

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、2022 年 10 月～12 月に登録されたものを以下に紹介します。論文の情報 (主著者、巻、発行年、ページ、タイトル) に加え、データベースの登録番号 (研究成果番号) を掲載していますので、詳細は上記検索ページの検索結果画面でご覧いただくことができます。また実施された課題の情報 (課題番号、ビームライン、実験責任者名) も掲載しています。課題番号は最初の 4 文字が「year」、次の 1 文字が「term」、後ろの 4 文字が「proposal no.」となっていますので、この情報から以下の URL で公表している、各課題の英文利用報告書 (SPring-8 User Experiment Report) を探してご覧いただくことができます。

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

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

SPring-8 研究成果登録データベースに 2022 年 10 月～12 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	9	ACS Catalysis	4
Inorganic Chemistry	7	Catalysis Science & Technology	4
The Journal of Physical Chemistry C	7	Journal of Materials Chemistry A	4
Acta Crystallographica Section D	6	Journal of the American Chemical Society	4
Japanese Journal of Applied Physics	5	Journal of the Physical Society of Japan	4
Scientific Reports	5	The Journal of Biological Chemistry	4
ACS Applied Materials & Interfaces	4	他全 177 誌、計 314 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
44335	Chien Wen Chuang	101 (2020) 115137	2019A4270	BL12XU	Chainani Ashish	Electronic Structure Investigation of GdNi using X-ray Absorption, Magnetic Circular Dichroism, and Hard X-ray Photoemission Spectroscopy
44435	Takanori Hattori	106 (2022) 134309	2016B3751	BL22XU	町田 晃彦	Hydrogen Vibration Excitations of ZrH _{1.8} and TiH _{1.84} up to 21 GPa by Incoherent Inelastic Neutron Scattering
44440	A. Bhattacharyya	106 (2022) 134516	2018B1439	BL35XU	Adroja Devashibhai	Multigap Superconductivity in the Filled-skutterudite Compound LaRu ₄ As ₁₂ Probed by Muon Spin Rotation
44466	Hitoshi Sato	105 (2022) 035113	2019B1359	BL39XU	佐藤 仁	Valence Transition of the Intermetallic Compound Ce ₂ Rh ₂ Ga Probed by Resonant X-ray Emission Spectroscopy
			2019B4250	BL12XU	佐藤 仁	
			2020A1322	BL39XU	佐藤 仁	
44467	Hitoshi Sato	106 (2022) 155151	2018B1300	BL39XU	佐藤 仁	Metal-insulator Transition in Cu ₂ S ₄ Observed by Cu K α Resonant X-ray Emission Spectroscopy
			2019A1276	BL39XU	佐藤 仁	
			2021A1211	BL39XU	佐藤 仁	
			2021A2072	BL39XU	河村 直己	
			2021B2090	BL39XU	河村 直己	
2022A1280	BL39XU	佐藤 仁				
44545	Takahiro Ogino	106 (2022) 045423	2020A1139	BL13XU	平山 博之	Superconductivity in a Two Monolayer Thick Indium Film on Si(111) $\sqrt{3}\times\sqrt{3}$ -B
44612	Yui Ishii	106 (2022) 134111	2020A1173	BL04B2	石井 悠衣	Partial Breakdown of Translation Symmetry at a Structural Quantum Critical Point Associated with a Ferroelectric Soft Mode
			2015A1510	BL02B2	森 茂生	
44633	Cheng Jin	105 (2022) 144402	2021B1407	BL10XU	Zhu Jinlong	Insulator-metal Transition and Crossover from Negative to Positive Magnetoresistance in Cu ₂ IrO ₃ under High Pressure
			2021A1172	BL10XU	Zhu Jinlong	
44643	Artoni Kevin R. Ang	103 (2021) 214106	2017B1450	BL39XU	林 好一	Elucidation of Local Structure Deformation in κ -(BEDT-TTF) ₂ Cu[N(CN) ₂]Br by X-ray Fluorescence Holography
			2018A1229	BL37XU	林 好一	
			2019B1149	BL39XU	梅名 泰史	
			2019B1151	BL39XU	梅名 泰史	

Inorganic Chemistry

44352	Botao Gao	60 (2021) 3232-3237	2020A1052	BL44B2	Chen Jun	An Intriguing Polarization Configuration of Mixed Ising- and Néel-Type Model in the Prototype PbZrO ₃ -Based Antiferroelectrics
44361	Alexei A. Belik	61 (2022) 14428-14435	2022A1067	BL02B2	Belik Alexei	Triple A-Site Cation Ordering in the Ferrimagnetic Y ₂ CuGaMn ₄ O ₁₂ Perovskite
44363	Alexei A. Belik	61 (2022) 10144-10150	2021A1334	BL02B2	Belik Alexei	Aurivillius Phase Bi ₄ V ₃ O ₁₂ with d ¹ Magnetic Cations, Anisotropic and Negative Thermal Expansion, Multiple Structural Transitions, and Low-Dimensional Magnetism
			2022A1067	BL02B2	Belik Alexei	
44478	Masanao Ishijima	61 (2022) 17144-17153	2021A1656	BL14B2	石島 政直	Synthesis of Electromagnetic Wave-Absorbing Co-Ni Alloys and Co-Ni Core-Shell Structured Nanoparticles
44510	Koh Sugamata	61 (2022) 17641-17645	2022A1200	BL02B1	箕浦 真生	Tellurium-Centered Bent Allenes: Synthesis, Characterization, and Reactivity
			2021B1798	BL02B1	早川 雅大	
			2021B1132	BL02B1	森迫 祥吾	
			2021B1833	BL02B1	成田 皓樹	
			2021B1435	BL02B1	村田 理尚	
			2021A1578	BL02B1	早川 雅大	
			2021A1592	BL02B1	西野 龍平	
			2020A1656	BL02B1	西野 龍平	
			2020A1650	BL02B1	薄葉 純一	
			2020A1644	BL02B1	潘 楊	
			2020A1056	BL02B1	笹森 貴裕	
2020A0834	BL02B1	西野 龍平				
2020A0557	BL02B1	菅又 功				
44696	Hitoshi Yusa	61 (2022) 20906-20912	2018A1156	BL10XU	遊佐 斉	Dense Structure of Yttrium Nitride as a Post-Rock-Salt Phase: High-Pressure Experiments and Computations
			2019A1193	BL10XU	遊佐 斉	
			2020A4500	BL15XU	遊佐 斉	
			2020A4550	BL15XU	遊佐 斉	
44697	Xun Kang	61 (2022) 21148-21156	2021A1169	BL02B2	山浦 一成	High-Pressure Synthesis and Magnetic and Electrical Properties of Fe-Doped Bi ₃ Re ₃ O ₁₁ and Bi ₃ O ₃ O ₁₁
			2022A1067	BL02B2	Belik Alexei	

The Journal of Physical Chemistry C

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
44280	Ai Suzuki	126 (2022) 9948-9955	2018B4140	BL12B2	久保園 芳博	Superconducting Properties of Pd _{1-x} Pt _x Bi ₂ over a Wide Pressure Range
			2019A4131	BL12B2	久保園 芳博	
44309	Fumiaki Amano	126 (2022) 1817-1827	2020A1219	BL01B1	山添 誠司	Structure-Stability Relationship of Amorphous IrO ₂ -Ta ₂ O ₅ Electrocatalysts on Ti Felt for Oxygen Evolution in Sulfuric Acid
			2021A1272	BL01B1	山添 誠司	
			2020A1410	BL01B1	平山 純	
44384	Xiaoni Zhang	126 (2022) 12802-12808	2022A7410	BL07LSU	近藤 剛弘	Electronic Topological Transition of 2D Boron by the Ion Exchange Reaction
44484	Yanting Zhang	126 (2022) 18849-18854	2014B1784	BL02B2	榎本 大輔	Charge Transport Capabilities of Dibenzo[<i>n</i>]phenacenes (<i>n</i> = 5-7): Influence of Trap States and Molecular Packing
			2017B1318	BL02B1	藤原 明比古	
44546	Yannik Appiaris	126 (2022) 4563-4576	2016B1204	BL02B1	Grabowsky Simon	BN-Substitution in Dithienylpyrenes Prevents Excimer Formation in Solution and in the Solid State
44567	Akira Sasahara	126 (2022) 19745-19755	2017A1079	BL13XU	大西 洋	KTaO ₃ Wafers Doped with Sr or La Cations for Modeling Water-Splitting Photocatalysts: 3D Atom Imaging around Doping Cations
			2018A1180	BL13XU	大西 洋	
			2019B1499	BL13XU	大西 洋	
44615	Kevin Lemoine	126 (2022) 8248-8255	2021B1409	BL02B2	稲熊 宜之	High-Pressure Synthesis of Trigonal LiFe ₂ F ₆ : New Iron Fluoride with Li ⁺ Tunnels as a Potential Cathode for Lithium-Ion Batteries

Japanese Journal of Applied Physics

44421	Goki Kimura	61 (2022) SN1012	2021B1948	BL46XU	神野 伊策	In situ High-temperature X-ray Diffraction Measurements of Pb(Zr _{0.58} Ti _{0.42})O ₃ Epitaxial Thin Films Grown on Si Substrates
			2021B1871	BL19B2	神野 伊策	
44422	Kiyotaka Tanaka	61 (2022) SN1020	2021B1948	BL46XU	神野 伊策	Annealing Effects on Epitaxial (K,Na)NbO ₃ Thin Films Grown on Si Substrates
			2021B1871	BL19B2	神野 伊策	
44494	Seiji Nakashima	61 (2022) SN1004	2020A1362	BL17SU	中嶋 誠二	Assessment of Polarization-related Band Modulation at Graphene/Mn-doped BiFeO ₃ Interfaces by Photoemission Electron Microscopy
			2021A1456	BL17SU	中嶋 誠二	
			2021B1494	BL17SU	中嶋 誠二	
44564	Wolfgang Voegeli	61 (2022) 098002	2020A0176	BL28B2	矢代 航	Sub-second Multi-energy X-ray Tomography using a Multi-beam Optical System and Detector
			2020A0559	BL28B2	矢代 航	
			2020A0560	BL28B2	矢代 航	
			2021A1550	BL28B2	矢代 航	
44604	Yasuhiro Yoneda	61 (2022) SN1022	2018A3639	BL14B1	和田 智志	Local Structure Analysis of BiFeO ₃ -BaTiO ₃ Solid Solutions
			2021A3701	BL22XU	米田 安宏	
			2021B3701	BL22XU	米田 安宏	
			2022A1192	BL04B2	米田 安宏	

ACS Applied Materials & Interfaces

44293	Cheol Hee Choi	13 (2021) 28451-28461	2019A4701	BL15XU	金正煥	High-Performance Indium Gallium Tin Oxide Transistors with an Al ₂ O ₃ Gate Insulator Deposited by Atomic Layer Deposition at a Low Temperature of 150 °C: Roles of Hydrogen and Excess Oxygen in the Al ₂ O ₃ Dielectric Film
44332	Eunjeong Jeong	14 (2022) 32319-32329	2019B1837	BL19B2	鈴木 充朗	Exploration of Alkyl Group Effects on the Molecular Packing of 5,15-Disubstituted Tetrabenzoporphyrins toward Efficient Charge-Carrier Transport
			2017A1779	BL19B2	鈴木 充朗	
			2018B1774	BL19B2	鈴木 充朗	
44423	Isao Kagomiya	14 (2022) 48194-48199	2020A7484	BL07LSU	籠宮 功	Surface Exchange Reaction of Mixed Conductive La _{0.65} Ca _{0.35} FeO _{3-δ} during Oxygen Evolution and Incorporation as Traced by Operando X-ray Photoelectron Spectroscopy
			2020A7493	BL07LSU	籠宮 功	
44621	Wei-Chih Wang	14 (2022) 18773-18781	2019A1765	BL46XU	尾坂 格	Tuning Molecular Conformations to Enhance Spontaneous Orientation Polarization in Organic Thin Films
			2020A1742	BL46XU	但馬 敬介	

