

最近 SPring-8 もしくは SACLA から発表された成果リスト

公益財団法人高輝度光科学研究センター
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、2020 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 2020 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
Scientific Reports	9	Journal of Applied Physics	4
Physical Review B	8	Journal of Materials Chemistry A	4
Japanese Journal of Applied Physics	7	Chemical Communications	4
Nature Communications	7	Journal of Physics: Condensed Matter	4
Inorganic Chemistry	5	Physica Status Solidi B	4
The Journal of Physical Chemistry C	5		

他全 136 誌、計 239 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
40705	Nobuhiko Takeichi	10 (2020) 16918	2017B1013	BL04B2	竹市 信彦	Local Structure and Electrochemical Performances of Sulfurized Polyethylene Glycol after Heat Treatment
40712	Keiichiro Imura	10 (2020) 17116	2017B4261	BL12XU	井村 敬一郎	Concomitant Singularities of Yb-valence and Magnetism at a Critical Lattice Parameter of Icosahedral Quasicrystals and Approximants
			2018B4257	BL12XU	井村 敬一郎	
			2019A4262	BL12XU	井村 敬一郎	
			2019B4251	BL12XU	井村 敬一郎	
40731	Hirokazu Masai	10 (2020) 11615	2016A0130	BL01B1	小原 真司	Photocatalytic Hydrogen Generation of Monolithic Porous Titanium Oxide-Based Glass-Ceramics
			2017B1577	BL14B2	正井 博和	
40758	Takuya Yoshida	10 (2020) 7623	2017A2589	BL38B1	中村 昇太	Structural Basis for PPAR α Activation by 1H-pyrazolo-[3,4-b]pyridine Derivatives
			2018A2553	BL38B1	中村 昇太	
			2019A2570	BL26B1	中村 昇太	
40833	Haruka Sugijura	10 (2020) 18691	2016A2574	BL38B1	橋本 渉	Bacterial Inducible Expression of Plant Cell Wall-binding Protein YesO through Conflict between <i>Glycine max</i> and Saprophytic <i>Bacillus subtilis</i>
			2017A2547	BL26B1	三上 文三	
			2017A2592	BL38B1	橋本 渉	
40935	Hikaru Miyagi	10 (2020) 11669	2013B1092	BL32XU	浅田 秀基	The Discovery of a New Antibody for BRIL-fused GPCR Structure Determination
			2014B1355	BL32XU	浅田 秀基	
			2015A1044	BL32XU	浅田 秀基	
40937	Kentaro Ihara	10 (2020) 19305	2017A8019	BL3	岩田 想	Isoprenoid-chained Lipid EROCO $C_{17:4}$: a New Matrix for Membrane Protein Crystallization and a Crystal Delivery Medium in Serial Femtosecond Crystallography
40963	Hideharu Yukitake	10 (2020) 21109	2014B1478	BL41XU	今田 勝巳	PorA, a Conserved C-terminal Domain-containing Protein, Impacts the PorXY-SigP Signaling of the Type IX Secretion System
			2016A2539	BL41XU	今田 勝巳	
41014	Daiki Shiratori	10 (2020) 21403	2019A1082	BL01B1	正井 博和	Oxidation Suppression of Cu in Alkaline Aluminophosphate Glass and the Effects for Radiation-Induced Luminescence Characteristics
			2019B1562	BL01B1	正井 博和	

Physical Review B

40715	Hitoshi Yamaoka	102 (2020) 155118	2018A4257	BL12XU	山岡 人志	Electronic Structures of Bi $_2$ Se $_3$ and Ag $_x$ Bi $_2$ Se $_3$ under Pressure Studied by High-Resolution X-ray Absorption Spectroscopy and Density Functional Theory Calculations
			2018B4251	BL12XU	山岡 人志	
			2019A4266	BL12XU	山岡 人志	
			2019B4269	BL12XU	山岡 人志	
40759	Risa Miyakaze	102 (2020) 014419	2017B1969	BL25SU	小谷 佳範	Voltage-Controlled Magnetic Anisotropy in an Ultrathin Nickel Film Studied by <i>Operando</i> X-ray Magnetic Circular Dichroism Spectroscopy
			2017B1003	BL25SU	鈴木 義茂	
			2017A1201	BL25SU	三輪 真嗣	
40767	Kohei Yamagami	102 (2020) 165145	2018A7558	BL07LSU	山神 光平	Localized Character of Charge Excitations for La $_{2-x}$ Sr $_x$ NiO $_{4+\delta}$ Revealed by Oxygen <i>K</i> -edge Resonant Inelastic X-ray Scattering
40839	Eiji Nishibori	102 (2020) 201106	2015A1573	BL02B1	関 真一郎	Structural Analysis of High-Pressure Phase for Skyrmion-Hosting Multiferroic Cu $_2$ OSeO $_3$
			2016A0078	BL02B1	Iversen Bo	
40883	David Billington	102 (2020) 174405	2017B1243	BL25SU	Dugdale Stephen	Bulk and Element-Specific Magnetism of Medium-Entropy and High-Entropy Cantor-Wu Alloys
			2016A0131	BL08W	Duffy Jonathan	
40946	Jie Chen	102 (2020) 184418	2019B4500	BL15XU	山浦 一成	Enhanced Magnetization of the Highest- T_c Ferrimagnetic Oxide Sr $_2$ CrOsO $_6$
			2019A4501	BL15XU	辻本 吉廣	
			2018B4502	BL15XU	Belik Alexei	
40947	Tatsunori Yasuda	102 (2020) 205133	2017B1034	BL09XU	溝川 貴司	Interplay between Electronic Correlation and Atomic Disorder in a Low Carrier Density 4 <i>d</i> Transition-Metal Oxide
			2018A1012	BL09XU	溝川 貴司	
			2019B1574	BL47XU	溝川 貴司	
41037	Satoshi Tsutsui	102 (2020) 245150	2012B1080	BL35XU	光田 暁弘	Lattice Instability Coupled with Valence Degrees of Freedom in Valence Fluctuation Compound YbPd
			2013A1186	BL35XU	光田 暁弘	
			2013B1916	BL35XU	筒井 智嗣	
			2014B1079	BL08W	筒井 智嗣	
			2015A2036	BL35XU	筒井 智嗣	
			2017B1889	BL35XU	筒井 智嗣	
2018B2038	BL35XU	筒井 智嗣				

Japanese Journal of Applied Physics

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
40725	Artoni Kevin R. Ang	59 (2020) 100902	2017B7553	BL07LSU	林 好一	Time-resolved X-ray Photoelectron Diffraction using an Angle-Resolved Time-of-Flight Electron Analyzer
			2017A7529	BL07LSU	林 好一	
			2018A7570	BL07LSU	林 好一	
			2019A7454	BL07LSU	林 好一	
			2019B7463	BL07LSU	林 好一	
			2015A7486	BL07LSU	林 好一	
40905	Tatsunori Shibuya	59 (2020) 122004	2018B8042	BL1	錦野 将元	Ablation Threshold and Crater Morphology of Amorphous and Crystalline SiO ₂ Glass for Extreme Ultraviolet Femtosecond Pulses
			2018A8024	BL1	錦野 将元	
40956	Shigeru Sugiyama	59 (2020) 115505	2019A2540	BL41XU	杉山 成	Effect of Ultra-Fine Bubble Water on Protein Crystal Nucleation
			2019A2540	BL45XU	杉山 成	
			2019A6923	BL44XU	杉山 成	
			2019B6923	BL44XU	杉山 成	
40971	Kazuo Tsutsui	59 (2020) 010503	2018A1344	BL25SU	筒井 一生	Analyses of Three-dimensional Atomic Arrangements of Impurities Doped in Si Relating to Electrical Activity by Spectro-Photoelectron Holography
			2018B1217	BL25SU	筒井 一生	
			2019B1301	BL25SU	筒井 一生	
			2016A1261	BL25SU	筒井 一生	
			2014B1819	BL25SU	筒井 一生	
40976	Kohtaro Eguchi	59 (2020) SPPD03	2016B3633	BL14B1	永田 肇	The Quenching Effects for Depolarization Temperature of (Bi _{0.5} Na _{0.5})TiO ₃ Ceramics with Mn Dopants
40977	Yuka Takagi	58 (2019) SLLD02	2017B3633	BL14B1	永田 肇	Relation between Lattice Distortion and Depolarization Temperature in Quenched (Bi _{0.5} Na _{0.5})TiO ₃ -(Bi _{0.5} Li _{0.5})TiO ₃ -(Bi _{0.5} K _{0.5})TiO ₃ Ceramics
41018	Shigeru Sugiyama	60 (2021) 015506	2017A2516	BL26B1	杉山 成	Growth of Protein Crystals in High-Strength Hydrogels with the Dialysis Membrane
			2018B6824	BL44XU	杉山 成	
			2019A2509	BL32XU	鈴木 健司	
			2019A2509	BL41XU	鈴木 健司	
			2019A2509	BL45XU	鈴木 健司	
			2019B6923	BL44XU	杉山 成	
			2019A2540	BL45XU	杉山 成	
			2019A2540	BL41XU	杉山 成	
			2020A6522	BL44XU	杉山 成	
			2018A2509	BL38B1	杉山 成	

Nature Communications

40681	Kohji Murase	11 (2020) 4916	2019A2568	BL41XU	村瀬 浩司	Mechanism of Self/Nonself-Discrimination in <i>Brassica</i> Self-Incompatibility
			2015A6549	BL44XU	森 智行	
			2015B6549	BL44XU	森 智行	
			2016A2519	BL41XU	平野 良憲	
			2017A6759	BL44XU	森 智行	
			2017B6759	BL44XU	森 智行	
			2018A2529	BL41XU	村瀬 浩司	
40873	Yoshihiko Okamoto	11 (2020) 3144	2017B1394	BL02B1	澤 博	Regular-Triangle Trimer and Charge Order Preserving the Anderson Condition in the Pyrochlore Structure of CsW ₂ O ₆
			2017B1398	BL02B2	澤 博	
40912	Takafumi Yamamoto	11 (2020) 5923	2016B1061	BL02B2	山本 隆文	Strain-Induced Creation and Switching of Anion Vacancy Layers in Perovskite Oxynitrides
			2015B1111	BL02B2	山本 隆文	
40913	Xue Huang	11 (2020) 5241	2019A2533	BL41XU	Wang Yanli	Structural Basis for Two Metal-Ion Catalysis of DNA Cleavage by Cas12c
40933	Rie Umeda	11 (2020) 1606	2015A1057	BL32XU	西澤 知宏	Structural Insights into Tetraspanin CD9 Function
			2016A2527	BL32XU	石谷 隆一郎	
40936	Yuki Shimura	11 (2020) 4160	2017A2524	BL32XU	岩田 想	Structure of an Antagonist-Bound Ghrelin Receptor Reveals Possible Ghrelin Recognition Mode
40968	Yuya Shinohara	11 (2020) 6213	2018B8041	BL3	篠原 佑也	Split-pulse X-ray Photon Correlation Spectroscopy with Seeded X-rays from X-ray Laser to Study Atomic-Level Dynamics
			2019A8043	BL3	篠原 佑也	
			2019B8011	BL3	篠原 佑也	

