

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、2021 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 2021 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
Physical Review B	10	Structure	6
Scientific Reports	10	Angewandte Chemie International Edition	5
Chemistry Letters	7	IOP Conference Series: Materials Science and Engineering	5
Inorganic Chemistry	7		
Nature Communications	7	ISIJ International	5
Chemical Communications	6	Journal of Molecular Biology	5
Electrochemistry	6	Journal of the American Chemical Society	5
Japanese Journal of Applied Physics	6	Journal of the Physical Society of Japan	5

他全 190 誌、計 351 報

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

課題の成果として登録された論文

Scientific Reports

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
41578	Yasutaka Tsuda	11 (2021) 3906	2019A3831	BL23SU	岡田 美智雄	Interface Atom Mobility and Charge Transfer Effects on CuO and Cu ₂ O Formation on Cu ₃ Pd(111) and Cu ₃ Pt(111)
			2018B3831	BL23SU	岡田 美智雄	
			2018A3831	BL23SU	岡田 美智雄	
			2019B3801	BL23SU	吉越 章隆	
			2019A3801	BL23SU	吉越 章隆	
			2018B3801	BL23SU	吉越 章隆	
			2018A3801	BL23SU	吉越 章隆	
			2017B3801	BL23SU	吉越 章隆	
41682	Masahiro Kuramochi	11 (2021) 4097	2018B1451	BL39XU	佐々木 裕次	Tilting and Rotational Motions of Silver Halide Crystal with Diffracted X-ray Blinking
			2018A1417	BL39XU	佐々木 裕次	
41759	Hiroshi Kobayashi	10 (2020) 13850	2018B1207	BL20XU	高谷 光	Separation of Saccharides using Fullerene-Bonded Silica Monolithic Columns via π Interactions in Liquid Chromatography
			2018B0938	BL47XU	若林 裕助	
			2018B1836	BL14B2	高谷 光	
			2018B0938	BL43IR	若林 裕助	
41814	Tomohito Tsuru	10 (2020) 1998	2015A0076	BL20XU	戸田 裕之	Hydrogen-accelerated Spontaneous Microcracking in High-strength Aluminium Alloys
41857	Taiki Hoshino	11 (2021) 9767	2019B7260	BL03XU	山本 渥史	Heterogeneous Dynamics in the Curing Process of Epoxy Resins
			2020A7209	BL03XU	山本 渥史	
41876	Shu Fujita	11 (2021) 10673	2019B1560	BL01B1	満留 敬人	A Nickel Phosphide Nanocatalyst for the C-3 Alkylation of Oxindoles with Alcohols
			2020A1487	BL01B1	満留 敬人	
			2020A1640	BL14B2	水垣 共雄	
41905	Akihiro Nakamura	11 (2021) 7929	2013A6822	BL44XU	阪本 泰光	Structural Basis for an Exceptionally Strong Preference for Asparagine Residue at the S2 Subsite of <i>Stenotrophomonas maltophilia</i> Dipeptidyl Peptidase 7
			2014A6924	BL44XU	阪本 泰光	
			2014B6924	BL44XU	阪本 泰光	
			2015A6521	BL44XU	阪本 泰光	
			2015B6521	BL44XU	阪本 泰光	
			2016B6620	BL44XU	阪本 泰光	
			2017A6721	BL44XU	阪本 泰光	
			2017B6721	BL44XU	阪本 泰光	
			2018A6818	BL44XU	阪本 泰光	
			2018B6818	BL44XU	阪本 泰光	
			2019A6917	BL44XU	阪本 泰光	
41934	Weiduo Hao	10 (2020) 10417	2018A0148	BL01B1	高橋 嘉夫	Clay Minerals as a Source of Cadmium to Estuaries
			2018A0148	BL37XU	高橋 嘉夫	
41940	Hikaru Miura	10 (2020) 11421	2019A1523	BL37XU	高橋 嘉夫	Characterization of Two Types of Cesium-bearing Microparticles Emitted from the Fukushima Accident via Multiple Synchrotron Radiation Analyses
			2018A0148	BL01B1	高橋 嘉夫	
			2018A0148	BL37XU	高橋 嘉夫	
			2019B1498	BL01B1	高橋 嘉夫	
41980	Linda C. P. Croton	8 (2018) 11412	2012B0047	BL20B2	Hooper Stuart	<i>In situ</i> Phase Contrast X-ray Brain CT
			2016A0132	BL20B2	Hooper Stuart	

Physical Review B-1

41679	Nozomu Hiraoka	101 (2020) 165124	2012A4253	BL12XU	平岡 望	Direct Observation of the Momentum Distribution and Renormalization Factor in Lithium
			2018A4266	BL12XU	平岡 望	
			2018B4262	BL12XU	平岡 望	
			2019A4256	BL12XU	平岡 望	
			2020A4251	BL12XU	平岡 望	
			2011B4250	BL12XU	平岡 望	
41680	Yubo Yang	101 (2020) 165125	2012A4254	BL12XU	平岡 望	Quantum Monte Carlo Compton Profiles of Solid and Liquid Lithium
			2020A4251	BL12XU	平岡 望	
41741	Maki Hamada	103 (2021) 174108	2013B3517	BL11XU	大谷 栄治	Synchrotron Mössbauer Spectroscopic and X-ray Diffraction Study of Ferropentacarbonyl in the High-Pressure Range of the Lower Mantle Region
			2013B0104	BL10XU	大谷 栄治	

Physical Review B-2

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
41815	Hiroshi Takatsu	95 (2017) 155105	2014B1360	BL02B2	陰山 洋	Cubic Lead Perovskite PbMoO ₃ with Anomalous Metallic Behavior
41820	Shunsuke Kitou	103 (2021) 184112	2019A0070	BL02B1	澤 博	Complex Changes in Structural Parameters Hidden in the Universal Phase Diagram of the Quasi-One-Dimensional Organic Conductors (TMTTF) ₂ X (X = NbF ₆ , AsF ₆ , PF ₆ , and Br)
41888	Takashi Naka	103 (2021) 224408	2018A4507	BL15XU	名嘉 節	Cluster Glass Transition and Relaxation in the Random Spinel CoGa ₂ O ₄
			2016B4505	BL15XU	名嘉 節	
			2015B4505	BL15XU	名嘉 節	
41920	Takao Mizutani	103 (2021) 205113	2019B5060	BL16XU	吉木 昌彦	Total Reflection Hard X-ray Photoelectron Spectroscopy: Applications to Strongly Correlated Electron Systems
			2019B1033	BL47XU	田口 宗孝	
41990	Naoki Ishimatsu	103 (2021) L220102	2017B1304	BL39XU	石松 直樹	Elongation of Fe-Fe Atomic Pairs in the Invar Alloy Fe ₆₅ Ni ₃₅
			2017B1974	BL39XU	河村 直己	
			2018B1355	BL39XU	石松 直樹	
			2019A1530	BL39XU	石松 直樹	

Chemistry Letters

41525	Toshiki Terao	50 (2021) 920-923	2019A1173	BL40B2	平井 智康	Hairy Particles Synthesized by Living Anionic Polymerization-Induced Self-Assembly and Evaluation of Their Nanostructure
			2019B1179	BL40B2	平井 智康	
			2020A1135	BL40B2	平井 智康	
			2020A0627	BL40B2	平井 智康	
41600	Iwao Matsuda	50 (2021) 1336-1344	2019B8059	BL1	山本 航平	Recent Progress in Spectroscopies using Soft X-ray Free-Electron Lasers
			2018A8052	BL1	久保田 雄也	
			2018A8051	BL1	松田 巖	
			2018A8040	BL3	井上 伊知郎	
			2017B8074	BL1	小飼 真人	
			2017B8067	BL3	松田 巖	
			2017B8048	BL3	Chergui Majed	
			2016B8078	BL1	松田 巖	
41689	Hirofumi Asakura	50 (2021) 1075-1085	2018A1199	BL09XU	朝倉 博行	Recent Applications of X-ray Absorption Spectroscopy in Combination with High Energy Resolution Fluorescence Detection
			2015B1260	BL39XU	朝倉 博行	
			2016A1159	BL39XU	朝倉 博行	
41861	Mayuko Fujitsuka	50 (2021) 1142-1145	2020A1307	BL40B2	櫻木 美菜	Supramolecular Control of Spin Equilibrium and Oxidation State in Nanohybrids of Amphiphilic Glycyrhethinic Acid Derivatives with [Fe(TACN) ₂] ²⁺
41908	Yoshinobu Kamakura	50 (2021) 1053-1056	2020A0554	BL02B1	田中 大輔	Thiolate-based One-dimensional Flexible Pb-MOFs Exhibiting a Large Sorption Hysteresis Phenomenon
			2020A1350	BL02B1	田中 大輔	
41939	Makoto Nagasawa	49 (2020) 909-911	2019A1523	BL37XU	高橋 嘉夫	Local Structure of Rare Earth Elements (REE) in Marine Ferromanganese Oxides by Extended X-ray Absorption Fine Structure and Its Comparison with REE in Ion-adsorption Type Deposits
			2020A0174	BL01B1	高橋 嘉夫	
41941	Rimi Konagaya	(2021) Online published May 15, 2021	2020A0772	BL39XU	高橋 嘉夫	High-Sensitive Analysis of Fluorescence XANES at Europium (Eu) L _{III} -edge for the Determination of Oxidation State for Trace Amount of Eu in Natural Samples by Bragg-type Crystal Analyzer System
			2020A2049	BL39XU	河村 直己	
			2020A2140	BL39XU	河村 直己	

Inorganic Chemistry-1

41647	Alexei Belik	60 (2021) 4957-4965	2018B4502	BL15XU	Belik Alexei	Solid Solutions between PbVO ₃ and BiCoO ₃
41672	Zhenhong Tan	60 (2021) 1257-1263	2020A1137	BL02B2	後藤 真人	Layered Hexagonal Perovskite Oxides 21R Ba ₇ Fe ₅ Ge ₂ O ₂₀ and 12H Ba ₆ Fe ₃ Ge ₃ O ₁₇
			2020A1671	BL02B2	Koedtrud Anucha	
41725	Kenta Sasaki	60 (2021) 6140-6146	2019B1798	BL02B1	芳野 遼	Guest-tunable Excited States in a Cyanide-Bridged Luminescent Coordination Polymer
			2020A0832	BL02B1	芳野 遼	
41735	Yuichi Okazaki	60 (2021) 7023-7030	2019B1420	BL02B2	山田 幾也	Metamagnetic Behavior in a Quadruple Perovskite Oxide
			2019B1830	BL02B2	八木 俊介	
			2020A1735	BL14B2	山田 幾也	
41890	Keisuke Wada	59 (2020) 10604-10610	2019B1010	BL05XU	佐々木 園	Tailoring the Electrochemical Properties of Two-Dimensional Bis(diamino)metal Coordination Frameworks by Introducing Co/Ni Heterometallic Structures

Inorganic Chemistry-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
41903	Kohdai Ishida	60 (2021) 8252-8258	2020A1686	BL02B2	石田 耕大	Spin Frustration in Double Perovskite Oxides and Oxyntitrides: Enhanced Frustration in $\text{La}_2\text{MnTaO}_5\text{N}$ with a Large Octahedral Rotation
			2015B1110	BL02B2	陰山 洋	
			2015B1111	BL02B2	山本 隆文	
			2015B1472	BL02B2	陰山 洋	
41906	Fumito Toda	60 (2021) 7680-7686	2019B1420	BL02B2	山田 幾也	High-Pressure Synthesis and Magnetic States of Magnetoplumbite Cobaltates $\text{CaCo}_{12}\text{O}_{19}$ and $\text{BaCo}_{12}\text{O}_{19}$
			2020A0583	BL02B2	山田 幾也	

Nature Communications

41534	Dongshuang Wu	12 (2021) 1145	2016B4910	BL15XU	草田 康平	Efficient overall Water Splitting in Acid with Anisotropic Metal Nanosheets
			2018A1215	BL02B2	北川 宏	
			2018A1427	BL01B1	北川 宏	
			2018B1353	BL01B1	北川 宏	
			2019A1123	BL01B1	北川 宏	
			2017A4910	BL15XU	草田 康平	
41540	Binglun Yin	11 (2020) 2507	2019A1783	BL46XU	辻 伸泰	Yield Strength and Misfit Volumes of NiCoCr and Implications for Short-range-order
			2019A1623	BL46XU	朴 明駿	
41592	Yuki Nakaya	11 (2020) 2838	2019B1620	BL01B1	古川 森也	Single-atom Pt in Intermetallics as an Ultrastable and Selective Catalyst for Propane Dehydrogenation
			2019B1469	BL01B1	山添 誠司	
41668	Hiroyuki Yamase	12 (2021) 2223	2012B1198	BL08W	山瀬 博之	Fermi Surface in La-based Cuprate Superconductors from Compton Scattering Imaging
41698	Gabriel Rigon	12 (2021) 2679	2019A8037	BL3	Koenig Michel	Micron-scale Phenomena Observed in a Turbulent Laser-Produced Plasma
41891	Shoh Tagawa	12 (2021) 2588	2017A0072	BL10XU	廣瀬 敬	Experimental Evidence for Hydrogen Incorporation into Earth's Core
42009	Yusuke Higuchi	12 (2021) 3802	2020A6500	BL44XU	山下 栄樹	Engineered ACE2 Receptor Therapy Overcomes Mutational Escape of SARS-CoV-2

Chemical Communications

41581	Mohana Shivanna	56 (2020) 9632-9635	2019A1600	BL02B1	北川 進	Control of Local Flexibility towards <i>p</i> -xylene Sieving in Hofmann-type Porous Coordination Polymers
			2019B1554	BL02B1	北川 進	
			2020A1469	BL02B2	北川 進	
41594	Tomoaki Takayama	57 (2021) 4239-4242	2018B1228	BL01B1	高山 大鑑	Hydrosilylation of Carbonyls over Electron-Enriched Ni Sites of Intermetallic Compound Ni_3Ga Heterogeneous Catalyst
			2018A1507	BL01B1	高山 大鑑	
41597	Kanju Mitamura	57 (2021) 3749-3752	2019B1820	BL14B2	山口 和也	Heterogeneously Ni-Pd Nanoparticle-Catalyzed Base-Free Formal C-S Bond Metathesis of Thiols
41671	Ryohei Yamakado	57 (2021) 4287-4290	2017A1248	BL40B2	山門 陵平	Photoisomerization-induced Patterning of Ion-pairing Materials Based on Anionic Azobenzene and its Complex with a Fluorescent π -electronic System
			2017A1305	BL40B2	前田 大光	
			2017B1302	BL40XU	山門 陵平	
			2018A1436	BL40B2	前田 大光	
			2018A1437	BL40B2	平田 剛輝	
			2018A1679	BL40B2	笹野 力史	
41784	Haq Nawaz	56 (2020) 10373-10376	2019A1084	BL02B2	竹入 史隆	Synthesis and H^+ Conductivity of a New Oxyhydride Ba_2YHO_3 with Anion-Ordered Rock-Salt Layers
			2018B1099	BL02B2	竹入 史隆	
41978	Yosuke Fukuda	57 (2021) 5386-5389	2020A0603	BL02B1	吉成 信人	Transformations of Empty Cu_4 Core to $\text{Cu}_2\text{Cu}^{12}\text{O}$ and Cu_6S Cores via Oxide and Sulfide Insertions
			2020A1213	BL02B1	吉成 信人	

