	Ben Liu	13 (2023) 8485-8502	2022B1746	BL14B2	Liu Ben	Boron Nitride- and Carbon-Supported Iridium-Iron Catalysts for Synthesizing Mono-Alcohols from Biomass-Derived Vicinal Diols

Chemistry of Materials

45104	Tomohiro Ogawa	34 (2022) 5832-5841	2019B1094	BL04B2	堀毛 悟史	Network Size Control in Coordination Polymer Glasses and Its Impact on Viscosity and H ⁺ Conductivity
			2019A1292	BL04B2	堀毛 悟史	
45138	Hajime Yamamoto	32 (2020) 6892-6897	2020A1324	BL27SU	東 正樹	Emergence of a Cubic Phase Stabilized by Intermetallic Charge Transfer in (1-x)PbVO ₃ -xBiCoO ₃ Solid Solutions
45236	Ibrahim Gueye	35 (2023) 1948-1960	2020A4601	BL15XU	Gueye Ibrahim	Analysis of Iodide Transport on Methyl Ammonium Lead Iodide Perovskite Solar Cell Structure Through Operando Hard X-ray Photoelectron Spectroscopy
45285	Kazuyuki Iwase	35 (2023) 2773-2781	2021B1204	BL01B1	神谷 和秀	Rational Strategy for Tuning Electrocatalytic Oxygen Evolution Activity of Perovskite Oxides via Low-Temperature Fluorination
			2022A1165	BL01B1	神谷 和秀	
45322	Hiroki Ubukata	34 (2022) 5654-5662	2020A0822	BL02B2	生方 宏樹	Trihalide Mixing by Size-Flexible H ⁻ Ions in Layered Ba ₂ H ₃ (Cl, Br, I)
			2021B1807	BL02B2	生方 宏樹	
45462	Tsubasa Mikie	34 (2022) 2717-2729	2020A1742	BL46XU	但馬 敬介	Naphthobispyrazine Bisimide: A Strong Acceptor Unit for Conjugated Polymers Enabling Highly Coplanar Backbone, Short π-π Stacking, and High Electron Transport
45508	Zhao Pan	34 (2022) 2798-2803	2020A0589	BL02B2	Pan Zhao	Tolerance Factor Control of Tetragonality and Negative Thermal Expansion in PbTiO ₃ -Based Ferroelectrics
			2020A1154	BL44B2	Pan Zhao	
			2021A1156	BL02B2	Pan Zhao	

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45108	Daichi Takami	126 (2022) 15736-15743	2020A0828	BL28B2	高見 大地	Transient Temperature Response of Supported Rh Nanoparticles in Photothermal Dry Reforming of Methane—An Operando Dispersive X-ray Absorption Spectroscopy Study
			2021A1572	BL28B2	高見 大地	
			2021B1780	BL28B2	高見 大地	
			2019B1515	BL01B1	山本 旭	
			2020A1316	BL01B1	山本 旭	
45219	Yuji Yoshiyama	126 (2022) 4415-4422	2020A1832	BL14B2	細川 三郎	Oxygen Storage Capacity of Co-Doped SrTiO ₃ with High Redox Performance
			2021B1369	BL01B1	細川 三郎	
45350	Kazushige Ueda	127 (2023) 8833-8839	2021A1672	BL14B2	植田 和茂	Site-Dependent Luminescence from Pr ³⁺ in Double-Perovskite-Type Alkaline Earth Lanthanum Tantalates
45369	Ai Suzuki	126 (2022) 21405-21413	2019A4131	BL12B2	久保園 芳博	Elucidation of the Local Structure of the Topological Insulator β-PdBi ₂ by X-ray Fluorescence Holography
			2021A1385	BL13XU	江口 律子	
			2021B1426	BL13XU	久保園 芳博	
			2021B1631	BL13XU	江口 律子	
45440	Yasutaka Kuwahara	127 (2023) 4942-4952	2020A1064	BL01B1	桑原 泰隆	CO ₂ Hydrogenation to Methanol over a Pt-loaded Molybdenum Suboxide Nanosheet with Abundant Surface Oxygen Vacancies
			2021B1090	BL01B1	桑原 泰隆	
45485	Chiaki Ishibashi	127 (2023) 10470-10479	2019B1249	BL04B2	井手本 康	Investigation of Stable Structures and Electronic States of Spinel-Structured MgCo _{2-x} Ni _{0.5} MnAl ₂ O ₄ (Z = 0, 0.3) as Cathode Materials for Magnesium Rechargeable Batteries Using First-Principles Calculations
45501	Taihei Yamamura	125 (2021) 15899-15909	2018B1788	BL14B2	多田 昌平	Effect of Sm Doping on CO ₂ -to-Methanol Hydrogenation of Cu/Amorphous-ZrO ₂ Catalysts

Applied Physics 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
45089	Kiyotaka Tanaka	121 (2022) 172901	2019B1731	BL46XU	神野 伊策	Crystal Structure and Piezoelectric Properties of Lead-free Epitaxial (K,Na)NbO ₃ Thin Films Grown on Si Substrates
			2021B1948	BL46XU	神野 伊策	
45132	Shunki Sawada	122 (2023) 152406	2019B1623	BL10XU	和達 大樹	Lattice Constants and Magnetism of L1 ₀ -ordered FePt under High Pressure
45134	Hajime Yamamoto	120 (2022) 201901	2021A1342	BL02B2	山本 孟	Large Negative Thermal Expansion Induced by Cation Dimerization in Ilmenite-type Vanadate Ceramic
			2021B1327	BL02B2	山本 孟	
45239	Hidetoshi Mizobata	121 (2022) 062104	2020A3833	BL23SU	渡部 平司	Electrical Properties and Energy Band Alignment of SiO ₂ /GaN Metal-oxide-semiconductor Structures Fabricated on N-polar GaN(000 $\bar{1}$) Substrates
			2021A3833	BL23SU	渡部 平司	
			2021B3833	BL23SU	渡部 平司	
45258	Keisuke Ide	121 (2022) 192108	2016B4704	BL15XU	井手 啓介	Low-temperature-processable Amorphous-oxide-semiconductor-based Phosphors for Durable Light-emitting Diodes
			2018A4701	BL15XU	井手 啓介	
			2018B4701	BL15XU	井手 啓介	
45287	Toshihide Sumi	122 (2023) 171601	2021B8037	BL1	堀尾 眞史	Observing Soft X-ray Magnetization-induced Second Harmonic Generation at a Heterojunction Interface
			2022A8027	BL1	堀尾 眞史	

Journal of the American Chemical Society

45136	Hajime Yamamoto	144 (2022) 1082-1086	2021A1342	BL02B2	山本 孟	Cation Dimerization in a 3d ¹ Honeycomb Lattice System
			2021B1327	BL02B2	山本 孟	
45158	Tianxiang Chen	145 (2023) 8464-8473	2021B1099	BL01B1	Lo Benedict	Cu-Co Dual-Atom Catalysts Supported on Hierarchical USY Zeolites for an Efficient Cross-Dehydrogenative C(sp ²)-N Coupling Reaction
			2021B1100	BL02B2	Lo Benedict	
45189	Hao Liang	145 (2023) 9454-9458	2021A1296	BL02B2	大坪 主弥	Self-Assembled Crystalline Bundles in Soluble Metal-Organic Nanotubes
			2021B1170	BL02B2	大坪 主弥	
			2022A1260	BL02B2	大坪 主弥	
			2022B1815	BL02B2	大坪 主弥	
45227	Akira Nagaoka	145 (2023) 9191-9197	2020A1207	BL13XU	永岡 章	Direct Observation of Group-V Dopant Substitutional Defects in CdTe Single Crystals
45292	Amke Nimrich	(2023) Online published 10 May, 2023	2015A8033	BL3	Westenhoff Sebastian	Solvent-Dependent Structural Dynamics in the Ultrafast Photodissociation Reaction of Triiodide Observed with Time-Resolved X-ray Solution Scattering
45507	Shigetada Uemura	145 (2023) 1505-1511	2019A1142	BL40XU	畠山 琢次	Sequential Multiple Borylation Toward an Ultrapure Green Thermally Activated Delayed Fluorescence Material
			2019B1063	BL40XU	畠山 琢次	
			2020A1066	BL02B1	畠山 琢次	
			2021B1125	BL40XU	畠山 琢次	
			2022A1114	BL40XU	畠山 琢次	

Chemistry - A European Journal-1

45106	Mikey Nishimoto	29 (2023) e202203461	2019B1654	BL02B1	焼山 佑美	Acceleration Effect of Bowl-Shaped Structure in Aerobic Oxidation Reaction: Synthesis of Homosumanene <i>ortho</i> -Quinone and Azaacene-Fused Homosumanenes
			2018B1419	BL02B1	焼山 佑美	
			2021B1591	BL02B1	焼山 佑美	
45148	Koh Sugamata	29 (2023) e202203442	2019A1677	BL02B1	鈴木 文陽	Controlling the Flexibility of Carbazole-Based Metal-Organic Frameworks by Substituent Effects
			2019B1129	BL02B1	笹森 貴裕	
			2019B1774	BL02B1	鈴木 文陽	
			2019B1784	BL02B1	早川 雅大	
			2020A0557	BL02B1	菅又 功	
			2020A0834	BL02B1	西野 龍平	
			2020A1056	BL02B1	笹森 貴裕	
			2020A1644	BL02B1	潘 楊	
			2020A1650	BL02B1	薄葉 純一	
			2020A1656	BL02B1	西野 龍平	
			2021A1592	BL02B1	西野 龍平	
			2021A1578	BL02B1	早川 雅大	
			2021B1132	BL02B1	森迫 祥吾	
			2021B1435	BL02B1	村田 理尚	
			2021B1833	BL02B1	成田 皓樹	
			2021B1798	BL02B1	早川 雅大	
			2022A1200	BL02B1	箕浦 真生	
			2022A1354	BL02B1	村田 理尚	
			2022A1584	BL02B1	森迫 祥吾	
			2022A1705	BL02B1	成田 皓樹	
2022B1626	BL02B1	村田 理尚				
2019A1057	BL02B1	笹森 貴裕				

Chemistry - A European Journal-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
45247	Naoki Shibata	28 (2022) e202202196	2011B1060	BL38B1	柴田 直樹	Structural Insights into the Very Low Activity of the Homocoenzyme B ₁₂ Adenosylmethylcobalamin in Coenzyme B ₁₂ -Dependent Diol Dehydratase and Ethanolamine Ammonia-Lyase
			2018A6821	BL44XU	柴田 直樹	
			2018B6821	BL44XU	柴田 直樹	
45431	Shu I. Takagi	29 (2023) e202300181	2020A0557	BL02B1	菅又 功	Stereoselective Synthesis and Characterization of Indenone Azine-Based Electron-Accepting π -Conjugated Systems
			2021A1578	BL02B1	早川 雅大	
			2021A1592	BL02B1	西野 龍平	
			2021B1132	BL02B1	森迫 祥吾	
			2021B1435	BL02B1	村田 理尚	
			2021B1798	BL02B1	早川 雅大	
			2021B1833	BL02B1	成田 皓樹	
			2022A1705	BL02B1	成田 皓樹	
2022B1149	BL40XU	畠山 琢次				
45495	Sebastian Ehrling	28 (2022) e202201281	2020A1323	BL02B2	田中 秀樹	Temperature Driven Transformation of the Flexible Metal-Organic Framework DUT-8(Ni)

ACS Applied Energy Materials

45183	Saki Sawayama	6 (2023) 989-996	2021B1408	BL04B2	藤井 健太	Effect of a Weak Coordination Solvent on a Kinetically Favorable Electrode Reaction in Concentrated Lithium-Ion Battery Electrolytes
			2022A1174	BL04B2	直井 勝彦	
			2022B1346	BL04B2	崔 亮秀	
45249	Xueyan Hou	6 (2023) 2072-2080	2020A0749	BL27SU	中村 崇司	Revisiting Cationic Doping Impacts in Ni-Rich Cathodes
			2021A1343	BL27SU	中村 崇司	
			2021B1660	BL27SU	中村 崇司	
			2022A1424	BL27SU	中村 崇司	
45284	Kazuyuki Iwase	5 (2022) 9292-9296	2021B1204	BL01B1	神谷 和秀	High-Entropy Spinel Oxide Nanoparticles Synthesized via Supercritical Hydrothermal Processing as Oxygen Evolution Electrocatalysts
45430	Yu Chikaoka	6 (2023) 4657-4670	2021B1200	BL04B2	直井 勝彦	Strategy for Ultrafast Cathode Reaction in Magnesium-Ion Batteries Using BF ₄ Anion Based Dual-Salt Electrolyte Systems: A Case Study of FePO ₄
			2022A1499	BL01B1	直井 勝彦	
			2022A1174	BL04B2	直井 勝彦	
			2022B1346	BL04B2	崔 亮秀	