Inorganic Chemistry-1

40824	Anna Carissa San Esteban	59 (2020) 14847-14851	2018B1296	BL02B2	吉成 信人	Dimensional Structures and Electrocatalytic Activities of Platinum(II)-Palladium(II)-Manganese(II) Coordination Polymers Controlled by Chloride versus Bromide
40825	Sasikam Hanprasit	59 (2020) 15788-15795	2019B1107	BL02B2	吉成 信人	A Dynamic Combinatorial Library of Cyclic Au ₂ Ni ^{II} Complexes with Cysteine/Penicillamine Showing Solvent-Controlled Crystallization
			2019B1108	BL02B1	吉成 信人	

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
40834	Shun Sakaida	59 (2020) 16819-16823	2017A1415	BL13XU	北川 宏	Crystal Size Effect on the Spin-Crossover Behavior of {Fe(py) ₂ [Pt(CN) ₄] (py = Pyridine) Monitored by Raman Spectroscopy
			2018A1428	BL02B2	大坪 主弥	
			2019A1132	BL02B2	大坪 主弥	
40920	Kazuhiko Mukai	59 (2020) 11113-11121	2019A7037	BL33XU	宇山 健	Revisiting LiCoO ₂ Using a State-of-the-Art <i>In Operando</i> Technique
			2019B7037	BL33XU	宇山 健	
40982	Kazuhiko Mukai	59 (2020) 16882-16892	2019B7037	BL33XU	宇山 健	Operando X-ray Diffraction and Double-Edge X-ray Absorption Spectroscopy Studies on a Perfect Zero-Strain Material

The Journal of Physical Chemistry C

40851	Shun Tsunekawa	124 (2020) 23611-23618	2015B1082	BL01B1	吉田 真明	<i>Operando</i> Observations of a Manganese Oxide Electrocatalyst for Water Oxidation Using Hard/Tender/Soft X-ray Absorption Spectroscopy
			2017B1082	BL01B1	吉田 真明	
			2019A1386	BL01B1	吉田 真明	
40857	Masatsugu Oishi	124 (2020) 24081-24089	2017B1307	BL04B2	大石 昌嗣	Disordered Cubic Spinel Structure in the Delithiated Li ₂ MnO ₃ Revealed by Difference Pair Distribution Function Analysis
			2016B1953	BL04B2	尾原 幸治	
			2018A1172	BL04B2	大石 昌嗣	
40923	Masatomo Sumiya	124 (2020) 25282-25290	2016B3801	BL23SU	吉越 章隆	Dynamic Observation and Theoretical Analysis of Initial O ₂ Molecule Adsorption on Polar and m-Plane Surfaces of GaN
			2017A3801	BL23SU	吉越 章隆	
			2017A3834	BL23SU	角谷 正友	
			2017B3801	BL23SU	吉越 章隆	
			2018A3834	BL23SU	角谷 正友	
2019B3837	BL23SU	角谷 正友				
40943	Takuya Hosokai	124 (2020) 24919-24929	2019B1908	BL19B2	鶴田 諒平	H ₂ O-Induced Crystallization of Organic Luminescent Thin Films by Direct Film Storage in a High Vacuum
41003	Feilure Tuerxun	124 (2020) 28510-28519	2018A1024	BL27SU	内本 喜晴	Effect of Interaction among Magnesium Ions, Anion, and Solvent on Kinetics of the Magnesium Deposition Process
			2018A1025	BL27SU	内本 喜晴	
			2018B1028	BL27SU	内本 喜晴	
			2018B1031	BL27SU	内本 喜晴	
			2019A1021	BL27SU	内本 喜晴	
			2019A1022	BL27SU	内本 喜晴	
			2019B1022	BL27SU	内本 喜晴	
2019B1023	BL27SU	内本 喜晴				

Journal of Applied Physics

40698	Kiyosuke Noguchi	128 (2020) 133107	2017B3202	BL24XU	津坂 佳幸	Enhancement of L-band Optical Absorption in Strained Epitaxial Ge on Si-on-Quartz Wafer: Toward Extended Ge Photodetectors
			2017A3202	BL24XU	津坂 佳幸	
40703	Junichi Nomoto	128 (2020) 145303	2018A3838	BL23SU	野本 淳一	Chemical Trends of <i>n</i> -type Doping of Al, Ga, In, and Ti Donors for ZnO Polycrystalline Films Deposited by Direct-Current Magnetron Sputtering
			2020A1630	BL46XU	野本 淳一	
40734	Hirofumi Suto	128 (2020) 133903	2019B1683	BL25SU	喜々津 哲	Time-resolved Imaging of an Operating Hard-Disk-Drive Write Head using Nano-Beam X-ray Magnetic Circular Dichroism
			2018A1109	BL25SU	喜々津 哲	
			2019B2093	BL25SU	小谷 佳範	
			2017B0921	BL25SU	壬生 攻	
40743	Shinya Ota	127 (2020) 173901	2017B0921	BL01B1	壬生 攻	Extended X-ray Absorption Fine Structure Spectroscopy of Stretched Magnetic Films on Flexible Substrate

Journal of Materials Chemistry A

40823	Kazuki Ueda	8 (2020) 12319-12322	2019A1173	BL40B2	平井 智康	High-performance, Air-stable, <i>n</i> -type Thermoelectric Films from a Water-dispersed Nickel-ethenetetrathiolate Complex and Ethylene Glycol
			2019B1179	BL40B2	平井 智康	
40907	Ning Wang	8 (2020) 11043-11055	2017B1288	BL01B1	青木 芳尚	Mixed Proton-Electron-Oxide Ion Triple Conducting Manganite as an Efficient Cobalt-Free Cathode for Protonic Ceramic Fuel Cells
			2018B1112	BL01B1	青木 芳尚	
40993	Datong Zhang	9 (2021) 406-412	2016B1021	BL37XU	内本 喜晴	Understanding the Reaction Mechanism and Performances of 3d Transition Metal Cathodes for All-solid-state Fluoride Ion Batteries
			2017B1038	BL37XU	内本 喜晴	
41030	Naoki Matsui	8 (2020) 24685-24694	2017B1840	BL19B2	松井 直喜	The Effect of Cation Size on Hydride-ion Conduction in LnSrLiH ₂ O ₂ (Ln = La, Pr, Nd, Sm, Gd) Oxyhydrides
			2018B1724	BL02B2	松井 直喜	

Journal of Physics: Condensed Matter-1

40741	Noriyuki Kataoka	33 (2020) 035501	2019A3844	BL23SU	横谷 尚睦	Soft X-ray Irradiation Induced Metallization of Layered TiNCI
-------	------------------	---------------------	-----------	--------	-------	---

Journal of Physics: Condensed Matter-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
40922	K. Pussi	32 (2020) 485401	2017B1383	BL04B2	Kamali-Moghaddam Saeed	Structural Properties of PbTe Quantum Dots Revealed by High-Energy X-ray Diffraction
40958	Huan Li	32 (2020) 395704	2018B4140	BL12B2	久保園 芳博	Structure and Superconducting Properties of Multiple Phases of $(\text{NH}_3)_x\text{AE}_x\text{FeSe}$ (AE: Ca, Sr and Ba)
			2019A4131	BL12B2	久保園 芳博	
40960	Tong He	32 (2020) 465702	2017B4133	BL12B2	久保園 芳博	Superconductivity in $\text{Bi}_{2-x}\text{Sb}_x\text{Te}_3\text{Se}_y$ ($x = 1.0$ and $y = 2.0$) under Pressure
			2018A4132	BL12B2	久保園 芳博	
			2018B4140	BL12B2	久保園 芳博	
			2019A4131	BL12B2	久保園 芳博	

Physica Status Solidi B

40730	Hirokazu Masai	257 (2020) 2000186	2016A0130	BL04B2	小原 真司	Correlation between Structures and Physical Properties of Binary ZnO-P ₂ O ₅ Glasses
			2018B1239	BL01B1	正井 博和	
40737	Naoto Kitamura	257 (2020) 2000112	2018A1040	BL04B2	井手本 康	Local Structures in Disordered Rocksalt-Type Li ₃ NbO ₄ -Based Positive Electrode Materials for a Lithium-Ion Battery
			2018A1555	BL19B2	井手本 康	
			2019A1137	BL04B2	井手本 康	
			2017B1907	BL14B2	井手本 康	
40846	Shinya Hosokawa	257 (2020) 2000172	2018A1280	BL35XU	細川 伸也	Dynamics of an Anisotropic Metaphosphate LiNaKCsPO ₃ Glass by Inelastic X-Ray Scattering
			2016A1187	BL35XU	細川 伸也	
40847	Jens Rüdiger Stellhorn	257 (2020) 200310	2017A1227	BL39XU	細川 伸也	Local Structure of the Impurity Site in Nd:LaF ₃ by X-Ray Fluorescence Holography
			2018A4134	BL12B2	細川 伸也	

ACS Applied Materials & Interfaces

40826	Naoyuki Shibayama	12 (2020) 50187-50191	2020A1643	BL46XU	柴山 直之	Control of Molecular Orientation of Spiro-OMeTAD on Substrates
			2019A1719	BL46XU	柴山 直之	
			2019A1651	BL14B2	柴山 直之	
			2018B1868	BL46XU	柴山 直之	
			2018B1862	BL19B2	中村 唯我	
			2018B1855	BL46XU	柴山 直之	
			2018B1809	BL19B2	中村 唯我	
40908	Yusaku Magari	12 (2020) 47739-47746	2019B1746	BL47XU	曲 勇作	Record-High-Performance Hydrogenated In-Ga-Zn-O Flexible Schottky Diodes
			2018B1680	BL01B1	曲 勇作	
40967	Keita Sano	12 (2020) 44743-44753	2018B1787	BL14B2	村山 美乃	Optically Transparent Colloidal Dispersion of Titania Nanoparticles Storable for Longer than One Year Prepared by Sol/Gel Progressive Hydrolysis/Condensation

ACS Applied Nano Materials

40683	Taiki Hirakawa	3 (2020) 9097-9107	2019B1909	BL14B2	平川 大希	Multicomponent 3d Transition-Metal Nanoparticles as Catalysts Free of Pd, Pt, or Rh for Automotive Three-Way Catalytic Converters
			2019B1188	BL01B1	大山 順也	
40850	Ke-Hsuan Wang	3 (2020) 9528-9537	2017B1082	BL01B1	吉田 真明	Nanometer-Thick Nickel Oxide Films Prepared from Alanine-Chelated Coordination Complexes for Electrochromic Smart Windows
			2019A1386	BL01B1	吉田 真明	
40914	Takeshi Uyama	3 (2020) 10678-10690	2020A7037	BL33XU	宇山 健	Facile and Low-Temperature Synthesis of $\gamma\text{-Fe}_2\text{O}_3$ Nanoparticles with Thermally Stable Ferrimagnetism for Use in Magnetic Recording Tapes