Electrochemistry-1

41749	Yoichiro Tsuji	88 (2020) 560-565	2019A1468	BL37XU	雨澤 浩史	Investigation of Cathodic Reaction Mechanism in Solid Oxide Fuel Cells by <i>Operando</i> X-Ray Absorption Spectroscopy
			2018A1370	BL37XU	雨澤 浩史	
			2018A1375	BL37XU	雨澤 浩史	
			2018B1383	BL37XU	雨澤 浩史	
41771	Kazuto Koganei	89 (2021) 239-243	2016A7601	BL28XU	小久見 善八	Improvement of Electrochemical Property of VS_4 Electrode Material by Amorphization via Mechanical Milling Process
			2016B7606	BL28XU	松原 英一郎	
			2017A7606	BL28XU	松原 英一郎	
			2017B7606	BL28XU	松原 英一郎	
			2018A7606	BL28XU	松原 英一郎	
41772	Yuki Umemura	89 (2021) 273-278	2018A7606	BL28XU	松原 英一郎	Improvement of Cycle Capability of VS_4 by Addition of Phosphorus Element
			2018B7606	BL28XU	松原 英一郎	
			2019A7615	BL28XU	安部 武志	
			2019B7615	BL28XU	安部 武志	

Electrochemistry-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
41967	Naoya Ishida	89 (2021) 329-333	2016A1509	BL19B2	井手本 康	Revisiting Delithiated $\text{Li}_{1.2}\text{Mn}_{0.54}\text{Ni}_{0.13}\text{Co}_{0.13}\text{O}_2$: Structural Analysis and Cathode Properties in Magnesium Rechargeable Battery Applications
			2017A1578	BL19B2	井手本 康	
			2017B1807	BL19B2	井手本 康	
			2016B1852	BL14B2	井手本 康	
			2017A1573	BL14B2	井手本 康	
			2017B1590	BL14B2	井手本 康	
41968	Chiaki Ishibashi	89 (2021) 256-266	2015B1280	BL04B2	井手本 康	Theoretical Study Using First-Principles Calculations of the Electronic Structures of Magnesium Secondary Battery Cathode Materials $\text{MgCo}_{2-x}\text{Mn}_x\text{O}_4$ ($x = 0, 0.5$) in the Pristine and Discharged States
			2017B1590	BL14B2	井手本 康	
			2018A1577	BL14B2	井手本 康	
			2018B1596	BL14B2	井手本 康	
			2019A1626	BL14B2	井手本 康	
41969	Noriko Kasai	89 (2021) 148-156	2019B1714	BL14B2	井手本 康	Effect of Separator and Anode on Electrochemical Characteristics and Crystal Structure of Lithium-ion Battery Cathode Material $0.4\text{Li}_2\text{MnO}_3\cdot0.6\text{LiMn}_{1/3}\text{Ni}_{1/3}\text{Co}_{1/3}\text{O}_2$
			2018B1777	BL19B2	井手本 康	
			2019A1760	BL19B2	井手本 康	
			2019B1882	BL19B2	井手本 康	
			2020A1728	BL19B2	井手本 康	
			2018B1596	BL14B2	井手本 康	
			2019A1626	BL14B2	井手本 康	
			2019B1714	BL14B2	井手本 康	

Angewandte Chemie International Edition

41574	Liqun Kang	60 (2021) 14420-14428	2019A1533	BL01B1	Wang Feng Ryan	The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuO-CeO_2 Catalysts
41579	Yifan Gu	60 (2021) 11688-11694	2019B1296	BL02B2	北川 進	Host-guest Interaction Modulation in Porous Coordination Polymers for Inverse Selective $\text{CO}_2/\text{C}_2\text{H}_2$ Separation
			2019A1136	BL02B2	北川 進	
			2020A1412	BL02B1	北川 進	
			2020A0617	BL02B1	北川 進	
41580	Yifan Gu	59 (2020) 15517-15521	2019B1296	BL02B2	北川 進	Structural-Deformation-Energy-Modulation Strategy in a Soft Porous Coordination Polymer with an Interpenetrated Framework
			2019A1136	BL02B2	北川 進	
41659	Hanna Kwon	60 (2021) 14578-14585	2018A8009	BL2	吾郷 日出夫	XFEL Crystal Structures of Peroxidase Compound II
			2019B8009	BL2	當舎 武彦	
			2020A8030	BL2	當舎 武彦	
41818	Hajime Gotoh	60 (2021) 12835-12840	2018A1114	BL40XU	畠山 琢次	Syntheses and Physical Properties of Cationic BN-Embedded Polycyclic Aromatic Hydrocarbons
			2018B1125	BL40XU	畠山 琢次	
			2019A1142	BL40XU	畠山 琢次	
			2019B1063	BL40XU	畠山 琢次	
			2019B1638	BL02B1	羽毛田 洋平	
			2020A1066	BL02B1	畠山 琢次	

IOP Conference Series: Materials Science and Engineering

41539	Shuhei Yoshida	580 (2019) 012053	2018A1031	BL46XU	辻 伸泰	Deformation Microstructures and Strength of Face-centered Cubic High/Medium Entropy Alloys
			2018B1038	BL46XU	辻 伸泰	
			2018B1760	BL46XU	辻 伸泰	
			2019A1783	BL46XU	辻 伸泰	
41541	M. Teimouri	895 (2020) 012002	2018A1031	BL46XU	辻 伸泰	Deformation Behavior Study in a Model Dual Phase System of Copper-Martensitic Steel using in-situ Synchrotron X-ray Diffraction
			2018B1038	BL46XU	辻 伸泰	
			2018B1760	BL46XU	辻 伸泰	
			2019A1783	BL46XU	辻 伸泰	
			2019B1030	BL46XU	辻 伸泰	
41586	Masahiro Hirata	1121 (2021) 012043	2017A1006	BL46XU	足立 大樹	Using Synchrotron Radiation XRD Technique to Investigate Active Slip Systems during Tensile Deformation in Pure Magnesium
			2018A1029	BL19B2	足立 大樹	
41587	Tomoki Yoshikawa	1121 (2021) 012044	2017A1006	BL46XU	足立 大樹	Evaluation of Active Slip Systems during Deformation by Insitu XRD in Precipitation Hardening Mg Alloys
			2018A1029	BL19B2	足立 大樹	
41812	Masakazu Kobayashi	89 (2015) 012030	2013B1537	BL19B2	三原 諭	Non-destructive and Three-dimensional Measurement of Local Strain Development during Tensile Deformation in an Aluminium Alloy
			2013B1027	BL20XU	戸田 裕之	
			2014B1192	BL04B2	末國 晃一郎	

ISIJ International-1

41633	Hayato Nishimura	61 (2021) 1170-1178	2017B3681	BL14B1	秋山 英二	Effects of Residual Stress on Hydrogen Embrittlement of a Stretch-Formed Tempered Martensitic Steel Sheet
			2018A3681	BL14B1	秋山 英二	
			2019B3681	BL14B1	北條 智彦	

ISIJ International-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
41634	Yuki Shibayama	61 (2021) 1322-1329	2017B3681	BL14B1	秋山 英二	Effects of Stress and Plastic Strain on Hydrogen Embrittlement Fracture of a U-bent Martensitic Steel Sheet
			2019A3681	BL14B1	北條 智彦	
			2019B3681	BL14B1	北條 智彦	
41813	Takanobu Adachi	60 (2020) 764-773	2015A1847	BL19B2	鳥塚 史郎	Effect of Prior Structure to Intercritical Annealing on Rapid Formation of Ultrafine Ferrite + Austenite Structure and Mechanical Properties in 0.1%C-2%Si-5%Mn Steels
			2016A4902	BL15XU	鳥塚 史郎	
			2016A1033	BL46XU	鳥塚 史郎	
			2016B4905	BL15XU	鳥塚 史郎	
			2017A4904	BL15XU	鳥塚 史郎	
			2017A1706	BL19B2	鳥塚 史郎	
			2017B4909	BL15XU	鳥塚 史郎	
			2017B1933	BL19B2	鳥塚 史郎	
41966	Tomohiro Nishimura	61 (2021) 1872-1878	2019A1654	BL20XU	西村 友宏	Time-resolved and <i>In-situ</i> Observation of Solidification in TiAl Alloys
			2019B1687	BL20XU	西村 友宏	
41976	Yusuke Kobayashi	61 (2021) 1879-1888	2017B1581	BL20B2	小林 祐介	A Modified Random Sampling Method Using Unidirectionally Solidified Specimen: Solute Partition Coefficients in Fe-Cr-Ni-Mo-Cu Alloys
			2018A1586	BL20B2	小林 祐介	

Japanese Journal of Applied Physics

41638	Noritake Isomura	60 (2021) 050902	2020A5071	BL16XU	高橋 直子	Dependence of the Interfacial Atomic Structure of SiO ₂ /GaN upon SiO ₂ Deposition Methods and Post-deposition Annealing, as Revealed by X-ray Absorption Spectroscopy
			2020A5371	BL16B2	磯村 典武	
41663	Hitoshi Takane	60 (2021) 055501	2020A3059	BL24XU	太田 優一	Initial Nucleation Scheme of Ga ₂ O ₃ on (0001) Sapphire by Mist CVD for the Growth of α -phase
41742	Ryo Nakamura	60 (2021) SBBC01	2018A1317	BL17SU	山口 明啓	Direct Observation of a Magnetic Domain Change in Ni Wire and Film on a LiNbO ₃ Substrate using X-ray Magnetic Circular Dichroic Photoemission Electron Microscopy
			2019A1404	BL17SU	山口 明啓	
			2019B1342	BL17SU	山口 明啓	
41885	Qing Zhao	59 (2020) 095505	2015A0074	BL02B2	森吉 千佳子	Charge Order of Bismuth Ions and Nature of Chemical Bonds in Double Perovskite-type Oxide BaBiO ₃ Visualized by Synchrotron Radiation X-ray Diffraction
			2019A0068	BL02B2	森吉 千佳子	
42029	Kai Kouda	60 (2021) 071002	2019B1584	BL13XU	鹿田 真一	Forbidden X-ray Diffraction of Highly B Doped Diamond Substrate

Journal of the American Chemical Society

41529	Mikihiro Hayashi	141 (2019) 11686-11693	2017A1468	BL02B1	林 幹大	Role of d -Elements in a Proton-Electron Coupling of d - π Hybridized Electron Systems
41569	Kenta Kato	143 (2021) 5465-5469	2020A1286	BL40XU	瀬川 泰知	Double-Helix Supramolecular Nanofibers Assembled from Negatively Curved Nanographenes
41761	Benjamin Le Ouay	141 (2019) 14549-14553	2018B0938	BL47XU	若林 裕助	Controlling the Packing of Metal-Organic Layers by Inclusion of Polymer Guests
			2018B0938	BL43IR	若林 裕助	
			2018B0938	BL40XU	若林 裕助	
			2018B0938	BL37XU	若林 裕助	
41769	Yoshitaka Aoki	143 (2021) 6505-6515	2019A7614	BL28XU	安部 武志	<i>In Situ</i> Activation of a Manganese Perovskite Oxygen Reduction Catalyst in Concentrated Alkaline Media
			2018A7612	BL28XU	松原 英一郎	
41919	Yuya Domoto	143 (2021) 8578-8582	2020A0168	BL26B1	藤田 誠	A Highly Entangled (M ₃ L ₂) ₈ Truncated Cube from the Anion-Controlled Oligomerization of a π -Coordinated M ₃ L ₂ Subunit
			2020A2606	BL26B1	藤田 誠	
			2020A0168	BL41XU	藤田 誠	

Journal of the Physical Society of Japan-1

41527	Takaya Mitsui	89 (2020) 054707	2018A3551	BL11XU	三井 隆也	Simultaneous Measurement of γ -ray and Conversion Electron Mössbauer Spectra of Fe Films under Total Reflection Conditions Using Synchrotron Mössbauer Source
			2018A3552	BL11XU	三井 隆也	
			2018B3551	BL11XU	境 誠司	
			2018B3552	BL11XU	三井 隆也	
			2019A3551	BL11XU	境 誠司	
			2019A3552	BL11XU	三井 隆也	
41673	Hiroki Hanate	90 (2021) 063702	2018B1122	BL35XU	松平 和之	First Observation of Superlattice Reflections in the Hidden Order at 105 K of Spin-Orbit Coupled Iridium Oxide CaIr ₂ O ₁₂
			2019A1155	BL35XU	松平 和之	
			2020A1242	BL35XU	松平 和之	
41868	Satoshi Iguchi	90 (2021) 074701	2016A0073	BL43IR	佐々木 孝彦	Charge Ordering and π - d Interaction in Electron-Doped 3/4-Filling Molecular System α -(BEDT-TTF) ₂ Rb ₂ Co(SCN) ₄ ($x=0.6$)
41944	Shinji Michimura	90 (2021) 044703	2016A4802	BL15XU	佐藤 仁	Charge-Ordered State and Low-Dimensional Magnetic Fluctuations in Yb ₅ Ge ₄ Single Crystal
			2016A4906	BL15XU	三村 功次郎	

Journal of the Physical Society of Japan-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
41960	Kazuyuki Matsubayashi	90 (2021) 074706	2016A1166	BL43IR	岡村 英一	Hybridization-Gap Formation and Superconductivity in the Pressure-Induced Semimetallic Phase of the Excitonic Insulator Ta_2NiSe_5
			2015B1698	BL43IR	松本 光亮	
			2014B1751	BL43IR	松本 光亮	
			2014B1749	BL43IR	永田 信	
			2013A1085	BL43IR	溝川 貴司	
			2015A1528	BL02B1	澤 博	
			2016A3782	BL22XU	澤 博	

ACS Applied Materials & Interfaces

41602	Kazunori Nishio	13 (2021) 15746-15754	2018A1256 2018B1286	BL13XU BL13XU	清水 亮太 清水 亮太	Tuning the Schottky Barrier Height at the Interfaces of Metals and Mixed Conductors
41810	Jakob Bombsch	12 (2020) 34941-34948	2018A4908 2018B4909	BL15XU BL15XU	Wilks Regan Wilks Regan	NaF/RbF-Treated Cu(In,Ga)Se ₂ Thin-Film Solar Cell Absorbers: Distinct Surface Modifications Caused by Two Different Types of Rubidium Chemistry
41856	Shun Hayashi	13 (2021) 22332-22340	2020A0684	BL01B1	林 峻	High-Density Formation of Metal/Oxide Interfacial Catalytic Active Sites through Hybrid Clustering
41879	Kyoko Fujita	13 (2021) 24615-24623	2018A1015 2018B0938 2018B0938	BL01B1 BL01B1 BL14B2	田中 庸裕 若林 裕助 若林 裕助	Oxygen Release and Storage Property of Fe-Al Spinel Compounds: A Three-Way Catalytic Reaction over a Supported Rh Catalyst