ACS Catalysis

44368	Kosuke Yamaguchi	12 (2022) 12582-12595	2021B1104	BL01B1	富重 圭一	Utilization of Ni as a Non-Noble-Metal Co-catalyst for Ceria-Supported Rhenium Oxide in Combination of Deoxydehydration and Hydrogenation of Vicinal Diols
			2021A1235	BL01B1	富重 圭一	
44444	Takehiro Matsuyama	12 (2022) 13600-13608	2021B1918	BL14B2	山口 和也	Decarbonylation of 1,2-Diketones to Diaryl Ketones via Oxidative Addition Enabled by an Electron-Deficient Au-Pd Nanoparticle Catalyst
44609	Ben Liu	12 (2022) 15431-15450	2022A1735	BL14B2	Liu Ben	Selective C-O Hydrogenolysis of Terminal C-OH Bond in 1,2-Diols over Rutile-Titania-Supported Iridium-Iron Catalysts
44628	Xuze Guan	12 (2022) 15207-15217	2019A1533	BL01B1	Wang Feng	Designing Reactive Bridging O ²⁻ at the Atomic Cu-O-Fe Site for Selective NH ₃ Oxidation
			2019B1438	BL01B1	Wang Feng	
			2020A0611	BL01B1	Wang Feng	
			2021A1695	BL14B2	Guan Xuze	

Catalysis Science & Technology

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
44340	Hung-Chih Kuo	10 (2020) 3949-3958	2016A4134	BL12B2	Lin Yan-Gu	Synthesis of FeCo-N@N-doped Carbon Oxygen Reduction Catalysts via Microwave-assisted Ammoxidation
			2017B4125	BL12B2	Lin Yan-Gu	
44425	Hidenori Nishio	11 (2021) 7141-7150	2019B1386	BL01B1	三浦 大樹	Deposition of Highly Dispersed Gold Nanoparticles onto Metal Phosphates by Deposition-precipitation with Aqueous Ammonia
44438	Saburo Hosokawa	12 (2022) 5604-5610	2018A1546	BL14B2	福住 謙亨	Catalytic Selective Hydrogenation of Acetic Acid to Acetaldehyde over the Surface of the Iron Shell on Pd-Fe Alloy Nanoparticles
			2018B1838	BL14B2	福住 謙亨	
			2019A1624	BL14B2	福住 謙亨	
			2019B1828	BL14B2	福住 謙亨	
44447	Yuanhui Lu	12 (2022) 5390-5396	2021B1100	BL02B2	Lo Benedict	Copper Dual-atom Catalyst Mediated C3-H Amination of Indoles at Room Temperature
			2021B1099	BL01B1	Lo Benedict	

Final Brief Paper of the Eighth International Conference on Very High Cycle Fatigue, VHCF8

44555	Koukaku Setsu	(2021) Paper No. 2B11	2020A0172	BL20XU	中村 孝	Initiation and Propagation Process of Small Fatigue Crack in Beta Titanium Alloy via Multiscale Synchrotron Radiation Computed Tomography
44556	Sourav Modi	(2021) Paper No. 2B12	2020A0172	BL20XU	中村 孝	A Trial for Detecting Small Fatigue Cracks Initiating from Non-metallic Inclusions in Precipitation-hardened Stainless Steel
44557	Hironori Morishita	(2021) Paper No. 5A03	2020A0172	BL20XU	中村 孝	Analysis of Fatigue Life Distribution of Ti-6Al-4V Based on the Initiation and Propagation Behaviors of Small Internal Cracks
44561	Takuya Yamazaki	(2021) Paper No. 4B10	2020A0172	BL20XU	中村 孝	Classification of Internal Fatigue Crack Growth Stages of (α+β) Ti-6Al-4V by Fractographic Analysis Focusing on Multiple Facet Formation

Journal of Materials Chemistry A

44308	Hao Ge	10 (2022) 10854-10864	2020A1064	BL01B1	桑原 泰隆	Enhanced Visible-NIR Absorption and Oxygen Vacancy Generation of Pt/H ₂ MoWO ₄ by H-spillover to Facilitate Photothermal Catalytic CO ₂ Hydrogenation
			2021B1090	BL01B1	桑原 泰隆	
44328	Yuya Sakka	10 (2022) 16602-16609	2019B1284	BL28B2	折笠 有基	Pressure Dependence on the Three-Dimensional Structure of a Composite Electrode in an All-Solid-State Battery
			2019B1726	BL20XU	折笠 有基	
			2020A0502	BL20XU	山重 寿夫	
			2021A1005	BL20XU	折笠 有基	
			2021A1539	BL20XU	山重 寿夫	
			2021B1191	BL37XU	折笠 有基	
2021B1724	BL20XU	折笠 有基				
44411	Li-Hsien Yeh	7 (2019) 26791-26796	2019B4139	BL12B2	Deng Ming-Jay	A Nanofluidic Osmotic Power Generator Demonstrated in Polymer Gel Electrolytes with Substantially Enhanced Performance
44692	Keisuke Matsumura	(2022) Online published 13 Dec. 2022	2018A1528	BL01B1	直井 勝彦	Spray-Drying Synthesis and Vanadium-Catalyzed Graphitization of a Nanocrystalline γ-Li _{3.2} V _{0.8} Si _{0.2} O ₄ /C Anode Material with a Unique Double Capsule Structure
			2019A1607	BL01B1	直井 勝彦	

Journal of the American Chemical Society

44284	Kazutaka Sonobe	144 (2022) 15008-15012	2016B1110	BL04B2	富中 悟史	Symmetric Breakage-Induced Semimetallic State: Polymorphism in Ruthenate Nanosheets
			2017A1207	BL08W	富中 悟史	
			2015B4503	BL15XU	富中 悟史	
			2016A4503	BL15XU	富中 悟史	
44312	Wataru Suzuki	144 (2022) 12310-12320	2021B1373	BL01B1	山添 誠司	Control over Ligand-Exchange Positions of Thiolate-Protected Gold Nanoclusters Using Steric Repulsion of Protecting Ligands
			2021B1535	BL01B1	吉川 聡一	
44442	Kazuki Ueda	144 (2022) 18744-18749	2022A1354	BL02B1	村田 理尚	A Highly Conductive n-Type Coordination Complex with Thieno[3,2-b]thiophene Units: Facile Synthesis, Orientation, and Thermoelectric Properties
			2021B1435	BL02B1	村田 理尚	
			2020A1056	BL02B1	笹森 貴裕	
			2019B1129	BL02B1	笹森 貴裕	
			2019A1057	BL02B1	笹森 貴裕	
			2022A1189	BL40B2	平井 智康	
			2021B1157	BL40B2	平井 智康	
			2020A1135	BL40B2	平井 智康	
			2019B1179	BL40B2	平井 智康	
44686	Ayano Minami	144 (2022) 23313-23320	2018B1139	BL08W	脇原 徹	Tracking Sub-Nano-Scale Structural Evolution in Zeolite Synthesis by <i>In Situ</i> High-Energy X-ray Total Scattering Measurement with Pair Distribution Function Analysis
			2019A1258	BL08W	脇原 徹	
			2019B1430	BL08W	脇原 徹	
			2020A1106	BL08W	脇原 徹	
			2021A1153	BL08W	脇原 徹	
2021B1145	BL08W	脇原 徹				

Journal of the Physical 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
44381	Daiki Ootsuki	91 (2022) 114704	2022A1550	BL09XU	大槻 太毅	Metallic Surface State in the Bulk Insulating Phase of $\text{Ca}_{2-x}\text{Sr}_x\text{RuO}_4$ ($x = 0.06$) Studied by Photoemission Spectroscopy
			2020A1318	BL47XU	吉田 鉄平	
			2019B1467	BL47XU	吉田 鉄平	
			2019A1587	BL47XU	吉田 鉄平	
			2018B1692	BL09XU	柴田 大輔	
			2018A1656	BL09XU	柴田 大輔	
			2017B1718	BL47XU	柴田 大輔	
			2016B1695	BL47XU	柴田 大輔	
			2016A1652	BL47XU	柴田 大輔	
44392	Naoki Wada	90 (2021) 044003	2019B1639	BL37XU	雨澤 浩史	Performance of Region-Based Markov Random Field with XY Spins
			2019A1467	BL37XU	雨澤 浩史	
			2017B1509	BL37XU	雨澤 浩史	
			2017A1484	BL37XU	雨澤 浩史	
			2016B1194	BL37XU	雨澤 浩史	
44439	Takayuki Kawamata	91 (2022) 114707	2017B1222	BL08W	小池 洋二	Electronic State of $\text{T}^{1-}\text{Pr}_{1.3-x}\text{La}_{0.7}\text{Ce}_x\text{CuO}_4$ ($x = 0.10$) Studied by Compton Scattering
44483	Tatsuru Yamada	91 (2022) 124708	2019B1258	BL39XU	佐藤 徹哉	Appearance of Ferromagnetism in Pt(100) Ultrathin Films Originated from Quantum-well States

Scientific Reports

44375	Yoji Miyajima	12 (2022) 16776	2020A1608	BL46XU	安野 聡	Destruction of Mesoscopic Chemically Modulated Domains in Single Phase High Entropy Alloy via Plastic Deformation
			2020A1612	BL46XU	安野 聡	
			2020A1736	BL46XU	安野 聡	
			2021A1553	BL46XU	安野 聡	
44437	Naoto Kitamura	12 (2022) 18097	2021A1024	BL04B2	北村 尚斗	Positive-electrode Properties and Crystal Structures of Mg-rich Transition Metal Oxides for Magnesium Rechargeable Batteries
			2020A1728	BL19B2	井手本 康	
			2019B1714	BL14B2	井手本 康	
44591	Masae Takahashi	12 (2022) 20393	2018A1198	BL43IR	高橋 まさえ	Van der Waals Interactions Regulating the Hydration of 2-methacryloyloxyethyl Phosphorylcholine, the Constructing Monomer of Biocompatible Polymers
			2021A1143	BL43IR	高橋 まさえ	
44644	Reina Miyagawa	12 (2022) 20955	2018A3738	BL22XU	松岡 健之	Crystallinity in Periodic Nanostructure Surface on Si Substrates Induced by Near- and Mid-infrared Femtosecond Laser Irradiation
			2019A3741	BL22XU	尾崎 典雅	
			2020A3739	BL22XU	尾崎 典雅	

Chemical Communications

44313	Soichi Kikkawa	58 (2022) 9018-9021	2021A1272	BL01B1	山添 誠司	Dual Functional Catalysis of $[\text{Nb}_5\text{O}_{19}]^{5-}$ -modified $\text{Au}/\text{Al}_2\text{O}_3$
			2021B1535	BL01B1	吉川 聡一	
			2021A1406	BL01B1	吉川 聡一	
			2021B1373	BL01B1	山添 誠司	
44500	Anna Carissa M. San Esteban	58 (2022) 4192-4195	2020A1210	BL02B2	吉成 信人	Serendipitous Formation of Oxygen-bridged $\text{Cu}^{\text{II}}\text{M}$ ($\text{M} = \text{Mn}^{\text{II}}$, Co^{II}) Double Cubanes Showing Electrocatalytic Water Oxidation
			2019A1302	BL02B1	吉成 信人	
44695	Ping Wang	58 (2022) 9026-9029	2021A1104	BL02B1	北川 進	Nitroxyl Radical-containing Flexible Porous Coordination Polymer for Controllable Size-selective Aerobic Oxidation of Alcohols
			2021B1528	BL02B2	北川 進	
			2022A1500	BL02B1	北川 進	