Acta Materialia

40796	Te-Cheng Su	191 (2020) 24-42	2017B1523	BL20B2	Gourlay Christopher	Rheological Transitions in Semi-Solid Alloys: In-situ Imaging and LBM-DEM Simulations
40955	Yanxu Wang	196 (2020) 565-575	2015B4502	BL15XU	関戸 信彰	Continuous and Discontinuous Yielding Behaviors in Ferrite-Cementite Steels
41032	David Billington	205 (2021) 116517	2015A1326	BL02B2	上野 若菜	Relationship between the Microstructure, Local Magnetism and Coercivity in Ga-containing Nd-Fe-B Sintered Magnets
			2016B1024	BL02B2	廣澤 哲	
			2017A1010	BL02B2	廣澤 哲	
			2018A1009	BL02B2	廣澤 哲	
			2017A1869	BL25SU	小谷 佳範	
			2017B1015	BL25SU	廣澤 哲	
			2018A1014	BL25SU	廣澤 哲	

American Mineralogist-1

40764	Chie Kato	105 (2020) 917-921	2014A0080	BL10XU	廣瀬 敬	Stability of fcc Phase FeH to 137 GPa
-------	-----------	-----------------------	-----------	--------	------	---------------------------------------

American Mineralogist-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
40821	Ryoichi Nakada	105 (2020) 1695-1703	2017B1060	BL05XU	中田 亮一	Vanadium Micro-XANES Determination of Oxygen Fugacity in Olivine-Hosted Glass Inclusion and Groundmass Glasses of Martian Primitive Shergottite Yamato 980459
			2017B1854	BL05XU	中田 亮一	
			2018A1108	BL05XU	中田 亮一	
			2018A1759	BL05XU	中田 亮一	
40832	Yoichi Nakajima	105 (2020) 1752-1755	2018A1236	BL10XU	中島 陽一	New Pressure-induced Phase Transition to Co2Si-type Fe2P
			2019B1253	BL10XU	西 真之	

Chemical Communications

40868	Daisuke Yamaguchi	56 (2020) 9954-9957	2020A2056	BL43IR	池本 夕佳	Thermally Tunable Selective Formation of Self-Assembled Fibers into Two Orthogonal Directions in Oriented Liquid-Crystalline Smectic Templates
40875	Tomiko M. Suzuki	56 (2020) 15008-15011	2018A5371	BL16B2	磯村 典武	Electrochemical CO ₂ Reduction over Nanoparticles Derived from an Oxidized Cu-Ni Intermetallic Alloy
			2018B5371	BL16B2	磯村 典武	
			2018A5070	BL16XU	小坂 悟	
			2018B5070	BL16XU	小坂 悟	
40884	Yuto Suzuki	56 (2020) 13369-13372	2019A1161	BL40XU	久木 一朗	Hydrogen-Bonded Organic Frameworks of Twisted Polycyclic Aromatic Hydrocarbon
			2019B1134	BL40XU	久木 一朗	
			2020A1117	BL02B1	久木 一朗	

ECS Transactions

40886	Tomoya Hara	98 (2020) 125	2017B1311	BL47XU	重川 直輝	Nanostructural Investigation on GaAs/Indium Tin Oxide/Si Junctions for III-V-on-Si Hybrid Multijunction Cells
			2017A1005	BL47XU	重川 直輝	
41001	Gai Ogasawara	98 (2020) 481	2018A1796	BL19B2	横川 凌	Evaluation of Thermal Expansion Coefficient in Ge _{1-x} Sn _x Nanowire Using Reciprocal Space Mapping
			2019A1828	BL19B2	吉岡 和俊	
			2020A1748	BL19B2	吉岡 和俊	
41002	Kazutoshi Yoshioka	98 (2020) 473-480	2019A1773	BL14B2	吉岡 和俊	Evaluation of Temperature and Germanium Concentration Dependence of EXAFS Oscillations in Si-Rich Silicon Germanium Thin Films
			2019B1802	BL14B2	吉岡 和俊	

International Journal of Molecular Sciences

40840	Hyunggu Hahn	21 (2020) 8186	2017B6772	BL44XU	Kim Hyouon Sook	Structural Insight on Functional Regulation of Human MINERVA Protein
			2018A6865	BL44XU	Kim Hyouon Sook	
			2018B6865	BL44XU	Kim Hyouon Sook	
40892	Tadashi Satoh	20 (2019) 2231	2017B6712	BL44XU	加藤 晃一	Molecular and Structural Basis of the Proteasome α Subunit Assembly Mechanism Mediated by the Proteasome-Assembling Chaperone PAC3-PAC4 Heterodimer
			2018A6809	BL44XU	加藤 晃一	
			2018B6809	BL44XU	加藤 晃一	
40895	Saeko Yanaka	21 (2020) 147	2019A6910	BL44XU	加藤 晃一	On-Membrane Dynamic Interplay between Anti-GM1 IgG Antibodies and Complement Component C1q
			2019B6910	BL44XU	加藤 晃一	

The Journal of Physical Chemistry Letters

40795	Shuichi Ogawa	11 (2020) 9159-9164	2015A3802	BL23SU	吉越 章隆	Gas Barrier Properties of Chemical Vapor-Deposited Graphene to Oxygen Imparted with Sub-electronvolt Kinetic Energy
			2015B3801	BL23SU	吉越 章隆	
			2016B3801	BL23SU	吉越 章隆	
			2017A3801	BL23SU	吉越 章隆	
			2017B3801	BL23SU	吉越 章隆	
			2018A3801	BL23SU	吉越 章隆	
			2018B3801	BL23SU	吉越 章隆	
			2019A3801	BL23SU	吉越 章隆	
			2019A3836	BL23SU	小川 修一	
			2019B3801	BL23SU	吉越 章隆	
2020A3801	BL23SU	吉越 章隆				
40931	Bin-Bin Zhang	11 (2020) 2902-2909	2019B1056	BL02B2	Sun Hong-Tao	Antithermal Quenching of Luminescence in Zero-Dimensional Hybrid Metal Halide Solids
41021	Toshio Yamaguchi	12 (2021) 250-256	2012B3623	BL14B1	山口 敏男	Ion Solvation and Water Structure in an Aqueous Sodium Chloride Solution in the Gigapascal Pressure Range

Journal of Synchrotron Radiation-1

40818	Ichiro Inoue	27 (2020) 1720-1724	2018A8040	BL3	井上 伊知郎	Two-color X-ray Free-Electron Laser Consisting of Broadband and Narrowband Beams
			2018B8023	BL3	井上 伊知郎	
			2019A8021	BL3	井上 伊知郎	
41031	Ryo Mashita	28 (2021) 322-326	2017A1202	BL28B2	間下 亮	High-speed Rotating Device for X-ray Tomography with 10 ms Temporal Resolution
			2017B1406	BL28B2	間下 亮	
			2019B1593	BL28B2	間下 亮	

Journal of Synchrotron Radiation-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
41034	Marek Brancewicz	28 (2021) 188-195	2015A1129	BL08W	Brancewicz Marek	Electron Momentum Density of Hexagonal Zn Studied by High-resolution Compton Scattering

Journal of the Physical Society of Japan

40891	Shinichi Nakamura	89 (2020) 125001	2019B3583	BL11XU	中村 真一	Synchrotron Mössbauer Diffraction of Natural Iron Fe ₃ BO ₆
			2019A3583	BL11XU	中村 真一	
40928	Shota Nakamura	89 (2020) 024705	2018A4801	BL15XU	佐藤 仁	Heavy Fermion State of YbNi ₂ Si ₃ without Local Inversion Symmetry
			2018A4912	BL15XU	三村 功次郎	
			2018B4902	BL15XU	三村 功次郎	
40929	Yudai Ohmagari	89 (2020) 093701	2018B4800	BL15XU	佐藤 仁	Quantum Phase Transitions in an Yb-based Semiconductor YbCuS ₂ with an Effective Spin-1/2 Zigzag Chain
			2019B4909	BL15XU	三村 功次郎	

Physical Chemistry Chemical Physics

40757	Andrey S. Tverjanovich	22 (2020) 25560-25573	2017A1067	BL04B2	Bychkov Evgeny	Glassy GaS: Transparent and Unusually Rigid Thin Films for Visible to Mid-IR Memory Applications
40961	Yanan Wang	22 (2020) 23315-23322	2018B4140	BL12B2	久保園 芳博	Superconducting Behavior of BaTi ₂ Bi ₂ O and its Pressure Dependence
			2019A4131	BL12B2	久保園 芳博	
40984	Hirotsuke Matui	22 (2020) 28093-28099	2017B1852	BL37XU	石黒 志	Reversible Structural Transformation and Redox Properties of Cr-Loaded Iron Oxide Dendrites Studied by <i>in situ</i> XANES Spectroscopy
			2015A1125	BL37XU	石黒 志	
			2015A1599	BL37XU	石黒 志	
			2016B1330	BL37XU	唯 美津木	
			2018A1332	BL37XU	松井 公佑	
			2018B1343	BL37XU	石黒 志	

Physical Review Letters

40699	Chuanlong Lin	125 (2020) 155702	2019B1059	BL10XU	Tse John	Temperature- and Rate-Dependent Pathways in Formation of Metastable Silicon Phases under Rapid Decompression
			2019B4267	BL12XU	Tse John	
			2019A4273	BL12XU	Tse John	
40887	Takashi Kono	125 (2020) 216403	2019A1548	BL25SU	木村 昭夫	Visualizing Half-Metallic Bulk Band Structure with Multiple Weyl Cones of the Heusler Ferromagnet
40948	Matthijs Panman	125 (2020) 226001	2016A8037	BL3	Westenhoff Sebastian	Observing the Structural Evolution in the Photodissociation of Diiodomethane with Femtosecond Solution X-Ray Scattering

Protein Science

40709	Yota Fukuda	29 (2020) 1829-1835	2019B6943	BL44XU	福田 庸太	Structure of Cytochrome <i>b</i> ₅ Unique to Tardigrades
40880	Linda Juniar	29 (2020) 2538-2545	2019A6500	BL44XU	山下 栄樹	Structural Basis for Thioredoxin Isoform-Based Fine-Tuning of Ferredoxin-Thioredoxin Reductase Activity
40925	Tadayoshi Kanao	30 (2021) 328-338	2014B2000	BL26B2	金尾 忠芳	Reaction Mechanism of Tetrathionate Hydrolysis Based on the Crystal Structure of Tetrathionate Hydrolase from <i>Acidithiobacillus ferrooxidans</i>
			2015A1041	BL41XU	金尾 忠芳	
			2012A1812	BL41XU	金尾 忠芳	