Crystals

41542	Si Gao	10 (2020) 1115	2018A1031 2018B1038 2018B1760 2019A1783 2019B1030	BL46XU BL46XU BL46XU BL46XU BL46XU	辻 伸泰 辻 伸泰 辻 伸泰 辻 伸泰 辻 伸泰	Tensile Deformation of Ultrafine-Grained Fe-Mn-Al-Ni-C Alloy Studied by In Situ Synchrotron Radiation X-ray Diffraction
41575	Kei Maeda	11 (2021) 393	2020A1603	BL20XU	前田 敬	Mechanical Properties of CaO-Al ₂ O ₃ -SiO ₂ Glass-Ceramics Precipitating Hexagonal CaAl ₂ Si ₂ O ₈ Crystals
41782	Yoshihiko Kobayashi	11 (2021) 577	2018B1193 2011B1298 2012A1714 2013A1023 2014B1201 2015A1211 2017A1175 2016B1067 2021A1451	BL08W BL08W BL08W BL08W BL08W BL08W BL08W BL08W BL08W	小林 義彦 小林 義彦 伊藤 真義 小林 義彦 小林 義彦 小林 義彦 小林 義彦 小林 義彦 小林 義彦	Magnetic Compton Scattering on Sr-Doped LaCoO ₃
41930	Akane Agui	11 (2021) 650	2019A1322 2019A1324	BL08W BL37XU	安居院 あかね 安居院 あかね	Effect on Compton Scattering Spectra by Hermite-Gaussian Light

Earth and Planetary Science Letters

41894	Yoshiyuki Okuda	547 (2020) 116466	2017A0072	BL10XU	廣瀬 敬	Thermal Conductivity of Fe-bearing Post-perovskite in the Earth's Lowermost Mantle
41897	Yoshiyuki Okuda	520 (2019) 188-198	2017A0072	BL10XU	廣瀬 敬	Effect of Spin Transition of Iron on the Thermal Conductivity of (Fe, Al)-bearing Bridgmanite
41899	Izumi Mashino	515 (2019) 135-144	2017A0072	BL10XU	廣瀬 敬	Melting Experiments on the Fe-C Binary System up to 255 GPa: Constraints on the Carbon Content in the Earth's Core
41901	Ryosuke Sinmyo	510 (2019) 45-52	2017A0072	BL10XU	廣瀬 敬	Melting Curve of Iron to 290 GPa Determined in a Resistance-heated Diamond-anvil Cell

The Journal of Physical Chemistry C

41591	Tomoki Matsuyama	125 (2021) 3143-3149	2016B0908 2016B0908	BL39XU BL01B1	若林 裕助 若林 裕助	Effect of Ligand on the Electronic State of Gold in Ligand-Protected Gold Clusters Elucidated by X-ray Absorption Spectroscopy
41593	Shun Hayashi	124 (2020) 10975-10980	2016B0908	BL01B1	若林 裕助	Base Catalytic Activity of [Nb ₁₀ O ₂₈] ⁶⁻ : Effect of Counteranions
41661	Yohei Uemura	125 (2021) 7329-7336	2018A8049	BL3	De Groot Frank	Femtosecond Charge Density Modulations in Photoexcited CuWO ₄
42012	L. S. Kumara	125 (2021) 13619-13628	2014A1321 2014B1239 2014B1102	BL01B1 BL13XU BL04B2	坂田 修身 小原 真司 坂田 修身	Local Structure Properties of Hydrogenated and Nonhydrogenated Amorphous In-Ga-Zn-O Thin Films Using XAFS and High-Energy XRD

ACS Catalysis

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
41765	Yuki Kanazawa	10 (2020) 5909-5919	2018B1836	BL14B2	高谷 光	Pd/Cu-Catalyzed Dehydrogenative Coupling of Dimethyl Phthalate: Synchrotron Radiation Sheds Light on the Cu Cycle Mechanism
			2018B1583	BL14B2	高谷 光	
			2018B0938	BL47XU	若林 裕助	
			2018B0938	BL43IR	若林 裕助	
41798	Shixiang Feng	10 (2020) 6071-6083	2017B1245	BL01B1	穴戸 哲也	Experimental and Theoretical Investigation of the Role of Bismuth in Promoting the Selective Oxidation of Glycerol over Supported Pt-Bi Catalyst under Mild Conditions
			2017B1326	BL27SU	三浦 大樹	
41974	Hiroki Miura	11 (2021) 758-766	2019A1131	BL01B1	三浦 大樹	Practical Synthesis of Allyl, Allenyl, and Benzyl Boronates through S_N1 -Type Borylation under Heterogeneous Gold Catalysis

Applied Physics Letters

41623	Kosuke Suzuki	118 (2021) 161902	2019B1818	BL08W	Barbiellini Bernardo	Redox Oscillations in 18650-type Lithium-ion Cell Revealed by <i>in operando</i> Compton Scattering Imaging
			2019A1721	BL08W	Barbiellini Bernardo	
41884	Tomohiro Abe	117 (2020) 252905	2015A0074	BL02B2	森吉 千佳子	Visualization of Spontaneous Electronic Polarization in Pb Ion of Ferroelectric PbTiO ₃ by Synchrotron-radiation X-ray Diffraction
42013	Tetsuo Narita	118 (2021) 253501	2018B5370	BL16B2	山口 聡	Increase of Reverse Leakage Current at Homoepitaxial GaN p-n Junctions Induced by Continuous forward Current Stress
			2019A5370	BL16B2	山口 聡	
			2019B5370	BL16B2	山口 聡	
			2020A5370	BL16B2	山口 聡	
			2019B1042	BL20B2	兼近 将一	
			2020A1039	BL20B2	兼近 将一	

Chemistry - A European Journal

41746	Nozomi Mihara	25 (2019) 3369-3375	2018B1836	BL14B2	高谷 光	Site-Selective Supramolecular Complexation Activates Catalytic Ethane Oxidation by a Nitrido-Bridged Iron Porphyrinoid Dimer
			2018A1553	BL14B2	高谷 光	
			2018A1173	BL40XU	高谷 光	
41758	Seiya Kondo	25 (2019) 16201-16206	2018B0938	BL47XU	若林 裕助	Amphoteric Homotropic Allosteric Association between a Hexakis-Urea Receptor and Dihydrogen Phosphate
			2018B0938	BL43IR	若林 裕助	
			2018A1173	BL40XU	高谷 光	
41977	Masashi Uno	27 (2021) 8358-8364	2017A1037	BL02B1	今野 巧	Racemic Tartrate/Malate Anions Combine with Racemic Complex Cations to Form Optically Active Ionic Crystals

JACS Au

41524	Kei Manabe	1 (2021) 375-379	2019B1179	BL40B2	平井 智康	Chiral Silica with Preferred-Handed Helical Structure via Chiral Transfer
			2020A0627	BL40B2	平井 智康	
			2020A0774	BL40XU	平井 智康	
			2020A1135	BL40B2	平井 智康	
41786	Shingo Hasegawa	1 (2021) 660-668	2020A0672	BL01B1	増田 晋也	New Magic Au ₂₄ Cluster Stabilized by PVP: Selective Formation, Atomic Structure, and Oxidation Catalysis
41877	Min Sheng	1 (2021) 501-507	2020A1487	BL01B1	満留 敬人	Single-Crystal Cobalt Phosphide Nanorods as a High-Performance Catalyst for Reductive Amination of Carbonyl Compounds
			2019B1560	BL01B1	満留 敬人	
			2019A1649	BL14B2	水垣 共雄	
			2019A1390	BL01B1	満留 敬人	

Journal of Alloys and Compounds

41552	Akhil Tayal	869 (2021) 159268	2019A4905	BL15XU	草田 康平	Investigation of Microstructure and Hydrogen Absorption Properties of Bulk Immiscible AgRh Alloy Nanoparticles
41632	Keiji Itoh	732 (2018) 585-592	2007B1111	BL04B2	伊藤 恵司	Inhomogeneity of Local Packing Density and Atomic Bonding of Ni ₆₇ Zr ₃₃ Amorphous Alloy
41760	Asaf Dana	856 (2021) 157968	2018B1398	BL40XU	Liss Klaus Dieter	The Evolution of the Martensitic Transformation at the High-Driving-Force Regime: A Microsecond-Scale Time-Resolved X-ray Diffraction Study

The Journal of Biological Chemistry

41697	Akashi Ohtaki	279 (2004) 31033-31040	C02A7111	BL44XU	神鳥 成弘	Complex Structures of <i>Thermoactinomyces vulgaris</i> R-47 α -Amylase 2 with Acarbose and Cyclodextrins Demonstrate the Multiple Substrate Recognition Mechanism
41787	Yasuyuki Matoba	296 (2021) 100698	2018B2720	BL26B1	小田 康祐	Lectins Engineered to Favor a Glycan-binding Conformation have Enhanced Antiviral Activity
			2018B6868	BL44XU	小田 康祐	
41873	Sachiko Toma-Fukai	295 (2020) 14630-14639	2016A6626	BL44XU	藤間 祥子	Crystal Structure of GCN5 PCAF N-terminal Domain Reveals Atypical Ubiquitin Ligase Structure

Journal of Materials Chemistry 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
41648	Chechia Hu	9 (2021) 7048-7058	2019A1386	BL01B1	吉田 真明	Lanthanum Nanocluster/ZIF-8 for Boosting Catalytic CO ₂ /glycerol Conversion using MgCO ₃ as a Dehydrating Agent
41858	Tomoya Hosokawa	9 (2021) 11073-11080	2017A1790	BL14B2	岩瀬 和至	Metal-doped Bipyridine Linked Covalent Organic Framework Films as a Platform for Photoelectrocatalysts
			2018A1349	BL01B1	原田 隆史	
			2019A1394	BL01B1	神谷 和秀	
			2019B1159	BL01B1	神谷 和秀	
			2020A1254	BL01B1	神谷 和秀	
			2020A1426	BL01B1	原田 隆史	
41867	Katsuya Murofushi	9 (2021) 11718-11725	2019B1394	BL01B1	鈴木 肇	Earth-abundant Iron(III) Species Serves as a Cocatalyst Boosting the Multielectron Reduction of IO ₃ ⁻ /I ⁻ Redox Shuttle in Z-scheme Photocatalytic Water Splitting

Journal of Materials Chemistry C

41646	Ran Liu	9 (2021) 947-956	2018B4502	BL15XU	Belik Alexei	Ferrimagnetic and Relaxor Ferroelectric Properties of R ₂ MnMn(MnTi ₃)O ₁₂ Perovskites with R = Nd, Eu, and Gd
41736	Takashi Takeda	9 (2021) 5497-5504	2015B1615	BL14B2	武田 隆史	Broadband White Luminescent Phosphor Ba(Si ₇₋₈ Al _x)Li ₃ (N _{10-x} O _x):Eu ²⁺ with a High Color Rendering Index for Solid State Lighting
41882	Eduardo Gomez	9 (2021) 6418-6435	2012B1324	BL38B1	久木 一朗	Deciphering the Behavior of a New MOF and its Composites under Light at Ensemble and Single Crystal Levels: Relevance to its Photonic Applications
			2018B1244	BL40XU	久木 一朗	
			2019B1134	BL40XU	久木 一朗	

Journal of The Electrochemical Society

41681	Kohei Suda	168 (2021) 054506	2016A1006	BL14B2	犬飼 潤治	Analytical System for Simultaneous <i>Operando</i> Measurements of Electrochemical Reaction Rate and Hard X-ray Photoemission Spectroscopy
			2016A1760	BL19B2	犬飼 潤治	
			2017A0138	BL46XU	犬飼 潤治	
			2017B1833	BL46XU	犬飼 潤治	
			2018A1579	BL14B2	犬飼 潤治	
			2019A1770	BL46XU	犬飼 潤治	
			2019B1887	BL46XU	川本 鉄平	
			2020A1882	BL46XU	川本 鉄平	
41770	Jun Kawaji	167 (2020) 140525	2017A7610	BL28XU	松原 英一郎	Analysis of Solid-Electrolyte Interphase at the Interface between a Graphite Negative Electrode and a Diluted Solvate Ionic Liquid-Based Quasi-Solid-State Electrolyte
			2017B7610	BL28XU	松原 英一郎	
			2018B7610	BL28XU	松原 英一郎	
41773	Hiroyuki Fujimoto	168 (2021) 040509	2016A7602	BL28XU	小久見 善八	Assessing Reaction Mechanisms of Graphite Negative Electrodes Based on <i>Operando</i> Synchrotron Radiation Diffraction Data
			2016B7603	BL28XU	松原 英一郎	
			2017A7603	BL28XU	松原 英一郎	
			2017B7603	BL28XU	松原 英一郎	
			2018A7603	BL28XU	松原 英一郎	
			2019A7613	BL28XU	安部 武志	
			2019B7613	BL28XU	安部 武志	

Macromolecules

41516	Yasuhiro Suzuki	54 (2021) 3293-3303	2020A1144	BL40B2	鈴木 祥仁	Polymerization-Induced Vitrification and Kinetic Heterogenization at the Onset of the Trommsdorff Effect
			2019B1210	BL40B2	鈴木 祥仁	
41607	Hiroki Ogawa	54 (2021) 1017-1029	2019A1546	BL20XU	小川 紘樹	Molecular Weight Effect on the Transition Processes of a Symmetric PS- <i>b</i> -P2VP during Spin-Coating
			2019B7271	BL03XU	小川 紘樹	
41695	Sultan Otep	54 (2021) 4351-4362	2019B1006	BL40B2	松本 英俊	Cross-Linking of Poly(arylenebutadienylenes) and Its Effect on Charge Carrier Mobilities in Thin-Film Transistors

Organic Chemistry Frontiers

41667	Ibrahim Ata	4 (2017) 1561-1573	2016A1679	BL46XU	廣内 大地	The Influence of Branched Alkyl Side Chains in A-D-A Oligothiophenes on the Photovoltaic Performance and Morphology of Solution-Processed Bulk-Heterojunction Solar Cells
41748	Yukari Okuma	6 (2019) 1002-1009	2018B0938	BL47XU	若林 裕助	Rotational Isomerism of the Amide Units in Rotaxanes Based on a Cyclic Tetraamide and Secondary Ammonium Ions
41752	Takanori Nakamura	7 (2020) 513-524	2018B0938	BL47XU	若林 裕助	Rotaxanes Comprising Cyclic Phenylenedioxidiacetamides and Secondary Mono- and Bis-dialkylammonium Ions: Effect of Macrocyclic Ring Size on Pseudorotaxane Formation