ACS Applied Materials & Interfaces

45210	Takeshi Aihara	15 (2023) 17957-17968	2022A1616	BL01B1	相原 健司	Nanosized Ti-Based Perovskite Oxides as Acid-Base Bifunctional Catalysts for Cyanosilylation of Carbonyl Compounds
45461	Li-Hui Chou	14 (2022) 14400-14409	2021A1641	BL46XU	但馬 敬介	Naphthobisthiadiazole-Based π -Conjugated Polymers for Nonfullerene Solar Cells: Suppressing Intermolecular Interaction Improves Photovoltaic Performance
			2021A1687	BL46XU	森 裕樹	
45464	Naoya Nakao	13 (2021) 56420-56429	2020A1742	BL46XU	但馬 敬介	Pronounced Backbone Coplanarization by π -Extension in a Sterically Hindered Conjugated Polymer System Leads to Higher Photovoltaic Performance in Non-Fullerene Solar Cells
			2021A1641	BL46XU	但馬 敬介	
45568	Yunfei Gao	15 (2023) 30240-30248	2020A1011	BL37XU	内本 喜晴	Protection Against Absorption Passivation on Platinum by a Nitrogen-Doped Carbon Shell for Enhanced Oxygen Reduction Reaction
			2020A1012	BL40B2	内本 喜晴	
			2020A1474	BL28B2	内本 喜晴	
			2020A0754	BL40B2	内本 喜晴	
			2021A1022	BL27SU	内本 喜晴	
2021A1031	BL04B2	内山 智貴				

Acta Materialia

45254	Hiroshi Okuda	253 (2023) 118963	2016B1279	BL45XU	奥田 浩司	Nanoclusters in Stacking Faults in Mg-Y-Zn Alloys Examined by Small-angle X-ray Scattering and Extended X-ray Absorption Fine Structure Analysis
			2017A1437	BL45XU	奥田 浩司	
			2021A1241	BL40B2	奥田 浩司	
45314	Yuantao Xu	236 (2022) 118110	2020A1796	BL20XU	戸田 裕之	Suppressed Hydrogen Embrittlement of High-strength Al Alloys by Mn-rich Intermetallic Compound Particles
			2020A1084	BL20XU	戸田 裕之	
45324	Yafei Wang	227 (2022) 117658	2020A1796	BL20XU	戸田 裕之	<i>In-situ</i> 3D Observation of Hydrogen-assisted Particle Damage Behavior in 7075 Al Alloy by Synchrotron X-ray Tomography
			2020A1084	BL20XU	戸田 裕之	
45473	Yi Cui	249 (2023) 118831	2020A1491	BL20XU	Gourlay Christopher	Nucleation and Growth of Ag ₃ Sn in Sn-Ag and Sn-Ag-Cu Solder Alloys
			2015A1675	BL20XU	野北 和宏	

e-Journal of Surface Science and Nanotechnology

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
45154	Yasutaka Tsuda	21 (2023) 30-39	2015A3802	BL23SU	吉越 章隆	Observation of Chemisorbed O ₂ Molecule at SiO ₂ /Si(001) Interface During Si Dry Oxidation
			2015B3801	BL23SU	吉越 章隆	
			2016A3801	BL23SU	吉越 章隆	
			2016B3801	BL23SU	吉越 章隆	
			2017B3801	BL23SU	吉越 章隆	
			2018A3801	BL23SU	吉越 章隆	
			2018B3801	BL23SU	吉越 章隆	
			2019A3801	BL23SU	吉越 章隆	
			2019B3801	BL23SU	吉越 章隆	
			2020A3801	BL23SU	吉越 章隆	
			2021A3801	BL23SU	吉越 章隆	
			2022A3801	BL23SU	吉越 章隆	
45432	Takuo Ohkouchi	(2023) Online published 13 May, 2023	2016B1288	BL17SU	大河内 拓雄	Visualization of the Exchange Bias Effect in an FeMn/Co Heterostructure via Photoemission Electron Microscopy
			2017A1488	BL17SU	大河内 拓雄	
			2017B1391	BL17SU	大河内 拓雄	
			2018A1404	BL17SU	大河内 拓雄	
			2018B1096	BL17SU	大河内 拓雄	
45434	Tomohiro Matsushita	21 (2023) 183-187	2020A0634	BL25SU	藤井 菜美	An Algorithm to Correct the Sensitivity Distribution of a Retarding Field Analyzer for Photoelectron Holography
			2021A1229	BL25SU	松下 智裕	
			2021B1091	BL25SU	藤井 菜美	
			2022B1187	BL25SU	藤井 菜美	
45536	Yoshimu Iwanami	21 (2023) 207-210	2020A1825	BL46XU	岩波 睦修	HAXPES Study on Chemical States of Reaction Films Formed on Metal Surfaces by Zinc Dialkyldithiophosphate and Molybdenum Dialkyldithiocarbamate

Japanese Journal of Applied Physics

45240	Takato Nakanuma	61 (2022) SC1065	2021A3833	BL23SU	渡部 平司	Comprehensive Physical and Electrical Characterizations of NO Nitrided SiO ₂ /4H-SiC(1120) Interfaces
45245	Yuta Araki	62 (2023) 015003	2021A1099	BL40B2	櫻木 美菜	Evaluation of Terpene-based Hydrophobic Deep Eutectic Solvents as Skin Permeation Enhancers
45348	Kentaro Onishi	62 (2023) 050903	2022A3833	BL23SU	渡部 平司	Formation of High-quality SiO ₂ /GaN Interfaces with Suppressed Ga-oxide Interlayer via Sputter Deposition of SiO ₂
			2022B3833	BL23SU	渡部 平司	
45457	Yuki Sato	62 (2023) SK1012	2021A1641	BL46XU	但馬 敬介	Exciton Dynamics of a Fused Ring π-conjugated Nonfullerene Molecule Based on Dithienonaphthobisthiadiazole
			2021A1687	BL46XU	森 裕樹	

Polymer Journal

45143	Daisuke Tadokoro	55 (2023) 775-783	2017B1719	BL40XU	田所 大輔	Lamellar Crystallization of Poly(trimethylene terephthalate)
			2019B1794	BL40B2	田所 大輔	
			2017A1679	BL40XU	田所 大輔	
			2014B1509	BL40B2	小西 隆士	
			2015B1192	BL40B2	深尾 浩次	
			2017B1119	BL40B2	深尾 浩次	
			2020A1113	BL40B2	小西 隆士	
			2020A1078	BL40B2	田口 健	
45327	Chie Kojima	55 (2023) 63-73	2022A1202	BL43IR	児島 千恵	Comparative Study of PEG and PEGylated Dendrimers in Their Eutectic Mixtures with Water Analyzed using X-ray Diffraction and Infrared Spectroscopy
			2021B1366	BL43IR	児島 千恵	
			2021A1069	BL40B2	鈴木 祥仁	
45458	Kenta Okamoto	55 (2023) 443-450	2019A1765	BL46XU	尾坂 格	Naphthobispyrazine Bisimide-based Semiconducting Polymers as Electron Acceptors for All-polymer Photovoltaic Cells
45528	Hiroki Mori	55 (2023) 405-415	2019A1765	BL46XU	尾坂 格	Synthesis and Solar Cell Applications of Semiconducting Polymers Based on Vinylene-bridged 5-alkoxy-6-fluorobenzo[c][1,2,5]thiadiazole (FOBTzE)
			2022A1656	BL13XU	尾坂 格	

Scientific Reports-1

45120	James A. Pollock	12 (2022) 18469	2018A0150	BL20B2	Hooper Stuart	Precise Phase Retrieval for Propagation-based Images using Discrete Mathematics
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Scientific Reports-2

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
45127	Ryo Mashita	13 (2023) 5805	2016B1283	BL20B2	間下 亮	Insights into the Cavitation Morphology of Rubber Reinforced with a Nano-filler
			2017A1204	BL20B2	間下 亮	
			2017B1403	BL20B2	間下 亮	
			2018B1459	BL20B2	間下 亮	
			2019B1606	BL20B2	間下 亮	
2020A1140	BL20B2	間下 亮				
45188	Al-Amin Ahmed Simon	11 (2021) 14311	2020A1580	BL04B2	坂口 佳史	Introduction of Chalcogenide Glasses to Additive Manufacturing: Nanoparticle Ink Formulation, Inkjet Printing, and Phase Change Devices Fabrication
45561	Pouria Zangj	13 (2023) 9624	2019B1321	BL20XU	百生 敦	Parabolic Gratings Enhance the X-ray Sensitivity of Talbot Interferograms

Acta Crystallographica Section F

45099	Shunya Sakurai	76 (2020) 326-333	2019A2581	BL45XU	大戸 梅治	Crystal Structure of the FYCO1 RUN Domain Suggests Possible Interfaces with Small GTPases
45451	Yo Sonoda	71 (2015) 1488-1497	2013B6849	BL44XU	三上 文三	Structure of Spo0M, a Sporulation-control Protein from <i>Bacillus subtilis</i>
			2014A1308	BL26B1	三上 文三	
			2014A1279	BL26B1	三上 文三	
			2014B1321	BL26B1	三上 文三	
			2014B6948	BL44XU	三上 文三	
2014B1274	BL26B1	三上 文三				
45484	Shouhei Mine	79 (2023) 159-165	2018A6851	BL44XU	峯 昇平	Crystal Structure of Thermostable Acetaldehyde Dehydrogenase from the Hyperthermophilic Archaeon <i>Sulfolobus tokodaii</i>
			2018B6851	BL44XU	峯 昇平	
			2019A6951	BL44XU	峯 昇平	
			2019B6951	BL44XU	峯 昇平	
			2020A6550	BL44XU	峯 昇平	
			2021A6641	BL44XU	峯 昇平	
2021B6641	BL44XU	峯 昇平				

Applied Physics Express

45221	Tae-Hyeon Kil	14 (2021) 081005	2019A1798	BL46XU	清水 皇	Impacts of Band Alignment Change after Interface Nitridation on the Leakage Current of SiO ₂ /4H-SiC (0001) and (1100) MOS Capacitors
			2019B1677	BL46XU	清水 皇	
45241	Takato Nakanuma	15 (2022) 041002	2021A3833	BL23SU	渡部 平司	Impact of Nitridation on the Reliability of 4H-SiC(1120) MOS Devices
			2021B3833	BL23SU	渡部 平司	
45242	Takuji Hosoi	15 (2022) 061003	2018A3833	BL23SU	渡部 平司	Impact of Post-nitridation Annealing in CO ₂ Ambient on Threshold Voltage Stability in 4H-SiC Metal-oxide-semiconductor Field-Effect Transistors
			2018B3833	BL23SU	渡部 平司	
			2019A3833	BL23SU	渡部 平司	
			2019B3833	BL23SU	渡部 平司	

Journal of the Physical Society of Japan

45278	Hitoshi Yamaoka	92 (2023) 064704	2017B4267	BL12XU	辻井 直人	Electronic and Crystal Structures of YbInCu ₄ -Based Compounds under Pressure
			2018A4258	BL12B2	辻井 直人	
			2018A4141	BL12XU	辻井 直人	
			2019B4252	BL12XU	辻井 直人	
			2020A4263	BL12XU	辻井 直人	
			2020A4269	BL12XU	山岡 人志	
			2021A4253	BL12XU	山岡 人志	
			2021B4253	BL12XU	辻井 直人	
2021B4254	BL12XU	山岡 人志				
45452	Hiroki Hanate	92 (2023) 064705	2022B1717	BL43IR	花手 洋樹	Insulating Nature of Iridium Oxide Ca ₅ Ir ₃ O ₁₂ Probed by Synchrotron-Radiation-Based Infrared Spectroscopy
			2021A1198	BL43IR	松平 和之	
45562	Yajun Li	92 (2023) 044801	2020A0731	BL25SU	横谷 尚睦	Photoelectron Holography Study of La(O,F)BiS ₂
			2020A0734	BL25SU	横谷 尚睦	
			2020A1598	BL25SU	横谷 尚睦	
			2021B1027	BL25SU	横谷 尚睦	
			2022A1362	BL25SU	横谷 尚睦	

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
45442	Yizhou Chen	38 (2023) 011050	2016A1603	BL01B1	浅野 駿	Cu K-edge X-ray Absorption Fine Structure Study of T' -type $RE_2CuO_{4+\delta}$ ($RE =$ Rare Earth): Toward Unified Understanding of Electronic State of T' -type Cuprate
			2017B3611	BL14B1	辻 卓也	
			2019B3657	BL14B1	石井 賢司	
			2020A3657	BL14B1	石井 賢司	
			2020A3661	BL14B1	石井 賢司	
			2021A3657	BL14B1	石井 賢司	
45476	Atsuki Kumashita	38 (2023) 011004	2021B2101	BL13XU	田尻 寛男	Simulations of Surface X-ray Diffraction from a Monolayer 4He Film Adsorbed on Graphite
			2021B1226	BL13XU	山口 明	
			2022A2001	BL47XU	田尻 寛男	
45498	Naomi Kawamura	38 (2023) 011108	2016B1149	BL39XU	河村 直己	Study on the Tm Electronic States in TmX_3 ($X = Al, Ga, In,$ and Pd) Using X-ray Emission and Photoemission Spectroscopies
			2019A2057	BL39XU	河村 直己	
			2017A0071	BL09XU	三村 功次郎	
			2019B1658	BL39XU	河村 直己	
			2019B2103	BL39XU	河村 直己	
			2020A1186	BL39XU	河村 直己	
			2021A1132	BL39XU	河村 直己	
			2021B1284	BL39XU	河村 直己	
			2021B1287	BL09XU	河村 直己	
2022A1526	BL39XU	河村 直己				