Nature Communications

44306	Feilong Xing	13 (2022) 5065	2021A1541	BL14B2	古川 森也	High-entropy Intermetallics on Ceria as Efficient Catalysts for the Oxidative Dehydrogenation of Propane using CO_2
			2021A1571	BL01B1	中谷 勇希	
			2021B1795	BL01B1	中谷 勇希	
			2021B1962	BL14B2	Xing Feilong	
44366	Takuya Suguro	13 (2022) 5698	2021B1610	BL01B1	岸本 史直	A Hygroscopic Nano-membrane Coating Achieves Efficient Vapor-fed Photocatalytic Water Splitting
			2022A1082	BL01B1	岸本 史直	
44645	Yuuya Nishida	13 (2022) 7591	2021B2523	EM01CT	新谷 泰範	Identifying Antibiotics Based on Structural Differences in the Conserved Allosteric Site from Mitochondrial Heme-copper Oxidases
			2022A2713	EM01CT	新谷 泰範	
			2016A2529	BL26B1	高島 成二	
			2016B2711	BL26B1	高島 成二	
			2017B2555	BL26B1	高島 成二	
2018A2721	BL26B1	高島 成二				

Physical Chemistry Chemical Physics

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
44276	Hiromitsu Maeda	24 (2022) 13286-13292	2021A1597	BL02B1	田中 宏樹	Electron-donating Curved π -electronic Systems that Complex with Buckyballs
			2021B1703	BL40XU	前田 大光	
44319	Joseph W. McManus	24 (2022) 22699-22709	2021A8038	BL1	Forbes Ruairidh	Disentangling Sequential and Concerted Fragmentations of Molecular Polycations with Covariant Native Frame Analysis
44562	Kazutaka Akiyoshi	24 (2022) 24335-24344	2021A1102	BL01B1	川脇 徳久	Composition Control of Alloy Nanoparticles Consisting of Bulk-immiscible Au and Rh Metals via an Ionic Liquid/Metal Sputtering Technique for Improving Their Electrocatalytic Activity
			2020A0695	BL01B1	川脇 徳久	

Proceedings of the 7th International Conference on Advanced Steels, ICAS 2022

44537	Takashi Nakamura	(2022) 184-187	2017B1421	BL20XU	中村 孝	In situ Observation of Small Fatigue Cracks in High-strength Metals using Synchrotron Radiation Micro and Nano Computed Tomography
			2018B1289	BL20XU	中村 孝	
			2019B2042	BL20XU	中村 孝	
			2020A0172	BL20XU	中村 孝	
44553	Koukaku Setu	(2022) 132-135	2020A0172	BL20XU	中村 孝	Three-dimensional Observation of Small Fatigue Cracks Growth Process in a Beta Titanium Alloy Ti-22V-4Al using Multiscale Synchrotron Radiation Computed Tomography
44554	Takuya Yamazaki	(2022) 136-139	2020A0172	BL20XU	中村 孝	The Formation Process of Multiple Facets in Internal Fatigue Fractures of (α + β) Ti-6Al-4V

Acta Materialia

44441	Shintaro Kobayashi	242 (2023) 118454	2018B1014	BL25SU	廣澤 哲	Multimodal Analysis of Zr Substitution Effects on Magnetic and Crystallographic Properties in $(\text{Sm}_{1-x}\text{Zr}_x)(\text{Fe}_{0.8}\text{Co}_{0.2})_{12}$ Compounds with ThMn_{12} Structure
			2019A1014	BL25SU	廣澤 哲	
			2019B1005	BL25SU	廣澤 哲	
			2020A1003	BL13XU	廣澤 哲	
			2020A1004	BL25SU	廣澤 哲	
			2020A1294	BL01B1	小林 慎太郎	
			2021A1020	BL25SU	廣澤 哲	
2021B1020	BL25SU	廣澤 哲				
44688	Ryota Abe	244 (2023) 118526	2019A1306	BL20XU	大熊 学	Coarsening of Metal/Ceramics Bicontinuous Structures Enhanced by Stress-induced Instability under Cyclic Thermal Stress

Advanced Science

44552	Kei Okamoto	10 (2023) 2203541	2020A1659	BL02B2	岡本 啓	Impact of Na Concentration on the Phase Transition Behavior and H^+ Conductivities in the Ba-Li-Na-H-O Oxyhydride System
			2019A1084	BL02B2	竹入 史隆	
			2018B1099	BL02B2	竹入 史隆	
			2016B1767	BL19B2	渡邊 明尋	
			2016A1673	BL19B2	渡邊 明尋	
44622	Chao Wang	9 (2022) 2201045	2020A1875	BL46XU	佐伯 昭紀	Essential Role of Triplet Diradical Character for Large Magnetoresistance in Quinoidal Organic Semiconductor with High Electron Mobility
			2020A1742	BL46XU	但馬 敬介	

Angewandte Chemie International Edition

44649	Hayato Moriyama	61 (2022) e202214108	2021A1213	BL02B1	北川 宏	Observation of an Alternate Charge-Polarization State in a One-Dimensional Pt-Pt-I Chain Compound with a Bulky Pendant Ligand
			2021B1169	BL02B1	北川 宏	
			2021B1170	BL02B2	大坪 主弥	
			2022A1260	BL02B2	大坪 主弥	
44694	Ziqian Xue	62 (2023) e202215234	2020A0649	BL02B2	北川 進	Fine Pore-Structure Engineering by Ligand Conformational Control of Naphthalene Diimide-Based Semiconducting Porous Coordination Polymers for Efficient Chemiresistive Gas Sensing
			2021A1104	BL02B1	北川 進	
			2021A1149	BL02B2	北川 進	
			2021B1745	BL14B2	北川 進	

Applied Physics Letters

44318	Akitoshi Nakano	121 (2022) 153903	2021B1198	BL02B1	中埜 彰俊	Correlation between Thermopower and Carrier Mobility in the Thermoelectric Semimetal Ta_2PdSe_6
			2022A1158	BL02B1	中埜 彰俊	
44436	Jundong Song	121 (2022) 172904	2019B4904	BL15XU	山田 智明	Dynamic Electrical Response of Vortex Polarization in $(\text{Pb}_{0.9}\text{Sr}_{0.1})\text{TiO}_3/\text{SrTiO}_3$ Artificial Superlattice Thin Films

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
44365	Masahiro Kuramochi	628 (2022) 98-103	2017B1393	BL40XU	佐々木 裕次	A Mutation to a Fish Ice-binding Protein Synthesized in Transgenic <i>Caenorhabditis elegans</i> Modulates its Cold Tolerance
			2016A1399	BL40XU	佐々木 裕次	
44499	Ayana Sato-Tomita	635 (2022) 277-282	2018A1155	BL37XU	佐藤 文菜	X-ray Fluorescence Holography of Biological Metal Sites: Application to Myoglobin
			2016A1320	BL39XU	久保 稔	
			2016B1099	BL39XU	中村 照也	
			2016B1393	BL39XU	久保 稔	
			2017A1382	BL39XU	佐藤 文菜	
			2017B1444	BL39XU	佐藤 文菜	
			2018B1490	BL39XU	佐藤 文菜	

Chemical Engineering Journal

44412	Rong Hao Guo	414 (2021) 128842	2019B4139	BL12B2	Deng Ming-Jay	Biomimetic Strategies for 4.0 V All-solid-state Flexible Supercapacitor: Moving toward Eco-friendly, Safe, Aesthetic, and High-performance Devices
44640	Jianyue Jiao	454 (2023) 140327	2019A1496	BL02B2	張 志剛	Enabling Robust Anionic Redox Structure via Tuning the Symmetry of Locally Ordered Lattice in Li-rich Li-Mn-O Cathodes
			2019B1096	BL02B2	張 志剛	
			2020A1430	BL02B2	張 志剛	

Chemical Science

44311	Kentaro Yonesato	13 (2022) 5557-5561	2021A1272	BL01B1	山添 誠司	Variable Control of the Electronic States of a Silver Nanocluster via Protonation/Deprotonation of Polyoxometalate Ligands
			2021A1406	BL01B1	吉川 聡一	
44662	Yuichi Negishi	13 (2022) 5546-5556	2021B1163	BL01B1	川勝 徳久	Selective Formation of $[\text{Au}_{23}(\text{SPh}^t\text{Bu})_{17}]^0$, $[\text{Au}_{26}\text{Pd}(\text{SPh}^t\text{Bu})_{20}]^0$ and $[\text{Au}_{24}\text{Pt}(\text{SC}_2\text{H}_4\text{Ph})_7(\text{SPh}^t\text{Bu})_{11}]^0$ by Controlling Ligand-exchange Reaction
			2021A1102	BL01B1	川勝 徳久	
			2020A0695	BL01B1	川勝 徳久	

Chemistry - A European Journal

44490	Naoya Okada	(2022) Online published 19 Oct. 2022	2018A1114	BL40XU	畠山 琢次	Synthesis and Late-Stage Diversification of BN-Embedded Dibenzocorannulenes as Efficient Fluorescence Organic Light-Emitting Diode Emitters
			2018B1125	BL40XU	畠山 琢次	
			2019A1142	BL40XU	畠山 琢次	
			2019B1063	BL40XU	畠山 琢次	
			2020A1066	BL02B1	畠山 琢次	
44549	Florian Kleemiss	27 (2021) 3407-3419	2013B1056	BL02B1	Grabowsky Simon	Similarities and Differences between Crystal and Enzyme Environmental Effects on the Electron Density of Drug Molecules

Chemistry - An Asian Journal

44304	Abdillah Sani Bin Mohd Najib	14 (2019) 2802-2805	2019A4600	BL15XU	阿部 英樹	Mesoporous Rh Emerging from Nanophase-separated Rh-Y Alloy
44595	Nanami Watanabe	17 (2022) e202200768	2021B1106	BL40B2	松本 英俊	Benzothiadiazole versus Thiazolobenzotriazole: A Structural Study of Electron Acceptors in Solution-Processable Organic Semiconductors

Colloids and Surfaces A: Physicochemical and Engineering Aspects

44655	Risa Kawai	658 (2023) 130644	2016B1762	BL40B2	矢田 詩歩	Surface Adsorption and Bulk Properties of Polyoxyethylene-polyoxypropylene Random Copolymer-type Double-chained Surfactants in Quaternary-ammonium-salt-type Amphiphilic Gemini Ionic Liquids
			2018A1158	BL40B2	吉村 倫一	
			2019B1782	BL40B2	河合 里紗	
44656	Tsukasa Morita	656 (2023) 130364	2014A1456	BL40B2	吉村 倫一	Linear- and Star-type Quaternary Ammonium Salt-based Trimeric Surfactants: Effect of Structure on Adsorption and Aggregation Properties
			2017A1428	BL40B2	吉村 倫一	

Communications Chemistry

44330	Kazuki Iizuka	5 (2022) 126	2019A1246	BL13XU	中村 将志	Tailoring the Active Site for the Oxygen Evolution Reaction on a Pt Electrode
			2019B1187	BL13XU	中村 将志	
44617	Hiroyuki Isobe	5 (2022) 152	2021B1092	BL26B1	松野 太輔	Target-oriented Design of Helical Nanotube Molecules for Rolled Incommensurate Bilayers
			2019B1067	BL26B1	松野 太輔	

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
44383	Yoshiki Kudo	20 (2022) 124-127	2021A7412	BL07LSU	小嗣 真人	Measurement of X-ray Magnetic Linear Dichroism by Rotating Polarization Angle of Soft X-ray Generated by a Segmented Cross Undulator
			2020A7411	BL07LSU	平田 靖透	
			2021A7410	BL07LSU	平田 靖透	
			2021B7412	BL07LSU	山本 航平	
44389	Tomoaki Senoo	20 (2022) 221-225	2020A8019	BL1	El Moussaoui Souliman	Recovery Process from the Reversed Magnetization Simulated with a Square Lattice