Structure

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
41650	Masaki Okumura	29 (2021) Online published Apr. 14, 2021	2018A1311	BL45XU	奥村 正樹	A Unique Leucine-Valine Adhesive Motif Supports Structure and Function of Protein Disulfide Isomerase P5 via Dimerization
			2018B1457	BL45XU	奥村 正樹	
			2017B1176	BL45XU	奥村 正樹	
			2014A1345	BL45XU	稲葉 謙次	
41704	Naoki Shibata	13 (2005) 1745-1754	2004A0653	BL38B1	倉光 成紀	Release of a Damaged Cofactor from a Coenzyme B ₁₂ -Dependent Enzyme: X-Ray Structures of Diol Dehydratase-Reactivating Factor
			2004B0810	BL41XU	虎谷 哲夫	
41781	Melissa Carrillo	29 (2021) 743-754	2019A8007	BL2	Schmidt Marius	High-resolution Crystal Structures of Transient Intermediates in the Phytochrome Photocycle
			2018A8055	BL3	Westerhoff Sebastian	

ACS Sustainable Chemistry & Engineering

41872	Wataru Yoshimune	9 (2021) 7922-7929	2019A7032	BL33XU	山口 聡	Managing the Pore Morphologies of Microporous Layers for Polymer Electrolyte Fuel Cells with a Solvent-Free Coating Technique
			2019B7032	BL33XU	山口 聡	
			2020A7032	BL33XU	山口 聡	
41878	Sho Yamaguchi	9 (2021) 6347-6354	2020A1487	BL01B1	満留 敬人	Support-Boosted Nickel Phosphide Nanoalloy Catalysis in the Selective Hydrogenation of Maltose to Maltitol

American Mineralogist

41896	Kentaro Hikosaka	104 (2019) 1356-1359	2017A0072	BL10XU	廣瀬 敬	The Stability of Fe ₃ O ₆ and Fe ₄ O ₅ at High Pressure and Temperature
41902	Shigehiko Tateno	103 (2018) 742-748	2017A0072	BL10XU	廣瀬 敬	Melting Experiments on Fe-Si-S Alloys to Core Pressures: Silicon in the Core?

Applied Catalysis A: General

41700	Namgi Jeon	614 (2021) 118036	2019B4901	BL15XU	草田 康平	Non-oxidative Propane Dehydrogenation over Alumina-Supported Co-V Oxide Catalysts
			2020A4900	BL15XU	草田 康平	
41797	Lidan Deng	606 (2020) 117826	2014B1036	BL01B1	穴戸 哲也	Behavior of Active Species on Pt-Sn/SiO ₂ Catalyst during the Dehydrogenation of Propane and Regeneration
			2015A1389	BL01B1	穴戸 哲也	

Applied Physics Express

41701	Kazumasa Okamoto	14 (2021) 066502	2017A8026	BL1	木下 博雄	Dependence of Dose Rate on the Sensitivity of the Resist under Ultra-High Flux Extreme Ultraviolet (EUV) Pulse Irradiation
			2017B8004	BL1	錦野 将元	
			2018A8024	BL1	錦野 将元	
42026	Noriyuki Miyata	14 (2021) 071005	2018A1360	BL47XU	野平 博司	Electrically Induced Change in HfO ₂ /1-monolayer TiO ₂ /SiO ₂ Metal-Oxide-Semiconductor Stacks: Capacitance-Voltage and Hard X-ray Photoelectron Spectroscopy Studies
			2014A0109	BL47XU	宮崎 誠一	

Asian Journal of Organic Chemistry

41743	Masaki Kimura	7 (2018) 2087-2093	2015A0114	BL40XU	高谷 光	Recognition Behavior of a Porphyrin Heterodimer Self-Assembled through an Amidinium-Carboxylate Salt Bridge
			2015A0114	BL27SU	高谷 光	
			2015A0114	BL14B2	高谷 光	
			2015A0114	BL02B1	高谷 光	
			2018A1553	BL14B2	高谷 光	
41750	Yuma Aoki	9 (2020) 372-376	2018B1583	BL14B2	高谷 光	Iron-Catalyzed Chemoselective C-N Coupling Reaction: A Protecting-Group-Free Amination of Aryl Halides Bearing Amino or Hydroxy Groups
			2018B1836	BL14B2	高谷 光	
			2018A1553	BL14B2	高谷 光	
			2018B1207	BL20XU	高谷 光	

Bulletin of the Chemical Society of Japan

41603	Ryosuke Agata	92 (2019) 381-390	2018A1173	BL40XU	高谷 光	Iron-Catalyzed Cross Coupling of Aryl Chlorides with Alkyl Grignard Reagents: Synthetic Scope and Fe ^{II} /Fe ^{IV} Mechanism Supported by X-ray Absorption Spectroscopy and Density Functional Theory Calculations
			2018B1583	BL14B2	高谷 光	
			2018B0938	BL14B2	若林 裕助	
			2019A3584	BL11XU	高谷 光	
			2019B3584	BL11XU	高谷 光	
41875	Kazuyuki Maeda	94 (2021) 1499-1501	2016B1044	BL02B2	前田 和之	Elucidation of Nitrogen Adsorption Behavior of AlMepO-a by In-Situ Powder X-ray Diffraction Study
			2017B1056	BL02B2	前田 和之	

Chemistry - An Asian Journal-1

41754	Masahiro Ueda	15 (2020) 2212-2217	2018B0938	BL47XU	若林 裕助	A Five-layer π -Aromatic Structure Formed through Self-assembly of a Porphyrin Trimer and Two Aromatic Guests
			2018B0938	BL43IR	若林 裕助	

Chemistry - An Asian 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
41757	Tomoya Kimura	15 (2020) 3897-3903	2018B0938	BL47XU	若林 裕助	Locking the Dynamic Axial Chirality of Biphenyl Crown Ethers through Threading

Communications Biology

41627	Megumi Nishinaga	4 (2021) 467	2017A2600	BL41XU	當舎 武彦	Heme Controls the Structural Rearrangement of its Sensor Protein Mediating the Hemolytic Bacterial Survival
			2017A2575	BL41XU	杉本 宏	
			2018A2576	BL41XU	杉本 宏	
			2019A2519	BL41XU	杉本 宏	
			2014A6955	BL44XU	村木 則文	
			2014B6955	BL44XU	村木 則文	
41866	Yumi Inoue	4 (2021) 646	2016A2544	BL26B1	今田 勝巳	The FlhA Linker Mediates Flagellar Protein Export Switching during Flagellar Assembly
			2018A2568	BL41XU	今田 勝巳	

Communications Materials

41883	Yoshihiro Kuroiwa	1 (2020) 71	2014A0078	BL02B1	Iversen Bo	Piezoelectricity in Perovskite-type Pseudo-cubic Ferroelectrics by Partial Ordering of Off-centered Cations
			2015A0074	BL02B2	森吉 千佳子	
42019	Kondo Masaki	2 (2021) 49	2019B1402	BL02B1	小島 達弘	Tunable Spin-valley Coupling in Layered Polar Dirac Metals

High Pressure Research

41895	Sho Suehiro	39 (2019) 579-587	2017A0072	BL10XU	廣瀬 敬	High-temperature Electrical Resistivity Measurements of hcp Iron to Mbar Pressure in an Internally Resistive Heated Diamond Anvil Cell
			2017B1730	BL10XU	末広 翔	
42054	Yoshio Kono	(2021) Online publication 20 Jun. 2021	2019A0069	BL04B1	河野 義生	Continuous Measurement of Ultrasonic Elastic Wave Velocities, X-ray Radiography and X-ray Diffraction of $Zr_{50}Cu_{40}Al_{10}$ Metallic Glass at High Pressure and High Temperature Conditions

IUCrJ

41819	Sylvia Pawlędzio	8 (2021) 608-620	2019A1069	BL02B1	Malinska Maura	Relativistic Hirshfeld Atom Refinement of an Organo-Gold(I) Compound
41953	Hiroyuki Iwamoto	8 (2021) 544-548	2014B1260	BL45XU	岩本 裕之	The 3D Structure of Fibrous Material is Fully Restorable from its X-ray Diffraction Pattern
			2015B1420	BL45XU	岩本 裕之	
			2016A1220	BL45XU	岩本 裕之	
			2018A1305	BL45XU	岩本 裕之	
			2018B1431	BL45XU	岩本 裕之	
			2019B1400	BL05XU	岩本 裕之	

The Journal of Biochemistry

42010	Ayami Wakasa	168 (2020) 375-384	2019A6500	BL44XU	山下 栄樹	Site-specific Epitope Insertion into Recombinant Proteins using the MAP Tag System
42016	Akane Senga	169 (2021) 207-213	2019B2704	BL45XU	沼本 修孝	Multiple Structural states of Ca^{2+} -regulated PET Hydrolase, Cut190, and its Correlation with Activity and Stability

The Journal of Physical Chemistry B

41683	Shoko Fujimura	124 (2020) 11617-11624	2017A1140	BL40XU	佐々木 裕次	Agonist and Antagonist-Diverted Twisting Motions of a Single TRPV1 Channel
			2018A1417	BL39XU	佐々木 裕次	
			2019A1498	BL40XU	佐々木 裕次	
42049	Szilvia Pothoczki	125 (2021) 6272-6279	2017B1246	BL04B2	Temleitner László	Properties of Hydrogen-Bonded Networks in Ethanol-Water Liquid Mixtures as a Function of Temperature: Diffraction Experiments and Computer Simulations
			2018A1132	BL04B2	Temleitner László	

Journal of the Ceramic Society of Japan

41674	Md Saiduzzaman	128 (2020) 660-663	2019A1190	BL02B2	熊田 伸弘	Hydrothermal Synthesis and Crystal Structure of a Mixed-valence Pyrochlore-type Strontium Bismuthate, $(Sr_{0.75}Bi_{0.25})_2Bi_2O_{6.83}$
41675	Md Saiduzzaman	129 (2021) 181-186	2019A1190	BL02B2	熊田 伸弘	Photocatalytic Activity of $RBi_2O_4NO_3$ (R: Tb, Dy, Er, Gd, and Ho) for Phenol Degradation under Visible Light Irradiation

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
41595	Junya Kobayashi	33 (2021) 011079	2016A1786	BL19B2	小林 純也	Structural Analysis of Microemulsion Formed from Polymer Surfactant Polyglycerol Esters in the Manufacturing Process
41785	Shunsuke Tsuda	30 (2020) 011144	2016A4605 2018B4605	BL15XU BL15XU	津田 俊輔 津田 俊輔	Substitution Effect of the Electronic Structure of Layered Iridium Oxides from Hard X-ray Photoemission Spectroscopy

Membranes

41794	Masahiro Shinkawa	11 (2021) 389	2020A0651	BL40B2	松本 英俊	Preparation of Perfluorosulfonated Ionomer Nanofibers by Solution Blow Spinning
42007	Maito Koga	11 (2021) 466	2019B1006 2019B1001 2019A1004 2019A1003 2018B1001 2018A1001	BL40B2 BL20XU BL40B2 BL20XU BL40B2 BL40B2	松本 英俊 松本 英俊 松本 英俊 松本 英俊 松本 英俊 松本 英俊	Microstructure Investigation of Polymer Electrolyte Fuel Cell Catalyst Layers Containing Perfluorosulfonated Ionomer

Nano Letters

41582	Hideki Matsuoka	21 (2021) 1807-1814	2020A3842	BL23SU	和達 大樹	Spin-Orbit-Induced Ising Ferromagnetism at a van der Waals Interface
41738	Kazuyuki Sakamoto	21 (2021) 4415-4422	2017B1518 2015A0116	BL25SU BL25SU	松井 文彦 林 好一	Spatial Control of Charge Doping in n-Type Topological Insulators

Nanomaterials

41744	Akinobu Yamaguchi	11 (2021) 1024	2018A1317 2019A1404 2019B1342	BL17SU BL17SU BL17SU	山口 明啓 山口 明啓 山口 明啓	X-ray Photoemission Spectroscopy Study of Uniaxial Magnetic Anisotropy Induced in a Ni Layer Deposited on a LiNbO ₃ Substrate
42059	Takahide Kubota	11 (2021) 1723	2018A3844 2017B3842	BL23SU BL23SU	伊藤 啓太 木村 昭夫	Microstructures and Interface Magnetic Moments in Mn ₂ VAl/Fe Layered Films Showing Exchange Bias

Optics Express

41981	Linda C. P. Croton	27 (2019) 14231-14245	2016A0132	BL20B2	Hooper Stuart	Ring Artifact Suppression in X-ray Computed Tomography using a Simple, Pixel-wise Response Correction
41984	Dylan W. O'Connell	28 (2020) 7080-7094	2018A0150	BL20B2	Hooper Stuart	Photon-counting, Energy-resolving and Super-resolution Phase Contrast X-ray Imaging using an Integrating Detector.