Macromolecules

45150	Lijuan Guo	56 (2023) 899-914	2022A1276	BL01B1	野村 琴広	Synthesis of Ethylene/Isoprene Copolymers Containing Cyclopentane/Cyclohexane Units as Unique Elastomers by Half-Titanocene Catalysts
45489	Riku Yamanaka	56 (2023) 4354-4361	2022A1193	BL40B2	高橋 倫太郎	<i>In Situ</i> Monitoring of Polymerization-Induced Self-Assembly and Gelation During the Synthesis of Triblock Copolymers via Time-Resolved Small-Angle X-ray Scattering and Rheology
			2022B1233	BL40B2	高橋 倫太郎	
45563	Yusaku Kawai	56 (2023) 4503-4512	2021A1593	BL40B2	河合 優作	Hybridizing a Dual-cross Network and a Linear Glassy Polymer for Dynamic Contributions to High Mechanical Toughness Based on Phase-separated Structures

Physical Review Materials

45244	Kazu Hirose	7 (2023) 045605	2019B7251	BL03XU	廣澤 和	<i>In situ</i> Observation of the Structure and Dynamics of a Polymer Solution through Nonsolvent-induced Phase Separation by X-ray Photon Correlation Spectroscopy
			2020A7201	BL03XU	廣澤 和	
45259	Kazuki Nagai	7 (2023) 043604	2019A1113	BL13XU	若林 裕助	Quantitative Measurement of Structural Fluctuation at $LaNiO_3/LaAlO_3$ Interfaces as a Function of Thickness
45320	Takahiro Moriyama	7 (2023) 054401	2017B0921	BL17SU	壬生 攻	Micromagnetic Understanding of Evolutions of Antiferromagnetic Domains in NiO
			2019B1417	BL17SU	森山 貴広	

Acta Crystallographica Section D

45289	Doo Ri An	71 (2015) 675-686	2012B6741	BL44XU	三上 文三	Structure of Csd3 from <i>Helicobacter pylori</i> , a Cell Shape-determining Metallopeptidase
45306	Petra Baath	78 (2022) 698-708	2018B8068	BL3	Neutze Richard	Lipidic Cubic Phase Serial Femtosecond Crystallography Structure of a Photosynthetic Reaction Centre

Advanced Science

45270	Takafumi Yamamoto	(2023) Online published 25 Apr. 2023	2019B1166	BL02B2	山本 隆文	Emergence of Dynamically-Disordered Phases During Fast Oxygen Deintercalation Reaction of Layered Perovskite
			2020A1068	BL02B2	山本 隆文	
			2020A1852	BL36XU	細川 三郎	
			2021A1130	BL02B2	山本 隆文	
			2021B1159	BL02B2	山本 隆文	
			2022A1341	BL36XU	細川 三郎	
45459	Naoya Nakao	10 (2023) 2205682	2021A1641	BL46XU	但馬 敬介	Halogen-Free π -Conjugated Polymers Based on Thienobenzobisthiazole for Efficient Nonfullerene Organic Solar Cells: Rational Design for Achieving High Backbone Order and High Solubility
			2021B1935	BL46XU	但馬 敬介	

Bulletin of the Chemical Society of Japan

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
45212	Takashi Ohata	96 (2023) 274-282	2016B1862	BL19B2	牧浦 理恵	Influence of the Solvent on the Assembly of Ni ₃ (hexaiminotriphenylene) ₂ Metal-Organic Framework Nanosheets at the Air/Liquid Interface
			2017A1569	BL19B2	牧浦 理恵	
			2018A1559	BL19B2	牧浦 理恵	
			2018A2065	BL19B2	渡辺 剛	
			2018A2066	BL19B2	渡辺 剛	
			2018B1802	BL19B2	渡辺 剛	
			2018B1840	BL19B2	牧浦 理恵	
			2019A1771	BL19B2	大畑 考司	
			2019B1860	BL19B2	大畑 考司	
			2019B1857	BL46XU	渡辺 剛	
2021A1658	BL46XU	大畑 考司				
2017B1899	BL19B2	牧浦 理恵				
45250	Atsuya Muranaka	95 (2022) 1428-1437	2021A1075	BL40XU	高谷 光	Naked-Eye-Detectable Supramolecular Sensing System for Glutaric Acid and Isophthalic Acid
			2021B1098	BL40XU	高谷 光	
			2022A1292	BL40XU	高谷 光	
			2021A1067	BL47XU	高谷 光	

Catalysis Today

45218	Saburo Hosokawa	411-412 (2023) 113815	2019A1761	BL14B2	細川 三郎	Dynamic Behavior of Pd/Ce ₂ AlMnO _{5.5} for Purifying Automotive Exhaust Gases under Fluctuating Oxygen Concentration
			2018B1786	BL14B2	細川 三郎	
45336	Hiroshi Yoshida	410 (2023) 102-108	2020A1834	BL14B2	芳田 嘉志	Ce-modified Rh Overlayer for a Three-way Catalytic Converter with Oxygen Storage/Release Capability

Chemical Science

45130	Yoshinao Kobayashi	14 (2023) 1065-1071	2021A1139	BL02B1	砂田 祐輔	Germanium Hydrides as an Efficient Hydrogen-Storage Material Operated by an Iron Catalyst
45263	Teerat Watcharatpong	13 (2022) 11422-11426	2022A1813	BL14B2	田部 博康	Coordination Polymer-forming Liquid Cu(2-isopropylimidazolate)
			2019B1093	BL02B2	堀毛 悟史	

Chemistry Letters

45075	Narumi Itoh	52 (2023) 177-180	2020A1056	BL02B1	笹森 貴裕	Synthesis of a Dibenzo-1,6,2,5-dioxadisilocene and Its Unexpected Reductive Coupling with Phenanthrene
			2021A1578	BL02B1	早川 雅大	
			2021B1435	BL02B1	村田 理尚	
			2021B1132	BL02B1	森迫 祥吾	
			2021B1798	BL02B1	早川 雅大	
			2022A1584	BL02B1	森迫 祥吾	
2022A1354	BL02B1	村田 理尚				
45490	Thu Thao Pham	51 (2022) 877-880	2022A1193	BL40B2	高橋 倫太郎	Stable Water-soluble Polyion Complex Micelles Composed of Oppositely Charged Diblock Copolymers and Reinforced by Hydrophobic Interactions

ChemSusChem

45463	Masahiko Saito	14 (2021) 5032-5041	2018A1747	BL46XU	尾坂 格	Contrasting Effect of Side-Chain Placement on Photovoltaic Performance of Binary and Ternary Blend Organic Solar Cells in Benzodithiophene-Thiazolothiazole Polymers
			2019A1765	BL46XU	尾坂 格	
			2021A1558	BL46XU	尾坂 格	
45514	Takeshi Nishimoto	16 (2023) e202201808	2021B1168	BL01B1	吉田 真明	High Current Density Oxygen Evolution in Carbonate Buffered Solution Achieved by Active Site Densification and Electrolyte Engineering

Communications Chemistry

45523	Yoshihiko Umehara	6 (2023) 93	2021B1239	BL02B1	砂田 祐輔	Dinuclear and Tetranuclear Group 10 Metal Complexes Constructed from Linear Tetrasilane Comprising both Si-H and Si-Si Moieties
			2022A1127	BL02B1	砂田 祐輔	
45532	Mohana Shivanna	6 (2023) 62	2021A1149	BL02B2	北川 進	Selective Sorption of Oxygen and Nitrous Oxide by an Electron Donor-incorporated Flexible Coordination Network
			2021A1682	BL14B2	北川 進	
			2022A1580	BL02B2	北川 進	

IOP Conference Series: Materials Science and Engineering

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
45223	Sota Tsuji	1274 (2023) 012055	2020A0769	BL20XU	安田 秀幸	Microstructure Evolution Induced by Solidification and Ferrite-austenite Massive-like Transformation in Fe-C Alloys
			2021B1560	BL47XU	安田 秀幸	
			2021A1499	BL20XU	安田 秀幸	
			2019B1482	BL47XU	安田 秀幸	
			2020A1564	BL47XU	安田 秀幸	
45225	Ayano Yamamura	1274 (2023) 012044	2020A1564	BL47XU	安田 秀幸	Data Assimilation for Dendritic Solidification with Melt Convection: Phase-field Lattice Boltzmann Study

The Journal of Chemical Physics

45155	Yasutaka Tsuda	157 (2022) 234705	2015A3802	BL23SU	吉越 章隆	Roles of Excess Minority Carrier Recombination and Chemisorbed O ₂ Species at SiO ₂ /Si Interfaces in Si Dry Oxidation: Comparison between p-Si(001) and n-Si(001) Surfaces
			2015B3801	BL23SU	吉越 章隆	
			2016A3801	BL23SU	吉越 章隆	
			2016B3801	BL23SU	吉越 章隆	
			2017A3801	BL23SU	吉越 章隆	
			2017B3801	BL23SU	吉越 章隆	
			2018A3801	BL23SU	吉越 章隆	
			2018B3801	BL23SU	吉越 章隆	
			2019A3801	BL23SU	吉越 章隆	
			2019B3801	BL23SU	吉越 章隆	
			2020A3801	BL23SU	吉越 章隆	
			2021A3801	BL23SU	吉越 章隆	
45226	Hiroshi Matsui	156 (2022) 204504	2020A1098	BL43IR	松井 広志	Mechanisms of the Antiferro-electric Ordering in Superprotonic Conductors Cs ₃ H(SeO ₄) ₂ and Cs ₃ D(SeO ₄) ₂
			2019A1081	BL43IR	松井 広志	
			2021B1199	BL43IR	松井 広志	

Journal of Geophysical Research: Solid Earth

45513	Yu Nishihara	128 (2023) e2022JB026165	2015A0075	BL04B1	入船 徹男	Rheology of Hexagonal Close-Packed (hcp) Iron
45525	Fang Xu	127 (2022) e2021JB023586	2014B1778	BL04B1	徐 放	Deformation of Post-Spinel Under the Lower Mantle Conditions
			2015B1761	BL04B1	徐 放	
			2016A1629	BL04B1	徐 放	

The Journal of Physical Chemistry Letters

45084	Shota Taguchi	11 (2020) 8908-8913	2019A8032	BL2	沈 建仁	Formation of the High-Spin S ₂ State Related to the Extrinsic Proteins in the Oxygen Evolving Complex of Photosystem II
			2019B8028	BL2	沈 建仁	
			2019A2559	BL41XU	沈 建仁	
			2020A2550	BL41XU	沈 建仁	
45110	Hiroki Yamada	14 (2023) 3574-3580	2017A1657	BL13XU	山田 大貴	Atom-Selective Analyses Reveal the Structure-Directing Effect of Cs Cation on the Synthesis of Zeolites
			2021A1455	BL04B2	山田 大貴	
			2017A3751	BL22XU	町田 晃彦	
			2017B3785	BL22XU	脇原 徹	
			2018B2095	BL04B2	尾原 幸治	
			2019A2058	BL04B2	尾原 幸治	
			2019B2091	BL04B2	尾原 幸治	
			2018A3751	BL22XU	町田 晃彦	
			2018B3783	BL22XU	脇原 徹	
2018A2056	BL37XU	尾原 幸治				

Journal of Solid State Chemistry

45276	Hiroataka Ashitani	319 (2023) 123796	2021B1619	BL02B2	久保田 佳基	Time-resolved <i>in-situ</i> X-ray Diffraction and Crystal Structure Analysis of Porous Coordination Polymer CPL-1 in CO ₂ Adsorption
			2022A1721	BL02B2	芦谷 拓高	
			2022A1468	BL02B2	久保田 佳基	
			2019A0068	BL02B2	森吉 千佳子	
45323	Hiroki Ubukata	312 (2022) 123253	2020A1683	BL04B1	生方 宏樹	Pressure-induced Structural Phase Transition in BaHCl
			2021A1581	BL04B1	生方 宏樹	
			2021B1802	BL04B1	生方 宏樹	
			2021B2088	BL04B1	肥後 祐司	

Journal of Synchrotron Radiation

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
45096	Takuya Imai	30 (2023) 627-633	2020A0670	BL28B2	今井 拓哉	High-energy Synchrotron-Radiation-based X-ray Micro-tomography Enables Non-destructive and Micro-scale Palaeohistological Assessment of Macro-scale Fossil Dinosaur Bones
			2019B1416	BL28B2	今井 拓哉	
45118	Mitchell C. Chalmers	28 (2021) 283-291	2012B1315	BL20B2	Pavlov Konstantin	Tomographic Reconstruction using Tilted Laue Analyser-based X-ray Phase-contrast Imaging