Fatigue and Fracture of Engineering Materials and Structures

44518	Gaoge Xue	45 (2022) 2693-2702	2017B1421	BL20XU	中村 孝	Detection of Small Internal Fatigue Cracks in Ti-6Al-4V via Synchrotron Radiation Nanocomputed Tomography
			2018B1289	BL20XU	中村 孝	
44538	Yoshikazu Nakai	45 (2022) 2200-2214	2018A1548	BL46XU	牧野 泰三	Inclusion Orientation Dependent Flaking Process in Rolling Contact Fatigue Observed by Laminography using Ultrabright Synchrotron Radiation X-ray
			2018B1612	BL46XU	牧野 泰三	
			2019A1635	BL46XU	牧野 泰三	
			2019B1693	BL46XU	牧野 泰三	
			2020A1620	BL46XU	牧野 泰三	

Geophysical Research Letters

44468	Yohan Park	49 (2022) e2022GL100178	2021B1471	BL47XU	岡崎 啓史	Development of Lattice-Preferred Orientations of MgO Periclase From Strain Rate Controlled Shear Deformation Experiments Under Pressure up to 120 GPa
			2021B1518	BL47XU	東 真太郎	
			2021A1305	BL47XU	野村 龍一	
			2021A1391	BL47XU	東 真太郎	
			2020A1310	BL47XU	野村 龍一	
			2019B1309	BL47XU	野村 龍一	
			2019B1479	BL47XU	東 真太郎	
			2019A1145	BL47XU	野村 龍一	
			2019A1574	BL47XU	東 真太郎	
			2018B1214	BL47XU	東 真太郎	
			2018B1085	BL47XU	野村 龍一	
			2018A1268	BL47XU	野村 龍一	
			2017A1495	BL10XU	野村 龍一	
			2017A1149	BL47XU	野村 龍一	
			2017A1491	BL39XU	野村 龍一	
2016B1177	BL39XU	野村 龍一				
2016A1451	BL39XU	野村 龍一				
2015B1165	BL39XU	野村 龍一				
44608	Kenta Oka	49 (2022) e2022GL099420	2017A0072	BL10XU	廣瀬 敬	Melting Experiments on Fe-O-H and Fe-H: Evidence for Eutectic Melting in Fe-FeH and Implications for Hydrogen in the Core
			2021B0181	BL10XU	廣瀬 敬	

Journal of Applied Physics

44349	Jianbo Zhang	128 (2020) 024101	2019B1120	BL44B2	Chen Jun	Structure and Good Piezoelectric Performance in the Complex System of $Pb[(Zn,Ni)Nb]O_3-Pb[(In,Yb)Nb]O_3-Pb(Zr,Hf,Ti)O_3$
			2019A1340	BL04B2	Liang Erjun	
			2019A1095	BL04B2	Chen Jun	
			2019A1167	BL02B2	Chen Jun	
44631	Yoshiyuki Yamashita	131 (2022) 215303	2016A4606	BL15XU	山下 良之	Experimental and Theoretical Studies on Atomic Structures of the Interface States at $SiO_2/4H-SiC(0001)$ Interface

Journal of Crystal Growth

44277	Asato Nakashima	598 (2022) 126885	2020A3587	BL11XU	成塚 重弥	Direct Precipitation of Multilayer Graphene on C-plane Sapphire using a Crystallized Ni Catalyst
			2021A3587	BL11XU	成塚 重弥	
			2021B3587	BL11XU	成塚 重弥	
44414	Isaho Kamata	590 (2022) 126676	2019B3321	BL08B2	鎌田 功穂	Investigation of Propagation and Coalescence of Threading Screw and Mixed Dislocations in 4H-SiC Crystals Grown by the High-temperature Gas Source Method
			2020A3321	BL08B2	鎌田 功穂	
			2019A3321	BL08B2	鎌田 功穂	
			2021B3321	BL08B2	鎌田 功穂	

Journal of Medicinal Chemistry

44305	Hideaki Tabuse	65 (2022) 13253-13263	2021B2518	BL45XU	上谷 将史	Discovery of Highly Potent and Selective Matrix Metalloproteinase-7 Inhibitors by Hybridizing the S1' Subsite Binder with Short Peptides
44550	Florian Kleemiss	63 (2020) 12614-12622	2017A1233	BL02B1	Grabowsky Simon	Sila-Ibuprofen

The Journal of Physical Chemistry 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
44385	Yohei Uemura	13 (2022) 4207-4214	2019A7592	BL07LSU	De Groot Frank	Hole Dynamics in Photoexcited Hematite Studied with Femtosecond Oxygen K-edge X-ray Absorption Spectroscopy
44605	Mohammad Kassem	13 (2022) 10843-10850	2021A1432	BL04B2	Bychkov Evgeny	Transient Mesoscopic Immiscibility, Viscosity Anomaly, and High Internal Pressure at the Semiconductor–Metal Transition in Liquid Ga ₂ Te ₃
			2022A1418	BL04B2	Bychkov Evgeny	

Journal of Physics: Conference Series

44698	Wolfgang Voegeli	2380 (2022) 12063	2020A0176	BL28B2	矢代 航	Development of Multi-beam Optics for Time-resolved X-ray Tomography: from π-polarization to σ-polarization
			2021B1318	BL28B2	矢代 航	
			2021A1083	BL28B2	矢代 航	
			2021A1550	BL28B2	矢代 航	
44699	Wataru Yashiro	2380 (2022) 12121	2020A0559	BL28B2	矢代 航	Millisecond-Order Temporal-Resolution Synchrotron X-ray Tomography without Sample Rotation
			2021B1318	BL28B2	矢代 航	
			2021A1083	BL28B2	矢代 航	
			2021A1550	BL28B2	矢代 航	
			2020A0559	BL28B2	矢代 航	
			2020A0176	BL28B2	矢代 航	

Materials

44338	Yasuo Nakayama	15 (2022) 7119	2014B1641	BL19B2	中山 泰生	'Molecular Beam Epitaxy' on Organic Semiconductor Single Crystals: Characterization of Well-Defined Molecular Interfaces by Synchrotron Radiation X-ray Diffraction Techniques
			2015A1685	BL46XU	中山 泰生	
			2015B1624	BL46XU	中山 泰生	
			2016A1676	BL19B2	水野 裕太	
			2016B1612	BL46XU	中山 泰生	
			2017A1570	BL46XU	中山 泰生	
			2017A1815	BL19B2	中山 泰生	
			2017B1624	BL46XU	中山 泰生	
			2018A1755	BL46XU	鶴田 諒平	
			2019B1908	BL19B2	鶴田 諒平	
			2020A1627	BL19B2	中山 泰生	
			2021A1629	BL46XU	中山 泰生	
2021B1736	BL46XU	中山 泰生				
2022A1324	BL13XU	中山 泰生				
44388	Dmitri Louzguine	15 (2022) 7285	2019B1350	BL04B2	Louzguine Dmitri	Structural Changes in Metallic Glass-Forming Liquids on Cooling and Subsequent Vitrification in Relationship with Their Properties

Materials Chemistry Frontiers

44620	Fengkun Chen	6 (2022) 3062-3069	2021A1641	BL46XU	但馬 敬介	Design of Planar-zigzag Semiconducting Polymers to Control Chain Orientation and Electronic Structure for Organic Photovoltaics
			2021B1935	BL46XU	但馬 敬介	
44632	Yuto Suzuki	7 (2023) 106-116	2019A1192	BL02B1	久木 一朗	Isomeric Effect of Naphthyl Spacers on Structures and Properties of Isostructural Porous Crystalline Frameworks
			2019B1134	BL40XU	久木 一朗	
			2021A1567	BL02B2	鈴木 悠斗	
			2021A1080	BL40XU	久木 一朗	

Materials Science and Engineering: A

44297	Mitsuki Obana	826 (2021) 141972	2020A1857	BL46XU	鳥塚 史郎	The Possible Role of Nano Sized Precipitates on the Mechanical Properties of Additively Manufactured IN 718 Superalloy
44298	Yusuke Izuta	794 (2020) 139984	2019A1648	BL19B2	鳥塚 史郎	Transmission X ray Diffraction Characterization of Deformation Induced Martensite in 301 and 304 Stainless Steels Rolled at 77K: Role of Grain Size
			2019B1708	BL19B2	鳥塚 史郎	
			2019B1029	BL46XU	鳥塚 史郎	

Materials Transactions

44511	Kenta Hayashi	62 (2021) 1089-1096	2019A4906	BL15XU	小廣 和哉	NO + CO Reaction on Polycrystalline Palladium Foils with Specific Surface Crystallographic Orientation: A New Approach to Develop Foil Catalysts Based on Texture Control
			2019B4907	BL15XU	亀岡 聡	
44683	Shigeru Kimura	64 (2023) MT-MD2022001	2017A1126	BL13XU	木村 滋	Two-Directional Micro-Laue Diffraction Mapping to Observe Kink Deformation in Long-Period Stacking-Ordered Mg–Zn–Y Alloys under Compression
			2018A1221	BL28B2	木村 滋	
			2019A1356	BL28B2	木村 滋	
			2019A1358	BL40XU	木村 滋	
			2019A2060	BL13XU	木村 滋	
			2019B1610	BL13XU	木村 滋	
			2020A1006	BL28B2	木村 滋	

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
44329	Wataru Shihoya	574 (2019) 132-136	2019A2577	BL32XU	西澤 知宏	Crystal Structure of Heliorhodopsin
			2017A2578	BL32XU	石谷 隆一郎	
44693	Yan Su	611 (2022) 289-294	2020A0649	BL02B2	北川 進	Separating Water Isotopologues using Diffusion-Regulatory Porous Materials
			2020A1469	BL02B2	北川 進	
			2020A0617	BL02B1	北川 進	
			2021A1104	BL02B1	北川 進	

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

44532	Ryuta Kanai	119 (2022) e2123226119	2020A0171	BL41XU	豊島 近	Cryoelectron Microscopy of Na ⁺ ,K ⁺ -ATPase in the Two E2P States with and without Cardiotonic Steroids
44618	Saacnicteh Toledo Patino	119 (2022) e2207965119	2021A2735	BL32XU	Toledo Patino Saacnicteh	Insertions and Deletions Mediated Functional Divergence of Rossmann Fold Enzymes
			2021B2524	BL32XU	Toledo Patino Saacnicteh	

Science and Technology of Advanced Materials: Methods

44326	Daigo Furuya	2 (2022) 280-293	2019B1888	BL46XU	小綱 真人	Autonomous Synthesis System Integrating Theoretical, Informatics, and Experimental Approaches for Large-magnetic-anisotropy Materials
			2019A1625	BL46XU	小綱 真人	
			2019A1757	BL46XU	小綱 真人	
			2020A1120	BL47XU	小綱 真人	
			2020A1607	BL46XU	小綱 真人	
			2017B1588	BL46XU	小綱 真人	
44477	Hiroshi Sekiguchi	2 (2022) 426-434	2017A1830	BL40B2	関口 博史	End-condition for Solution Small Angle X-ray Scattering Measurements by Kernel Density Estimation
			2019A2059	BL40B2	関口 博史	
			2020A2130	BL40B2	関口 博史	

ACS Applied Electronic Materials

44630	Jingmin Tang	4 (2022) 4719-4723	2021B1162	BL25SU	山下 良之	Direct Observation of Atomic Structures and Chemical States of Active and Inactive Dopant Sites in Mg-Doped GaN
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ACS Applied Energy Materials

44302	Hayata Isozumi	3 (2020) 7978-7987	2016B1581	BL46XU	駒場 慎一	Impact of Newly Developed Styrene-Butadiene-Rubber Binder on the Electrode Performance of High-Voltage LiNi _{0.5} Mn _{1.5} O ₄ Electrode
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ACS Central Science