Organic Letters

41745	Yuma Aoki	21 (2019) 461-464	2018B0938 2018A1173 2015A0114	BL47XU BL40XU BL40XU	若林 裕助 高谷 光 高谷 光	Ligand-Free Iron-Catalyzed C-F Amination of Diarylamines: A One-Pot Regioselective Synthesis of Diaryl Dihydrophenazines
41755	Raghu N. Dhital	22 (2020) 4797-4801	2018A1553	BL14B2	高谷 光	Activator-Promoted Aryl Halide-Dependent Chemoselective Buchwald-Hartwig and Suzuki-Miyaura Type Cross-Coupling Reactions

Physical Chemistry Chemical Physics

41779	Tianxiang Chen	22 (2020) 18757-18764	2018B1081	BL02B2	Lo Benedict	Enantiospecificity in Achiral Zeolites for Asymmetric Catalysis
41792	Noritaka Sakakibara	23 (2021) 10468-10474	2017B7547 2018A7562	BL07LSU BL07LSU	寺嶋 和夫 寺嶋 和夫	Soft X-ray Emission Spectroscopy for the Electronic State of Water Molecules Influenced by Plasma-Treated Multi-Walled Carbon Nanotubes

Physical Review Applied

41774	Jaemyung Kim	11 (2019) 024072	2017B4505 2016B1028 2017A1030 2017B1029 2017B1030	BL15XU BL20B2 BL20B2 BL20B2 BL28B2	Kim Jaemyung 坂田 修身 坂田 修身 坂田 修身 坂田 修身	Mapping of a Lattice-Plane Tilting in a GaN Wafer Using Energy-Resolved X-Ray Diffraction Topography
41957	Masaki Kobayashi	15 (2021) 064019	2017B3841 2020A3841	BL23SU BL23SU	藤森 淳 小林 正起	Alternation of Magnetic Anisotropy Accompanied by Metal-Insulator Transition in Strained Ultrathin Manganite Heterostructures

Physical Review Letters

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
41526	Takaya Mitsui	125 (2020) 236806	2017A3551	BL11XU	三井 隆也	Magnetic Friedel Oscillation at the Fe(001) Surface: Direct Observation by Atomic-Layer-Resolved Synchrotron Radiation ⁵⁷ Fe Mössbauer Spectroscopy
			2017B3551	BL11XU	三井 隆也	
			2018A3552	BL11XU	三井 隆也	
			2018B3551	BL11XU	境 誠司	
			2018B3552	BL11XU	三井 隆也	
41669	Kento Katagiri	126 (2021) 175503	2019A3551	BL11XU	境 誠司	Liquid Structure of Tantalum under Internal Negative Pressure
			2019B8057	BL3	Albertazzi Bruno	
			2019B8032	BL3	奥地 拓生	
			2019B8017	BL3	尾崎 典雅	

Polymer Journal

41619	Tomoki Nishimura	(2021) Online published 20 Apr., 2021	2017A1241	BL40B2	西村 智貴	Thermoresponsive Glycopolymer Vesicles: in situ Observation of Morphological Changes and Triggered Cargo Release
			2020A1070	BL40B2	西村 智貴	
42053	Nattane Dechnarong	53 (2021) 703-712	2018B1035	BL40XU	高原 淳	Microdomain Structure Change and Macroscopic Mechanical Response of Styrenic Triblock Copolymer under Cyclic Uniaxial and Biaxial Stretching Modes
			2019A1015	BL40XU	高原 淳	
			2019B1011	BL40XU	高原 淳	
			2020A1007	BL40XU	高原 淳	

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

41768	Takashi Nomura	118 (2021) e2101481118	2018B8060	BL2	久保 稔	Short-lived Intermediate in N ₂ O Generation by P450 NO Reductase Captured by Time-resolved IR Spectroscopy and XFEL Crystallography
42058	Daniel Gabriel Mazzone	118 (2021) e2103696118	2017A8077	BL3	Meyers Derek	Laser-induced Transient Magnons in Sr ₃ Ir ₂ O ₇ throughout the Brillouin Zone
			2018A8032	BL3	Meyers Derek	
			2019A8087	BL3	Dean Mark	

Review of Scientific Instruments

41702	Yuichi Inubushi	92 (2021) 053534	2013B8031	BL3	犬伏 雄一	Spatially Resolved Single-shot Absorption Spectroscopy with X-ray Free Electron Laser Pulse
			2014A8017	BL3	犬伏 雄一	
			2016A8016	BL2	犬伏 雄一	
			2016B8009	BL3	犬伏 雄一	
			2017A8027	BL3	犬伏 雄一	
			2018A8025	BL2	犬伏 雄一	
			2020A8017	BL2	犬伏 雄一	
41936	Shinya Yamada	92 (2021) 013103	2019A1523	BL37XU	高橋 嘉夫	Broadband High-energy Resolution Hard X-ray Spectroscopy using Transition Edge Sensors at SPring-8
			2019B1498	BL37XU	高橋 嘉夫	
			2020A0174	BL37XU	高橋 嘉夫	

Solar RRL

41577	Ryuji Kaneko	5 (2021) 2000791	2019A1708	BL19B2	中村 唯我	Gradient 1D/3D Perovskite Bilayer using 4-tert-Butylpyridinium Cation for Efficient and Stable Perovskite Solar Cells
			2019A1774	BL19B2	中村 唯我	
			2019A1829	BL19B2	中村 唯我	
			2019B1807	BL19B2	中村 唯我	
			2019B1865	BL19B2	中村 唯我	
42017	Nadja Klipfel	(2021) Online published 3 Jun. 2021	2018B1855	BL46XU	柴山 直之	Crystallographically Oriented Hybrid Perovskites via Thermal Vacuum Codeposition
			2018B1809	BL19B2	中村 唯我	
			2018B1862	BL19B2	中村 唯我	
			2018B1868	BL46XU	柴山 直之	

日本接着学会誌 (Journal of the Adhesion Society of Japan) -1

41677	Takeshi Kakara	57 (2021) 51-57	2017A1813	BL19B2	加々良 剛志	In Situ Residual Stress Analysis in a Glass Fiber-reinforced Phenolic Resin Having a Fiber Orientation and Copper Composite Material During Curing
			2017B1893	BL19B2	和泉 篤士	
			2018A1751	BL19B2	和泉 篤士	
			2018B1575	BL19B2	和泉 篤士	
			2019A1618	BL19B2	和泉 篤士	
			2019B1690	BL19B2	和泉 篤士	

日本接着学会誌 (Journal of the Adhesion Society of Japan) -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
41678	Takeshi Kakara	57 (2021) 139-144	2017B1893	BL19B2	和泉 篤士	In Situ Residual Stress Analysis in a Glass Fiber-Reinforced Phenolic Resin and Aluminum Composite Material During Curing
			2018A1751	BL19B2	和泉 篤士	
			2018B1575	BL19B2	和泉 篤士	
			2019A1618	BL19B2	和泉 篤士	
			2019B1690	BL19B2	和泉 篤士	

燃料電池 (The Journal of Fuel Cell Technology)

41756	Koji Amezawa	20 (2021) 72-79	2019B1631	BL37XU	雨澤 浩史	Evaluation of the Electrode Reaction Mechanism of Protonic Ceramic Fuel Cell Cathode by Using Model Electrodes
			2019B1636	BL37XU	雨澤 浩史	
			2019A1466	BL37XU	雨澤 浩史	
			2019A1468	BL37XU	雨澤 浩史	
41764	Koji Amezawa	19 (2019) 33-37	2019B1636	BL37XU	雨澤 浩史	Electrode Reactions in Fuel Cells Using Proton-Conducting Ceramics
			2017B1502	BL37XU	雨澤 浩史	
			2018A1370	BL37XU	雨澤 浩史	
			2018B1383	BL37XU	雨澤 浩史	

表面技術 (Journal of the Surface Finishing Society of Japan)

41585	Yusuke Takahashi	72 (2021) 238-240	2018A5020	BL16XU	北原 周	Study of Interfacial Interaction between Metal and Adhesive by Non-Destructive Spectroscopic Analysis
			2018B5020	BL16XU	北原 周	
41568	Yuu Kakizawa	72 (2021) 230-237	2016A1759	BL46XU	犬飼 潤治	Oscillation Mechanism in Polymer Electrolyte Membrane Fuel Cell Studied by <i>Operando</i> Monitoring of Oxygen Partial Pressure using Optical Probes
			2018A1561	BL46XU	犬飼 潤治	

ACS Applied Nano Materials

41859	Yuxin Wu	4 (2021) 4994-5003	2018A1349	BL01B1	原田 隆史	Sn Atoms on Cu Nanoparticles for Suppressing Competitive H ₂ Evolution in CO ₂ Electrolysis
			2019A1394	BL01B1	神谷 和秀	
			2019B1159	BL01B1	神谷 和秀	
			2020A1254	BL01B1	神谷 和秀	
			2020A1426	BL01B1	原田 隆史	

ACS Chemical Biology

41780	Ryo Tashiro	16 (2021) 794-799	2020A2552	BL45XU	藤橋 雅宏	Altering the Phosphorylation Position of Pyrophosphate-Dependent <i>myo</i> -Inositol-1-Kinase Based on Its Crystal Structure
			2019B2716	BL45XU	藤橋 雅宏	

ACS Earth and Space Chemistry

41937	Baasansuren Gankhurel	4 (2020) 1064-1077	2019A1523	BL37XU	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
			2019B1498	BL37XU	高橋 嘉夫	
			2020A0174	BL01B1	高橋 嘉夫	

ACS Omega

41860	Mayuko Fujitsuka	6 (2021) 13284-13292	2018B1424	BL40B2	櫻木 美菜	Supramolecular Assembly of Hybrid Pt(II) Porphyrin/Tomatine Analogues with Different Nanostructures and Cytotoxic Activities
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Acta Crystallographica Section B

41520	Yuki Nakahira	77 (2021) 186-192	2019A0068	BL02B2	森吉 千佳子	Size Effect of the Guest Cation on the AlO ₄ Framework in Aluminate Sodalite-type Oxides M ₆ [Al ₁₂ O ₂₄](SO ₄) ₂ (M = Sr ²⁺ and Ca ²⁺) in the <i>43m</i> Phase
			2015A0074	BL02B2	森吉 千佳子	
			2017B1182	BL02B2	谷口 博基	
			2018A1339	BL02B2	谷口 博基	

Acta Materialia

41543	Sukyoung Hwang	205 (2021) 116543	2018A1031	BL46XU	辻 伸泰	Mesoscopic Nature of Serration Behavior in High-Mn Austenitic Steel
			2018B1038	BL46XU	辻 伸泰	
			2018B1760	BL46XU	辻 伸泰	
			2019A1783	BL46XU	辻 伸泰	
			2019B1030	BL46XU	辻 伸泰	
			2020A1021	BL46XU	辻 伸泰	
			2020A1854	BL46XU	辻 伸泰	

Advanced Materials

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
41533	Kohei Kusada	33 (2021) 2005206	2018A4911	BL15XU	草田 康平	Highly Stable and Active Solid-Solution-Alloy Three-Way Catalyst by Utilizing Configurational-Entropy Effect
			2018B1480	BL02B2	北川 宏	
			2020A4905	BL15XU	草田 康平	

Advanced Materials Interfaces

41808	Junghwan Kim	5 (2018) 1801307	2017B4702	BL15XU	神谷 利夫	Electron Affinity Control of Amorphous Oxide Semiconductors and Its Applicability to Organic Electronics
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Advanced Synthesis and Catalysis

41973	Hiroki Miura	362 (2020) 2642-2650	2018B1183	BL01B1	三浦 大樹	Silylation of Aryl Chlorides by Bimetallic Catalysis of Palladium and Gold on Alloy Nanoparticles
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Applied Catalysis B: Environmental

41767	Qi-An Huang	296 (2021) 120333	2017B1827	BL14B2	村山 美乃	Pt/CeO ₂ with Residual Chloride as Reusable Soft Lewis Acid Catalysts: Application to Highly Efficient Isomerization of Allylic Esters
			2017A1576	BL14B2	村山 美乃	
			2018A1736	BL14B2	村山 美乃	

Applied Sciences

41665	Naruki Tsuji	11 (2021) 3851	2020A2148	BL08W	辻 成希	Compton Scattering Imaging of Liquid Water in Porous Carbon-Based Materials
			2019A2064	BL08W	辻 成希	
			2019B2013	BL08W	辻 成希	

Biochemical and Biophysical Research Communications

41684	Kazuhiro Mio	529 (2020) 306-313	2017A1140	BL40XU	佐々木 裕次	X-ray-based Living-cell Motion Analysis of Individual Serotonin Receptors
			2018A1417	BL39XU	佐々木 裕次	
			2019A1498	BL40XU	佐々木 裕次	

Biochemistry

41777	Yoshimitsu Kakuta	44 (2005) 12086-12093	2004B0873	BL38B1	角田 佳充	Crystal Structure of a Ribonuclease P Protein Ph1601p from <i>Pyrococcus horikoshii</i> OT3: An Archaeal Homologue of Human Nuclear Ribonuclease P Protein Rpp21
			2004B0874	BL41XU	角田 佳充	

Biomacromolecules

42061	Yota Okuno	22 (2021) 3099-3106	2020A0524	BL40B2	西村 智貴	Thermoresponsive Carbohydrate- <i>b</i> -Polypeptoid Polymer Vesicles with Selective Solute Permeability and Permeable Factors for Solutes
			2020A1070	BL40B2	西村 智貴	

Biomedical Optics Express

41985	Marcus J. Kitchen	11 (2020) 4176-4190	2014B1522	BL20B2	Kitchen Marcus	Emphysema Quantified: Mapping Regional Airway Dimensions using 2D Phase Contrast X-ray Imaging
			2012A1322	BL20B2	Kitchen Marcus	

Catalysis Science & Technology

41799	Lidan Deng	9 (2019) 947-956	2012A1297	BL01B1	矢野 哲也	The Importance of Direct Reduction in the Synthesis of Highly Active Pt-Sn/SBA-15 for <i>n</i> -butane Dehydrogenation
			2013B1478	BL01B1	矢野 哲也	

Catalysis Today

41800	Shinsuke Imai	332 (2019) 267-271	2016B1224	BL01B1	三浦 大樹	Selective Catalytic Reduction of NO with CO and C ₃ H ₆ over Rh/NbOPO ₄
			2017B1245	BL01B1	矢野 哲也	

Cell Reports Physical Science

42018	Xiao-Xin Gao	2 (2021) 100475	2019B1808	BL46XU	柴山 直之	Engineering Long-term Stability into Perovskite Solar Cells via Application of a Multi-functional TFSI-based Ionic Liquid
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Chem

41652	Ying Wang	7 (2021) 436-449	2016B3632	BL14B1	崔 藝濤	Coordination Number Regulation of Molybdenum Single-Atom Nanzyme Peroxidase-like Specificity
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ChemCatChem

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
41809	Kazutaka Osako	10 (2018) 3666-3670	2017B4702	BL15XU	神谷 利夫	Direct Observation of Interfacial Charge Transfer between Rutile TiO ₂ and Ultrathin CuO _x Film by Visible-Light Illumination and Its Application for Efficient Photocatalysis

Chemical Engineering Journal

41649	Chechia Hu	418 (2021) 129469	2019A1386	BL01B1	吉田 真明	MIL-88B(Fe)-coated Photocatalytic Membrane Reactor with Highly Stable Flux and Phenol Removal Efficiency
			2020A1360	BL01B1	吉田 真明	

Chemical Geology

41938	Haibo Qin	552 (2020) 119771	2019A1523	BL37XU	高橋 嘉夫	Chemical Speciation of Scandium and Yttrium in Laterites: New Insights into the Control of Their Partitioning Behaviors
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ChemNanoMat

41651	Yalin Guo	7 (2021) 526-529	2020A3415	BL08B2	崔 藝濤	High Performance of Single-atom Catalyst Pd ₁ /MgO for Semi-hydrogenation of Acetylene to Ethylene in Excess Ethylene
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Colloids and Interfaces

41921	Yohko Yano	5 (2021) 31	2017B1137	BL37XU	矢野 陽子	Understanding the Dynamics of a Lipid Monolayer on a Water Surface under a Marangoni Flow
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Colloids and Surfaces A: Physicochemical and Engineering Aspects

41596	Yuta Hashiguchi	620 (2021) 126607	2017B1783	BL46XU	渡辺 文博	Continuous-flow Synthesis of Pd@Pt Core-shell Nanoparticles
			2018A1764	BL14B2	渡辺 文博	
			2018B1833	BL14B2	渡辺 文博	
			2017A1754	BL14B2	中村 和斗	
			2017B1782	BL14B2	橋口 雄太	
			2019A1782	BL14B2	橋口 雄太	
			2019B1872	BL14B2	橋口 雄太	