RSC Advances

40959	Huan Li	10 (2020) 26682-26692	2018B4140	BL12B2	久保園 芳博	A New Protocol for the Preparation of Superconducting KBi ₂
			2019A4131	BL12B2	久保園 芳博	
40989	Yao Xiao	10 (2020) 39875-39880	2017B1037	BL27SU	内本 喜晴	<i>Operando</i> Soft X-ray Absorption Spectroscopic Study on Microporous Carbon-Supported Sulfur Cathodes
			2017A1025	BL27SU	内本 喜晴	
			2018A1025	BL27SU	内本 喜晴	
			2018B1031	BL27SU	内本 喜晴	
			2019A1021	BL27SU	内本 喜晴	
			2019B1023	BL27SU	内本 喜晴	
41026	Kazuhiko Mukai	10 (2020) 44756-44767	2019A7034	BL33XU	野中 敬正	High-pressure Synthesis of ε-FeOOH from β-FeOOH and its Application to the Water Oxidation Catalyst
			2020A7037	BL33XU	宇山 健	

ACS Applied Energy Materials-1

40906	Seongwoo Jeong	3 (2020) 1222-1234	2019A1561	BL37XU	青木 芳尚	Proton Pumping Boosts Energy Conversion in Hydrogen-Permeable Metal-Supported Protonic Fuel Cells
-------	----------------	-----------------------	-----------	--------	-------	---

ACS Applied Energy Materials-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
41035	Chen Liu	4 (2021) 810-818	2016B1517	BL37XU	山本 健太郎	Effect of Temperature on Oxygen Reduction Reaction Kinetics for Pd Core-Pt Shell Catalyst with Different Core Size
			2017A1456	BL37XU	山本 健太郎	
			2017B1043	BL37XU	今井 英人	
			2018A1019	BL37XU	今井 英人	

ACS Catalysis

40940	Congcong Li	10 (2020) 14624-14639	2019B1861	BL14B2	Li Congcong	Hydrodeoxygenation of Guaiacol to Phenol over Ceria-Supported Iron Catalysts
40996	Giorgio Caserta	10 (2020) 13890-13894	2017B1321	BL19LXU	Caserta Giorgio	<i>In Vitro</i> Assembly as a Tool to Investigate Catalytic Intermediates of [NiFe]-Hydrogenase
			2019A1201	BL09XU	Caserta Giorgio	

Acta Crystallographica Section D

40693	Akihito Ikeda	76 (2020) 993-1000	2019B6935	BL44XU	西野 達哉	The Crystal Structure of the Tetrameric Human Vasohibin-1-SVBP Complex Reveals a Variable Arm Region within the Structural Core
40707	Rakesh Maharjan	76 (2020) 521-530	2018B6844	BL44XU	福田 庸太	Crown-ether-mediated Crystal Structures of the Glycosyltransferase PaGT3 from <i>Phytolacca americana</i>

Applied Physics Express

40735	Hirofumi Suto	13 (2020) 043002	2017B0921	BL25SU	壬生 攻	Magnetization Manipulation Induced by Nonlocal Spin Injection from a Perpendicular Spin Polarizer: Nano-Beam X-ray MCD Study using an Order-Sorting-Aperture Collection Method
			2015B0901	BL07LSU	千葉 大地	
40975	Hajime Nagata	13 (2020) 061002	2017A3633	BL14B1	永田 肇	Correlation between Depolarization Temperature and Lattice Distortion in Quenched (Bi _{1/2} Na _{1/2})TiO ₃ -based Ceramics

Applied Physics Letters

40728	Yoko Takeo	117 (2020) 151104	2019B1758	BL25SU	竹尾 陽子	A Highly Efficient Nanofocusing System for Soft X Rays
			2019A2070	BL25SU	仙波 泰徳	
40817	Keiichi Omika	117 (2020) 171605	2016A1523	BL25SU	吹留 博一	Dynamics of Surface Electron Trapping of a GaN-based Transistors Revealed by Spatiotemporally Resolved X-ray Spectroscopy
			2016B1605	BL25SU	吹留 博一	

Carbohydrate Polymers

40952	Noriyuki Isobe	249 (2020) 116843	2019A1213	BL40B2	岩田 忠久	Primary Structure of Gum Arabic and its Dynamics at Oil/Water Interface
			理研	BL45XU		
40954	Noriyuki Isobe	89 (2012) 1298-1300	2010A1595	BL40B2	澤田 大輔	Mechanism of Cellulose Gelation from Aqueous Alkali-Urea Solution

Chemical Science-1

40921	Ayako Fujimoto	11 (2020) 12307-12315	2013A1219	BL02B1	内田 欣吾	Photoinduced Swing of a Diarylethene Thin Broad Sword Shaped Crystal: A Study on the Detailed Mechanism
			2014A1048	BL02B1	内田 欣吾	
			2014B1213	BL40B2	内田 欣吾	
			2015A1240	BL40B2	内田 欣吾	
			2015B1215	BL40B2	内田 欣吾	
			2016A1602	BL40B2	松本 宏紀	
			2017A1084	BL40XU	内田 欣吾	
			2017A1085	BL40B2	内田 欣吾	
			2017A1120	BL40XU	内田 欣吾	
			2017B1134	BL40XU	内田 欣吾	
			2017B1135	BL40B2	内田 欣吾	
			2017B1159	BL40XU	内田 欣吾	
			2018A1104	BL02B1	内田 欣吾	
			2018A1207	BL40B2	内田 欣吾	
			2018A1208	BL40XU	内田 欣吾	
			2018B1091	BL02B1	内田 欣吾	
			2018B1092	BL40XU	内田 欣吾	
			2018B1124	BL40B2	内田 欣吾	
			2018B1674	BL02B1	西村 涼	
			2019A1110	BL40XU	内田 欣吾	
2019A1403	BL40B2	内田 欣吾				
2019A1670	BL02B1	西村 涼				
2019B1077	BL40B2	内田 欣吾				
2020A1072	BL40B2	内田 欣吾				

Chemical Science-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
40995	Giorgio Caserta	(2020) Online published 11 Dec. 2020	2017B1321	BL19LXU	Caserta Giorgio	Hydroxy-bridged Resting States of a [NiFe]-Hydrogenase Unraveled by Cryogenic Vibrational Spectroscopy and DFT Computations
			2016B1316	BL19LXU	Lauterbach Lars	
			2017A1115	BL19LXU	Wang Hongxin	

Chemistry Letters

40781	Yuki Hishikawa	49 (2020) 840-844	2016B2718	BL26B1	安部 聡	Design of Multinuclear Gold Binding Site at the Two-fold Symmetric Interface of the Ferritin Cage
			2017A2571	BL26B1	上野 隆史	
			2018A2524	BL26B1	安部 聡	
40807	Taisuke Matsuno	50 (2021) 110-112	2018B1394	BL38B1	佐藤 宗太	A Case Study of Stereoisomerism with [6]Cyclo[4]helicenylenes
			2019B1125	BL26B1	佐藤 宗太	

Crystals

40697	Charith Jayathilaka	10 (2020) 609	2014B1434	BL04B2	Jayathilaka Charith	Enhancement of Solar Cell Performance of Electrodeposited Ti/n-Cu ₂ O/p-Cu ₂ O/Au Homojunction Solar Cells by Interface and Surface Modification
			2017B1539	BL04B2	Jayathilaka Charith	
40836	Shunsuke Kitou	10 (2020) 998	2009A0083	BL02B1	澤 博	Direct Observation of Molecular Orbitals Using Synchrotron X-ray Diffraction
			2019A0070	BL02B1	澤 博	

The FEBS Journal

40806	Sung-Min Kang	(2020) First published 8 Aug. 2020	2019B6972	BL44XU	Lee Bong Jin	Structure-based Design of Peptides that Trigger <i>Streptococcus pneumoniae</i> Cell Death
40980	Masayuki Miyake	287 (2020) 5114-5129	2014B2015	BL26B1	伏信 進矢	Structural Analysis of β -L-arabinobiose-binding Protein in the Metabolic Pathway of Hydroxyproline-rich Glycoproteins in <i>Bifidobacterium longum</i>
			2016B2714	BL26B1	伏信 進矢	
			2017A2540	BL26B1	伏信 進矢	
			2018A2528	BL26B2	伏信 進矢	

iScience

40766	Min Fey Chek	23 (2020) 101084	2015A1086	BL41XU	森 智行	Asymmetric Open-Closed Dimer Mechanism of Polyhydroxyalkanoate Synthase PhaC
			2015A6549	BL44XU	森 智行	
			2015B6549	BL44XU	森 智行	
			2016A2510	BL41XU	森 智行	
			2016A2519	BL41XU	平野 良憲	
			2016A6648	BL45XU	森 智行	
			2016B6648	BL45XU	森 智行	
			2017A2502	BL41XU	森 智行	
			2017A6759	BL44XU	森 智行	
			2017B6759	BL44XU	森 智行	
			2018A2529	BL41XU	村瀬 浩司	
			2018A2540	BL41XU	平野 良憲	
			2018A6855	BL44XU	森 智行	
			2018A2503	BL32XU	森 智行	
			2018B6855	BL44XU	森 智行	
			2019A2516	BL41XU	森 智行	
			2019A2576	BL45XU	平野 良憲	
2019A6955	BL44XU	森 智行				
2019B6955	BL44XU	森 智行				
2019B2727	BL41XU	Chek Min Fey				
40870	Shotaro Kamata	23 (2020) 101727	2020A2582	BL45XU	大山 拓次	PPAR α Ligand-Binding Domain Structures with Endogenous Fatty Acids and Fibrates
			2018A2558	BL38B1	大山 拓次	
			2017A2530	BL26B1	大山 拓次	

ISJ International

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
41008	Hideyuki Yasuda	60 (2020) 2755-2764	2017B1416	BL20XU	安田 秀幸	Transformation from Ferrite to Austenite during/after Solidification in Peritectic Steel Systems: an X-ray Imaging Study
			2018A1340	BL20XU	安田 秀幸	
			2018B1521	BL20XU	安田 秀幸	
			2019B1482	BL47XU	安田 秀幸	
			2019B1478	BL20XU	安田 秀幸	
			2018A1380	BL20XU	安田 秀幸	
			2017B1463	BL20XU	安田 秀幸	
			2019A1553	BL20B2	杉山 明	
41012	Tomohiro Nishimura	60 (2020) 930-938	2018A1322	BL20B2	杉山 明	Time-resolved and <i>In-situ</i> Observation of δ - γ Transformation during Unidirectional Solidification in Fe-C Alloys
			2018A1380	BL20XU	安田 秀幸	
			2017A1337	BL20XU	安田 秀幸	
			2016B1458	BL20XU	安田 秀幸	
			2017B1466	BL20B2	杉山 明	