44452	Hasan DeMirici	8 (2022) 1091-1101	2016A8018	BL3	Demirci Hasan	Intersubunit Coupling Enables Fast CO ₂ -Fixation by Reductive Carboxylases
			2017A8055	BL3	Demirci Hasan	
			2018A8031	BL2	Demirci Hasan	

ACS Earth and Space Chemistry

44577	Baasansuren Gankhurel	4 (2020) 1064-1077	2018B1801	BL14B2	高橋 嘉夫	Comparison of Chemical Speciation of Lead, Arsenic, and Cadmium in Contaminated Soils from a Historical Mining Site: Implications for Different Mobilities of Heavy Metals
			2019A1523	BL37XU	高橋 嘉夫	
			2019B1498	BL37XU	高橋 嘉夫	

ACS Energy Letters

44278	Xueyan Hou	7 (2022) 1687-1693	2019B1450	BL27SU	中村 崇司	Thermodynamic Analysis Enables Quantitative Evaluation of Lattice Oxygen Stability in Li-Ion Battery Cathodes
			2020A0749	BL27SU	中村 崇司	
			2021A1343	BL27SU	中村 崇司	
			2021B1660	BL27SU	中村 崇司	

ACS Materials Letters

44682	Yuiga Nakamura	4 (2022) 2409-2414	2018B1809	BL19B2	中村 唯我	Degradation Mechanism of Halide Perovskite Crystals under Concurrent Light and Humidity Exposure
			2019B2017	BL19B2	小金澤 智之	
			2019B2018	BL19B2	小金澤 智之	
			2019B2066	BL19B2	小金澤 智之	
			2021B1870	BL19B2	柴山 直之	
			2021B1952	BL19B2	柴山 直之	
			2022A1654	BL19B2	柴山 直之	
2022A1777	BL19B2	柴山 直之				

ACS Nano

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
44433	Shingo Hasegawa	16 (2022) 16932-16940	2021B1415	BL01B1	増田 晋也	Synergistically Activated Pd Atom in Polymer-Stabilized Au ₂₃ Pd ₁ Cluster

ACS Sustainable Chemistry & Engineering

44459	Kotohiro Nomura	10 (2022) 12504-12509	2021B1594	BL01B1	野村 琴広	Transesterification of Methyl-10-undecenoate and Poly(ethylene adipate) Catalyzed by (Cyclopentadienyl)titanium Trichlorides as Model Chemical Conversions of Plant Oils and Acid-, Base-Free Chemical Recycling of Aliphatic Polyesters
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Acta Crystallographica Section B

44547	F. Kleemiss	77 (2021) 892-905	2017A1233	BL02B1	Grabowsky Simon	Ibuprofen and Siba-ibuprofen: Polarization Effects in the Crystal and Enzyme Environments
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Acta Crystallographica Section D

44491	Jill Trewthella	78 (2022) 1315-1336	2019A2059	BL40B2	関口 博史	A Round-Robin Approach Provides a Detailed Assessment of Biomolecular Small-Angle Scattering Data Reproducibility and Yields Consensus Curves for Benchmarking
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Advanced Functional Materials

44497	Zhanglin Guo	32 (2022) 2207554	2021A1689	BL46XU	柴山 直之	A Universal Method of Perovskite Surface Passivation for CsPbX ₃ Solar Cells with Voc over 90% of the S-Q Limit
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Advanced Materials

44473	Rui Li	(2022) Online published 13 Sep. 2022	2016A4126	BL12B2	Chen Shi-Wei	Boosting Oxygen-Evolving Activity via Atom-Stepped Interfaces Architected with Kinetic Frustration
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Advances in Redox Research

44315	Jacob R. Boos	6 (2022) 100048	2014A1464	BL41XU	長谷川 和也	Structure and Biological Evaluation of <i>Caenorhabditis elegans</i> CISD-1/mitoNEET, a KLP-17 Tail Domain Homologue, Supports Attenuation of Paraquat-induced Oxidative Stress through a p38 MAPK-mediated Antioxidant Defense Response
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Applied Catalysis B

44314	Hao Ge	317 (2022) 121734	2020A1064	BL01B1	桑原 泰隆	Ru/H ₂ MoO _{3-y} with Plasmonic Effect for Boosting Photothermal Catalytic CO ₂ Methanation
			2021B1090	BL01B1	桑原 泰隆	

Applied Physics Express

44474	Yoshiharu Kirihara	15 (2022) 111003	2020A0710	BL47XU	野平 博司	Using Hard X-ray Photoelectron Spectroscopy to Study a SiO ₂ /HfO ₂ -based Interface Dipole Modulation Stack Embedded in a Metal-Insulator-Metal Structure
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Applied Surface Science

44317	Noritake Isomura	608 (2023) 155198	2021B5070	BL16XU	高橋 直子	X-ray Absorption Spectroscopy without the Self-absorption Effect by Detecting L-line Fluorescence at the K-edge
			2022A5070	BL16XU	高橋 直子	

Asian Journal of Organic Chemistry

44285	Sitanan Sartyoungkul	9 (2020) 947-952	2019A1402	BL02B1	焼山 佑美	Synthesis and Dimerization Properties of Cup- and Bowl-shaped Cyclic Trilactams
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Batteries & Supercaps

44509	Katsuhiro Wakamatsu	6 (2023) e202200385	2022A3634	BL14B1	吉川 浩史	Electron Storage Performance of Hybrid Materials Comprising Polyoxometalates and Carbon Nanohorns as Cathode-Active Materials
			2021B3634	BL14B1	吉川 浩史	
			2021A3634	BL14B1	吉川 浩史	

Biochemical Journal

44331	Mei Nakagawa	479 (2022) 1999-2011	2018B2520	BL26B1	帯田 孝之	The Hydrophobic Residue Leu73 is Crucial for the High Stability and Low Aggregation Properties of Murine Transthyretin
			2019B2544	BL45XU	帯田 孝之	

Biochimica et Biophysica Acta - Proteins and Proteomics

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
44455	Chinar Pathak	1834 (2013) 2579-2590	2011B1404	BL26B1	三上 文三	Crystal Structure of Apo and Copper Bound HP0894 Toxin from <i>Helicobacter pylori</i> 26695 and Insight into mRNase Activity
			2012B6741	BL44XU	三上 文三	

Biophysics and Physicobiology

44337	Nobutaka Numoto	19 (2022) e190019	2014A1159	BL38B1	沼本 修孝	Structures of Oxygen Dissociation Intermediates of 400 kDa V2 Hemoglobin Provide Coarse Snapshots of the Protein Allostery
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BMC Structural Biology

44357	Yuji Ashikawa	12 (2012) 15	2005A0671	BL41XU	芦川 雄二	Structural Insight into the Substrate- and Dioxygen-binding Manner in the Catalytic Cycle of Rieske Nonheme Iron Oxygenase System, Carbazole 1,9a-dioxygenase
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Bulletin of the Chemical Society of Japan

44430	Hiroki Mori	95 (2022) 942-952	2017B1831	BL46XU	尾坂 格	Effects of Acyloxy Groups in Anthrabiadiazole-Based Semiconducting Polymers on Electronic Properties, Thin-Film Structure, and Solar Cell Performance
			2018B1595	BL46XU	尾坂 格	

The Canadian Mineralogist

44482	Anthony R. Kampf	60 (2022) 805-814	2021A1077	BL37XU	Brunner Joel	Matthiasweilite, PbTe ⁴⁺ O ₃ , a New Tellurite Mineral from the Delamar Mine, Lincoln County, Nevada, USA
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Catalysis Today

44325	Yuan Jing	410 (2023) 109-116	2019B1156	BL27SU	鳥屋尾 隆	Mechanistic Study on Three-way Catalysis over Pd/La/Al ₂ O ₃ with High La Loading
			2018A1757	BL14B2	鳥屋尾 隆	

Cell Reports Physical Science

44446	Tianxiang Chen	3 (2022) 100850	2021B1100	BL02B2	Lo Benedict	Atomically Precise Bimetallic Metal Ensembles with Tailorable Synergistic Effects
			2021B1099	BL01B1	Lo Benedict	
			2020A1088	BL02B2	Lo Benedict	
			2020A0565	BL01B1	Lo Benedict	

Chem Catalysis

44445	Ching Kit Tommy Wun	2 (2022) 2346-2363	2021B1100	BL02B2	Lo Benedict	Atomically Dispersed 3d Metal Bimetallic Dual-atom Catalysts and Classification of the Structural Descriptors
			2021B1099	BL01B1	Lo Benedict	

ChemCatChem

44426	Hiroki Miura	13 (2021) 4705-4713	2020A1381	BL01B1	三浦 大樹	Electrophilic C(sp ²)-H Silylation by Supported Gold Catalysts
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Chemistry and Physics of Lipids

44517	Nozomi Honma	249 (2022) 105255	2016B1357	BL40B2	横田 麻美	Modulation of Function and Structure of Stratum Corneum in Sphingomyelin Synthase 2-deficient Mice
			2017A1413	BL40B2	徳留 嘉寛	
			2017B1315	BL40B2	徳留 嘉寛	
			2017B1320	BL40B2	徳留 嘉寛	
			2018A1473	BL40B2	徳留 嘉寛	
			2018A1478	BL40B2	徳留 嘉寛	
			2018B1254	BL40B2	徳留 嘉寛	
2018B1257	BL40B2	徳留 嘉寛				

ChemistrySelect

44424	Yutaro Yagi	7 (2022) e202104575	2017B3631	BL14B1	籠宮 功	Influences of Hydration-Dehydration on Local Structure in Layered Perovskite LaSr ₃ Fe ₃ O ₁₀
			2019B3631	BL14B1	籠宮 功	

ChemNanoMat

44626	Takaaki Suzuki	(2022) Online published 17 Nov. 2022	2020A1803	BL14B2	山口 和也	Creation of Highly Dispersed Supported Polyoxometalate Cesium Salts via Cation Exchange from Alkylammonium Salts on Supports
			2021B1918	BL14B2	山口 和也	
			2022A1803	BL14B2	矢部 智宏	

ChemSusChem

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
44367	Kosuke Yamaguchi	15 (2022) e202102663	2021B1104	BL01B1	富重 圭一	Deoxydehydration of Biomass-Derived Polyols Over Silver-Modified Ceria-Supported Rhenium Catalyst with Molecular Hydrogen
			2021A1235	BL01B1	富重 圭一	

Communications Biology

44507	Hideyuki Matsunami	4 (2021) 1291	2008B1382	BL41XU	今田 勝巳	Structure of the Bacterial Flagellar Hook Cap Provides Insights into a Hook Assembly Mechanism
			2015B6501	BL44XU	Samatey Fadel	
			2016A6601	BL44XU	Samatey Fadel	
			2016B6601	BL44XU	Samatey Fadel	

Communications Earth & Environment

44429	Satoshi Okumura	3 (2022) 241	2019B1209	BL20XU	奥村 聡	Rheology of Nanocrystal-bearing Andesite Magma and its Roles in Explosive Volcanism
			2020A1433	BL20XU	奥村 聡	
			2021A1081	BL47XU	奥村 聡	

Crystals

44283	Hidetoshi Miyazaki	12 (2022) 1403	2021A1462	BL02B2	宮崎 秀俊	Relation between Electronic Structure and Thermoelectric Properties of Heusler-Type Ru ₂ VAl Compounds
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CrystEngComm

44551	Lorraine A. Malaspina	22 (2020) 4778-4789	2013B1056	BL02B1	Grabowsky Simon	Hydrogen Atoms in Bridging Positions from Quantum Crystallographic Refinements: Influence of Hydrogen Atom Displacement Parameters on Geometry and Electron Density
			2014A1078	BL02B1	Grabowsky Simon	