Communications Chemistry

42057	Franklin D. Fuller	4 (2021) 84	2017A8050	BL3	Yano Junko	Resonant X-ray Emission Spectroscopy from Broadband Stochastic Pulses at an X-ray Free Electron Laser
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Corrosion Science

41805	Kyosuke Hirayama	184 (2021) 109343	2015A0076	BL20XU	戸田 裕之	Damage Micromechanisms of Stress Corrosion Cracking in Al-Mg Alloy with High Magnesium Content
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Crystal Growth & Design

41989	Kunihisa Sugimoto	21 (2021) 4178-4183	2017B1254	BL02B1	杉本 邦久	Visualization of Weak Interaction Effects on N ₂ O Schiff Base Ligands in Iron(II) Spin Crossover Complexes
			2018A1426	BL02B1	杉本 邦久	
			2018B1409	BL02B1	杉本 邦久	
			2018B1412	BL02B1	杉本 邦久	
			2018B1818	BL02B1	杉本 邦久	

Current Opinion in Electrochemistry

41747	Koji Amezawa	21 (2020) 250-256	2017B1500	BL37XU	雨澤 浩史	X-ray Absorption Spectroscopic Studies on Solid Oxide Fuel Cells and Proton-Conducting Ceramic Fuel Cells
			2019A1466	BL37XU	雨澤 浩史	
			2019A1468	BL37XU	雨澤 浩史	
			2018B1285	BL27SU	雨澤 浩史	

Electrochemistry Communications

41870	Satoshi Yamaguchi	128 (2021) 107059	2017B7032	BL33XU	長井 康貴	Visualization of Dynamic Behavior of Liquid Water in the Microporous Layer of Polymer Electrolyte Fuel Cell during Water Injection by Time-Resolved X-ray Computed Tomography
			2018A7032	BL33XU	長井 康貴	

Electronic Structure

41889	Yasuo Nakayama	3 (2021) 024006	2017A1570	BL46XU	中山 泰生	Interface Electronic Structure and Valence Band Dispersion of Bis(1,2,5-thiadiazolo)- <i>p</i> -quinobis(1,3-dithiole) on Polycrystalline Au Electrodes
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Electronics 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
41795	Takuma Nanjo	(2021) Online published 25 May 2021	2019B5130	BL16XU	今澤 貴史	Generation of Two-dimensional Electron Gas to Normally Depleted AlGaIn/GaN Hetero-interface by SiO ₂ Deposition and Subsequent High-temperature Annealing
			2020A5131	BL16XU	今澤 貴史	

eLife

41521	Kazumasa Oda	10 (2021) e62389	理研	BL32XU		Time-resolved Serial Femtosecond Crystallography Reveals Early Structural Changes in Channelrhodopsin
			2015B8053	BL3	濡木 理	
			2016A8054	BL3	濡木 理	
			2016B8067	BL3	濡木 理	
			2017A8022	BL3	濡木 理	
			2017B8035	BL2	濡木 理	

Engineering Fracture Mechanics

41803	Valary Tubei	249 (2021) 107755	2015A0076	BL20XU	戸田 裕之	3D Short Fatigue Crack Closure Behavior in Ti-6Al-4V Alloy Investigated using in-situ High Resolution Synchrotron X-ray Tomography
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European Journal of Organic Chemistry

42052	Hirokazu Miyoshi	2021 (2021) 3528-3534	2014A1252	BL38B1	久木 一朗	Crystal Structures of Tetramesityl-Substituted Tetracyclopenta[def,jkl,pqr,vwx]tetraphenylene
			2014B1168	BL38B1	久木 一朗	

FEBS Letters

41694	Satoshi Murakami	594 (2020) 3908-3919	2018A6700	BL44XU	中川 敦史	Tripartite Transporters as Mechanotransmitters in Periplasmic Alternating-access Mechanisms
			2018B6700	BL44XU	中川 敦史	
			2019A6700	BL44XU	中川 敦史	
			2019B6700	BL44XU	中川 敦史	

Frontiers in Earth Science

41523	Jirapat Charoensawan	9 (2021) 645532	2017B1387	BL20XU	Toy Virginia	Fracture Shape and Orientation Contributions to P-wave Velocity and Anisotropy of Alpine Fault Mylonites
			2018A1506	BL20XU	Toy Virginia	

Frontiers in Pediatrics

41982	Janneke Dekker	7 (2019) 427	2018A0150	BL20B2	Hooper Stuart	Increasing Respiratory Effort With 100% Oxygen During Resuscitation of Preterm Rabbits at Birth
			2016A0132	BL20B2	Hooper Stuart	

Geochimica et Cosmochimica Acta

41907	Fumihiro Matsuura	306 (2021) 20-43	2019A1583	BL27SU	白井 寛裕	Spatial Distribution and Speciation of Sulfur in Ediacaran Limestones with μ -XRF Imaging and XANES Spectroscopy: Implications for Diagenetic Mobilization of Sulfur Species
			2018A1348	BL27SU	白井 寛裕	
			2017B1255	BL27SU	白井 寛裕	
			2017A1245	BL27SU	白井 寛裕	

Geophysical Research Letters

41898	Kei Hirose	46 (2019) 5190-5197	2017A0072	BL10XU	廣瀬 敬	Hydrogen Limits Carbon in Liquid Iron
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Geostandards and Geoanalytical Research

41935	Yusuke Miyajima	45 (2020) 189-205	2019A1523	BL37XU	高橋 嘉夫	Incorporation of U, Pb and Rare Earth Elements in Calcite through Crystallisation from Amorphous Calcium Carbonate: Simple Preparation of Reference Materials for Microanalysis
			2019B1498	BL37XU	高橋 嘉夫	

IEEE Transactions on Medical Imaging

41983	Florian Schaff	39 (2020) 3891-3899	2018A0150	BL20B2	Hooper Stuart	Material Decomposition Using Spectral Propagation-Based Phase-Contrast X-Ray Imaging
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International Journal of Molecular Sciences

41881	Eduardo Gomez	22 (2021) 4803	2018B1244	BL40XU	久木 一朗	Synthesis and Photobehavior of a New Dehydrobenzoannulene-Based HOF with Fluorine Atoms: From Solution to Single Crystals Observation
			2019B1134	BL40XU	久木 一朗	
			2012B1324	BL38B1	久木 一朗	

Journal of Analytical Atomic Spectroscopy

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
41531	Ryosuke Kondo	36 (2021) 1041-1046	2016B1449	BL05XU	早川 慎二郎	An Application of Micro X-ray Fluorescence Computed Tomography for the Determination of Three-dimensional Elemental Distribution in a Single Hair Strand
			2018B1445	BL05XU	早川 慎二郎	
			2017B1494	BL05XU	早川 慎二郎	

Journal of Applied Physics

41869	Yangchen He	129 (2021) 203903	2019B1089	BL02B2	谷口 博基	Unconventional High-Temperature Ferromagnetic Semiconductor $\text{PbPd}_{1-x}\text{Fe}_x\text{Li}_x\text{O}_2$
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Journal of Astronomical Telescopes, Instruments, and Systems

41871	Tomoaki Kasuga	6 (2020) 035002	2019B1369	BL20B2	小高 裕和	Artifact-less Coded Aperture Imaging in the X-ray Band with Multiple Different Random Patterns
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Journal of Bone and Mineral Research

41740	Yukiko Kuroda	(2021) Online published 27 Apr. 2021	2017B1284	BL37XU	松尾 光一	Hypermineralization of Hearing-Related Bones by a Specific Osteoblast Subtype
			2017A1195	BL37XU	松尾 光一	
			2016B1043	BL37XU	百生 敦	
			2018B1216	BL37XU	松尾 光一	

Journal of Carbohydrate Chemistry

41909	Thuy T. T. Thanh	(2021) Online published 4 Jun. 2021	2019A1256	BL40B2	湯口 宣明	Structural Characteristics and Biological Activity of Different Alginate Blocks Extracted from Brown Seaweed <i>Turbinaria ornata</i>
			2020A1421	BL40B2	湯口 宣明	

Journal of Catalysis

41801	Lidan Deng	365 (2018) 277-291	2011B1393	BL01B1	穴戸 哲也	Elucidating Strong Metal-support Interactions in Pt-Sn/SiO ₂ Catalyst and its Consequences for Dehydrogenation of Lower Alkanes
			2012A1297	BL01B1	穴戸 哲也	

Journal of Fluid Science and Technology

41522	Noriko Watari	13 (2018) JFST0010	2017B1594	BL20XU	山崎 紀子	Two-fluid Model to Simulate Metal Powder Bed Fusion Additive Manufacturing
			2016B1817	BL20XU	山崎 紀子	
			2015B1840	BL20XU	山崎 紀子	

Journal of Geophysical Research: Solid Earth

41900	Mayu Kusakabe	124 (2019) 3448-3457	2017A0072	BL10XU	廣瀬 敬	Melting Curve and Equation of State of $\beta\text{-Fe}_7\text{N}_3$: Nitrogen in the Core?
			2014A0080	BL10XU	廣瀬 敬	

Journal of Luminescence

42024	Yu. Yu. Dikhtyar	236 (2021) 118083	2016B4504	BL15XU	山浦 一成	Crystal Structure, Dielectric and Optical Properties of $\beta\text{-Ca}_3(\text{PO}_4)_2$ -type Phosphates $\text{Ca}_{9-x}\text{Zn}_x\text{La}(\text{PO}_4)_7\cdot\text{H}_2\text{O}^{3+}$
			2020A4501	BL15XU	Belik Alexei	

Journal of Materials Science

41530	Tomoya Nagira	56 (2021) 10653-10663	2017A1110	BL20B2	柳樂 知也	In situ Observation of Solidification Crack Propagation for Type 310S and 316L Stainless Steels during TIG Welding using Synchrotron X-ray Imaging
			2017B1116	BL20B2	柳樂 知也	
			2017B1117	BL20XU	柳樂 知也	
			2018A1110	BL20XU	柳樂 知也	
			2018A1111	BL20XU	柳樂 知也	
			2018B1132	BL20XU	柳樂 知也	
			2019B1439	BL20XU	柳樂 知也	

Journal of Molecular Structure

41686	Thuy Thi Thu Thanh	1239 (2021) 130507	2019A1256	BL40B2	湯口 宣明	Molecular Structure and Anti-diabetic Activity of a Polysaccharide Extracted from Pumpkin <i>Cucurbita pepo</i>
			2020A1421	BL40B2	湯口 宣明	

The Journal of Physical Chemistry A

41570	Masae Takahashi	125 (2021) 1837-1844	2018A1198	BL43IR	高橋 まさえ	Temperature-Dependent Low-Frequency Vibrations of Thiamine Crystal Containing Hydrated Ions
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Journal of Physics: Condensed 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
41733	Koji Ohara	33 (2021) 383001	2019A2058	BL04B2	尾原 幸治	Structure of Disordered Materials under Ambient to Extreme Conditions Revealed by Synchrotron X-ray Diffraction Techniques at SPRING-8—Recent Instrumentation and Synergic Collaboration with Modelling and Topological Analyses
			2019B2091	BL04B2	尾原 幸治	

Journal of Power Sources

41643	Yuji Mahara	497 (2021) 229788	2019A7030	BL33XU	田島 伸	Appearance of the 4 V Signal without Transformation to Spinel-related Oxides from Loose-crystalline Rock-salt LiMnO ₂
			2019B7030	BL33XU	田島 伸	
			2020A7030	BL33XU	田島 伸	

Journal of Solid State Electrochemistry

41975	Naoya Ishida	25 (2021) 1319-1326	2016A1509	BL19B2	井手本 康	Average and Local Structure Analysis of Na/Li Ion-exchanged Li _x (Mn,Ni,Ti)O ₂ using Synchrotron X-ray and Neutron Sources
			2017A1578	BL19B2	井手本 康	
			2017B1807	BL19B2	井手本 康	
			2016B1852	BL14B2	井手本 康	
			2017A1573	BL14B2	井手本 康	
			2017B1590	BL14B2	井手本 康	
			2015B1280	BL04B2	井手本 康	

Journal of Structural Biology

41904	Keito Hiragi	213 (2021) 107748	2017A6753	BL44XU	水島 恒裕	Structural Insights into the Targeting Specificity of Ubiquitin Ligase for <i>S. cerevisiae</i> Isocitrate Lyase but not <i>C. albicans</i> Isocitrate Lyase
			2017B6753	BL44XU	水島 恒裕	
			2018A6849	BL44XU	水島 恒裕	
			2018B6849	BL44XU	水島 恒裕	
			2019A6949	BL44XU	水島 恒裕	
			2019B6949	BL44XU	水島 恒裕	
			2020A6549	BL44XU	水島 恒裕	

Journal of Structural Biology: X

41589	Masaki Kitagawa	5 (2021) 100044	2017A2585	BL38B1	今田 勝巳	Structural Basis of Enzyme Activity Regulation by the Propeptide of L-lysine α -oxidase Precursor from <i>Trichoderma viride</i>
			2017A2585	BL26B1	今田 勝巳	

Journal of Synchrotron Radiation

42055	Naruki Tsuji	28 (2021) 1174-1177	2015A2047	BL08W	伊藤 真義	Direct Cross-sectional Imaging using X-ray Compton Scattering: Application to Commercial Batteries
			2016A1330	BL08W	伊藤 真義	
			2018B1842	BL46XU	梶原 聖太郎	
			2019B1700	BL28B2	梶原 聖太郎	

Journal of the European Ceramic Society

41608	Shin Tajima	41 (2021) 4516-4527	2019B7030	BL33XU	田島 伸	Synthesis and Ion Transport Properties of RE ₃ GaO ₆ (RE = Rare Earth) Oxide Ion Conductors
			2019A7030	BL33XU	田島 伸	
			2020A7030	BL33XU	田島 伸	

Journal of the Korean Physical Society

41776	Sung Su Lee	73 (2018) 1529-1534	2017B4504	BL15XU	Seo Okkyun	Temperature Dependent Octahedral Tilting Behaviors of Monoclinic and Tetragonal SrRuO ₃ Thin Films
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Journal of Vacuum Science & Technology A

42004	Shuichi Ogawa	39 (2021) 043207	2017B3801	BL23SU	吉越 章隆	Two-step Model for Reduction Reaction of Ultrathin Nickel Oxide by Hydrogen
			2017B3836	BL23SU	小川 修一	
			2018A3801	BL23SU	吉越 章隆	
			2018A3836	BL23SU	小川 修一	
			2018B3836	BL23SU	小川 修一	
			2019A3801	BL23SU	吉越 章隆	
			2019A3836	BL23SU	小川 修一	
			2019B3801	BL23SU	吉越 章隆	
			2020A3801	BL23SU	吉越 章隆	
			2018B3801	BL23SU	吉越 章隆	