Journal of Medicinal Chemistry

40726	Satoshi Endo	63 (2020) 10396-10411	2018B2710	BL41XU	入江 克雅	Development of Novel AKR1C3 Inhibitors as New Potential Treatment for Castration-Resistant Prostate Cancer
40981	Shan-Meng Lin	63 (2020) 3131-3141	2016B6600	BL44XU	Chen Chun Jung	Structure-Based Stabilization of Non-native Protein-Protein Interactions of Coronavirus Nucleocapsid Proteins in Antiviral Drug Design
			2017A6600	BL44XU	Chen Chun Jung	
			2017B6600	BL44XU	Chen Chun Jung	
			2018A6600	BL44XU	Chen Chun Jung	
			2018B6600	BL44XU	Chen Chun Jung	
			2019A6600	BL44XU	Chen Chun Jung	
2019B6600	BL44XU	Chen Chun Jung				

Journal of Solid State Chemistry

40858	Fumito Fujishiro	283 (2020) 121152	2017B1437	BL01B1	大石 昌嗣	Relationship between Oxygen Desorption and the Reduction Features of Mn and Fe in Perovskite-type $\text{SrFe}_{1-x}\text{Mn}_x\text{O}_{3-\delta}$
40962	Anucha Koedtruad	286 (2020) 121263	2019B1291	BL02B2	Amano-Patino Midori	Crystal Structures and Ionic Conductivity in Li_2OHX (X = Cl, Br) Antiperovskites
			2019B1757	BL02B2	譚 振宏	
			2018B1710	BL02B2	Koedtruad Anucha	

Journal of the American Ceramic Society

40694	Nico Gaida	104 (2021) 635-644	2019A0069	BL04B1	河野 義生	Elasticity of Nanocrystalline Kyanite at High Pressure and Temperature from Ultrasonic and Synchrotron X-ray Techniques
40729	Kosei Osada	103 (2020) 6755-6763	2019B1115	BL04B1	大内 智博	Transition in Deformation Mechanism of Aluminosilicate Glass at High Pressure and Room Temperature

Journal of the American Chemical Society

40692	Daiya Kobayashi	142 (2020) 17250-17254	2018A1376	BL02B2	小林 浩和	Significant Enhancement of Hydrogen Evolution Reaction Activity by Negatively Charged Pt through Light Doping of W
			2018B1501	BL02B2	小林 浩和	
			2019A1232	BL02B2	小林 浩和	
			2019B1468	BL02B2	小林 浩和	
40845	Toshihiro Okamoto	142 (2020) 14974-14984	2017B1049	BL02B1	竹谷 純一	Alkyl-Substituted Selenium-Bridged V-Shaped Organic Semiconductors Exhibiting High Hole Mobility and Unusual Aggregation Behavior
			理研	BL44B2		

Journal of the Ceramic Society of Japan

40950	Hirokazu Masai	128 (2020) 1038-1044	2015A1313	BL04B2	正井 博和	Relationship between the First Sharp Diffraction Peak and Physical Properties of Silicon Dioxide (SiO_2) Glasses Possessing Different Fictive Temperatures
40951	Kenji Shinozaki	128 (2020) 1030-1037	2017A1519	BL04B2	篠崎 健二	Photoluminescence and Structural Similarity of Crystals with Oxide-Fluoride Stacking Structure and Oxyfluoride Glass
			2017B1008	BL14B2	篠崎 健二	
			2016B1823	BL14B2	篠崎 健二	

Journal of the Electrochemical Society

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
40738	Naoya Ishida	167 (2020) 100547	2016B1859	BL19B2	井手本 康	Crystal Structures and Cathode Properties of Chemically and Electrochemically Delithiated $\text{Li}_x\text{Ni}_{0.5}\text{Mn}_{0.5}\text{O}_2$ with Applications to Mg Rechargeable Batteries
			2017A1578	BL19B2	井手本 康	
			2016B1852	BL14B2	井手本 康	
			2017A1573	BL14B2	井手本 康	
40983	Jun Maruyama	167 (2020) 160520	2017A1551	BL14B2	丸山 純	Double Coating of Iron-Containing Carbonaceous Thin Film for Enhanced Bifunctional Catalysis for Use in Air Electrodes

Macromolecules

40938	Hiroki Hamamoto	54 (2021) 488-498	2013B1071	BL40B2	山本 勝宏	Analysis of Homopolymer Distribution in a Polymer Blend Thin Film by Anomalous Grazing Incidence Small-Angle X-ray Scattering at the Bromine K-Edge
			2017A7213	BL03XU	宮崎 司	
			2017B7265	BL03XU	宮崎 司	
			2018A7215	BL03XU	宮崎 司	
40970	Nattanee Dechnarong	53 (2020) 8901-8909	2019A7235	BL03XU	山本 勝宏	<i>In Situ</i> Synchrotron Radiation X-ray Scattering Investigation of a Microphase-Separated Structure of Thermoplastic Elastomers under Uniaxial and Equi-Biaxial Deformation Modes
			2018B1035	BL40XU	高原 淳	
			2019A1015	BL40XU	高原 淳	
			2019B1011	BL40XU	高原 淳	
			2020A1007	BL40XU	高原 淳	

Materials Transactions

40985	Nobuhisa Fujita	(2020) Online publication Dec. 4, 2020	2015A4901	BL15XU	藤田 伸尚	A Unified Geometrical Framework for Face-Centered Icosahedral Approximants in Al-Pd-TM (TM = Transition Metal) Systems
			2016A4900	BL15XU	藤田 伸尚	
			2017A4901	BL15XU	藤田 伸尚	
41013	Keita Nakano	61 (2020) 596-604	2019A1393	BL20B2	安田 秀幸	Characterization of Growing Dendrites in CrMnFeCoNi High-Entropy Alloy by Time-Resolved and <i>In-Situ</i> Tomography
			2017B1520	BL28B2	安田 秀幸	
			2017A1337	BL20XU	安田 秀幸	

Molecules

40794	Siti Nor Hasmah Ishak	25 (2020) 3430	2017B6774	BL44XU	Raja Abd Rahman Raja Noor Zaliha	Ion-Pair Interaction and Hydrogen Bonds as Main Features of Protein Thermostability in Mutated T1 Recombinant Lipase Originating from <i>Geobacillus zalihae</i>
40872	Kengoh Nakanishi	25 (2020) 5253	2017A1707	BL19B2	仲西 賢剛	Mixing Ratio and Cooling Rate Dependence of Molecular Compound Formation in OPO/POP Binary Mixture

Physical Review Research

40756	Ryota Shimizu	2 (2020) 033467	2017B1319	BL13XU	清水 亮太	Polarity Reversal of the Charge Carrier in Tetragonal TiH_x ($x = 1.6 - 2.0$) at Low Temperatures
40835	Akihiko Ikeda	2 (2020) 043175	2019A8017	BL2	松田 康弘	Single Shot X-ray Diffractometry in SACLA with Pulsed Magnetic Fields up to 16 T

Polymer

40848	Yuta Chonan	213 (2021) 123201	2012A1107	BL40B2	松葉 豪	Crystal Morphology of Polyurea on Rapid Quenching
			2012B1701	BL40B2	辺見 幸大	
			2017B1108	BL40B2	松葉 豪	
			2018A1179	BL43IR	松葉 豪	
			2018B1156	BL43IR	松葉 豪	
			2019A1185	BL43IR	松葉 豪	
			2019B1066	BL43IR	松葉 豪	
40972	Hidekazu Tanaka	213 (2021) 123213	2018A1080	BL40B2	上原 宏樹	<i>In-situ</i> Analysis for Melt-Drawing Behavior of Ultra-High Molecular Weight Polyethylene / Normal Molecular Weight Polyethylene Blend Films

Solid State Ionics

40685	Xiao Gao	357 (2020) 115456	2018B1034	BL40B2	内本 喜晴	Substrate-Dependent Proton Transport and Nanostructural Orientation of Perfluorosulfonic Acid Polymer Thin Films on Pt and Carbon Substrate
			2019A1025	BL40B2	内本 喜晴	
			2019B1023	BL27SU	内本 喜晴	
			2019B1024	BL40B2	内本 喜晴	
40739	Naoya Ishida	354 (2020) 115413	2018A1555	BL19B2	井手本 康	Synthesis, Cathode Property and Crystal, Electronic and Local Structures of $\text{Mg}_2\text{Mo}_3\text{O}_8$ as Mg Rechargeable Battery Cathode Material
			2018B1777	BL19B2	井手本 康	
			2018A1577	BL14B2	井手本 康	
			2018A1040	BL04B2	井手本 康	

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
40792	Takefumi Yamashita	27 (2019) 519-527	2018A6850	BL44XU	溝端 栄一	Affinity Improvement of a Cancer-Targeted Antibody through Alanine-Induced Adjustment of Antigen-Antibody Interface
			2013A6854	BL44XU	溝端 栄一	
			2011A1394	BL32XU	溝端 栄一	
			2010B1512	BL38B1	溝端 栄一	
40932	Hidetsugu Asada	28 (2020) 418-425	2013B1092	BL32XU	浅田 秀基	The Crystal Structure of Angiotensin II Type 2 Receptor with Endogenous Peptide Hormone
			2014B1355	BL32XU	浅田 秀基	
			2015A1044	BL32XU	浅田 秀基	

ACS Applied Bio Materials

40831	Tomoki Nishimura	3 (2020) 8865-8871	2019B1104	BL40B2	西村 智貴	Biocatalytic Hybrid Films Self-Assembled from Carbohydrate Block Copolymers and Polysaccharides for Enzyme Prodrug Therapy
			2019B1105	BL40B2	西村 智貴	
			2019A7235	BL03XU	山本 勝宏	

ACS Earth and Space Chemistry

40987	Nozomi Kondo	4 (2020) 2281-2288	2019A1510	BL04B2	近藤 望	Interaction between Cerium and H ₂ O in Hydrated Rhyolitic Melts
			2019A2058	BL04B2	尾原 幸治	

ACS Energy Letters

40762	Hiroo Onuma	5 (2020) 2849-2857	2017B1585	BL46XU	駒場 慎一	Application of Ionic Liquid as K-Ion Electrolyte of Graphite/K ₂ Mn[Fe(CN) ₆] Cell
			2016A1536	BL46XU	駒場 慎一	

ACS Omega

41017	Yuto Ochiai	5 (2020) 33461-33469	2018A1794	BL46XU	落合 優登	The Effect of Alkyl Chain Length on Well-Defined Fluoro-Arylated Polythiophenes for Temperature-Dependent Morphological Transitions
-------	-------------	-------------------------	-----------	--------	-------	---

ACS Sustainable Chemistry & Engineering

40964	Jun-ichi Nishigaki	8 (2020) 10413-10422	2018B1787	BL14B2	村山 美乃	Oxidation of β-Nicotinamide Adenine Dinucleotide (NADH) by Au Cluster and Nanoparticle Catalysts Aiming for Coenzyme Regeneration in Enzymatic Glucose Oxidation
-------	--------------------	-------------------------	-----------	--------	-------	--

Acta Crystallographica Section F

41029	Yuki Nakamura	76 (2020) 616-622	2016B1970	BL41XU	水野 伸宏	Computer-controlled Liquid-nitrogen Drizzling Device for Removing Frost from Cryopreserved Crystals
			2017A2555	BL26B1	高島 成二	
			2019A2548	BL45XU	馬場 清喜	