Current Research in Structural Biology

44321	Bowei Yang	3 (2021) 312-323	2019A2558	BL41XU	Liu Zhenfeng	The Phosphatidylglycerol Phosphate Synthase PgsA Utilizes a Trifurcated Amphipathic Cavity for Catalysis at the Membrane-cytosol Interface
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Earth, Planets and Space

44479	Akira Tsuchiyama	74 (2022) 172	2015A1624	BL20B2	土山 明	Three-dimensional Shape Distribution of Lunar Regolith Particles Collected by the Apollo and Luna Programs
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Ecology

44393	Chong Chen	104 (2023) e3847	2017B1767	BL20B2	佐々木 猛智	Anatomical Shifts Linked with Unusual Diets in Deep-sea Snails
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ECS Transactions

44462	Takahiro Saida	109 (2022) 103	2019A1065	BL01B1	才田 隆広	Investigation of the Active Site on Rhodium Oxide for the Oxygen Reduction Reaction Using In-Situ XAFS
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Electrochemistry

44434	Akira Matsuzaki	90 (2022) 107001	2018B3641	BL14B1	荒井 創	Oxygen Reduction Activity and Interfacial Structures of La _{0.8} Sr _{0.2} CoO ₃ at Initial Electrochemical Process in an Alkaline Solution
			2010B1817	BL14B2	菅野 了次	
			2010B3675	BL14B1	菅野 了次	
			2011A1866	BL46XU	菅野 了次	

EPJ Web of Conferences

44288	Hideki Kohri	241 (2020) 01010	2019A6004	BL33LEP	堀田 智明	Recent Results of Charged Pion and Kaon Photoproduction on the Proton at SPring-8/LEPS
			2017A6001	BL33LEP	堀田 智明	
			2017B6001	BL33LEP	堀田 智明	
			2018A6004	BL33LEP	堀田 智明	
			2018B6004	BL33LEP	堀田 智明	

European Journal of Inorganic Chemistry

44598	Shinichiro Kawano	(2022) Online published 27 Nov. 2022	2017A1071	BL02B1	河野 慎一郎	Kinetically-Locked Metallomacrocyclic for Host-Guest Chemistry with Bulky Anions
			2018A1107	BL02B1	河野 慎一郎	
			2019B1112	BL02B1	河野 慎一郎	
			2020A1100	BL02B1	河野 慎一郎	
			2021A1084	BL02B1	河野 慎一郎	

The European Physical Journal A

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
44342	Ayumi Kasagi	58 (2022) 190	2019A1372	BL47XU	吉本 雅浩	High-resolution Measurement of Hypernuclear Events in a Nuclear Emulsion with Hard X-ray Microscopy
			2020A1523	BL47XU	吉本 雅浩	

FEBS Letters

44530	Ryuta Kanai	596 (2022) 2513-2524	2020A0171	BL41XU	豊島 近	Cryo-electron Microscopy of Na ⁺ ,K ⁺ -ATPase Reveals How the Extracellular Gate Locks in the E2·2K ⁺ State
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FEBS Open Bio

44560	Kohei Sasamoto	12 (2022) 1875-1885	2020A2546	BL45XU	中村 努	Functional Analysis of the N-terminal Region of Acetylcholin Esterase from <i>Caldanaerobacter subterraneus</i> Subsp. <i>Tengcongensis</i>
			2021A2748	BL45XU	中村 努	

Frontiers in Materials

44463	Yusuke Kubo	9 (2022) 954110	2017B1304	BL39XU	石松 直樹	Visualization of the Disordered Structure of Fe-Ni Invar Alloys by Reverse Monte Carlo Calculations
			2017B1974	BL39XU	河村 直己	
			2018B1355	BL39XU	石松 直樹	
			2019A1530	BL39XU	石松 直樹	
			2021A1434	BL39XU	石松 直樹	

Genes to Cells

44323	Norihiro Takekawa	26 (2021) 927-937	2018A2569	BL41XU	今田 勝巳	ZomB is Essential for Chemotaxis of <i>Vibrio alginolyticus</i> by the Rotational Direction Control of the Polar Flagellar Motor
			2019A2551	BL41XU	今田 勝巳	
			2020A2574	BL41XU	今田 勝巳	

IEEE Electron Device Letters

44292	Yu-Shien Shiah	42 (2021) 1319-1322	2019A4701	BL15XU	金正煥	Unintended Carbon-Related Impurity and Negative Bias Instability in High-Mobility Oxide TFTs
			2019B4702	BL15XU	金正煥	

International Journal of Fatigue

44619	Valary Tubei	168 (2023) 107428	2021A1574	BL20XU	Tubei Valary	Direct Observation of Three-dimensional Short Fatigue Crack Closure Behavior in Ti-6Al-4V Alloy using Ultra-high-resolution X-ray Microtomography
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International Journal of Hydrogen Energy

44465	Hiroya Ito	47 (2022) 38635-38643	2022A1782	BL14B2	田代 啓悟	Improved Catalytic Stability of Pt/TiO ₂ Catalysts for Methylcyclohexane Dehydrogenation via Selenium Addition
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International Journal of Plasticity

44296	Daixiu Wei	159 (2022) 103443	2019A1645	BL46XU	小泉 雄一郎	Si-addition Contributes to Overcoming the Strength-ductility Trade-off in High-entropy Alloys
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iScience

44588	Akiko Yamaguchi	25 (2022) 104763	2019A1523	BL37XU	高橋 嘉夫	Extended X-ray Absorption Fine Structure Spectroscopy Measurements and <i>ab initio</i> Molecular Dynamics Simulations Reveal the Hydration Structure of the Radium(II) Ion
			2019B1498	BL37XU	高橋 嘉夫	
			2020A0174	BL37XU	高橋 嘉夫	
			2021A3712	BL22XU	横山 啓一	
			2021B3720	BL22XU	山口 瑛子	

Journal of Alloys and Compounds

44362	Alexei A. Belik	922 (2022) 166297	2021A1334	BL02B2	Belik Alexei	Different Magnetic and Magnetodielectric Behavior of BaRFeO ₄ Ferrites with R = Ho, Er, Tm, and Yb
			2019A4501	BL15XU	辻本 吉廣	

Journal of Applied Crystallography

44548	Lorraine Malaspina	54 (2021) 718-729	2013B1056	BL02B1	Grabowsky Simon	The Advanced Treatment of Hydrogen Bonding in Quantum Crystallography
			2014A1078	BL02B1	Grabowsky Simon	

Journal of Applied Physiology

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
44514	Erin McGillick	131 (2021) 997-1008	2018A0150	BL20B2	Hooper Stuart	Increased End-expiratory Pressures Improve Lung Function in Near-term Newborn Rabbits with Elevated Airway Liquid Volume at Birth

Journal of Bacteriology

44322	Norihiro Takekawa	204 (2022) e00376-21	2019A2550	BL41XU	今田 勝巳	Structural Basis of Ubiquitin Recognition by a Bacterial Ovarian Tumor Deubiquitinase LotA
			2019A2551	BL41XU	今田 勝巳	

The Journal of Biochemistry

44324	Norihiro Takekawa	170 (2021) 531-538	2019A2551	BL41XU	今田 勝巳	A Slight Bending of an α -helix in FlmM Creates a Counterclockwise-locked Structure of the Flagellar Motor in <i>Vibrio</i>
			2020A2574	BL41XU	今田 勝巳	

The Journal of Biological Chemistry

44480	Junji Otani	288 (2013) 6351-6362	2010B1059	BL38B1	西野 達哉	Structural Basis of the Versatile DNA Recognition Ability of the Methyl-CpG Binding Domain of Methyl-CpG Binding Domain Protein 4
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Journal of Biorheology

44431	Shusaku Kawano	36 (2022) 51-57	2016B1201	BL20B2	松本 健志	In-situ Deformation Imaging of Articular Cartilage using Grating-based Phase-contrast X-ray CT at a Synchrotron Light Source
			2018A1394	BL20B2	松本 健志	

Journal of Electroanalytical Chemistry

44684	Yasushi Idemoto	928 (2023) 117064	2021A1644	BL14B2	井手本 康	Electrochemical Properties and Crystal and Electronic Structure Changes during Charge/Discharge of Spinel Type Cathode-materials $Mg_{1.33}V_{1.67-x}Mn_xO_4$ for Magnesium Secondary Batteries
			2021B1872	BL14B2	井手本 康	
			2019B1882	BL19B2	井手本 康	
			2020A1729	BL14B2	井手本 康	

Journal of Materials Chemistry C

44294	Hiroki Taniguchi	8 (2020) 13627-13631	2019A1086	BL13XU	谷口 博基	Permittivity Boosting in "Yellow" (Nb + In) Co-doped TiO_2
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Journal of Materials Science

44611	Xiaojing Liu	57 (2022) 21446-21459	2013B3721	BL22XU	葛蒲 敬久	Heat-induced Structural Changes in Magnesium Alloys AZ91 and AZ31 Investigated by in situ Synchrotron High-energy X-ray Diffraction
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Journal of Non-Crystalline Solids

44295	Akira Saitoh	560 (2021) 120720	2019A4701	BL15XU	金正煥	Origins of the Coloration from Structure and Valence State of Bismuth Oxide Glasses
			2019B4702	BL15XU	金正煥	

Journal of Organometallic Chemistry

44449	Julius Adrie Garcia	956 (2021) 122119	2019B1578	BL02B1	行本 万里子	A Unique 1,4-silyl Group Migration from Carbon to Carbon: Formation of Benzylic Silane in the Reaction of Sterically Hindered Benzylic Telluride with Alkylolithium
			2019B1774	BL02B1	鈴木 文陽	
			2020A0834	BL02B1	西野 龍平	

Journal of Peptide Science

44461	Hidemine Furuya	(2022) Online published 23 Oct. 2022	2019A1290	BL40B2	古屋 秀峰	Direct Determination of the π -helix Structure and Helix Transition Behavior of Poly(β -phenethyl L-aspartate) via Synchrotron X-ray Diffraction
			2017B1168	BL45XU	古屋 秀峰	

Journal of Power Sources

44301	Hayata Isozumi	468 (2020) 228332	2016B1581	BL46XU	駒場 慎一	Application of Modified Styrene-Butadiene-Rubber-Based Latex Binder to High-Voltage Operating $LiCoO_2$ Composite Electrodes for Lithium-Ion Batteries
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Journal of Sol-Gel Science and Technology

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
44458	Yoshiyuki Kuroda	104 (2022) 647-658	2021A5310	BL16B2	尾角 英毅	β -FeOOH Nanorod as a Highly Active and Durable Self-repairing Anode Catalyst for Alkaline Water Electrolysis Powered by Renewable Energy

Journal of Solid State Chemistry

44687	Akihiro Nakanishi	319 (2023) 123780	2022A5380	BL16B2	小林 裕	Effect of A-site Deficiency on Perovskite-type Mn^{4+} -activated $La_{5/3}MgTaO_6$ Red Phosphor and Green Luminescence of the Mn^{2+} Occupied Six-coordinate Site in Mg_2LaTaO_6
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Journal of Structural Biology

44464	Maya Nakatani	214 (2022) 107904	2019A2552	BL26B1	村川 武志	Crystal Structure of a Nucleotide-binding Domain of Fatty Acid Kinase FakA from <i>Thermus thermophilus</i> HB8
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Journal of Synchrotron Radiation

44410	Junji Matsui	29 (2022) 1251-1257	2019B3202	BL24XU	津坂 佳幸	Study of X-ray Topography using the Super-Bornmann Effect
			2020A3202	BL24XU	津坂 佳幸	
			2021A3202	BL24XU	津坂 佳幸	
			2021B3202	BL24XU	津坂 佳幸	