Macromolecular Symposia

45139	Yu Tomofuji	408 (2023) 2200025	2020A1132	BL40B2	寺尾 憲	Complex Formation Behavior of Silica Nanoparticles and Xanthan
			2020A0529	BL40B2	寺尾 憲	
			2021A1092	BL40B2	寺尾 憲	
45140	Ken Terao	408 (2023) 2200024	2010B1126	BL40B2	寺尾 憲	Molecular Conformation and Intermolecular Interactions of Linear and Cyclic Amylose Derivatives in Solution
			2011A1049	BL40B2	寺尾 憲	
			2011B1068	BL40B2	寺尾 憲	
			2013A1046	BL40B2	寺尾 憲	
			2014B1087	BL40B2	寺尾 憲	
			2015A1179	BL40B2	寺尾 憲	
			2015B1100	BL40B2	寺尾 憲	
			2018A1124	BL40B2	寺尾 憲	
			2019A1072	BL40B2	寺尾 憲	
			2019B1113	BL40B2	寺尾 憲	
			2018B1088	BL40B2	寺尾 憲	
2016A1053	BL40B2	寺尾 憲				
2016B1088	BL40B2	寺尾 憲				

Nanoscale

45248	Tokuhiisa Kawawaki	15 (2023) 7272-7279	理研	BL36XU		Pt ₁₇ Nanocluster Electrocatalysts: Preparation and Origin of High Oxygen Reduction Reaction Activity
			2022A1075	BL01B1	川脇 徳久	
45565	Sota Funaki	15 (2023) 5201-5208	2022B1823	BL01B1	川脇 徳久	Improved Activity for the Oxygen Evolution Reaction using a Tiara-like Thiolate-protected Nickel Nanocluster
			2022A1075	BL01B1	川脇 徳久	
			2021B1163	BL01B1	川脇 徳久	
			2021A1102	BL01B1	川脇 徳久	
			2020A0695	BL01B1	川脇 徳久	

Nature Astronomy

45386	Motoo Ito	6 (2022) 1163-1171	2021B0185	BL20XU	松本 恵	A Pristine Record of Outer Solar System Materials from Asteroid Ryugu's Returned Sample
			2019A0165	BL20XU	土山 明	
			2019A0165	BL47XU	土山 明	
			2021B0185	BL47XU	松本 恵	
45499	Takaaki Noguchi	7 (2023) 170-181	2019A0165	BL47XU	土山 明	A Dehydrated Space-weathered Skin Cloaking the Hydrated Interior of Ryugu
			2021B0185	BL47XU	松本 恵	
			2020A0602	BL47XU	土山 明	

Nature Chemistry

45439	Kiyofumi Takaba	15 (2023) 491-497	2021B8018	BL3	米倉 功治	Structural Resolution of a Small Organic Molecule by Serial X-ray Free-Electron Laser and Electron Crystallography
45527	Kentaro Yonesato	15 (2023) 940-947	2020A1219	BL01B1	山添 誠司	Surface-exposed Silver Nanoclusters inside Molecular Metal Oxide Cavities
			2021A1272	BL01B1	山添 誠司	
			2022A1627	BL01B1	吉川 聡一	
			2021A1034	BL02B1	小島 達弘	
			2022A1111	BL02B1	鈴木 康介	

Physica Status Solidi B

45105	Monami Asai	259 (2022) 2100567	2018B1397	BL02B2	宮崎 秀俊	Hard X-Ray Photoemission Study of Heusler-Type Fe _{2-x} Re _x VAI Thermoelectric Compounds
			2020A1492	BL47XU	宮崎 秀俊	
45172	Yoshifumi Sakaguchi	257 (2020) 2000178	2018A1106	BL04B2	坂口 佳史	Excitation Light Energy Dependence of Silver Photodiffusion into Amorphous Germanium Sulfide: Neutron and X-Ray Reflectivity and X-Ray Diffraction

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
45299	Nobuto Abe	106 (2022) 125106	2019B1248	BL47XU	組頭 広志	Rocksalt CeO Epitaxial Thin Film as a Heavy-fermion System Transiting from <i>p</i> -type Metal to Partially Compensated <i>n</i> -type Metal by 4 <i>f</i> Delocalization
45510	Naoyuki Katayama	107 (2023) 245113	2019B1085	BL44B2	片山 尚幸	Observation of Local Atomic Displacements Intrinsic to the Double Zigzag Chain Structure of 1 <i>T</i> -MTe ₂ (<i>M</i> = V, Nb, Ta)
			2019A0070	BL02B1	澤 博	
			2021B1261	BL02B1	鬼頭 俊介	
			2021B1136	BL02B2	片山 尚幸	
			2022A0304	BL02B1	原 武史	
			2022B0607	BL02B1	小島 慶太	
			2022B1570	BL19B2	片山 尚幸	
			2022B1582	BL02B1	鬼頭 俊介	
2022B1862	BL02B1	澤 博				

Physical Review Research

45296	Eva Zarkadoula	4 (2022) 013022	2018B8041	BL3	篠原 佑也	X-ray Free-electron Laser Heating of Water at Picosecond Time Scale
			2019A8043	BL3	篠原 佑也	
45443	Dominik Kraus	5 (2023) L022023	2019A8070	BL3	Kraus Dominik	Indirect Evidence for Elemental Hydrogen in Laser-compressed Hydrocarbons

Science

45389	Tetsuya Yokoyama	379 (2022) abn7850	2020A0770	BL20XU	上楯 真之	Samples Returned from the Asteroid Ryugu are Similar to Ivuna-type Carbonaceous Meteorites
			2020A1211	BL47XU	上楯 真之	
			2021B1404	BL47XU	上楯 真之	
			2019A0165	BL20XU	土山 明	
			2021B0185	BL20XU	松本 恵	
			2019A0165	BL47XU	土山 明	
45497	Tomoki Nakamura	379 (2022) abn8671	2019A0165	BL20XU	土山 明	Formation and Evolution of Carbonaceous Asteroid Ryugu: Direct Evidence from Returned Samples
			2019A0165	BL47XU	土山 明	
			2021B0185	BL20XU	松本 恵	
			2021B0185	BL47XU	松本 恵	
			2020A0174	BL37XU	高橋 嘉夫	
			2020A0602	BL47XU	土山 明	

Science Advances

45170	Kazuya Nishio	9 (2023) eadf1956	2015B6544	BL44XU	水島 恒裕	Defective Import of Mitochondrial Metabolic Enzyme Elicits Ectopic Metabolic Stress
			2016A6643	BL44XU	水島 恒裕	
			2016B6643	BL44XU	水島 恒裕	
			2020A6549	BL44XU	水島 恒裕	
			2021A6640	BL44XU	水島 恒裕	
			2021B6640	BL44XU	水島 恒裕	
45274	Hiroya Oki	8 (2022) eabo3013	2018A2553	BL38B1	中村 昇太	Structural Basis for the Toxin-coregulated Pilus-dependent Secretion of <i>Vibrio cholerae</i> Colonization Factor
			2019A2570	BL26B1	中村 昇太	
			2020A2565	BL26B1	中村 昇太	
			2021A2755	BL26B1	中村 昇太	

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

45161	Kouji Takahara	54 (2023) 75-80	2022A3231	BL24XU	住田 弘祐	Evaluation of Sample Charging in Near-ambient-pressure X-ray Photoelectron Spectroscopy
			2022B3231	BL24XU	住田 弘祐	
45166	Shuhei Yamada	54 (2023) 111-117	2018A1574	BL20XU	岩波 睦修	Internal Structure Analysis of Using X-Ray Tomography to Determine the Suitable Macro Pore Structure of the RDS Catalysts
			2019A1633	BL20XU	岩波 睦修	

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

45302	Akinobu Niozu	19 (2022) 80-88	2016A8057	BL3	上田 潔	XFEL 利用の単粒子 X 線回折で探る Xe クラスターの結晶化ダイナミクス
			2016B8077	BL3	上田 潔	
45454	Yoshiaki Kumagai	20 (2023) 36-55	2017B8056	BL3	熊谷 嘉晃	X 線自由電子レーザー誘起ナノプラズマの生成・崩壊ダイナミクス
			2015B8057	BL3	上田 潔	
			2014B8057	BL3	上田 潔	
			2014A8040	BL3	上田 潔	

2023 35th International Symposium on Power Semiconductor Devices and ICs (ISPSD)

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
45567	Takuma Nanjo	(2023) 223-226	2021B5132	BL16XU	山田 高寛	Demonstration of Fundamental Characteristics for Power Switching Application in Planer Type E-mode MOS-HEMT Using Normally Depleted AlGaN GaN Epitaxial Layer on Si Substrate
			2022A5130	BL16XU	野口 宗隆	
			2022A5131	BL16XU	南條 拓真	

ACS Applied Electronic Materials

45178	Chih-Yu Teng	5 (2023) 1114-1122	2019B4265	BL12XU	Tseng Yuan-Chieh	Optimizing the Ferroelectric Properties of Hf _{1-x} Zr _x O ₂ Films via Crystal Orientation
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ACS Applied Nano Materials

45544	Hiroshi Itahara	5 (2022) 11991-11996	2021B5371	BL16B2	小坂 悟	Dealloyed Intermetallic Cu ₅ Ca Fine Powders as Nanoporous Electrocatalysts for CO ₂ Reduction
			2021B5070	BL16XU	高橋 直子	

ACS Infectious Diseases

45534	Mengmeng Lin	8 (2022) 150-158	2019A2528	BL41XU	Yang Haitao	Structural Basis of Zika Virus Helicase in RNA Unwinding and ATP Hydrolysis
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ACS Nano

45246	Yuya Murai	15 (2021) 19225-19232	2019B1392	BL25SU	北浦 良	Versatile Post-Doping toward Two-Dimensional Semiconductors
			2020A1352	BL25SU	北浦 良	

ACS Omega

45288	Naoto Kitamura	7 (2022) 46915-46921	2021A1643	BL19B2	井手本 康	Facile Surface Modification of MgMn ₂ O ₄ Positive-Electrode Material for Improving Cycle Performance of Magnesium Rechargeable Batteries
			2021A1644	BL14B2	井手本 康	

Advanced Energy Materials

45456	Kodai Yamanaka	13 (2023) 2203443	2019A1765	BL46XU	尾坂 格	Interplay between π -Conjugated Polymer Donors and Acceptors Determines Crystalline Order of Their Blends and Photovoltaic Performance
			2021B1935	BL46XU	但馬 敬介	
			2022A1656	BL13XU	尾坂 格	

Advanced Functional Materials

45171	Hiroshi Yaguchi	33 (2023) 2214082	2021B1826	BL02B2	矢口 寛	High Oxide-Ion Conductivity through the Interstitial Oxygen Site in Sillén Oxychlorides
			2021A1599	BL02B2	安井 雄太	
			2022A1270	BL02B2	藤井 孝太郎	

Advanced Materials Interfaces

45560	Yoshiaki Ishihara	10 (2023) 2300258	2020A7483	BL07LSU	小坂谷 貴典	In Situ Electrical Detection of Methane Oxidation on Atomically Thin IrO ₂ Nanosheet Films Down to Room Temperature
			2020A7491	BL07LSU	小坂谷 貴典	
			2021A7401	BL07LSU	山本 達	
			2021A7496	BL07LSU	小坂谷 貴典	

Advanced Therapeutics

45281	Noriko Miyamoto	6 (2023) 2200265	2021A1291	BL40B2	秋葉 勇	Oncogenic RAS Networks Suppression: Reversibly Ionic Oligonucleotide-Based Nanoparticles Caged microRNA-143 Inhibit KRAS-Mutated Colon Cancer Growth in Tumor-Bearing Mice
			2021A1099	BL40B2	櫻木 美菜	

APL Materials

45300	Mizuki Ohno	11 (2023) 051107	2022B0504	BL14B2	組頭 広志	Novel Supercell Compounds of Layered Bi-Rh-O with <i>p</i> -type Metallic Conduction Materialized as a Thin Film Form
			2022B1574	BL09XU	組頭 広志	

Applied Catalysis B

45441	Kaining Li	331 (2023) 122713	2022A1171	BL01B1	桑原 泰隆	Aminopolymer-functionalized Hollow Carbon Spheres Incorporating Ag Nanoparticles for Electrochemical Syngas Production from CO ₂
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Applied Surface Science

45211	Sung Soo Ha	595 (2022) 153547	2019B4903	BL15XU	Ha Sung Soo	Behavior of the Monoclinic Order in VO ₂ Thin Films Grown on Sapphire Near the Metal-insulator Transition
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Biochemical and Biophysical Research 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
45273	Yuri Tomabechi	470 (2016) 88-93	2013B1133	BL41XU	関根 俊一	Crystal Structure of NanoKAZ: The Mutated 19 kDa Component of <i>Oplophorus</i> Luciferase Catalyzing the Bioluminescent Reaction with Coelenterazine