Langmuir

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
41959	Takumi Kusano	37 (2021) 7503-7512	2014A7003	BL33XU	原田 雅史	Interplay between Interparticle Potential and Adsorption Structure in Nanoparticle Dispersions with Polymer Addition as Displayed by Small-Angle Scattering
			2014B7003	BL33XU	原田 雅史	

Life Science Alliance

41685	Tetsuya Sakurai	4 (2021) e202000873	2012A1211	BL41XU	保坂 俊彰	A Conserved PI(4,5)P2-binding Domain is Critical for Immune Regulatory Function of DOCK8
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Materials Advances

41796	Saki Imada	2 (2021) 4075-4080	2020A1257	BL27SU	今田 早紀	Formation of Various-axis-oriented Wurtzite Nuclei and Enlargement of the <i>a</i> -axis-oriented Region in AlFeN Films Deposited on Si(100) Substrates
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Materials Letters: X

41692	Motomichi Koyama	11 (2021) 100078	2020A3691	BL14B1	小山 元道	Depressurization-induced Diffusionless Transformation in Pure Iron Hydrogenated under Several Gigapascals
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Materials Research Letters

41565	Bingjie Zhang	9 (2021) 223-230	2018B1760	BL46XU	辻 伸泰	Achieving Large Super-Elasticity through Changing Relative Easiness of Deformation Modes in Ti-Nb-Mo Alloy by Ultra-Grain Refinement
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Materials Science and Engineering A

41804	Y. G. Tan	805 (2021) 140592	2016A1278	BL20XU	Sinclair Ian	Data Rich Imaging Approaches Assessing Fatigue Crack Initiation and Early Propagation in a DS Superalloy at Room Temperature
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Materials Science in Semiconductor Processing

41653	Tappei Nishihara	132 (2021) 105887	2018A1540	BL46XU	小島 拓人	Evaluation of Correlation between Fill Factor and High Mobility Transparent Conductive Oxide Film Deposition Temperature in the Silicon Heterojunction Solar Cells
			2018B1803	BL46XU	神岡 武文	
			2019A1766	BL46XU	神岡 武文	
			2019A1767	BL46XU	神岡 武文	
			2019B1902	BL46XU	神岡 武文	
			2020A1848	BL46XU	西原 達平	

Materials Transactions

41862	Shan Lin	62 (2021) 603-609	2018A1591	BL40XU	松本 克史	Nanostructure Distribution and Strengthening Mechanisms in the Interface Regions of Al-Zn/Al-Mg Multilayered Composites
			2016A1168	BL40XU	奥田 浩司	
			2016B1275	BL40XU	奥田 浩司	
			2016B1282	BL45XU	奥田 浩司	
			2017B1570	BL40XU	奥田 浩司	
			2017B1611	BL40XU	松本 克史	
			2019A1639	BL40XU	松本 克史	

Matter and Radiation Extremes

41917	Cheng Ji	5 (2020) 038401	2019A1191	BL10XU	Ji Cheng	Crystallography of Low Z Material at Ultrahigh Pressure: Case Study on Solid Hydrogen
			2019B1242	BL10XU	Ji Cheng	

mBio

41588	Norihiro Takekawa	12 (2021) e03199	2016A2541	BL26B1	今田 勝巳	Two Distinct Conformations in 34 FlIF Subunits Generate Three Different Symmetries within the Flagellar MS-Ring
			2017A2588	BL41XU	今田 勝巳	
			2016A2541	BL41XU	今田 勝巳	

Meteoritics and Planetary Science

41955	Zelia Dionnet	55 (2020) 1645-1664	2012A1461	BL47XU	土山 明	Combining IR and X-ray Microtomography Data Sets: Application to Itokawa Particles and to Paris Meteorite
			2012B1346	BL47XU	土山 明	

Minerals

41933	Hiroki Suga	11 (2021) 514	2019A1523	BL37XU	高橋 嘉夫	A New Constraint on the Physicochemical Condition of Mars Surface during the Amazonian Epoch Based on Chemical Speciation for Secondary Minerals in Martian Nakhilites
			2018A0148	BL37XU	高橋 嘉夫	
			2019B1498	BL37XU	高橋 嘉夫	
			2020A0174	BL37XU	高橋 嘉夫	

Molecular Immunology

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
42015	Momoka Iiyama	131 (2021) 51-59	2014A1159	BL38B1	沼本 修孝	Molecular Interactions of the CTLA-4 Cytoplasmic Region with the Phosphoinositide 3-kinase SH2 Domains
			2014B1947	BL26B1	沼本 修孝	

Nanoscale

41778	Qi Xue	12 (2020) 23206-23212	2020A1088	BL02B2	Lo Benedict	A Rational Study on the Geometric and Electronic Properties of Single-Atom Catalysts for Enhanced Catalytic Performance
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National Science Review

41892	Kenji Ohta	8 (2020) nwaa303	2017A0072	BL10XU	廣瀬 敬	The Thermal Conductivity of the Earth's Core and Implications for its Thermal and Compositional Evolution
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Nature

41931	Hasnain Hafiz	594 (2021) 213-216	2017A1122	BL08W	鈴木 宏輔	Tomographic Reconstruction of Oxygen Orbitals in Lithium-rich Battery Materials
			2019B1668	BL08W	鈴木 宏輔	

npj Quantum Materials

41918	Naoyuki Katayama	6 (2021) 16	2018B1128	BL04B2	片山 尚幸	Slow Dynamics of Disordered Zigzag Chain Molecules in Layered LiVS ₂ under Electron Irradiation
			2018B1145	BL04B2	片山 尚幸	
			2018B1157	BL02B2	片山 尚幸	
			2019B1073	BL02B2	片山 尚幸	

Nucleic Acids Research

41979	Teruya Nakamura	49 (2021) 7154-7163	2017A6761	BL44XU	山縣 ゆり子	Structure of the Mammalian Adenine DNA Glycosylase MUTYH: Insights into the Base Excision Repair Pathway and Cancer
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Organic & Biomolecular Chemistry

41880	Hang Xu	(2021) Online published 18 May 2021	2020A1640	BL14B2	水垣 共雄	A Copper Nitride Catalyst for the Efficient Hydroxylation of Aryl Halides under Ligand-free Conditions
			2020A1487	BL01B1	満留 敬人	

Palaeontology

41775	Xing Wang	63 (2020) 775-789	2018A1701	BL47XU	小宮 剛	An Intermediate Type of Medusa from the Early Cambrian Kuanchuanpu Formation, South China
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Palaeoworld

42005	Sena Kono	30 (2021) 199-207	2018A1431	BL47XU	磯崎 行雄	Unique Lowermost Cambrian Small Shelly Fossils (SSFs) from Eastern Yunnan, South China: Implications for the Early Diversification History of Animals
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Peptide Science 2020

41788	Kosuke Watanabe	(2021) 163-166	2016B1586	BL43IR	渡邊 紘介	Age-related Collapse of Heterogeneity due to the Secondary Structure Changes of the Hair Protein
			2017A1592	BL43IR	渡邊 紘介	
			2017B1587	BL43IR	伊藤 康	
			2018A1573	BL43IR	伊藤 康	
			2018B1610	BL43IR	小林 翔	
			2019A1638	BL43IR	渡邊 紘介	

Philosophical Magazine Letters

41865	Yoshifumi Ikoma	101 (2021) 223-231	2018B1697	BL04B1	増田 高大	Synchrotron X-ray Diffraction Observation of Phase Transformation during Annealing of Si Processed by High-Pressure Torsion
			2018B1494	BL04B1	堀田 善治	
			2018A1451	BL04B1	堀田 善治	
			2017B1487	BL04B1	堀田 善治	
			2017A1864	BL04B1	肥後 祐司	
			2017A1851	BL04B1	肥後 祐司	

Physica Status Solidi B

41620	Toru Asaka	257 (2020) 2000334	2018A1316	BL37XU	浅香 透	Average and Local Crystal Structures of Multiferroic Eu _{1-x} Y _x MnO ₃ (x=0.2 and 0.4)
			2018B1442	BL37XU	浅香 透	
			2019B1314	BL13XU	浅香 透	
			2020A1485	BL37XU	浅香 透	

Physical Review Materials

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
42048	Melanie Budde	4 (2020) 124602	2018B4600	BL15XU	長田 貴弘	Plasma-assisted Molecular Beam Epitaxy of SnO(001) Films: Metastability, Hole Transport Properties, Seebeck Coefficient, and Effective Hole Mass
			2019A4601	BL15XU	長田 貴弘	

Physical Review Research

41604	Yujun Zhang	2 (2020) 033496	2018A1232	BL39XU	Zhang Yujun	Interfacial-hybridization-modified Ir Ferromagnetism and Electronic Structure in LaMnO ₃ /SrIrO ₃ Superlattices
			2018B1449	BL47XU	Zhang Yujun	
			2019A1239	BL47XU	Zhang Yujun	

Physics and Chemistry of Minerals

41893	Yoshiyuki Okuda	47 (2020) 40	2017A0072	BL10XU	廣瀬 敬	Anomalous Compressibility in (Fe,Al)-bearing Bridgmanite: Implications for the Spin State of Iron
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Physics in Medicine and Biology

41986	Heyang Li	65 (2020) 185014	2012B0047	BL20B2	Hooper Stuart	Quantitative Material Decomposition using Linear Iterative Near-Field Phase Retrieval Dual-Energy X-ray Imaging
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Polymer

41971	Shohei Yamazaki	225 (2021) 123768	2018B7257	BL03XU	門脇 靖	Low-temperature Graphitization of Poly(acrylonitrile) Densely Grafted onto a Silica Core Surface
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Proceedings of the Combustion Institute

41656	Kodai Murai	38 (2021) 3987-3994	2019B1473	BL20B2	大徳 忠史	"Three-dimensional Analysis of the Pyrolysis Behavior of Solid Fuel by Ultra High-Speed X-ray CT"
			2018B1324	BL20B2	大徳 忠史	
			2019A1506	BL20B2	大徳 忠史	

Protein Science

41590	Yoshika Yano	30 (2021) 1044-1055	2016B2719	BL41XU	今田 勝巳	A New L-arginine Oxidase Engineered from L-glutamate Oxidase
			2017A2585	BL26B1	今田 勝巳	
			2017A2585	BL38B1	今田 勝巳	

Proteins: Structure, Function, and Bioinformatics

42014	Miho Emori	89 (2021) 502-511	2019B2704	BL45XU	沼本 修孝	Structural Basis of Mutants of PET-degrading Enzyme from <i>Saccharomonospora viridis</i> AHK190 with High Activity and Thermal Stability
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Quantum Beam Science

41958	Takahisa Shobu	5 (2021) 17	2013B3721	BL22XU	菫浦 敬久	Internal Strain Distribution of Laser Lap Joints in Steel under Loading Studied by High-Energy Synchrotron Radiation X-rays
			2014A3721	BL22XU	菫浦 敬久	
			2016A3772	BL22XU	城 鮎美	

RSC Advanced

41932	Ayano Taniguchi	11 (2021) 5609-5617	2019A4906	BL15XU	小廣 和哉	Ce ³⁺ -enriched Spherical Porous Ceria with an Enhanced Oxygen Storage Capacity
			2020A4904	BL15XU	小廣 和哉	
			2018A4910	BL15XU	小廣 和哉	

Science

41644	Dmitry D. Khalyavin	369 (2020) 680-684	2016B4504	BL15XU	山浦 一成	Emergent Helical Texture of Electric Dipoles
			2017A4503	BL15XU	Belik Alexei	

Science Advances

41954	Akira Tsuchiyama	7 (2021) eabg9707	2013A1462	BL47XU	土山 明	Discovery of Primitive CO ₂ -bearing Fluid in an Aqueously Altered Carbonaceous Chondrite
			2013B1459	BL47XU	土山 明	
			2014A1453	BL47XU	土山 明	
			2015A1358	BL47XU	土山 明	
			2015A1413	BL47XU	土山 明	
			2015B1309	BL47XU	土山 明	
			2016A1253	BL47XU	土山 明	

Science and Technology of Advanced Materials

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
41730	Shigenori Ueda	22 (2021) 317-325	2019A4604	BL15XU	上田 茂典	Direct Observation of Spin-resolved Valence Band Electronic States from a Buried Magnetic Layer with Hard X-ray Photoemission
			2020A4606	BL15XU	上田 茂典	

Shape Memory and Superelasticity

41751	Asaf Dana	7 (2021) 333-343	2018B1398	BL40XU	Liss Klaus Dieter	Dynamics of Phase Fronts During High-Driving-Force Transformation of Shape Memory Alloy Wires
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Structural Dynamics

41660	Christian Rein	8 (2021) 024501	2019A8039	BL3	Andreasen Jens	Element-specific Investigations of Ultrafast Dynamics in Photoexcited Cu ₂ ZnSnS ₄ Nanoparticles in Solution
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Surface and Interface Analysis

41811	Oleksandr Romanyuk	52 (2020) 933-938	2018A4908	BL15XU	Wilks Regan	Hard X-ray Photoelectron Spectroscopy Study of Core Level Shifts at Buried GaP/Si(001) Interfaces
			2018B4909	BL15XU	Wilks Regan	
			2019A4910	BL15XU	Wilks Regan	

Symmetry

41670	Hirotsugu Kikuchi	13 (2021) 772	2014B1408	BL40B2	菊池 裕嗣	Enhancement of Polymer Structural Ordering in Polymer-Stabilised Blue Phases for Improved Electro-Optical Properties
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Translational Psychiatry

41793	Ryuta Mizutani	11 (2021) 49	2019B1087	BL37XU	水谷 隆太	Structural Diverseness of Neurons between Brain Areas and between Cases
			2011A0034	BL20XU	水谷 隆太	
			2015A1160	BL20XU	水谷 隆太	
			2015B1101	BL20XU	水谷 隆太	
			2016B1041	BL20XU	水谷 隆太	
			2018A1164	BL20XU	水谷 隆太	
			2018B1187	BL37XU	水谷 隆太	

Zeitschrift für Physikalische Chemie

41783	Yoshinori Ohmasa	235 (2021) 37-57	2008B1426	BL40B2	千葉 文野	Streak Patterns Observed in Small Angle X-Ray Scattering from Highly Oriented Pyrolytic Graphite (HOPG)
			2009B1229	BL40B2	千葉 文野	

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

41571	Soichiro Oyadomari	52 (2021) 179-198	2017B1769	BL08W	中井 泉	Attempt to Estimate the Origin of Jomon Pottery Excavated in Saitama Prefecture Based on the Japanese River Sediments Database
			2018A1707	BL02B2	中井 泉	
			2018B1749	BL02B2	中井 泉	
			2018B1750	BL08W	中井 泉	
			2019B1170	BL08W	阿部 善也	
			2019B1465	BL02B2	大屋 道則	
			2018B1743	BL08W	阿部 善也	
			2018A1709	BL08W	阿部 善也	