Journal of the Ceramic Society of Japan

44563	Ryusei Ogawa	130 (2022) 403-409	2021B1470	BL04B2	萩原 学	Effect of Dual Doping by Rare-Earth and Sodium Ions on Thermoelectric Properties of $CaMnO_3$ Ceramics
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Journal of The Electrochemical Society

44300	Norikazu Yoshinaga	166 (2019) A5430	2017A1399	BL02B2	駒場 慎一	Lithium Magnesium Tungstate Solid as an Additive into $Li(Ni_{1/3}Mn_{1/3}Co_{1/3})O_2$ Electrodes for Li-Ion Batteries
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Journal of the European Ceramic Society

44502	Gaku Okuma	43 (2023) 486-492	2021B1243	BL20XU	大熊 学	Heterogeneities and Defects in Powder Compacts and Sintered Alumina Bodies Visualized by using the Synchrotron X-ray CT
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Journal of Vacuum Science & Technology A

44406	Noritake Isomura	40 (2022) 063204	2021A5070	BL16XU	高橋 直子	Nanometer-scale Depth-resolved Hard X-ray Absorption Spectroscopy Based on the Detection of Energy-loss Auger Electrons with Low Energies
			2021B5070	BL16XU	高橋 直子	

Langmuir

44492	Kejun Chen	38 (2022) 13497-13505	2019B1817	BL20XU	三俣 哲	In Situ Observation of the Movement of Magnetic Particles in Polyurethane Elastomer Densely Packed Magnetic Particles Using Synchrotron Radiation X-ray Computed Tomography
			2020A1700	BL20XU	三俣 哲	
			2021A1556	BL47XU	三俣 哲	

Macromolecules

44373	Toan Van Nguyen	54 (2021) 8738-8750	2011B1464	BL40B2	佐々木 園	Effect of the 3-Hydroxyhexanoate Content on Melt-Isenthalmic Crystallization Behavior of Microbial Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate)
			理研	BL05XU		
			理研	BL45XU		

Materials Horizons

44350	Hui Liu	7 (2020) 1912-1918	2019B1120	BL44B2	Chen Jun	An Intriguing Intermediate State as a Bridge between Antiferroelectric and Ferroelectric Perovskites
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Materials Today Energy

44613	Nadja Klipfel	29 (2022) 101110	2021B1870	BL19B2	柴山 直之	Zn(II) and Cu(II) Tetrakis(diarylamine)phthalocyanines as Hole-transporting Materials for Perovskite Solar Cells
			2021B1952	BL19B2	柴山 直之	

Microstructures

44351	Botao Gao	2 (2022) 2022010	2020A1052	BL44B2	Chen Jun	An Intriguing Canting Dipole Configuration and its Evolution under an Electric Field in La-doped $Pb(Zr,Sn,Ti)O_3$ Perovskites
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Molecular Crystals and Liquid Crystals

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
44327	Saki Iyoda	728 (2021) 10-18	2019B1452	BL40B2	前田 大光	Preparation and Characterization of Macrocyclic Butadiyne Derivatives for Tubular Polydiacetylenes

Molecular System Design & Engineering

44390	Ryohei Ikura	7 (2022) 733-745	2020A1524	BL43IR	高島 義徳	Fabrication and Mechanical Properties of Knitted Dissimilar Polymeric Materials with Movable Cross-links
			2021A1593	BL40B2	河合 優作	
			2021B1229	BL43IR	松葉 豪	
			2021A1196	BL40B2	松葉 豪	

Nano Letters

44353	Shiqing Deng	21 (2021) 6648-6655	2019A1167	BL02B2	Chen Jun	Critical Role of Sc Substitution in Modulating Ferroelectricity in Multiferroic LuFeO ₃
			2019A1095	BL04B2	Chen Jun	
			2019A1340	BL04B2	Liang Erjun	
			2019B1120	BL44B2	Chen Jun	

Nanomaterials

44364	Dmitry V. Karpinsky	12 (2022) 2813	2021A1334	BL02B2	Belik Alexei	Temperature-Driven Transformation of the Crystal and Magnetic Structures of BiFe _{0.7} Mn _{0.3} O ₃ Ceramics
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Nanoscale

44603	Eisuke Yamamoto	14 (2022) 11561-11567	2020A1786	BL01B1	山本 瑛祐	Tailored Synthesis of Molecularly Thin Platinum Nanosheets using Designed 2D Surfactant Solids
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Nature Catalysis

44307	Feilong Xing	5 (2022) 55-65	2019B1620	BL01B1	古川 森也	Ternary Platinum-Cobalt-Indium Nanoalloy on Ceria as a Highly Efficient Catalyst for the Oxidative Dehydrogenation of Propane using CO ₂
			2019B1469	BL01B1	山添 誠司	

Nature Electronic

44291	Yu-Shien Shiah	4 (2021) 800-807	2019A4701	BL15XU	金正煥	Mobility-stability Trade-off in Oxide Thin-film Transistors
			2019B4702	BL15XU	金正煥	

Nature Materials

44657	Itsuki Konuma	(2022) Online published 12 Dec. 2022	2019B1685	BL19B2	藪内 直明	A Near Dimensionally Invariable High-capacity Positive Electrode Material
			2020A2135	BL04B2	尾原 幸治	

Nature Structural and Molecular Biology

44519	Dongqing Pan	20 (2013) 987-993	2011A1210	BL41XU	中津 亨	Crystal Structure of Peroxisomal Targeting Signal-2 Bound to its Receptor Complex Pex7p-Pex21p
			2011A1289	BL41XU	中津 亨	

Nuclear Instruments and Methods in Physics Research Section A

44382	Yoshiki Kudo	1018 (2021) 165804	2021A7412	BL07LSU	小嗣 真人	A Novel Measurement Approach for Near-edge X-ray Absorption Fine Structure: Continuous 2π Angular Rotation of Linear Polarization
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Open Biology

44506	Daichi Takahashi	12 (2022) 220083	2018A2567	BL41XU	今田 勝巳	ATP-dependent Polymerization Dynamics of Bacterial Actin Proteins Involved in <i>Spiroplasma</i> Swimming
			2019A2550	BL41XU	今田 勝巳	
			2019A2550	BL45XU	今田 勝巳	

Pediatric Research

44513	Arjan Te Pas	90 (2021) 1117-1119	2018A0150	BL20B2	Hooper Stuart	Neonatal Resuscitation Research: Closing the Gap
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Physical Review A

44427	Akinobu Niozu	106 (2022) 043116	2019A8054	BL1	永谷 清信	Surface Explosion and Subsequent Core Expansion of Laser-heated Clusters Probed by Time-resolved Photoelectron Spectroscopy
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Physical Review Research

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
44469	Tomohiro Takayama	4 (2022) 043079	2018B4139	BL12B2	高山 知弘	Competing Spin-orbital Singlet States in the 4d ⁴ Honeycomb Ruthenate Ag ₃ LiRu ₂ O ₆

Polymer Journal

44310	Hiroko Yamamoto	55 (2023) 27-43	2020A7225	BL03XU	田代 孝二	Synchrotron X-ray-analyzed Inner Structure of Polyethylene Spherulites and Atomistic Simulation of a Trigger of the Lamellar Twisting Phenomenon
			2019B7261	BL03XU	船城 健一	
			2018B7263	BL03XU	船城 健一	
			2017B7263	BL03XU	船城 健一	
			2017A7211	BL03XU	船城 健一	
			2016A7212	BL03XU	船城 健一	
			2015B7262	BL03XU	船城 健一	
			2014B7262	BL03XU	船城 健一	
2013B7262	BL03XU	船城 健一				
2013A7214	BL03XU	船城 健一				

Proceedings of the 12th International Conference on Zinc and Zinc Alloy Coated Steel Sheet

44303	Ryo Sasaki	(2021) 1337	2019A1627	BL20XU	佐々木 遼	In-situ Observation of the Crystallization and Growth Behavior of Fe-Zn Intermetallic Compound ("Bottom Dross") in the Molten Zinc using X-ray Transmission Imaging Method
			2018A1551	BL20XU	佐々木 遼	
			2018B1587	BL20XU	佐々木 遼	

Protein Engineering Design and Selection

44558	Yuya Shimozawa	35 (2022) gzac008	2021A2748	BL45XU	中村 努	Reducing Substrate Inhibition of Malate Dehydrogenase from <i>Geobacillus stearothermophilus</i> by C-terminal Truncation
			2021A6627	BL44XU	中村 努	
			2020A6531	BL44XU	中村 努	
			2021B6627	BL44XU	中村 努	

RSC Advances

44540	Chisako Kanzaki	12 (2022) 30670-30681	2020A0845	BL40B2	神崎 千沙子	Ionic Supramolecular Polymerization of Water-soluble Porphyrins: Balancing Ionic Attraction and Steric Repulsion to Govern Stacking
			2021A1591	BL40B2	神崎 千沙子	
			2021B1267	BL40B2	沼田 宗典	
			2022A1728	BL40B2	神崎 千沙子	
			2021A1590	BL43IR	神崎 千沙子	
			2021B1778	BL43IR	神崎 千沙子	
			2022A1725	BL43IR	神崎 千沙子	

Science Advances

44597	Hiroshi Inaba	8 (2022) abq3817	2021A2745	BL32XU	塚崎 智也	Generation of Stable Microtubule Superstructures by Binding of Peptide-fused Tetrameric Proteins to Inside and Outside
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Seminars in Fetal and Neonatal Medicine

44512	Stuart B. Hooper	24 (2019) 101033	2018A0150	BL20B2	Hooper Stuart	Issues in Cardiopulmonary Transition at Birth
			2016A0132	BL20B2	Hooper Stuart	

Small

44299	Yusuke Yoda	16 (2020) 2006483	2017A1399	BL02B2	駒場 慎一	Elucidating Influence of Mg- and Cu-Doping on Electrochemical Properties of O ₃ -Na _x [Fe,Mn]O ₂ for Na-Ion Batteries
			2017B1312	BL02B2	駒場 慎一	

Structure

44596	Hidetaka Kohga	30 (2022) 1088-1097	2020A2564	BL32XU	塚崎 智也	Crystal Structure of the Lipid Flippase MurJ in a "Squeezed" Form Distinct from its Inward- and Outward-facing Forms
			2015A1061	BL32XU	塚崎 智也	

Waste Management

44685	Yuki Nagao	157 (2023) 18-24	2019B1832	BL14B2	長尾 有記	Characterization of Trace Elements in Coal Fly Ash by Extraction, Micro-PIXE, TOF-SIMS, and XAFS
			2021A1634	BL14B2	橋本 洋平	

軽金属 (Journal of Japan Institute of Light Metals)

44607	Serina Tanaka	72 (2022) 593-599	2019A1613	BL27SU	足立 大樹	Investigation of the Role of Sn on Negative Effect in Two-step Aging in an Al-Mg-Si Alloy by XAFS Analysis
			2020A1844	BL14B2	田中 芹奈	

計測と制御 (Journal of the Society of Instrument and Control Engineers)

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
44566	Wataru Yashiro	60 (2021) 192-196	2020A0176	BL28B2	矢代 航	Millisecond-Order X-ray Tomography Using Synchrotron Radiation
			2020A0559	BL28B2	矢代 航	

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

44691	Kenji Suzuki	71 (2022) 1005-1012	2020A3721	BL22XU	菖蒲 敬久	A Study on Stress Measurement of Weld Part using Double Exposure Method
			2020A3684	BL14B1	鈴木 賢治	
			2021A3684	BL14B1	鈴木 賢治	
			2020A1425	BL28B2	三浦 靖史	
			2021B2007	BL28B2	豊川 秀訓	

作物研究 (Journal of Crop Research)