Biochimica et Biophysica Acta - Bioenergetics

45291	Kazumasa Muramoto	1864 (2023) 148956	2021A6644	BL44XU	村本 和優	Calcium-bound Structure of Bovine Cytochrome c Oxidase
			2021B6644	BL44XU	村本 和優	
			2022A6737	BL44XU	村本 和優	
			2018A6854	BL44XU	村本 和優	

Bioorganic and Medicinal Chemistry

45162	Yasuaki Anami	23 (2015) 7274-7281	2008B1424	BL38B1	伊藤 暢聡	Fine Tuning of Agonistic/Antagonistic Activity for Vitamin D Receptor by 22-alkyl Chain Length of Ligands: 22S-Hexyl Compound Unexpectedly Restored Agonistic Activity
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Cell Reports Physical Science

45453	Ummugulsum Gunes	4 (2023) 101380	2019B1808	BL46XU	柴山 直之	Drastic Influence of Substituent Position on Orientation of 2D Layers Enables Efficient and Stable 3D/2D Perovskite Solar Cells
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Catalysis Science & Technology

45504	Masaru Kondo	13 (2023) 2247-2254	2022A1782	BL14B2	田代 啓悟	Catalysis of Surface Dispersed Cu ²⁺ Species on t-ZrO ₂ : Square-planar Cu Catalyzed Cross-coupling of Arylboronic Acid and Imidazole
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Cellulose

45220	Akari Okugawa	30 (2023) 4149-4158	2018A1066	BL40B2	山根 千弘	Dynamic Viscoelastic Behavior of Natural Cellulose Fibers Caused by Water and the Related Swelling Phenomenon
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Ceramics International

45271	Wenrui Zhang	48 (2022) 16522-16528	2020A1730	BL19B2	藤井 孝太郎	Improved Oxide-ion Conductivity by Substitution of Sr for Bi in Dion-Jacobson Phase CsBi ₂ Ti ₂ NbO ₁₀
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Chem Catalysis

45290	Shusaku Shoji	2 (2022) 321-329	2018A4600	BL15XU	阿部 英樹	Charge Partitioning by Intertwined Metal-oxide Nano-architectural Networks for the Photocatalytic Dry Reforming of Methane
			2018B4601	BL15XU	阿部 英樹	
			2019A4600	BL15XU	阿部 英樹	
			2019B4600	BL15XU	阿部 英樹	
			2020A4600	BL15XU	阿部 英樹	
			2020A4650	BL15XU	阿部 英樹	

ChemBioChem

45255	Yuma Shisaka	23 (2022) e202200095	2021A2759	BL45XU	杉本 宏	Tetraphenylporphyrin Enters the Ring: First Example of a Complex between Highly Bulky Porphyrins and a Protein
			2018A2576	BL41XU	杉本 宏	
			2019A2519	BL41XU	杉本 宏	
			2020A2556	BL41XU	杉本 宏	
			2020A2556	BL45XU	杉本 宏	
			理研	BL26B1		
			理研	BL26B2		

Chemical and Pharmaceutical Bulletin

45079	Hiroki Saito	71 (2023) 289-298	2017B1449	BL43IR	小幡 誉子	Effects and Mode of Action of Oleic Acid and Tween 80 on Skin Permeation of Disulfiram
			2018A1078	BL40B2	小幡 誉子	
			2018A1092	BL43IR	小幡 誉子	
			2018B1273	BL40B2	小幡 誉子	
			2018B1287	BL43IR	小幡 誉子	
			2019A1283	BL43IR	小幡 誉子	
			2020A1411	BL43IR	小幡 誉子	
			2021A1205	BL43IR	小幡 誉子	

Chemistry and Physics of Lipids

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
45427	Tomonobu Uchino	254 (2023) 105305	2015A1387	BL40B2	内野 智信	Comparative Analysis of Intercellular Lipid Organization and Composition between Psoriatic and Healthy Stratum Corneum
			2015B1197	BL40B2	内野 智信	
			2019A1139	BL40B2	内野 智信	

Chinese Journal of Chemistry

45076	Waner He	41 (2023) 1028-1036	2020A0651	BL40B2	松本 英俊	Tetramethylammonium Iodide Additive for Enhancing the Charge Carrier Mobilities of Diketopyrrolopyrrole-Based Conjugated Polymer in Ambipolar Organic Field-Effect Transistors
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Communications Biology

45222	Shoun Taguchi	6 (2023) 190	2019B2718	BL41XU	竹田 一旗	Detailed Analysis of Distorted Retinal and its Interaction with Surrounding Residues in the K Intermediate of Bacteriorhodopsin
			2021A2753	BL41XU	竹田 一旗	
			2018B2706	BL41XU	竹田 一旗	

Comprehensive Organometallic Chemistry IV

45151	Kotohiro Nomura	5 (2022) 587-650	2015B1308	BL01B1	山添 誠司	Organometallic Complexes of Group 5 Metals with Metal-Carbon Sigma and Multiple Bonds
			2016A1455	BL01B1	野村 琴広	
			2016B1509	BL01B1	野村 琴広	
			2017A1512	BL01B1	野村 琴広	
			2018A1245	BL01B1	野村 琴広	
			2018B1335	BL01B1	野村 琴広	

Condensed Matter

45512	Kataniina Pussi	8 (2023) 49	2011A1311	BL04B2	Kamali-Moghaddam Saeed	Atomic Structure of Mn-Doped CoFe ₂ O ₄ Nanoparticles for Metal-Air Battery Applications
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Coordination Chemistry Reviews

45214	Rie Makiura	469 (2022) 214650	2016B1862	BL19B2	牧浦 理恵	Creation of Metal-organic Framework Nanosheets by the Langmuir-Blodgett Technique
			2017A1569	BL19B2	牧浦 理恵	
			2017B1899	BL19B2	牧浦 理恵	
			2018A1559	BL19B2	牧浦 理恵	
			2018A2065	BL19B2	渡辺 剛	
			2021A1658	BL46XU	大畑 考司	

Crystal Growth & Design

45480	Qin Ji	21 (2021) 4656-4664	2019B1738	BL26B1	吉 沁	A Hydrogen-Bonded Organic Framework Based on Pyrazinopyrazine
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Current Research in Structural Biology

45253	Kuniaki Mukai	3 (2021) 192-205	2018A2576	BL41XU	杉本 宏	Spatially Restricted Substrate-binding Site of Cortisol-synthesizing CYP11B1 Limits Multiple Hydroxylations and Hinders Aldosterone Synthesis
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Earth and Planetary Science Letters

45505	Hideharu Kuwahara	615 (2023) 118197	2022A1302	BL27SU	桑原 秀治	Partitioning of Fe ²⁺ and Fe ³⁺ between Bridgmanite and Silicate Melt: Implications for Redox Evolution of the Earth's Mantle
			2022B2114	BL27SU	新田 清文	

Energy & Environmental Materials

45266	Fengcheng Tang	6 (2022) e12387	2020A1079	BL20XU	Sun Fu	High-Performance 3D Li-B-C-Al Alloy Anode and its Twofold Li Electrostripping and Plating Mechanism Revealed by Synchrotron X-Ray Tomography
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Energy & Fuels

45428	Wataru Yoshimune	37 (2023) 7424-7432	2021B7032	BL33XU	山口 聡	Insights into Oxygen Transport Properties of Partially Saturated Gas Diffusion Layers for Polymer Electrolyte Fuel Cells
			2022A7032	BL33XU	山口 聡	

Environmental Science and Technology

45492	Kouhei Tokunaga	57 (2023) 3166-3175	2021B1432	BL01B1	徳永 紘平	Improvement of the Stability of IO ₃ ⁻ , SeO ₃ ²⁻ , and SeO ₄ ²⁻ -Coprecipitated Barite after Treatment with Phosphate
			2020A1311	BL01B1	徳永 紘平	

European Journal of Inorganic 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
45149	Koh Sugamata	26 (2023) e202200780	2020A0557	BL02B1	菅又 功	Synthesis and Structural Analysis of Organic Cyclic Polyselenides Obtained from the Reaction of a Bissilylcarbenoid with Selenium
			2020A0834	BL02B1	西野 龍平	
			2020A1056	BL02B1	笹森 貴裕	
			2020A1644	BL02B1	潘 楊	
			2020A1650	BL02B1	薄葉 純一	
			2020A1656	BL02B1	西野 龍平	
			2021A1592	BL02B1	西野 龍平	
			2021A1578	BL02B1	早川 雅大	
			2021B1435	BL02B1	村田 理尚	
			2021B1833	BL02B1	成田 皓樹	
			2021B1132	BL02B1	森迫 祥吾	
2021B1798	BL02B1	早川 雅大				
2022A1200	BL02B1	箕浦 真生				

European Journal of Medicinal Chemistry

45486	Sujin Cho	108 (2016) 188-202	2013A1053	BL26B1	榎田 哲哉	Identification of Novel Scaffolds for Potential Anti- <i>Helicobacter pylori</i> Agents Based on the Crystal Structure of <i>H. pylori</i> 3-deoxy-D-manno-octulosonate 8-phosphate Synthase (HpKDO8PS)
			2012A6741	BL44XU	三上 文三	

FEBS Letters

45098	Mamiko Masutani	594 (2020) 3020-3031	2019A2581	BL45XU	大戸 梅治	Crystal Structure of TEX101, a Glycoprotein Essential for Male Fertility, Reveals the Presence of Tandemly Arranged Ly6/uPAR Domains
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Frontiers in Earth Science

45165	Constance Choquel	11 (2023) Online published 3 Apr. 2023	2018A1099	BL47XU	Muter Dirk	3D Morphological Variability in Foraminifera Unravel Environmental Changes in the Baltic Sea Entrance over the Last 200 Years
			2018B1241	BL47XU	Muter Dirk	
			2020A1221	BL47XU	Muter Dirk	

Green Chemistry

45146	Takumi Watanabe	25 (2023) 3418-3424	2022A7221	BL03XU	呉羽 拓真	Closed-loop Recycling of Microparticle-based Polymers
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Heliyon

45269	Kaito Fujitani	9 (2023) e15794	2021A3231	BL24XU	住田 弘祐	<i>In situ</i> Synchrotron X-ray Scission of Polytetrafluoroethylene Chains and Elucidation of Dry Etching
			2021B3231	BL24XU	住田 弘祐	

IEEE Transactions on Medical Imaging

45117	Gary Ruben	41 (2022) 2170-2179	2016A0132	BL20B2	Hooper Stuart	Full Field X-Ray Scatter Tomography
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Industrial & Engineering Chemistry Research

45493	Yuki Ueda	61 (2022) 6640-6649	2020A1311	BL01B1	徳永 紘平	Urea-Introduced Ionic Liquid for the Effective Extraction of Pt(IV) and Pd(II) Ions
			2021B1432	BL01B1	徳永 紘平	

Inorganics

45472	Yugo Kikuchi	11 (2023) 238	2019A1052	BL02B2	藤井 孝太郎	Improved Oxide Ion Conductivity of Hexagonal Perovskite-Related Oxides Ba ₃ W _{1+x} V _{1-x} O _{8.5+x/2}
			2021A1599	BL02B2	安井 雄太	

International Journal of Fatigue

45109	Gaoge Xue	170 (2023) 107571	2020A0172	BL20XU	中村 孝	Full-life Growth Behavior of a Naturally Initiated Internal Fatigue Crack in Beta Titanium Alloy via <i>in situ</i> Synchrotron Radiation Multiscale Tomography
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International Journal of Hydrogen Energy

45502	Tatsuya Joutsuka	47 (2022) 21369-21374	2018B1788	BL14B2	多田 昌平	Understanding the Structure of Cu-doped MgAl ₂ O ₄ for CO ₂ Hydrogenation Catalyst Precursor using Experimental and Computational Approaches
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ISJ 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
45082	Yujiro Hayashi	63 (2023) 687-693	2019B7012	BL33XU	木村 英彦	<i>In-situ</i> Tensile Tester for Scanning Three-Dimensional X-ray Diffraction Microscopy
			2018A7012	BL33XU	木村 英彦	
			2019B7002	BL33XU	林 雄二郎	
			2019A7002	BL33XU	林 雄二郎	
			2018B7002	BL33XU	林 雄二郎	
2018A7002	BL33XU	林 雄二郎				

Journal of Asian Ceramic Societies

45137	Hajime Yamamoto	9 (2021) 1147-1153	2020A1773	BL19B2	東 正樹	Crystal Structures and Electronic States of High-Pressure-Synthesized (1-x)PbVO ₃ -xBiCrO ₃ Solid Solutions
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The Journal of Biological Chemistry

45217	Hiroko Ikushiro	299 (2023) 104684	2016B2554	BL38B1	宮原 郁子	Structural Insights into the Substrate Recognition of Serine Palmitoyltransferase from <i>Sphingobacterium multivorum</i>
			2018A2697	BL26B2	赤井 翔太	

Journal of Catalysis

45124	Akihiro Nakayama	410 (2022) 194-205	2019A1800	BL14B2	村山 美乃	Enhancement Effect of Strong Metal-support Interaction (SMSI) on the Catalytic Activity of Substituted-hydroxyapatite Supported Au Clusters
			2019B1840	BL14B2	石田 玉青	
			2020A1638	BL14B2	村山 美乃	
			2021A1543	BL14B2	石田 玉青	