Advances in Physics: X

40803	Hironobu Fukuzawa	5 (2020) 1785327	2012A8036	BL3	上田 潔	X-ray Induced Ultrafast Dynamics in Atoms, Molecules, and Clusters: Experimental Studies at an X-ray Free-Electron Laser Facility SACLA and Modelling
			2012B8045	BL3	上田 潔	
			2013B8058	BL3	上田 潔	
			2014A8040	BL3	上田 潔	
			2014B8057	BL3	上田 潔	
			2015A8056	BL3	上田 潔	
			2015B8057	BL3	上田 潔	
			2018A8038	BL3	上田 潔	
			2019A8045	BL3	福澤 宏宣	
2019B8035	BL3	福澤 宏宣				

Angewandte Chemie International Edition

40998	Yuki Shinno	59 (2020) 20099-20103	2018A0155	BL04B2	脇原 徹	Toward Efficient Synthesis of Chiral Zeolites: A Rational Strategy for Fluoride-Free Synthesis of STW-Type Zeolite
-------	-------------	--------------------------	-----------	--------	------	--

Applied and Environmental Microbiology

40791	Misugi Uraji	84 (2018) e02300-17	2017B6754	BL44XU	溝端 栄一	Loop of <i>Streptomyces</i> Feruloyl Esterase Plays an Important Role in the Enzyme's Catalyzing the Release of Ferulic Acid from Biomass
-------	--------------	------------------------	-----------	--------	-------	---

Applied Catalysis A: General

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
40965	Ayako Tatekoshi	585 (2019) 117169	2018B1787	BL14B2	村山 美乃	Oxidative Esterification of Aliphatic Aldehydes and Alcohols with Ethanol over Gold Nanoparticle Catalysts in Batch and Continuous Flow Reactors

Applied Sciences

40879	Yohei Uemura	10 (2020) 7818	2017B8020	BL3	朝倉 清高	Tracking the Local Structure Change during the Photoabsorption Processes of Photocatalysts by the Ultrafast Pump-Probe XAFS Method
			2017A8058	BL3	朝倉 清高	
			2015A8039	BL3	朝倉 清高	
			2016B8007	BL3	朝倉 清高	
			2014B8044	BL3	朝倉 清高	

Applied Surface Science

40678	Okkyun Seo	533 (2020) 147432	2017A4902	BL15XU	松田 晃史	Modifying the Crystal Structures of Fe ₂ O ₃ -doped NiO Epitaxial Thin Films Grown at Room Temperature by Controlling the Oxygen Partial Pressure
			2018A4900	BL15XU	松田 晃史	
			2018B4905	BL15XU	松田 晃史	
			2019A4904	BL15XU	唐 佳藝	
			2019B4900	BL15XU	唐 佳藝	
			2019B4902	BL15XU	松田 晃史	
			2018B4904	BL15XU	唐 佳藝	

Batteries and Supercaps

41007	Kazuhiro Hikima	(2020) Online publication 17 Nov. 2020	2012B1286	BL13XU	菅野 了次	Influence of Chemical Composition and Domain Morphology of Li ₂ MnO ₃ on Battery Properties
			2012A1615	BL46XU	菅野 了次	
			2013A3617	BL14B1	菅野 了次	
			2013B1530	BL46XU	菅野 了次	
			2014A1573	BL46XU	菅野 了次	
			2014B3623	BL14B1	菅野 了次	
			2015A1846	BL46XU	引間 和浩	
			2015A1574	BL13XU	菅野 了次	
			2015A3623	BL14B1	菅野 了次	
			2016A1675	BL46XU	引間 和浩	
2016B1768	BL46XU	引間 和浩				

Biochemical and Biophysical Research Communications

40986	Chiharu Sano	534 (2021) 286-291	2015A1073	BL38B1	日弁 隆雄	Mutagenesis and Structure-based Analysis of the Role of Tryptophan525 of γ -glutamyltranspeptidase from <i>Pseudomonas nitroreducens</i>
			2016B2705	BL38B1	日弁 隆雄	
			2017B2736	BL38B1	日弁 隆雄	

Biochemistry

40708	Rakesh Maharjan	59 (2020) 2551-2561	2018A6844	BL44XU	福田 庸太	An Ambidextrous Polyphenol Glycosyltransferase PaGT2 from <i>Phytolacca americana</i>
			2018B6844	BL44XU	福田 庸太	
			2017A6745	BL44XU	福田 庸太	
			2017B6745	BL44XU	福田 庸太	

Cellulose

40953	Noriyuki Isobe	21 (2014) 1043-1050	2010A1595	BL40B2	澤田 大輔	Origin of Hydrophilicity of Cellulose Hydrogel from Aqueous LiOH/Urea Solvent Coagulated with Alkyl Alcohols
-------	----------------	---------------------	-----------	--------	-------	--

ChemElectroChem

40910	Yadan Ren	8 (2021) 70-76	2017B1918	BL19B2	内山 智貴	The Effect of Cation Mixing in LiNiO ₂ toward the Oxygen Evolution Reaction
			2017B1919	BL14B2	内山 智貴	
			2017B1555	BL37XU	内山 智貴	
			2017B1451	BL02B2	内山 智貴	
			2018A1592	BL19B2	内山 智貴	
			2019A1796	BL19B2	松永 利之	
			2019A1812	BL19B2	松永 利之	

Chemisphere

40974	Kouhei Tokunaga	266 (2021) 129104	2019A1138	BL01B1	徳永 紘平	Effective Removal of Iodate by Coprecipitation with Barite: Behavior and Mechanism
-------	-----------------	-------------------	-----------	--------	-------	--

Chemistry - A European Journal

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
41016	Yuto Suzuki	26 (2020) 17056-17062	2018B1244	BL40XU	久木 一朗	Triaxially Woven Hydrogen-Bonded Chicken Wires of a Tetrakis(carboxybiphenyl)ethene
			2019A1161	BL40XU	久木 一朗	
			2019A1192	BL02B1	久木 一朗	

Chemistry - An Asian Journal

40997	Naomichi Hikichi	15 (2020) 2029-2034	2018A0155	BL04B2	脇原 徹	Superior Ion-exchange Property of Amorphous Aluminosilicates Prepared by a Co-precipitation Method
-------	------------------	------------------------	-----------	--------	------	--

Chemistry of Materials

40763	Kei Kubota	32 (2020) 2961-2977	2013B1745	BL04B2	駒場 慎一	Structural Analysis of Sucrose-Derived Hard Carbon and Correlation with the Electrochemical Properties for Lithium, Sodium, and Potassium Insertion
-------	------------	------------------------	-----------	--------	-------	---

ChemistryOpen

40742	Mina Sakuragi	9 (2020) 953-958	2018A1367	BL40XU	櫻木 美菜	Penetration Process of a Hydrated Deep Eutectic Solvent Through the Stratum Corneum and its Application as a Protein Penetration Enhancer
			2019A1225	BL40B2	櫻木 美菜	

ChemNanoMat

40934	Yuya Tanimura	6 (2020) 1635-1640	2019A1225	BL40B2	櫻木 美菜	Self-assembly of Soluble Nanoarchitecture using Hybrids of Diblock Copolypeptide Amphiphiles with Copper Rubeanate Hydrates in Water and Their Electrooxidation Reaction
-------	---------------	-----------------------	-----------	--------	-------	--

ChemSusChem

40885	Donglin Han	14 (2020) 614-623	2019A5330	BL16B2	後藤 和宏	Proton Conductive BaZr _{0.8-x} Ce _x Y _{0.2} O _{3-δ} : Influence of NiO Sintering Additive on Crystal Structure, Hydration Behavior, and Conduction Properties
-------	-------------	----------------------	-----------	--------	-------	---

CrystEngComm

40856	Okky D. Putra	22 (2020) 7272-7279	2016B4904	BL15XU	植草 秀裕	Structural Origin of Physicochemical Properties Differences upon Dehydration and Polymorphic Transformation of Ciprofloxacin Hydrochloride Revealed by Structure Determination from Powder X-ray Diffraction Data
-------	---------------	------------------------	-----------	--------	-------	---

Electrochemistry

40828	Kazuhide Kamiya	88 (2020) 486-496	2015B1174	BL01B1	神谷 和秀	Development of Robust Electrocatalysts Comprising Single-atom Sites with Designed Coordination Environments
			2016A1464	BL01B1	神谷 和秀	
			2017A1790	BL14B2	岩瀬 和至	
			2018A1349	BL01B1	原田 隆史	
			2019A1394	BL01B1	神谷 和秀	
			2019B1159	BL01B1	神谷 和秀	

Electrochimica Acta

40800	Benoît Denis Louis Campéon	363 (2020) 137257	2019A1778	BL46XU	Campeon Benoit	Sophisticated rGO Synthesis and Pre-Lithiation Unlocking Full-Cell Lithium-Ion Battery High-Rate Performances
-------	----------------------------	----------------------	-----------	--------	----------------	---

Geophysical Research Letters

40815	Masayuki Nishi	47 (2020) e2020GL089616	2019B1253	BL10XU	西 真之	Chemical Reaction Between Metallic Iron and a Limited Water Supply Under Pressure: Implications for Water Behavior at the Core-Mantle Boundary
-------	----------------	----------------------------	-----------	--------	------	--

Inorganics

40939	Masahiro Tsukao	7 (2019) 109	2018A1167	BL40XU	笹森 貴裕	Propeller-Shaped Aluminum Complexes with an Azaperylene Core in the Ligands
			2018B1668	BL02B1	菅原 知敏	
			2019A1677	BL02B1	鈴木 文陽	
			2019A1057	BL02B1	笹森 貴裕	
			2017B1179	BL40XU	笹森 貴裕	

International Journal of Electrochemical Science

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
40689	Chia-Chin Chang	13 (2018) 11762-11776	2015A4133	BL12B2	Chang Chia-Chin	Nano-sized Tin Oxide-Modified Graphite Composite as Efficient Anode Material for Lithium Ion Batteries

International Journal of Fatigue

40874	Shoichi Kikuchi	127 (2019) 222-228	2017B1639	BL46XU	中井 善一	Effect of Bimodal Harmonic Structure on Fatigue Properties of Austenitic Stainless Steel under Axial Loading
-------	-----------------	-----------------------	-----------	--------	-------	--

International Journal of Hydrogen Energy

40897	Hiroyuki Saitoh	45 (2020) 33675-33680	2014A3614	BL14B1	松尾 元彰	Hydrogenation Reaction of Co ₃ Ti Alloy under High Pressure and High Temperature
			2015A3602	BL14B1	齋藤 寛之	
			2015B3602	BL14B1	齋藤 寛之	

International Journal of Microgravity Science and Application

40830	Yukio Morimoto	37 (2020) 370404	2017A6760	BL44XU	森本 幸生	Crystal Structure Analysis of the 20S Proteasome Grown in Space: Comparison between Space and Ground Crystals
			2017B6760	BL44XU	森本 幸生	
			2018A6856	BL44XU	森本 幸生	
			2018B6856	BL44XU	森本 幸生	
			2019A6956	BL44XU	森本 幸生	
			2019B6956	BL44XU	森本 幸生	