軽金属 (Journal of Japan Institute of Light Metals)

41553	Hiroki Adachi	69 (2019) 555-561	2018A1031	BL46XU	辻 伸泰	Understanding on Peculiar Mechanical Properties of Ultrafine Grained Aluminum
			2018B1038	BL46XU	辻 伸泰	
			2018B1760	BL46XU	辻 伸泰	
			2017B1891	BL46XU	辻 伸泰	

高圧力の科学と技術 (The Review of High Pressure Science and Technology)

41821	Fumitoshi Iga	30 (2020) 298-308	2014B1384	BL10XU	加賀山 朋子	High Pressure Synthesis and Physical Properties under High Pressure of Topological Kondo Insulators YbB ₁₂ and SmB ₆
			2016A1299	BL10XU	加賀山 朋子	

特殊鋼 (The Special Steel)

41807	Hiroyuki Toda	67 (2018) 38-47	2013B1027	BL20XU	戸田 裕之	Reverse 4D Materials Engineering: Its Framework and Recent Evolution
			2013A1181	BL20XU	生貝 初	
			2012B1013	BL20XU	戸田 裕之	
			2012A1205	BL20XU	戸田 裕之	

塗装工学 (Journal of Japan Coating Technology Association)

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
42044	Shogo Suehiro	56 (2021) 204-210	2020A3057	BL24XU	末広 省吾	Three-Dimensional Observation of Automotive Coating Film by Synchrotron Radiation X-ray Ptychography

表面と真空 (Vacuum and Surface Science)

41724	Shuichi Ogawa	64 (2021) 218-223	2002B0634	BL23SU	高桑 雄二	Oxidation Reaction Kinetics on Transition Metal Surfaces Observed by Real-time Photoelectron Spectroscopy
			2003A0602	BL23SU	高桑 雄二	
			2003B0770	BL23SU	高桑 雄二	
			2004A0435	BL23SU	高桑 雄二	
			2004B0633	BL23SU	高桑 雄二	
			2017B3836	BL23SU	小川 修一	
			2018A3836	BL23SU	小川 修一	
			2018B3836	BL23SU	小川 修一	
			2019A3836	BL23SU	小川 修一	
			2019B3801	BL23SU	吉越 章隆	

ふえらむ (Bulletin of the Iron and Steel Institute of Japan)

41806	Hiroiyuki Toda	25 (2020) 666-674	2015A0076	BL20XU	戸田 裕之	Recent Progress and Technological Trends in X-ray Computed Tomography
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博士論文 (京都大学)

41528	Rajeshwar Reddy Eleti	(2019)	2017B1891	BL46XU	辻 伸泰	Deformation Mechanisms and Microstructure Evolution in HfNbTaTiZr High Entropy Alloy during Thermo-mechanical Processing at Elevated Temperatures
			2018A1031	BL46XU	辻 伸泰	
			2018B1038	BL46XU	辻 伸泰	
			2018B1760	BL46XU	辻 伸泰	
41536	Shuhei Yoshida	(2021)	2019A1783	BL46XU	辻 伸泰	Microstructure and Mechanical Properties of Face-centered Cubic High/Medium Entropy Alloys: From a Viewpoint of Heterogeneity on Atomic-scale
			2019B1030	BL46XU	辻 伸泰	
			2020A1021	BL46XU	辻 伸泰	
			2020A1854	BL46XU	辻 伸泰	
			2018A1031	BL46XU	辻 伸泰	
			2018B1038	BL46XU	辻 伸泰	
			2018B1760	BL46XU	辻 伸泰	
			2019B1801	BL46XU	吉田 周平	
41537	Xiaodong Lan	(2021)	2018A1031	BL46XU	辻 伸泰	Effects of Grain Size and Mg Contents on Deformation Behavior and Strengthening Mechanisms in Al-Mg Alloys
			2018B1038	BL46XU	辻 伸泰	
			2018B1760	BL46XU	辻 伸泰	
			2019A1783	BL46XU	辻 伸泰	
			2019B1030	BL46XU	辻 伸泰	
			2020A1021	BL46XU	辻 伸泰	
41538	Suk Young Hwang	(2021)	2020A1854	BL46XU	辻 伸泰	Nature of Serration Behavior in High-Mn Austenitic Steel
			2018A1031	BL46XU	辻 伸泰	
			2018B1038	BL46XU	辻 伸泰	
			2018B1760	BL46XU	辻 伸泰	
			2019A1783	BL46XU	辻 伸泰	
			2019B1030	BL46XU	辻 伸泰	
			2020A1021	BL46XU	辻 伸泰	
			2020A1854	BL46XU	辻 伸泰	

博士論文 (九州大学)

41519	Kakeru Ninomiya	(2021)	2016B1329	BL27SU	西堀 麻衣子	Study on the Structure and Formation Mechanism of Nanoclusters in Metals by Synchrotron Radiation X-ray Spectroscopy and Spectral Simulation
			2017A1799	BL05XU	西堀 麻衣子	
			2017B1434	BL27SU	高田 健	
			2017B1568	BL28B2	西堀 麻衣子	
			2018B1487	BL28B2	西堀 麻衣子	
			2019A1407	BL28B2	西堀 麻衣子	
			2019B1612	BL28B2	西堀 麻衣子	
			2019B1433	BL37XU	西堀 麻衣子	
			2020A0608	BL37XU	西堀 麻衣子	
			2020A7479	BL07LSU	西堀 麻衣子	
			2020A1405	BL28B2	西堀 麻衣子	
41621	Xuzhu Gao	(2018)	2017A2567	BL26B1	中島 崇	Structural Insight into Ribonuclease P (RNase P) from the Hyperthermophilic Archaeon <i>Pyrococcus horikoshii</i> OT3

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
41598	Daichi Yoshii	(2021)	2020A1803	BL14B2	山口 和也	Studies on the Development of Organic Reactions Involving C-H Bond Conversion Using Supported Metal Catalysts
			2019B1820	BL14B2	山口 和也	
41626	Yoko Takeo	(2021)	2017B1045	BL25SU	三村 秀和	Development of Soft X-ray Reflective Focusing System Based on Wavefront Measurements
			2018A1005	BL25SU	三村 秀和	
			2018B1032	BL25SU	三村 秀和	

博士論文 (École Polytechnique)

41699	Gabriel Rigon	(2021)	2019A8037	BL3	Koenig Michel	Hydrodynamic Instabilities : Laboratory Astrophysics and High Resolution X-ray Diagnostics
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博士論文 (University of Gothenburg)

41666	Cecilia Safari	(2019)	2017B8043	BL2	Neutze Richard	Microcrystallization in Lipidic Cubic Phase and Serial Crystallography Studies of Cytochrome c Oxidase
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博士論文 (崇城大学)

41972	Anna Nagai	(2021)	2020A0841	BL40B2	永井 杏奈	Research on Molecular Encapsulation and Reaction in Cyclodextrin-based Metal-organic Framework
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博士論文 (山梨大学)

41518	Yu Kakizawa	(2021)	2016A1759	BL46XU	犬飼 潤治	Spatially and Temporally Resolved Mass Distribution in PEMFCs Studied by Operando Analytical Methods
			2018A1561	BL46XU	犬飼 潤治	

課題以外の成果として登録された論文

Journal of Molecular Biology

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
41610	Ryo Natsume	336 (2004) 409-419		BL41XU	Crystal Structure of a γ -Butyrolactone Autoregulator Receptor Protein in <i>Streptomyces coelicolor</i> A3(2)
41655	Tetsuji Okada	342 (2004) 571-583		BL41XU	The Retinal Conformation and its Environment in Rhodopsin in Light of a New 2.2 Å Crystal Structure
41691	Wataru Adachi	343 (2004) 785-795		BL44XU	Crystal Structure of Family GH-8 Chitinase with Subclass II Specificity from <i>Bacillus</i> sp. K17
41731	Yasuo Shikamoto	350 (2005) 735-743		BL41XU	Crystal Structure of a CRISP Family Ca^{2+} -channel Blocker Derived from Snake Venom
42008	Ping Sun	353 (2005) 1093-1105		BL44XU	Crystal Structures of an Intein from the Split <i>dnaE</i> Gene of <i>Synechocystis</i> sp. PCC6803 Reveal the Catalytic Model Without the Penultimate Histidine and the Mechanism of Zinc Ion Inhibition of Protein Splicing

Nucleic Acids Research

41690	Jiro Kondo	32 (2004) 2541-2549		BL44XU	Crystal Structures of a DNA Octaplex with A-motif of G-quartets and its Splitting into Two Quadruplexes Suggest a Folding Mechanism of Eight Tandem Repeats
41734	Shigeki Arai	33 (2005) 3017-3024		BL41XU	Complicated Water Orientations in the Minor Groove of the B-DNA Decamer d(CCATTAATGG) ₂ Observed by Neutron Diffraction Measurements
41925	Yasuo Tsunaka	33 (2005) 3424-3434		BL41XU	Alteration of the Nucleosomal DNA Path in the Crystal Structure of a Human Nucleosome Core Particle

Structure

41654	Mark Bartlam	12 (2004) 1481-1488		BL41XU	Crystal Structure of an Acylpeptide Hydrolase/Esterase from <i>Aeropyrum pernix</i> K1
41703	Tatsuya Nishino	13 (2005) 1183-1192		BL38B1	Structural and Functional Analyses of an Archaeal XPF/Rad1/Mus81 Nuclease: Asymmetric DNA Binding and Cleavage Mechanisms
				BL41XU	
41729	Hideaki Ogata	13 (2005) 1635-1642		BL40B2	Activation Process of [NiFe] Hydrogenase Elucidated by High-Resolution X-Ray Analyses: Conversion of the Ready to the Unready State
				BL41XU	
				BL44B2	

Biochemical and Biophysical Research Communications

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
41606	Hisanori Takagi	319 (2004) 787-794		BL41XU	Crystal Structure of the Ribonuclease P Protein Ph1877p from Hyperthermophilic archaeon <i>Pyrococcus horikoshii</i> OT3
41645	Yoshimitsu Kakuta	319 (2004) 725-732		BL41XU	Crystal Structure of the Regulatory Subunit of Archaeal Initiation Factor 2B (aIF2B) from Hyperthermophilic Archaeon <i>Pyrococcus horikoshii</i> OT3: a Proposed Structure of the Regulatory Subcomplex of Eukaryotic IF2B

Journal of Synchrotron Radiation

41583	Umeharu Ohto	11 (2004) 105-108		BL38B1	Crystal Structure of a Humanized Fab Fragment of Anti-Tissue-Factor Antibody in Complex with Tissue Factor
41696	Jiro Kondo	11 (2004) 117-120		BL44XU	X-ray Analyses of d(GCGAXAGC) Containing G and T at X: the Base-Intercalated Duplex is Still Stable even in Point Mutants at the Fifth Residue

Physical Review B

41802	Ryusuke Misawa	103 (2021) 174409	理研	BL17SU	Chirality and Magnetic Quadrupole Order in Pb(TiO)Cu ₄ (PO ₄) ₄ Probed by Interference Scattering in Resonant X-ray Diffraction
42027	Kento Katagiri	101 (2020) 184106	XFEL		Optical Properties of Shock-compressed Diamond up to 550 GPa

Acta Crystallographica Section D

41926	Yu Kitago	61 (2005) 1013-1021		BL41XU	Structure Determination of a Novel Protein by Sulfur SAD using Chromium Radiation in Combination with a New Crystal-Mounting Method
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Bioscience, Biotechnology, and Biochemistry

41609	Kazumi Kimura	68 (2004) 1748-1757		BL41XU	Amino Acids Conserved at the C-Terminal Half of the Ribonuclease T2 Family Contribute to Protein Stability of the Enzymes
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Faraday Discussions

42056	Carmila Bacellar Cases da Silveira	228 (2021) 312-328	XFEL		Femtosecond X-ray Spectroscopy of Haem Proteins
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IUCrJ

41723	Jonas Beyer	8 (2021) 387-394	理研	BL44B2	Synchrotron Total-scattering Data Applicable to Dual-space Structural Analysis
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Japanese Journal of Applied Physics

41915	Takao Asaka	60 (2021) 017001	加速器		Transparent-grid Scheme for Generating Cathode-Emittance-Dominated Beams in a Gridded Thermionic Gun
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Journal of Alloys and Compounds

41631	Keiji Itoh	770 (2019) 350-355		BL04B2	Free Volume Distribution and Structural Inhomogeneity in Ni ₅₀ V ₅₀ Amorphous Alloy
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The Journal of Biological Chemistry

41599	Ning Shi	279 (2004) 4962-4969		BL41XU	Structural Basis for the Specific Recognition of RET by the Dok1 Phosphotyrosine Binding Domain
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Journal of Non-Crystalline Solids

41916	Akihiro Yamada	499 (2018) 25-31		BL04B1	In-situ Observation of the Structural Change in MgO-B ₂ O ₃ -SiO ₂ Glass at High Pressure and the Permanent Structural Change
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The Journal of Physical Chemistry Letters

42025	Hideshi Uematsu	12 (2021) 5781-5788	理研	BL29XU	Visualization of Structural Heterogeneities in Particles of Lithium Nickel Manganese Oxide Cathode Materials by Ptychographic X-ray Absorption Fine Structure
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Journal of Physics: Photonics

41739	V. Anand	3 (2021) 024002	装置&技術		All Femtosecond Optical Pump and X-ray Probe: Holey-axicon for Free Electron Lasers
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Measurement Science and Technology

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
41687	Chao Zhang	32 (2021) 075009	加速器		Magnet Alignment Monitoring System with Eigenfrequency-based Wire Sag Correction

Optics Express

41664	Shuntaro Takazawa	29 (2021) 14394-14402	装置&技術	BL29XU	Demonstration of Single-Frame Coherent X-ray Diffraction Imaging using Triangular Aperture: Towards Dynamic Nanoimaging of Extended Objects
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Proceedings of the National Academy of Sciences of the United States of America

41601	Beili Wu	101 (2004) 8348-8353		BL41XU	3D Structure of Human FK506-Binding Protein 52: Implications for the Assembly of the Glucocorticoid Receptor/Hsp90/Immunophilin Heterocomplex
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RNA

41584	Tomoyuki Numata	10 (2004) 1423-1432		BL38B1	Crystal Structure of Archaeal Ribonuclease P Protein Ph1771p from <i>Pyrococcus horikoshii</i> OT3: An Archaeal Homolog of Eukaryotic Ribonuclease P protein Rpp29
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Solvent Extraction Research and Development, Japan

41693	Hao Wu	28 (2021) 69-77		BL11XU	Complexation Studies of Eu(III) by a Novel Soft N and Hard O Donor Combined Ligand Including <i>N,N,N,N</i> -tetrakis(2-pyridylmethyl)-1,3-diaminopropane-2-amide Structure: UV-vis Titration, X-ray Crystallography, EXAFS Spectroscopy Analysis
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