Journal of Electronic Materials

45293	Masato Chino	52 (2023) 5128-5133	2021B1203	BL35XU	志村 洋介	Inelastic X-ray Scattering Measurement on Single-Crystalline GeSn Thin Film
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Journal of Experimental Biology

45164	Hitoshi Aonuma	226 (2023) jeb245396	2018A1240	BL20B2	青沼 仁志	Embodied Latch Mechanism of the Mandible to Power at Ultra-high Speed in the Trap-jaw Ant <i>Odontomachus kuroiwae</i>
			2018A1244	BL40XU	青沼 仁志	

Journal of Integrative Plant Biology

45088	Jie Wang	63 (2021) 1367-1381	2019A2559	BL41XU	沈 建仁	Structure of Plant Photosystem I-light Harvesting Complex I Supercomplex at 2.4Å Resolution
			2020A2550	BL41XU	沈 建仁	
			2021A2741	BL41XU	沈 建仁	

Journal of Manufacturing Processes

45152	Muneyoshi Iyota	94 (2023) 424-434	2019B3689	BL14B1	伊與田 宗慶	A Study on Convection in Molten Zone of Aluminum Alloy during Fe/Al Resistance Spot Welding
			2020A3689	BL14B1	伊與田 宗慶	

Journal of Materials Chemistry C

45142	Ikumi Aratani	11 (2023) 2082-2088	2022A1244	BL25SU	堀井 洋司	Construction of a Two-dimensional Metal-organic Framework with Perpendicular Magnetic Anisotropy Composed of Single-molecule Magnets
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Journal of Medical Imaging

45119	Florian Schaff	9 (2022) 031506	2018A0150	BL20B2	Hooper Stuart	Spectral Propagation-based X-ray Phase-contrast Computed Tomography
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Journal of Medicinal Chemistry

45097	Shuangshuang Jiang	63 (2020) 4117-4132	2019A2581	BL45XU	大戸 梅治	Rationally Designed Small-Molecule Inhibitors Targeting an Unconventional Pocket on the TLR8 Protein-Protein Interface
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Journal of Membrane Science

45515	Long-Bin Hou	680 (2023) 121730	2020A1360	BL01B1	吉田 真明	Reactive Seeding Growth of Cobalt-doped MIL-88B(Fe) on Al ₂ O ₃ Membrane for Phenol Removal in a Photocatalytic Membrane Reactor
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Journal of Molecular and Cellular Cardiology Plus

45275	Vasco Sequeira Oliveira	4 (2023) 100036	2019B1382	BL20B2	Pearson James	Mechano-energetic Uncoupling in Hypertrophic Cardiomyopathy: Pathophysiological Mechanisms and Therapeutic Opportunities
			2022A1310	BL20B2	Pearson James	

Journal of Molecular Liquids

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
45182	Masayuki Shibata	366 (2022) 120255	2021B1408	BL04B2	藤井 健太	Structural Aspect on "Salting-in" Mechanism of PEG Chains into a Phosphonium-based Ionic Liquid using Lithium Salt
			2022A1174	BL04B2	直井 勝彦	

Journal of Morphology

45325	Azuma Kawata	283 (2022) 1106-1119	2018B1688	BL47XU	小川 直記	Morphology and Phylogenetic Significance of the Thoracic Muscles in Psocodea (Insecta: Paraneoptera)
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Journal of Nuclear Science and Technology

45095	Takuhi Hara	(2023) Online published 24 Apr. 2023	2019A3740	BL22XU	中瀬 正彦	Cesium Immobilization from Aqueous Solution by Struvite Synthesis
			2019B3737	BL22XU	中瀬 正彦	

Journal of Physics B: Atomic, Molecular and Optical Physics

45168	Tatsuo Gejo	56 (2023) 065002	2018B1816	BL02B1	下條 竜夫	Investigation of Multi-ionization Processes of Kr and Xe Using Short-pulse X-rays and Time-of-flight Apparatus
			2017B1976	BL02B1	大沢 仁志	

Journal of Physics: Condensed Matter

45102	Masanori Inui	35 (2023) 234002	2021A1170	BL35XU	乾 雅祝	Collective Excitations in a Melt of Fast Phase Change Material GeCu ₂ Te ₃
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Journal of Power Sources Advances

45477	Takahisa Suzuki	22 (2023) 100119	2021B7032	BL33XU	山口 聡	Measurement of Liquid Water Distribution in GDL under Cross-flow-inducing Parallel Flow Field using Operando Synchrotron X-ray Radiography
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Journal of the Ceramic Society of Japan

45260	Masayuki Fukuda	131 (2023) 126-129	2022B1919	BL02B2	山浦 一成	Experimental Studies on Crystal Structures and Phase Transitions in Perovskite-type RbNbO ₃
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Journal of the Society of Inorganic Materials, Japan

45128	Hitomi Shiga	30 (2023) 40-46	2018A1513	BL02B2	武井 貴弘	Effect of Gas Atmosphere on Synthesis of Hydroxyapatite/Octacalcium Phosphate Plate-Like Particle with Many Exposed c-plane
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Journal of Vacuum Science & Technology B

45569	Kento Takenaka	41 (2023) 044204	2021A3231	BL24XU	住田 弘祐	Deviation of Photoelectron Intensity from Beer-Lambert Law in Near-ambient Pressure Hard X-ray Photoelectron Spectroscopy
			2021B3231	BL24XU	住田 弘祐	

Journal of Virology

45483	Hanako Ishimaru	97 (2023) e00286-23	2022B1028	EM01CT	山本 雅貴	Identification and Analysis of Monoclonal Antibodies with Neutralizing Activity against Diverse SARS-CoV-2 Variants
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Langmuir

45447	Satoshi Matsubara	39 (2023) 7759-7765	2020A1484	BL37XU	今井 洋輔	Effect of Surface Freezing of a Cationic Surfactant and <i>n</i> -Alkane Mixed Adsorbed Film on Counterion Distribution and Surface Dilational Viscoelasticity Studied by Total Reflection XAFS and Surface Quasi-Elastic Light Scattering
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Macromolecular Chemistry and Physics

45307	Liang Tong	224 (2023) 2200402	2019A1173	BL40B2	平井 智康	Creation of Thermal Response Ordered Mesostructure Polymer Particles Using Diblock Copolymers via 3D Confined Self-Assembly
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Materials Advances

45481	Xin Chen	2 (2021) 5639-5644	2019A1161	BL40XU	久木 一朗	A Proton Conductive Hydrogen-bonded Framework Incorporating 18-crown-6-ether and Dicarboxy- <i>o</i> -terphenyl Moieties
			2019B1134	BL40XU	久木 一朗	
			2020A1117	BL02B1	久木 一朗	

Materials Chemistry and 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
45460	Tsubasa Mikie	287 (2022) 126225	2019A1765	BL46XU	尾坂 格	Ester-functionalized Quinoxaline-based Polymers for Application in Organic Photovoltaics

Metallurgical and Materials Transactions A

45474	Ning Hou	54 (2023) 909-927	2020A1491	BL20XU	Gourlay Christopher	Ag ₃ Sn Morphology Transitions during Eutectic Growth in Sn-Ag Alloys
			2015B1611	BL20XU	Gourlay Christopher	
			2015A1675	BL20XU	野北 和宏	

Microporous and Mesoporous Materials

45496	Shinya Hosokawa	359 (2023) 112662	2021B1633	BL13XU	細川 伸也	Atomic and Electronic Structures of an Ag-containing 4A Zeolite
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Molecular Sciences

45228	Endah Dwi Hartuti	22 (2021) 7236	2020A6518	BL44XU	志波 智生	Identification of 3,4-Dihydro-2 <i>H</i> ,6 <i>H</i> -pyrimido[1,2- <i>c</i>][1,3]benzothiazin-6-imine Derivatives as Novel Selective Inhibitors of <i>Plasmodium falciparum</i> Dihydroorotate Dehydrogenase
			2021A6616	BL44XU	志波 智生	
			2021B6616	BL44XU	志波 智生	

Nano Letters

45521	Limin Yan	23 (2023) 2121-2128	2019A1410	BL10XU	Yang Wenge	Modulating Charge-Density Wave Order and Superconductivity from Two Alternative Stacked Monolayers in a Bulk 4 <i>Hb</i> -TaSe ₂ Heterostructure via Pressure
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Nanomaterials

45177	Yusaku Magari	12 (2022) 2958	2021B1455	BL01B1	曲 勇作	Influence of Grain Boundary Scattering on the Field-Effect Mobility of Solid-Phase Crystallized Hydrogenated Polycrystalline In ₂ O ₃ (In ₂ O ₃ :H)
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Nature

45437	Asmit Bhowmick	617 (2023) 629-636	2019A8081	BL2	Yano Junko	Structural Evidence for Intermediates during O ₂ Formation in Photosystem II
			2019B8067	BL2	Yano Junko	
			2018B8089	BL2	Yano Junko	

Nature Chemical Biology

45506	Toshihiko Katoh	19 (2023) 778-789	2019B2556	BL45XU	伏信 進矢	A Bacterial Sulfoglycosidase Highlights Mucin <i>O</i> -glycan Breakdown in the Gut Ecosystem
			2018B2528	BL26B2	伏信 進矢	
			2020A2553	BL26B2	伏信 進矢	

Nature Plants

45090	Yanan Xiao	7 (2021) 1132-1142	2019A2559	BL41XU	沈 建仁	Structural Insights into Cyanobacterial Photosystem II Intermediates Associated with Psb28 and Tsl0063
			2020A2550	BL41XU	沈 建仁	
			2021A2741	BL41XU	沈 建仁	

Optica

45286	Margaret Doyle	10 (2023) 513-519	2017B8066	BL3	Bergmann Uwe	Seeded Stimulated X-ray Emission at 5.9 keV
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Optics Letters

45526	Celebrity Groenendijk	45 (2020) 4076-4079	2018B1315	BL20XU	Donnelley Martin	Material Decomposition from a Single X-ray Projection via Single-grid Phase Contrast Imaging
			2019A1151	BL20XU	Donnelley Martin	

Organometallics

45494	Takako Muraoka	42 (2023) 982-994	2022A1157	BL43IR	村岡 貴子	Ten-membered Cyclodecatetraene Derivatives Including Two Gallium Atoms: Experimental and Theoretical Studies on Synthesis, Structures, and Their Transformations to Nine- and Five-Membered Gallacycles
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Peptide Science 2022

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
45180	Atsushi Baba	(2023) 145-146	2021A1561	BL43IR	菅原 達郎	Effects of Type I and Type II Keratin Synergically Increasing the Secondary Structure
			2016B1554	BL43IR	吉田 大介	
			2017A1554	BL43IR	有路 千奈美	
			2019B1733	BL43IR	菊地 哲宏	
			2021B1758	BL43IR	馬場 淳史	
2022A1647	BL43IR	馬場 淳史				

Physica B

45409	Yasuhiro Yoneda	663 (2023) 414960	2019B3701	BL22XU	米田 安宏	Local Structure Analysis of DyN-ZrN Solid Solutions
			2020A3701	BL22XU	米田 安宏	
			2021A3701	BL22XU	米田 安宏	

Physical Review Letters

45435	Liang Ma	128 (2022) 167001	2021B1086	BL10XU	Ma Yanming	High-Temperature Superconducting Phase in Clathrate Calcium Hydride CaH ₆ up to 215 K at a Pressure of 172 GPa
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The Plant Cell

45085	Gábor Sipka	33 (2021) 1286-1302	2019A2559	BL41XU	沈 建仁	Light-adapted Charge-separated State of Photosystem II: Structural and Functional Dynamics of the Closed Reaction Center
			2020A2550	BL41XU	沈 建仁	
			2019A8032	BL2	沈 建仁	
			2019B8028	BL2	沈 建仁	

PLoS One

45554	Ryuta Mizutani	18 (2023) e0287646	2011A0034	BL47XU	水谷 隆太	Structural Aging of Human Neurons is Opposite of the Changes in Schizophrenia
			2014A1057	BL37XU	水谷 隆太	
			2015A1160	BL20XU	水谷 隆太	
			2019B1087	BL37XU	水谷 隆太	
			2020A0614	BL20XU	水谷 隆太	
			2020A1163	BL20XU	水谷 隆太	
			2021A1175	BL37XU	水谷 隆太	
2022A1131	BL20XU	水谷 隆太				

Polymer Chemistry

45185	Naoki Ozawa	14 (2023) 2198-2204	2021A1065	BL40B2	西村 智貴	Bilayer-Domain Formation of Thermoresponsive Amphiphilic Block Copolymers in Hybrid Liposomes for Synthetic Molecular Channels
			2021B1089	BL40B2	西村 智貴	
			2022A1095	BL40B2	西村 智貴	
			2022B1109	BL40B2	西村 智貴	