International Journal of Pharmaceutics

40876	Tomonobu Uchino	592 (2021) 120004	2018A1140	BL40B2	内野 智信	Development of Novel Polyglycerol Fatty Acid Ester-based Nanoparticles for the Dermal Delivery of Tocopherol Acetate
			2017A1160	BL40B2	内野 智信	
			2017A1348	BL40B2	内野 智信	

IOP Conference Series: Materials Science and Engineering

41011	Hideyuki Yasuda	861 (2020) 012051	2018B1521	BL20XU	安田 秀幸	In situ Observation of Austenite Coarsening Induced by Massive-like Transformation during Solidification in Fe-C Alloys
			2017B1416	BL20XU	安田 秀幸	
			2018A1380	BL20XU	安田 秀幸	
			2016B1458	BL20XU	安田 秀幸	
			2017B1463	BL20XU	安田 秀幸	
			2019A1400	BL20XU	安田 秀幸	

IUCrJ

40804	Kyu-Yeon Lee	7 (2020) 509-521	2017B6773	BL44XU	Lee Bong Jin	A Structural Study of TatD from <i>Staphylococcus aureus</i> Elucidates a Putative DNA-binding Mode of a Mg ²⁺ -dependent Nuclease
-------	--------------	---------------------	-----------	--------	--------------	---

Journal of Alloys and Compounds

40711	Takashi Takeda	850 (2021) 156358	2016A1561	BL14B2	武田 隆史	Powder Synthesis and Luminescence Properties of Green Emitting Ba ₂ LiSi _{7-x} Al _x N _{12-x} O _x :Eu ²⁺ Phosphor
-------	----------------	----------------------	-----------	--------	-------	--

The Journal of Biochemistry

40882	Takao Hibi	(2020) Online publication 1 Oct. 2020	2015A1073	BL38B1	日弁 隆雄	Identification of Quasi-Stable Water Molecules Near the Thr73-Lys13 Catalytic Diad of <i>Bacillus</i> sp. TB-90 Urate Oxidase by X-ray Crystallography with Controlled Humidity
			2016B2705	BL38B1	日弁 隆雄	
			2019B2728	BL26B1	日弁 隆雄	
			2017B2736	BL26B1	日弁 隆雄	

Journal of Catalysis

40966	Mingyue Lin	389 (2020) 9-18	2018B1787	BL14B2	村山 美乃	Ligand Effect of Gold Colloid in the Preparation of Au/Nb ₂ O ₅ for CO Oxidation
-------	-------------	--------------------	-----------	--------	-------	--

Journal of Crystal Growth

41036	Jumpei Yamada	555 (2021) 125969	2019B3587	BL11XU	成塚 重弥	Effect of Crystallization of Ni Catalyst on Direct Precipitation of Multilayer Graphene using W Capping Layer
			2020A3587	BL11XU	成塚 重弥	

Journal of Environmental Protection

40713	Takanori Miyake	11 (2020) 807-820	2015B1634	BL14B2	三宅 孝典	X-Ray Absorption Spectroscopy Analysis of Lead Species Adsorbed on Various Oxides from High pH Solution
-------	-----------------	----------------------	-----------	--------	-------	---

Journal of Luminescence

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
40866	Hirokazu Masai	207 (2019) 316-320	2016A0130	BL01B1	小原 真司	Temperature-Dependent Luminescence of Ce-doped SrO-B ₂ O ₃ Glasses

Journal of Non-Crystalline Solids

40727	Yoshihiro Okamoto	551 (2021) 120393	2016B3505	BL11XU	岡本 芳浩	XAFS Analysis of Ruthenium in Simulated Iron Phosphate Radioactive Waste Glass
			2017A3505	BL11XU	岡本 芳浩	

Journal of Nuclear Science and Technology

41000	Tatsuya Fukuda	(2020) Published online 15 Oct. 2020	2019A1682	BL01B1	福田 達弥	Mechanistic Study on the Removal of Cs from Contaminated Soil by Rapid Ion Exchange in Subcritical Water
			2019A1683	BL04B2	福田 達弥	
			2019B1767	BL04B2	福田 達弥	

Journal of Oleo Science

40798	Hiroshi Takahashi	69 (2020) 1307-1315	2016B1577	BL43IR	高橋 浩	Release of Ceramide Molecules from Ceramide-Containing UV-curable Acrylic Adhesive Gel Sheet Affixed to Human Skin
			2016A1511	BL43IR	高橋 浩	
			2015B1581	BL43IR	高橋 浩	

Journal of Photopolymer Science and Technology

40760	Ruito Hashimoto	33 (2020) 505-516	2017B1643	BL19B2	若宮 淳志	Hole-Transporting Polymers Containing Partially Oxygen-Bridged Triphenylamine Units and Their Application for Perovskite Solar Cells
			2017B1834	BL19B2	若宮 淳志	
			2019A1804	BL46XU	中村 智也	

The Journal of Physical Chemistry B

40797	Ayumi Yamakawa	124 (2020) 9275-9282	2018A1250	BL37XU	瀧上 隆智	Condensed Film Formation and Molecular Packing in Cationic Surfactant-Cholesterol and Zwitterionic Surfactant-Cholesterol Systems at the Hexane/Water Interface
			2019A1171	BL37XU	瀧上 隆智	

Journal of Physics and Chemistry of Solids

41024	Haruhiro Hiraka	150 (2021) 109870	2010A3615	BL14B1	平賀 晴弘	Local Ir Dedimerization Followed by Ligand-Hole Hopping in X-ray Irradiated Thiospinel
			2010B3618	BL14B1	平賀 晴弘	
			2012B3624	BL14B1	平賀 晴弘	

Journal of the European Ceramic Society

40793	Shin Tajima	41 (2021) 1352-1359	2018A7030	BL33XU	田島 伸	Characterization of AE(TM) ₂ Bi ₂ O ₉ (AE: Ca, Sr, Ba; TM: Nb, Ta) as Oxide Ion Conductors
			2018B7030	BL33XU	田島 伸	
			2019A7030	BL33XU	田島 伸	
			2019B7030	BL33XU	田島 伸	

Journal of the Japan Petroleum Institute

40881	Naohiro Shimoda	63 (2020) 365-374	2017A1584	BL14B2	里川 重夫	Local Structure Analysis of Active Sites in NiO/γ-Al ₂ O ₃ Catalyst for Dimethyl Sulfide Decomposition: Sulfurization Behavior of Ni Species Using X-ray Absorption Spectroscopy Analysis
-------	-----------------	----------------------	-----------	--------	-------	---

Journal of the Taiwan Institute of Chemical Engineers

40849	Ke-Hsuan Wang	110 (2020) 34-40	2017B1082	BL01B1	吉田 真明	Effects of Electrolyte pH on the Formation of Nickel Oxide Films and the Corresponding Electrochromic Properties
			2019A1386	BL01B1	吉田 真明	

Journal of Vacuum Science & Technology B

40740	Masaaki Niwa	38 (2020) 033801	2017B0921	BL13XU	壬生 攻	Effect of Metallic Mg Insertion in CoFeB/MgO Interface Perpendicular Magnetic Tunnel Junction on Tunnel Magnetoresistance Ratio Observed by Synchrotron X-ray Diffraction
-------	--------------	---------------------	-----------	--------	------	---

Langmuir

40941	Ken Terao	36 (2020) 14425-14431	2016A1053	BL40B2	寺尾 憲	Complex Formation of Silica Nanoparticles with Collagen: Effects of the Conformation of Collagen
			2016B1088	BL40B2	寺尾 憲	
			2019A1072	BL40B2	寺尾 憲	

Macromolecular Materials and Engineering

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
40930	Masaki Kakiage	305 (2020) 2000252	2019B1347	BL40XU	上原 宏樹	High-Strength and High-Toughness Melt-Spun Polyethylene Fibers Derived from Composite Structure Formation

Materialia

40679	Kazuyuki Shimizu	11 (2020) 100667	2015A0076	BL20XU	戸田 裕之	Influence of Nanovoids in the Hydrogen Embrittlement Fracture of Al-Zn-Mg-Cu Alloys
-------	------------------	---------------------	-----------	--------	-------	---

Materials Research Bulletin

40859	Fumito Fujishiro	133 (2021) 111063	2018B1446	BL01B1	大石 昌嗣	Relationship among the Local Structure, Chemical State of Fe Ions in Fe-O Polyhedra, and Electrical Conductivity of Cubic Perovskite $Ba_{1-x}Sr_xFe_{0.9}In_{0.1}O_{3-\delta}$ with Varying Number of Oxide Ion Vacancies
-------	------------------	----------------------	-----------	--------	-------	--

Metals

40837	Yuji Sano	10 (2020) 1490	2011A1685	BL19B2	佐野 雄二	Effect of Laser Peening on the Mechanical Properties of Aluminum Alloys Probed by Synchrotron Radiation and X-Ray Free Electron Laser
			2011B1861	BL19B2	佐野 雄二	
			2012A1274	BL19B2	佐野 雄二	
			2012B1740	BL19B2	佐野 雄二	
			2013B1863	BL19B2	佐野 雄二	
			2014A1700	BL19B2	佐野 雄二	
			2014B1927	BL19B2	政木 清孝	
			2012A8012	BL3	佐野 雄二	
			2012B8011	BL3	佐野 雄二	
			2013A8025	BL3	佐野 雄二	
			2013B8029	BL3	佐野 雄二	
2014A8015	BL3	佐野 雄二				
2014B8016	BL3	佐野 雄二				

Natural Product Research

40973	Thi Thanh Van Tran	32 (2018) 2291-2296	2015A1848	BL19B2	湯口 宣明	Structure, Conformation in Aqueous Solution and Antimicrobial Activity of Ulvan Extracted from Green Seaweed <i>Ulva reticulata</i>
			2014B1937	BL19B2	湯口 宣明	

New Journal of Physics

41027	Adriano Verna	22 (2020) 123029	2017A8070	BL1	大浦 正樹	Photoemission from the Gas Phase using Soft X-ray fs Pulses: an Investigation of the Space-Charge Effects
			2017B8021	BL1	大浦 正樹	

Organic Electronics

40714	Sultan Otep	87 (2020) 105986	2019B1006	BL40B2	松本 英俊	Diketopyrrolopyrrole-thiophene-methoxythiophene Based Random Copolymers for Organic Field Effect Transistor Applications
-------	-------------	---------------------	-----------	--------	-------	--

Organic Letters

40822	Michihisa Murata	22 (2020) 4160-4163	2019B1129	BL02B1	笹森 貴裕	Benzo- and Thieno-Annulated Tetracenes: A One-Pot Synthesis via Cross-Dehydrogenative Annulation
			2019A1057	BL02B1	笹森 貴裕	
			2019A1677	BL02B1	鈴木 文陽	
			2018B1668	BL02B1	菅原 知敏	
			2018A1167	BL40XU	笹森 貴裕	