44316	Tatsuya Inamura	67 (2022) 41-49	2016B1797	BL20B2	稲村 達也	Evaluation of Large Vascular Bundle of Panicle Neck Internode of Rice Seed Aggregate and Rice Straw Aggregate Excavated from the Remains by X-ray CT Measuring
			2018A1700	BL20B2	稲村 達也	
			2018B1741	BL20B2	稲村 達也	
			2020A1279	BL28B2	稲村 達也	

電気化学 (Denki Kagaku)

44391	Koji Amezawa	20 (2022) 32-38	2019A1467	BL37XU	雨澤 浩史	3D Operando Analysis of Reaction Distribution in All-Solid-State Batteries Using Synchrotron X-ray
			2019B1639	BL37XU	雨澤 浩史	
			2018B1280	BL37XU	雨澤 浩史	
			2018A1372	BL37XU	雨澤 浩史	

日本物理学会誌 (Butsuri)

44387	Hiroki Wadati	73 (2018) 4-5	2016A7403	BL07LSU	和達 大樹	Observing Element-Specific Spin Dynamics
			2016B7403	BL07LSU	和達 大樹	
			2016A7504	BL07LSU	田久保 耕	
			2016B7518	BL07LSU	平田 靖透	

分析化学 (Bunseki Kagaku)

44495	Tomoko Kajiwara	71 (2022) 541-547	2020A0570	BL43IR	高原 淳	Characterization of Microplastics by Advanced Analytical Techniques
			2021A1173	BL43IR	高原 淳	

まぐね (Magnetics Japan)

44386	Hiroki Wadati	14 (2019) 140-145	2017B8060	BL3	和達 大樹	Spin Dynamics Observed by Time-resolved X-ray Magnetic Circular Dichroism
			2017B8088	BL3	久保田 雄也	

まてりあ (Materia Japan)

44565	Hiroyuki Kudo	61 (2022) 7-14	2020A0176	BL28B2	矢代 航	Fundamental and Trend of Tomographic Image Reconstruction: from Analytical Reconstruction Method, through Compressed Sensing, to Deep Learning
			2020A0559	BL28B2	矢代 航	
			2020A0560	BL28B2	矢代 航	
			2021A1083	BL28B2	矢代 航	
			2021B1318	BL28B2	矢代 航	

有機合成化学協会誌 (Journal of Synthetic Organic Chemistry, Japan)

44443	Kazuki Ueda	80 (2022) 930-940	2022A1354	BL02B1	村田 理尚	Design and Short-step Synthesis of π -Conjugated Networks toward n-Type Semiconducting Materials
			2022A1189	BL40B2	平井 智康	
			2021B1435	BL02B1	村田 理尚	
			2021B1157	BL40B2	平井 智康	
			2020A1056	BL02B1	笹森 貴裕	
			2019B1129	BL02B1	笹森 貴裕	
			2019A1057	BL02B1	笹森 貴裕	

博士論文 (大阪大学)

44341	Kento Katagiri	(2022)	2018A8036	BL3	尾崎 典雅	Study on Elastic-plastic Deformation Dynamics of Diamond using Laser-driven Shock Compression
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課題以外の成果として登録された論文

Acta Crystallographica Section D

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
44355	Vladimir Timofeev	68 (2012) 1660-1670		BL41XU	X-ray Study of the Conformational Changes in the Molecule of Phosphopantetheine Adenylyltransferase from <i>Mycobacterium tuberculosis</i> during the Catalyzed Reaction
44450	Hyounsok Kim	69 (2013) 420-431	理研	BL26B1	Structural Basis for the Inhibition of <i>Mycobacterium tuberculosis</i> LD-transpeptidase by Meropenem, a Drug Effective against Extensively Drug-resistant Strains
44559	Hideshi Yokoyama	69 (2013) 504-512		BL41XU	Structure of a Double-stranded DNA (6-4) Photoproduct in Complex with the 64M-5 Antibody Fab
44654	Ang Gao	69 (2013) 82-91		BL44XU	High-resolution Structures of AidH Complexes Provide Insights into a Novel Catalytic Mechanism for <i>N</i> -acyl Homoserine Lactonase
44660	Amal Casañas	69 (2013) 1054-1061		BL44XU	New Features of Vault Architecture and Dynamics Revealed by Novel Refinement using the Deformable Elastic Network Approach

The Journal of Biological Chemistry

44378	Kensuke Nakamura	287 (2012) 25478-25489		BL41XU	Structural Basis for Membrane Binding Specificity of the Bin/Amphiphysin/Rvs (BAR) Domain of Arfaptin-2 Determined by Arl1 GTPase
44470	Yoko Chiba	288 (2013) 11448-11458		BL32XU	Structural Units Important for Activity of a Novel-type Phosphoserine Phosphatase from <i>Hydrogenobacter thermophilus</i> TK-6 Revealed by Crystal Structure Analysis
44520	Mayuko Sakuma	288 (2013) 17451-17459		BL41XU	X-ray Structure Analysis and Characterization of AFUEI, an Elastase Inhibitor from <i>Aspergillus fumigatus</i>
				BL32XU	

PLoS One

44476	Tomonobu M. Watanabe	8 (2013) e73212		BL38B1	Glycine Insertion Makes Yellow Fluorescent Protein Sensitive to Hydrostatic Pressure
44653	Kentaro Kumoi	8 (2013) e60294		BL44XU	An Archaeal Homolog of Proteasome Assembly Factor Functions as a Proteasome Activator
44661	Jiro Kikuchi	8 (2013) e60649		BL44XU	Homopiperazine Derivatives as a Novel Class of Proteasome Inhibitors with a Unique Mode of Proteasome Binding

ACS Chemical Biology

44472	Mitsuyasu Kawaguchi	8 (2013) 1713-1721		BL32XU	Screening and X-ray Crystal Structure-based Optimization of Autotaxin (ENPP2) Inhibitors, Using a Newly Developed Fluorescence Probe
				BL41XU	
44642	Atsushi Minami	9 (2014) 562-569		BL41XU	Allosteric Regulation of Epoxide Opening Cascades by a Pair of Epoxide Hydrolases in Monensin Biosynthesis

Acta Crystallographica Section F

44371	T. Petrova	68 (2012) 1440-1447		BL41XU	ATP-dependent DNA Ligase from <i>Thermococcus</i> sp. 1519 Displays a New Arrangement of the OB-fold Domain
44614	Aiko Fujino	69 (2013) 1344-1348		BL41XU	Structure of the β -form of Human MK2 in Complex with the Non-selective Kinase Inhibitor TEI-L03090

Cell Research

44377	Weijiao Huang	22 (2012) 473-489		BL41XU	Crystal Structure and Biochemical Analyses Reveal Beclin 1 as a Novel Membrane Binding Protein
44599	Qin Yu	23 (2013) 775-787		BL41XU	Structural Analyses of <i>Legionella</i> LepB Reveal a New GAP Fold that Catalytically Mimics Eukaryotic RasGAP

Nucleic Acids Research

44372	Akio Kawahara-Kobayashi	40 (2012) 10576-10584		BL41XU	Simplification of the Genetic Code: Restricted Diversity of Genetically Encoded Amino Acids
44485	Kayo Nozawa	41 (2013) 3901-3914		BL41XU	Crystal Structure of Cex1p Reveals the Mechanism of tRNA Trafficking between Nucleus and Cytoplasm

Biochemical Journal

44529	Vladimir V. Rogov	454 (2013) 459-466		BL41XU	Structural Basis for Phosphorylation-triggered Autophagic Clearance of <i>Salmonella</i>
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Biochemistry

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
44689	Seiji Ishii	52 (2013) 2545-2555		BL44XU	Boundary of the Nucleotide-Binding Domain of <i>Streptococcus</i> ComA Based on Functional and Structural Analysis

Biochemistry (Moscow)

44508	Vladimir Timofeev	78 (2013) 252-259		BL41XU	Three-dimensional Structure of Carboxypeptidase T from <i>Thermoactinomyces vulgaris</i> in Complex with N-BOC-L-leucine
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BMB Reports

44356	Seong-Hun Park	45 (2012) 239-241		BL41XU	<i>Bacillus subtilis</i> HmoB is a Heme Oxygenase with a Novel Structure
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Cell Reports

44641	Tian Xie	5 (2013) 70-78		BL41XU	Structural Insights into RIP3-Mediated Necroptotic Signaling
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EMBO Reports

44432	Hirokazu Yagi	13 (2012) 462-468		BL44XU	A Non-canonical UBA-Ubl Interaction Forms the Linear-Ubiquitin-Chain Assembly Complex
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The FEBS Journal

44374	Tamara Tikhonova	279 (2012) 4052-4061		BL41XU	Comparative Structural and Functional Analysis of Two Octaheme Nitrite Reductases from Closely Related <i>Thioalkalivibrio</i> Species
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FEBS Letters

44456	Yuri Uemura	587 (2013) 2669-2674		BL26B2	Crystal Structure of the Ligand-binding form of NanoRNase from <i>Bacteroides fragilis</i> , a Member of the DHH/DHHA1 Phosphoesterase Family of Proteins
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Genes and Development

44590	Weijiao Huang	27 (2013) 2039-2048		BL41XU	Mechanistic Insights into CED-4-mediated Activation of CED-3
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Immunity

44602	Jana K. Eckert	39 (2013) 647-660		BL41XU	The Crystal Structure of Lipopolysaccharide Binding Protein Reveals the Location of a Frequent Mutation that Impairs Innate Immunity
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Journal of Molecular Biology

44481	Setsu Nakae	425 (2013) 4468-4478		BL38B1	Structure of Novel Enzyme in Mannan Biodegradation Process 4-O-β-D-Mannosyl-D-Glucose Phosphorylase MGP
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Journal of Synchrotron Radiation

44616	Zuoqi Gai	20 (2013) 854-858		BL41XU	Crystal Structure Analysis, Overexpression and Refolding Behaviour of a DING Protein with Single Mutation
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Journal of Virology

44486	Yuichi Yagita	87 (2013) 2253-2263		BL41XU	Distinct HIV-1 Escape Patterns Selected by Cytotoxic T Cells with Identical Epitope Specificity
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Molecular Pharmacology

44528	Vipul Gupta	84 (2013) 824-833		BL41XU	Salicylic Acid Induces Mitochondrial Injury by Inhibiting Ferrochelatase Heme Biosynthesis Activity
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Nature Structural and Molecular Biology

44451	Frank Bürmann	20 (2013) 371-379		BL41XU	An Asymmetric SMC-kleisin Bridge in Prokaryotic Condensin
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Scientific Reports

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
44646	Sun-Yong Kim	3 (2013) 3294		BL41XU	Structure of the RecQ C-terminal Domain of Human Bloom Syndrome Protein

PLoS Biology

44601	Jinzhong Lin	11 (2013) e1001669		BL41XU	An RNA-Binding Complex Involved in Ribosome Biogenesis Contains a Protein with Homology to tRNA CCA-Adding Enzyme
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Proceedings of the National Academy of Sciences of the United States of America

44475	Atsushi Furukawa	110 (2013) 17438-17443		BL32XU	Structural Analysis for Glycolipid Recognition by the C-type Lectins Mincle and MCL
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Protein & Cell

44606	Yao Sun	4 (2013) 782-792		BL41XU	An Open Conformation Determined by a Structural Switch for 2A Protease from Coxsackievirus A16
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Protein Engineering Design and Selection

44471	F. Mimoto	26 (2013) 589-598		BL32XU	Engineered Antibody Fc Variant with Selectively Enhanced FcγRIIb Binding over both FcγRIIa ^{R131} and FcγRIIa ^{H131}
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Structure

44460	Katsuhiko Kamada	21 (2013) 581-594		BL26B2	Molecular Basis of SMC ATPase Activation: Role of Internal Structural Changes of the Regulatory Subcomplex ScpAB
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