Polymer Testing

45252	Masami Matsubara	117 (2023) 107810	2020A0718	BL20XU	松原 真己	Dynamic Observation of a Damping Material using Micro X-ray Computed Tomography Coupled with a Phase-locked Loop
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Proceedings of the 32nd International Symposium on Transport Phenomena

45235	Tadafumi Daitoku	(2022) 46	2020A1387	BL20B2	大徳 忠史	Measurement of Transient Structural Changes during Pyrolysis of Wooden Biomass under High Heat Flux using Ultra-high-speed X-ray CT
			2019B1473	BL20B2	大徳 忠史	

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

45086	Guoqiang Huang	118 (2021) e2018053118	2019A2559	BL41XU	沈 建仁	Structural Insights into a Dimeric Psb27-photosystem II Complex from a Cyanobacterium <i>Thermosynechococcus vulcanus</i>
			2020A2550	BL41XU	沈 建仁	

Proteins: Structure, Function, and Bioinformatics

45272	Yusuke Nakamichi	(2023) Online published 5 May 2023	2018A6863	BL44XU	渡邊 真宏	Crystal Structure of Reducing-end Xylose-releasing Exoxylanase in Subfamily 7 of Glycoside Hydrolase Family 30
			2018B6863	BL44XU	渡邊 真宏	
			2019A6930	BL44XU	中道 優介	
			2019B6930	BL44XU	中道 優介	
			2020A6529	BL44XU	中道 優介	
			2021A6626	BL44XU	中道 優介	
2021B6626	BL44XU	中道 優介				

Quantum Beam 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
45329	Yasuhiro Yamazaki	7 (2023) 14	2021B1716	BL02B1	山崎 泰広	Relationship between Internal Stress Distribution and Microstructure in a Suspension-sprayed Thermal Barrier Coating with a Columnar Structure
			2022B0554	BL19B2	山崎 泰広	
			2020A1605	BL02B1	山崎 泰広	

Radiation Physics and Chemistry

45500	Kiyofumi Nitta	211 (2023) 111028	2016A1396	BL39XU	新田 清文	Present Status of Micro-spectroscopy at BL37XU
			2016A1865	BL39XU	新田 清文	
			2017A1867	BL37XU	新田 清文	
			2017B1971	BL37XU	新田 清文	
			2018B1063	BL37XU	新田 清文	
			2018B2094	BL37XU	新田 清文	
			2019A1280	BL37XU	新田 清文	
			2019A2004	BL37XU	新田 清文	
			2019B2082	BL37XU	新田 清文	
2020A2134	BL37XU	新田 清文				

Review of Scientific Instruments

45224	Takenori Shimamura	94 (2023) 043102	2020A1694	BL25SU	島村 勇徳	Fabrication of Ultrashort Sub-meter-radius X-ray Mirrors using Dynamic Stencil Deposition with Figure Correction
			2019B1628	BL25SU	三村 秀和	

Royal Society Open Science

45326	Zixin Cheng	10 (2023) 220471	2018B1725	BL20B2	小川 直記	Acquisition of Novel Muscles Enabled Protruding and Retracting Mechanisms of Female Penis in Sex-role Reversed Cave Insects
			2017B1712	BL47XU	小川 直記	
			2016A1269	BL47XU	Blanke Alexander	

RSC Advances

45542	Erika Nakamura	13 (2023) 17742-17749	2021B1161	BL40B2	櫻木 美菜	Effect of Water Content on Stratum Corneum Penetration Mechanism of W/O Type Microemulsions
			2022A1123	BL40B2	櫻木 美菜	

Science and Technology of Advanced Materials: Methods

45319	Osami Sakata	3 (2023) 2199130	2016B1027	BL28B2	坂田 修身	Visualizing Local Bending of Lattice Planes by Extending Two-azimuth Synchrotron X-ray Diffraction Datasets to Asymmetric Reflection
			2016B1028	BL20B2	坂田 修身	
			2016B1029	BL01B1	坂田 修身	
			2016B1030	BL27SU	坂田 修身	
			2016B1031	BL20B2	坂田 修身	
			2017A1030	BL13XU	坂田 修身	
			2017A1033	BL15XU	坂田 修身	
			2017A4504	BL15XU	Lou Yanfang	
			2017B1029	BL20B2	坂田 修身	
			2017B1030	BL28B2	坂田 修身	
			2017B4505	BL15XU	Kim Jaemyung	
			2018B1010	BL20B2	坂田 修身	
			2018B4505	BL15XU	坂田 修身	
			2019A1001	BL20B2	坂田 修身	
			2019A1012	BL28B2	坂田 修身	
			2019A1351	BL35XU	坂田 修身	
			2019A4504	BL15XU	坂田 修身	
			2019B1007	BL20B2	坂田 修身	
			2019B4501	BL15XU	坂田 修身	
			2020A1002	BL20B2	坂田 修身	

Scripta Materialia

45080	Ryoji Katsube	231 (2023) 115459	2019A1393	BL20B2	安田 秀幸	Solidification Sequence of CrMnFeCoCu Dual-FCC Multicomponent Alloy
			2020A1567	BL20XU	安田 秀幸	
			2021A1502	BL20B2	安田 秀幸	
			2022A1552	BL20B2	勝部 涼司	

Soft Matter

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
45546	Hideaki Takagi	19 (2023) 4562-4570	2021A1314	BL40B2	高木 秀彰	The Structural Changes of a Bovine Casein Micelle during Temperature Change; <i>in situ</i> Observation over a Wide Spatial Scale from Nano to Micrometer
			2021B1447	BL40B2	高木 秀彰	
			2022A1230	BL40B2	高木 秀彰	
			2021B3075	BL24XU	高木 秀彰	
			2022B3075	BL24XU	高木 秀彰	

Solid State Phenomena

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
45475	Te-Cheng Su	327 (2022) 127-132	2017B1523	BL20B2	Gourlay Christopher	Understanding the Rheological Transitions in Semi-Solid Alloys by a Combined <i>In Situ</i> Imaging and Granular Micromechanics Modeling Approach

Structural Biology

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
45229	Takeshi Murakawa	78 (2022) 1428-1438	2020A8013	BL2	村川 武志	Serial Femtosecond X-ray Crystallography of an Anaerobically Formed Catalytic Intermediate of Copper Amine Oxidase
			2021B8029	BL2	村川 武志	
			2022A8020	BL2	村川 武志	
			2020A2563	BL26B1	村川 武志	
			2021A2758	BL26B1	村川 武志	

Surfaces and 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
45566	Kenichi Nagase	40 (2023) 103058	2022B1248	BL43IR	長瀬 健一	Hydration and Dehydration Behaviors of Poly(<i>N</i> -isopropylacrylamide)-grafted Silica Beads

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

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
45280	Kenji Suzuki	72 (2023) 316-323	2021A3684	BL14B1	鈴木 賢治	Actual Stress Analysis of Small-Bore Butt-Welded Pipe by Complementary Use of Synchrotron X-Rays and Neutrons
			2022A3684	BL14B1	鈴木 賢治	

色材 (Journal of the Japan Society of Colour Material)

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
45449	Norio Saito	96 (2023) 141-146	2022A1758	BL46XU	齋藤 典生	Synthesis and Optical Properties of Water-Durable Lead Halide Perovskite Nanocrystals
			2021B1852	BL46XU	齋藤 典生	

実験力学 (Journal of the Japanese Society for Experimental Society)

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
45234	Tadafumi Daitoku	22 (2023) 265-270	2020A1387	BL20B2	大徳 忠史	Real-time Measurement of Internal Structural Changes of Woody Biomass Pyrolyzed under High Heat Flux using Ultra-high-speed X-ray CT
			2019B1473	BL20B2	大徳 忠史	

ゼオライト (Zeolite News 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
45213	Rie Makiura	39 (2022) 96-111	2021A1658	BL46XU	大畑 考司	気氷界面を利用した多孔性フレームワーク結晶 MOF/HOF ナノシートの合成・解析・応用
			2016B1862	BL19B2	牧浦 理恵	
			2017A1569	BL19B2	牧浦 理恵	
			2017B1899	BL19B2	牧浦 理恵	
			2018A1559	BL19B2	牧浦 理恵	
			2018B1802	BL19B2	渡辺 剛	
			2018B1840	BL19B2	牧浦 理恵	

帝塚山大学現代生活学部紀要 (Journal of Contemporary Human Life Science, Tezukayama University)

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
45184	Taichiro Fujimura	(2023) 13-19	2017B1750	BL19B2	藤村 太一郎	Phase Structure Analysis of Emulsified Flavor by Small-angle X-ray Scattering using Synchrotron Radiation

電子情報通信学会論文誌C (IEICE Transactions on Electronics (Japanese 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
45081	Ryosuke Matsubara	J106-C (2023) 147-153	2018A1777	BL46XU	松原 亮介	In-situ Analysis of Organic Semiconductor Thin Film Growth by Quartz Crystal Microbalance and Grazing Incidence X-Ray Diffraction
			2019B1846	BL19B2	松原 亮介	

東京工科大学工学部・工学研究科紀要 (Tokyo Koka Daigaku Kogakubu, Kogaku Kenkyuka Kiyo)

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
45268	Kenji Hara	(2022) 122-125	2014B1661	BL14B2	原 賢二	XAFS Structural Analysis of Iron Complex Immobilized on Periodic Mesoporous Organosilica
			2015A1728	BL14B2	原 賢二	
			2016A1552	BL14B2	原 賢二	
			2016A1774	BL14B2	原 賢二	
			2016B1582	BL14B2	原 賢二	

銅と銅合金 (Journal of Japan Institute of Copper)

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
45318	Satoshi Yamazaki	60 (2021) 315-319	2014A1814	BL19B2	山崎 悟志	Nano-Scale Precipitates in Corson Alloy during Aging Process Characterized by In-Situ Small-Angle X-ray Scattering
			2014B1942	BL19B2	山崎 悟志	
			2015B1789	BL19B2	山崎 悟志	

表面科学 (Journal of the Surface Science Society of Japan)

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
45238	Sumera Shimizu	38 (2017) 559-564	2017A1769	BL46XU	清水 皇	Native Passive Films Formed on 18Cr Stainless Steel Surfaces —A Factor of Corrosion Resistance and <i>In-Situ</i> Structural Change—

放射光 (Journal of the Japanese Society for Synchrotron Radiation 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
45304	Yuya Shinohara	35 (2022) 53-62	2018B8041	BL3	篠原 佑也	Real-space Analyses of Local Dynamics in Liquid using X-ray Scattering
			2019A8043	BL3	篠原 佑也	
			2019B8011	BL3	篠原 佑也	

博士論文 (東京大学)

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
45077	Keisuke Ozawa	(2023)	2021A1583	BL37XU	小澤 佳祐	Compression Behaviors of Elements in Basaltic Glass Revealed by High-Pressure XAFS Measurements
			2021B1827	BL39XU	小澤 佳祐	
45094	Hikaru Uchida	(2023)	2022B1211	BL43IR	原野 幸治	Interfacial Synthesis and Application of Self-Assembled Flexible Fullerene Nanofilm with Large-Area Uniformity
			2022A1190	BL43IR	原野 幸治	

博士論文 (Stanford University)

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
45545	Matthew Ware	(2019)	2017A8023	BL3	Glownia James	From Time-resolved to Frequency-resolved X-ray Scattering
			2018A8073	BL3	Glownia James	

博士論文 (Universität Siegen)

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
45282	Lisa Randolph	(2020)	2019B8076	BL2	中堤 基彰	Surface Dynamics of Solids upon High-intensity Laser Irradiation Investigated by Grazing Incidence X-ray Scattering
			2018B8049	BL2	中堤 基彰	

博士論文 (Université Grenoble Alpes)

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
45301	Kyprianos Hadjdemetriou	(2022)	2018A8026	BL2	Weik Martin	Time-resolved Serial Femtosecond Crystallography at X-ray Free Electron Lasers to Study Light-sensitive Proteins on the Ultra-fast Time Scale
			2015A8031	BL3	Weik Martin	

博士論文 (University of Essex)

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
45310	Marina Rozman	(2021)	2019A8004	BL2	Hough Michael	Mechanistic Studies on Compound I and II Formation in the Dye-decolourising Peroxidases from <i>Streptomyces lividans</i>
			2021A8031	BL2	Hough Michael	

博士論文 (University of Gothenburg)

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
45308	Amke Nimmrich	(2022)	2019A8063	BL3	Westenhoff Sebastian	Escape from the Cage: Ultrafast Structural Dynamics of Photodissociation Reactions Observed with X-ray Solution Scattering
			2021A8002	BL3	Westenhoff Sebastian	

博士論文 (University of Manchester)

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
45313	Michael Grimes	(2022)	2021A8026	BL3	Scagnoli Valerio	Probing the Ultrafast Dynamics of the Magnetic Phase Transition in FeRh Nanostructures

博士論文 (大阪大学)