Organometallics

40838	Koji Koide	39 (2020) 3742-3758	2018B1335	BL01B1	野村 琴広	Synthesis and Structural Analysis of Four Coordinate (Arylimido)niobium(V) Dimethyl Complexes Containing Phenoxide Ligand: MAO-Free Ethylene Polymerization by the Cationic Nb(V)-Methyl Complex
			2019A1233	BL01B1	野村 琴広	
			2020A1473	BL01B1	野村 琴広	

Oxidation of Metals

40761	Shigenari Hayashi	93 (2020) 573-586	2017B1923	BL19B2	林 重成	Effect of Zr on Initial Oxidation Behavior of FeCrAl Alloys
			2018A1567	BL19B2	林 重成	

Physica 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
40768	Kohei Yamagami	536 (2018) 843-846	2014A1023	BL27SU	関山 明	Polarization-dependent X-ray Photoemission Spectroscopy for High-T _c Cuprate Superconductors
			2014A1149	BL19LXU	関山 明	
			2014B1299	BL27SU	関山 明	
			2014B1305	BL19LXU	関山 明	

Physical Review Materials

40988	Norihiko L. Okamoto	4 (2020) 123603	2018B1047	BL35XU	岡本 範彦	Evolution of Microstructure and Variations in Mechanical Properties Accompanied with Diffusionless Isothermal ω Transformation in β -titanium Alloys
-------	---------------------	--------------------	-----------	--------	-------	---

Planta

40704	Kaori Matsuyama	252 (2020) 72	2017B2712	BL38B1	石丸 恵	Substrate-Recognition Mechanism of Tomato β -galactosidase 4 using X-ray Crystallography and Docking Simulation
			2016A2500	BL38B1	多田 俊治	
			2016B2728	BL38B1	多田 俊治	

Polymer Journal

40854	Jian Shen	52 (2020) 1273-1278	2017A7209	BL03XU	和泉 篤士	Structural Deformation of Elastic Polythiophene with Disiloxane Moieties under Stretching
			2017B7261	BL03XU	和泉 篤士	
			2018A7211	BL03XU	和泉 篤士	
			2018B7261	BL03XU	和泉 篤士	
			2019A7209	BL03XU	和泉 篤士	
2019B7259	BL03XU	和泉 篤士				

Radiation Physics and Chemistry

40927	Hitoshi Sato	175 (2020) 108148	2015B1402	BL39XU	佐藤 仁	Cu 2p-1s X-ray Emission Spectroscopy of Mineral Tetrahedrite Cu ₁₂ Sb ₄ S ₁₃
			2017B1223	BL39XU	佐藤 仁	
			2018A1175	BL39XU	佐藤 仁	

Review of Scientific Instruments

40684	Satoshi Okumura	91 (2020) 095113	2016B1253	BL20B2	奥村 聡	An Experimental System for Time-Resolved X-ray Diffraction of Deforming Silicate Melt at High Temperature
			2017B1147	BL20XU	奥村 聡	
			2018A1265	BL20XU	奥村 聡	
			2018B1282	BL20XU	奥村 聡	
			2019A1524	BL20XU	奥村 聡	

Science Advances

40877	Felix Lehmkuhler	6 (2020) eabc5916	2013A8010	BL3	Lehmkuhler Felix	Slowing down of Dynamics and Orientational Order Preceding Crystallization in Hard-Sphere Systems
			2015B8015	BL2	Lehmkuhler Felix	

Scripta Materialia

40754	Tomoya Nakatani	189 (2020) 63-66	2017B0921	BL13XU	壬生 攻	Thickness Dependence of Degree of B2 Order of Polycrystalline Co ₂ (Mn _{0.8} Fe _{0.4})Ge Heusler Alloy Films Measured by Anomalous X-ray Diffraction and its Impacts on Current-Perpendicular-to-Plane Giant Magnetoresistance Properties
			2018A1016	BL13XU	宝野 和博	
			2018B1537	BL13XU	桜庭 裕弥	
			2019A1532	BL13XU	桜庭 裕弥	

Sensors and Materials

40867	Hirokazu Masai	31 (2019) 1297-1303	2017B1577	BL14B2	正井 博和	Relationship between Valence States of Copper in Aluminophosphate Glasses and the Emission Properties
-------	----------------	------------------------	-----------	--------	-------	---

Structural Dynamics

40949	Cecilia Wickstrand	7 (2020) 024701	2016B8063	BL3	南後 恵理子	A Tool for Visualizing Protein Motions in Time-Resolved Crystallography
			2017A8018	BL3	南後 恵理子	

Synchrotron Radiation News

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
40999	Takamasa Nonaka	33 (2020) 34-39	2016A7008	BL33XU	野中 敬正	Hard X-ray Photon-in/Photon-out Spectroscopies of Lithium-ion Battery Electrodes
			2016B7008	BL33XU	野中 敬正	
			2017A7008	BL33XU	野中 敬正	
			2017B7008	BL33XU	野中 敬正	
			2014B1574	BL39XU	西村 友作	
2014B1582	BL27SU	西村 友作				

Toxins

40805	Sung-Min Kang	12 (2020) 380	2019A6972	BL44XU	Lee Bong Jin	mRNA Interferase <i>Bacillus cereus</i> BC0266 Shows MazF-Like Characteristics Through Structural and Functional Study
-------	---------------	------------------	-----------	--------	--------------	--

Tribology Letters

40820	Kazuyuki Yagi	68 (2020) 115	2014B7021	BL33XU	山口 聡	In Situ Observation of Crystal Grain Orientation During Scuffing Process of Steel Surface Using Synchrotron X-ray Diffraction
-------	---------------	------------------	-----------	--------	------	---

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

40816	Masayuki Nishi	30 (2020) 95-101	2016A1476	BL10XU	西 真之	Water Transport into the Deep Mantle by Hydrated Phases
			2017B1110	BL10XU	西 真之	
			2015A0075	BL04B1	入船 徹男	
			2010A0082	BL04B1	入船 徹男	

色材協会誌 (Journal of the Japan Society of Colour Material)

40799	Yuichi Satokawa	93 (2020) 304-308	2018B1857	BL19B2	里川 雄一	Aggregation Structure of Aqueous Pigment Dispersions Evaluated by Rheology and Small-Angle X-ray Scattering
			2018A7222	BL03XU	小池 淳一郎	

塗装工学 (Journal of Japan Coating Technology Association)

40911	Hideo Kobayashi	55 (2020) 424-430	2017A3220	BL24XU	末広 省吾	Observation of Drying Slurry with Laminography
			2017B3220	BL24XU	末広 省吾	
			2018A3220	BL24XU	末広 省吾	
			2018B3220	BL24XU	末広 省吾	

日本結晶学会誌 (Journal of the Crystallographic Society of Japan)

41033	Shintaro Kobayashi	62 (2020) 221-222	2016A1620	BL02B2	中埜 彰俊	Successive Structural Transitions of CrSe ₂ with Anomalous Valent Chromium
			2016B1437	BL02B2	澤 博	
			2016B1270	BL02B1	小林 慎太郎	
			2017A1081	BL02B1	小林 慎太郎	

日本食品工学会誌 (Japan Journal of Food Engineering)

40765	Gabsoo Do	21 (2020) 113-121	2017B1032	BL14B2	都 甲洙	Determining the Internal Structure of Ice Cream Using Cryogenic Microtome Imaging and X-ray Computed Tomography
			2018B1832	BL14B2	都 甲洙	

粉体および粉末冶金 (Journal of the Japan Society of Powder and Powder Metallurgy)

40924	Keiichi Tsuda	67 (2020) 545-552	C03B3002	BL16XU	飯原 順次	Development of Functionally Graded Hard Material
-------	---------------	----------------------	----------	--------	-------	--

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

40696	Saki Imada	33 (2020) 307-315	2019B1175	BL27SU	今田 早紀	Band Structure Engineering and Crystal Orientation Control in Wurtzite AlN via Substitution of 3d Transition Metal for Al
			2019A1266	BL27SU	今田 早紀	
			2018A1103	BL27SU	今田 早紀	

博士論文 (京都大学)

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
40706	Toru Hagiya	(2020)	2015A4264	BL12XU	松田 和博	Electronic Excitation and Density Response in Liquid Alkali Metals Studied by Inelastic X-ray Scattering
			2015B4251	BL12XU	松田 和博	
			2016A4264	BL12XU	松田 和博	
			2016B4254	BL12XU	松田 和博	
			2017A4267	BL12XU	松田 和博	
			2017B4254	BL12XU	松田 和博	
			2018A4253	BL12XU	松田 和博	
			2018A4261	BL12XU	松田 和博	
2018B4260	BL12XU	松田 和博				

博士論文 (京都工芸繊維大学)

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
40695	Nobuyuki Tatemizo	(2020)	2019B1741	BL01B1	立溝 信之	Study on Crystallographic and Electronic Properties of 3d Transition Metal Doped AlN Films
			2019A1669	BL01B1	立溝 信之	
			2018B1694	BL27SU	立溝 信之	
			2018A1648	BL27SU	立溝 信之	
			2017B1704	BL27SU	立溝 信之	
			2018A1103	BL27SU	今田 早紀	
			2019A1266	BL27SU	今田 早紀	
			2019B1175	BL27SU	今田 早紀	

課題以外の成果として登録された論文

Applied Sciences

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
40855	Tadashi Togashi	10 (2020) 7934	XFEL	BL3	Femtosecond Optical Laser System with Spatiotemporal Stabilization for Pump-Probe Experiments at SACLA
40878	Hiroshi Iwayama	10 (2020) 7852	装置&技術	BL1	Demonstration of Transmission Mode Soft X-ray NEXAFS Using Third- and Fifth-Order Harmonics of FEL Radiation at SACLA BL1

Chemistry Letters

40889	Hao Wu	47 (2018) 732-735	一般	BL11XU	Extraction Behavior of Lanthanides by a Novel Ionic Liquid Including <i>N,N,N',N'</i> -Tetrakis(2-pyridylmethyl)-1,3-diaminopropane-2-amido Structure: A Soft-Hard Donor Combined Strategy
-------	--------	----------------------	----	--------	--

Dalton Transaction

40888	Hao Wu	47 (2018) 10063-10070	一般	BL11XU	Selective Separation of Cadmium(II) from Zinc(II) by a Novel Hydrophobic Ionic Liquid Including an <i>N,N,N',N'</i> -tetrakis(2-methylpyridyl)-1,2-phenylenediamine-4-amido Structure: a Hard-Soft Donor Combined Method
-------	--------	--------------------------	----	--------	--

Microscopy and Microanalysis

40710	Nozomu Ishiguro	26 (2020) 878-885	理研	BL29XU	Nanoscale Visualization of Phase Transition in Melting of Sn-Bi Particles by <i>In situ</i> Hard X-ray Ptychographic Coherent Diffraction Imaging
-------	-----------------	----------------------	----	--------	---