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
45316	Takato Inoue	(2022)	2016A8010	BL3	山内 和人	精密 X 線波面制御に基づく X 線自由電子レーザー集光光学系の開発
			2016B8017	BL3	山内 和人	
			2017A8033	BL3	山内 和人	
			2018A8060	BL3	山内 和人	
			2018B8027	BL3	山内 和人	
			2020A8131	BL3	山内 和人	
			2021A8049	BL3	山内 和人	
2021A8057	BL3	井上 伊知郎				

博士論文 (大阪府立大学)

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
45277	Hiroataka Ashitani	(2023)	2019A0068	BL02B2	森吉 千佳子	Studies on Static and Dynamic Structures of Porous Coordination Polymers during CO ₂ Adsorption Process
			2021B1619	BL02B2	久保田 佳基	
			2022A1468	BL02B2	久保田 佳基	
			2022A1721	BL02B2	芦谷 拓嵩	

博士論文 (東京藝術大学)

45169	Kihiro Zui	(2023)	2015B1818	BL27SU	桐野 文良	Relationship between Graze and Base Sand for Pottery- for Studying Sample of Karatsu-yaki
			2016A1701	BL01B1	桐野 文良	
			2016B1802	BL05XU	桐野 文良	
			2016B1801	BL27SU	桐野 文良	
			2017B3253	BL24XU	横山 和司	
			2017A1729	BL27SU	桐野 文良	
			2017B1759	BL27SU	桐野 文良	
			2018A1711	BL27SU	桐野 文良	

博士論文 (明治大学)

45488	Tappei Nishihara	(2023)	2021A1616	BL46XU	西原 達平	Study on Development of Novel Transparent Conductive Oxide Film for High Conversion Efficiency in Tandem Solar Cell with Crystalline Silicon Bottom Cell
			2021A1662	BL46XU	原 知彦	
			2019B1902	BL46XU	神岡 武文	
			2022A1785	BL46XU	西原 達平	
			2022A1651	BL46XU	安野 聡	
			2022A1774	BL46XU	安野 聡	
			2022B1627	BL46XU	安野 聡	
			2022B1878	BL46XU	安野 聡	
			2020A1848	BL46XU	西原 達平	

課題以外の成果として登録された論文

Acta Crystallographica Section F

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
45163	Kaoru Nishimura	71 (2015) 919-924		BL38B1	The Crystal and Solution Structure of YdiE from <i>Escherichia coli</i>
45215	Vladimir Timofeev	71 (2015) 951-957		BL41XU	Structure of Recombinant Prolidase from <i>Thermococcus sibiricus</i> in Space Group <i>P</i> 2 ₁ 2 ₁ 2 ₁
45216	Tatiana E. Petrova	71 (2015) 277-285		BL41XU	Structure of the Dodecamer of the Aminopeptidase APDkam598 from the Archaeon <i>Desulfurococcus kamchatkensis</i>
45262	Valery Akparov	71 (2015) 1335-1340		BL41XU	Structure of the Complex of Carboxypeptidase B and <i>N</i> -sulfamoyl-L-arginine
45444	Naomine Yano	71 (2015) 726-730		BL44XU	X-ray Structure of Cyanide-bound Bovine Heart Cytochrome <i>c</i> Oxidase in the Fully Oxidized State at 2.0 Å Resolution

Acta Crystallographica Section D

45131	Munenori Furuse	71 (2015) 2203-2216	理研	BL32XU	Structural Basis for the Slow Photocycle and Late Proton Release in <i>Acetabularia</i> Rhodopsin I from the Marine Plant <i>Acetabularia acetabulum</i>
45337	Xing Shen	71 (2015) 1382-1391		BL44XU	Structural Analysis of the α -glucosidase HaG Provides New Insights into Substrate Specificity and Catalytic Mechanism

Bioorganic and Medicinal Chemistry Letters

45209	Kentaro Takai	25 (2015) 1705-1708		BL41XU	Three-dimensional Rational Approach to the Discovery of Potent Substituted Cyclopropyl Urea Soluble Epoxide Hydrolase Inhibitors
45295	Jang-Sik Choi	25 (2015) 4441-4446		BL44XU	Highly Potent and Selective Pyrazolopyrimidines as Syk Kinase Inhibitors

The FEBS Journal

45186	Valery Kh. Akparov	282 (2015) 1214-1224		BL41XU	Structural Insights into the Broad Substrate Specificity of Carboxypeptidase T from <i>Thermoactinomyces vulgaris</i>
45438	Yuya Kumagai	282 (2015) 4001-4014		BL44XU	The Loop Structure of <i>Actinomyces</i> Glycoside Hydrolase Family 5 Mannanases Governs Substrate Recognition

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
45173	Alexander A. Vinogradov	144 (2022) 20332-20341	理研	BL32XU	De Novo Discovery of Thiopeptide Pseudo-natural Products Acting as Potent and Selective TNIK Kinase Inhibitors
45175	Wenyu Liu	143 (2021) 18481-18489	理研	BL32XU	An Ultrapotent and Selective Cyclic Peptide Inhibitor of Human β -Factor XIIa in a Cyclotide Scaffold

Nature Communications

45133	Hideaki E. Kato	6 (2015) 7177	理研	BL32XU	Atomistic Design of Microbial Opsin-based Blue-shifted Optogenetics Tools
45487	Mari Masuda	7 (2016) 12586	理研	BL26B2	TNIK Inhibition Abrogates Colorectal Cancer Stemness
			理研	BL32XU	

Angewandte Chemie International Edition

45283	Arnout R. D. Voet	54 (2015) 9857-9860		BL41XU	Biominalization of a Cadmium Chloride Nanocrystal by a Designed Symmetrical Protein
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Bioconjugate Chemistry

45129	Akira Fujii	26 (2015) 537-548	理研	BL32XU	Excimer Emission Properties on Pyrene-Labeled Protein Surface: Correlation between Emission Spectra, Ring Stacking Modes, and Flexibilities of Pyrene Probes
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Biophysics and Physicobiology

45167	Eiji Kanamori	12 (2015) 47-56		BL41XU	Structural Comparison between the Open and Closed Forms of Citrate Synthase from <i>Thermus thermophilus</i> HB8
			理研	BL44B2	

BMC Structural Biology

45144	Sarin Chimmaronk	15 (2015) 17	理研	BL32XU	The Crystal Structure of JNK from <i>Drosophila melanogaster</i> Reveals an Evolutionarily Conserved Topology with that of Mammalian JNK Proteins
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Catalysis Science & Technology

45478	Osami Shoji	6 (2016) 5806-5811	理研	BL26B1	A Substrate-binding-state Mimic of H ₂ O ₂ -dependent Cytochrome P450 Produced by One-point Mutagenesis and Peroxygenation of Non-native Substrates
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Cell Chemical Biology

45559	Yukiko Matsunaga	23 (2016) 1341-1350	理研	BL32XU	Allosteric Inhibition of a Semaphorin 4D Receptor Plexin B1 by a High-Affinity Macrocyclic Peptide
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Cell Research

45261	Xin Gong	25 (2015) 401-411		BL41XU	Structure of the WD40 Domain of SCAP from Fission Yeast Reveals the Molecular Basis for SREBP Recognition
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Chemical Communications

45115	Ryoto Yura	59 (2023) 5531-5534	理研	BL44B2	Crown Ether Salt-doped Ladder-type Conducting Polymers for Air-stable n-type Thermoelectric Materials
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Chemical Science

45311	Eun Hyuk Choi	13 (2022) 8457-8490	装置&技術		Reaction Dynamics Studied via Femtosecond X-ray Liquidography at X-ray Free-electron Lasers
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Coordination Chemistry Reviews

45298	Kizashi Yamaguchi	471 (2022) 214742		BL2	Geometric, Electronic and Spin Structures of the CaMn ₄ O ₅ Catalyst for Water Oxidation in Oxygen-evolving Photosystem II. Interplay between Experiments and Theoretical Computations
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Current Opinion in Structural Biology

45315	Tek Narsingh Malla	74 (2022) 102376	装置&技術		Transient State Measurements on Proteins by Time-resolved Crystallography
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Extremophiles

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
45479	Makoto Nakabayashi	20 (2016) 275-282	理研	BL26B1	Crystal Structure of a Hypothetical Protein, TTHA0829 from <i>Thermus thermophilus</i> HB8, Composed of Cystathionine- β -synthase (CBS) and Aspartate-kinase Chorismate-mutase tyrA (ACT) Domains

The FASEB Journal

45524	Asami Makino	31 (2016) 1301-1322	理研	BL26B2	A Novel Sphingomyelin/Cholesterol Domain-specific Probe Reveals the Dynamics of the Membrane Domains during Virus Release and in Niemann-Pick Type C
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FEBS Letters

45145	Momoko Kobayashi	589 (2015) 484-489		BL38B1	Structural Insights into the Catalytic Reaction that is Involved in the Reorientation of Trp238 at the Substrate-binding Site in GH13 Dextran Glucosidase
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Genes to Cells

45156	Shin-ichi Terawaki	20 (2015) 847-859		BL38B1	MT1-MMP Recognition by ERM Proteins and its Implication in CD44 Shedding
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Journal of Applied Physics

45433	Tamotsu Magome	133 (2023) 165107	加速器		Precise Measurement of the Work Function of a Hot CeB ₆ Thermionic Cathode through Photoelectron Yield Spectroscopy using a Tunable Pulsed Laser
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The Journal of Biological Chemistry

45448	Yuji Kado	291 (2016) 2319-2330		BL44XU	Epiregulin Recognition Mechanisms by Anti-epiregulin Antibody 9E5 <i>Structural, Functional, and Molecular Dynamics Simulation Analyses</i>
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Journal of Enzyme Inhibition and Medicinal Chemistry

45208	Yukihisa S. Watanabe	30 (2015) 981-988		BL41XU	Anagliptin, a Potent Dipeptidyl Peptidase IV Inhibitor: its Single-crystal Structure and Enzyme Interactions
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Journal of Inorganic Biochemistry

45111	Masahiro Kanadani	151 (2015) 26-33	理研	BL26B1	The Crystal Structure of Heme Acquisition System A from <i>Yersinia pseudotuberculosis</i> (HasA _{Ypt}): Roles of the Axial Ligand Tyr75 and Two Distal Arginines in Heme Binding
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Journal of Medicinal Chemistry

45157	Yusuke Watarai	58 (2015) 9510-9521		BL38B1	Synthesis, Biological Activities, and X-ray Crystal Structural Analysis of 25-Hydroxy-25(or 26)-adamantyl-17-[20(22),23-diynyl]-21-norvitamin D Compounds
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Journal of Natural Products

45445	Shi-Wei Chao	78 (2015) 1969-1976		BL44XU	Total Synthesis of Hispidulin and the Structural Basis for Its Inhibition of Proto-oncogene Kinase Pim-1
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Nature Catalysis

45174	Yuchen Zhang	5 (2022) 682-693	理研	BL32XU	LimF is a Versatile Prenyltransferase for Histidine- <i>C</i> -geranylation on Diverse Non-natural Substrates
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Nature Chemistry

45176	Takayuki Katoh	12 (2020) 1081-1088	理研	BL32XU	Ribosomal Synthesis and de novo Discovery of Bioactive Foldamer Peptides Containing Cyclic β -amino Acids
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Nature Structural and Molecular Biology

45556	Kazuki Kato	23 (2016) 395-401		BL41XU	Structural Basis for Specific Inhibition of Autotaxin by a DNA Aptamer
			理研	BL32XU	

Photonics

45303	Tetsuya Ishikawa	9 (2022) 357	一般	over all	Early Days of SACLA XFEL
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PLoS Pathogens

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
45191	Wu Liu	11 (2015) e1005025		BL41XU	A Unique Human Norovirus Lineage with a Distinct HBGA Binding Interface

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

45279	Shangyu Dang	112 (2015) 3344-3349		BL41XU	Cleavage of Amyloid Precursor Protein by an Archaeal Presenilin Homologue PSH
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The Protein Journal

45112	Fumiaki Tomoike	34 (2015) 411-420	理研	BL26B2	Structural and Biochemical Studies on the Reaction Mechanism of Uridine-Cytidine Kinase
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Scientific Reports

45113	Kazumasa Ohtake	5 (2015) 9762	理研	BL26B2	Protein Stabilization Utilizing a Redefined Codon
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Structure

45190	Seisuke Yamashita	23 (2015) 830-842		BL41XU	Measurement of Acceptor-TΨC Helix Length of tRNA for Terminal A76-Addition by A-Adding Enzyme
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加速器 (Journal of the Particle Accelerator Society of Japan)

45309	Takao Asaka	19 (2022) 5-17	加速器		Development of Radio-Frequency Electron Gun Using a Gridded Thermionic Cathode with High Reliability and High Maintainability
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薬学雑誌 (Journal of the Pharmaceutical Society of Japan)

45305	Takehiko Toshi	142 (2022) 487-494	装置&技術	BL3	Visualization of Enzymatic Reaction by Time-resolved Structural Analysis with Photosensitive Caged Substrate
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レーザー研究 (The Review of Laser Engineering)

45317	Kohei Miyanishi	50 (2022) 668-672	装置&技術		Development of Integrated Systems for Dynamic Laser Compression Experimental Platform at SACLA
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