

## 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/](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 7 月～9 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/](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 7 月～9 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	13	Chemical Science	6
Inorganic Chemistry	10	Angewandte Chemie International Edition	5
Japanese Journal of Applied Physics	10	Chemical Communications	5
Applied Physics Letters	9	Journal of Applied Physics	5
Nature Communications	7	Journal of Synchrotron Radiation	5
Chemical Science	6	Macromolecules	5
Physica Status Solidi B	6	Scientific Reports	5

他全 195 誌、計 357 報

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

課題の成果として登録された論文

Physical Review B

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
40125	Satoshi Imaizumi	102 (2020) 035104	2017A1395	BL43IR	大串 研也	Structural, Electrical, Magnetic, and Optical Properties of Iron-Based Ladder Compounds $\text{BaFe}_2(\text{S}_{1-x}\text{Se}_x)_3$
			2017B1474	BL43IR	大串 研也	
			2018B1312	BL43IR	大串 研也	
40152	Hiroaki Tanaka	101 (2020) 161114(R)	2019B1092	BL25SU	黒田 健太	Three-Dimensional Electronic Structure in Ferromagnetic $\text{Fe}_3\text{Sn}_2$ with Breathing Kagome Bilayers
			2019A1087	BL25SU	黒田 健太	
40193	Takahito Takeda	101 (2020) 155142	2018A3841	BL23SU	小林 正起	Hybridization between the Ligand $p$ Band and Fe- $3d$ Orbitals in the $p$ -type Ferromagnetic Semiconductor $(\text{Ga},\text{Fe})\text{Sb}$
			2019A3841	BL23SU	小林 正起	
40282	Naoyuki Katayama	102 (2020) 081106(R)	2019B1073	BL02B2	片山 尚幸	Robust Atomic Orbital in the Cluster Magnet $\text{LiMoO}_2$
			2017A1053	BL01B1	片山 尚幸	
40327	Zhenhong Tan	102 (2020) 054404	2019B1757	BL02B2	譚 振宏	Charge Disproportionation and Interchange Transitions in Twelve-Layer $\text{BaFeO}_3$
40349	Daisuke Takegami	102 (2020) 045119	2019A4277	BL12XU	武上 大介	Charge-Transfer Energy in Iridates: A Hard X-ray Photoelectron Spectroscopy Study
			2019A4257	BL12XU	武上 大介	
40427	Toru Hagiya	102 (2020) 054208	2017B4254	BL12XU	松田 和博	Static Density Response Function Studied by Inelastic X-ray Scattering: Friedel Oscillations in Solid and Liquid Li
			2018A4253	BL12XU	松田 和博	
			2018A4261	BL12XU	松田 和博	
			2018B4260	BL12XU	松田 和博	
40434	Naoki Ishimatsu	102 (2020) 054106	2015B1343	BL10XU	石松 直樹	Strong Variant Selection Observed in the $\alpha$ - $\epsilon$ Martensitic Transition of Iron under Quasihydrostatic Compression along $[111]_a$
			2016A1415	BL39XU	石松 直樹	
			2018A1267	BL10XU	石松 直樹	
40444	Tomoki Yoshikawa	102 (2020) 064428	2018B3842	BL23SU	木村 昭夫	Unveiling Spin-Dependent Unoccupied Electronic States of $\text{Co}_2\text{MnGe}$ (Ga) Film via Ge (Ga) $L_{2,3}$ Absorption Spectroscopy
40548	Takumi Niimura	102 (2020) 094411	2017A1318	BL39XU	湯浅 裕美	Influence of Interface Layer Insertion on the Spin Seebeck Effect and the Spin Hall Magnetoresistance of $\text{Y}_3\text{Fe}_5\text{O}_{12}/\text{Pt}$ Bilayer Systems
40556	Daisuke Shiga	102 (2020) 115114	2019B1248	BL47XU	組頭 広志	Thickness Dependence of Electronic Structures in $\text{VO}_2$ Ultrathin Films: Suppression of the Cooperative Mott-Peierls Transition
40576	Kota Murota	101 (2020) 235159	2019B1574	BL47XU	溝川 貴司	Charge Correlation in $\text{V}_2\text{OPO}_4$ Probed by Hard X-ray Photoemission Spectroscopy
40584	Kihiro T. Yamada	102 (2020) 100407(R)	2018A1225	BL25SU	塩田 陽一	Orbital-Dependent Electric Field Effect on Magnetism in Ultrathin Cobalt
			2015B0901	BL25SU	千葉 大地	
			2015A0117	BL25SU	小野 輝男	

Inorganic Chemistry-1

40138	Ran Liu	58 (2019) 14830-14841	2018A4501	BL15XU	山浦 一成	Spin-Glass Magnetic Properties of A-Site Columnar-Ordered Quadruple Perovskites $\text{Y}_2\text{MnGa}(\text{Mn}_{1-x}\text{Ga}_x)\text{O}_{12}$ with $0 \leq x \leq 3$
			2018B4502	BL15XU	Belik Alexei	
40139	Ran Liu	59 (2020) 9065-9076	2018B4502	BL15XU	Belik Alexei	High-Pressure Synthesis, Crystal Structures, and Properties of A-Site Columnar-Ordered Quadruple Perovskites $\text{NaRMn}_2\text{Ti}_4\text{O}_{12}$ with $\text{R} = \text{Sm, Eu, Gd, Dy, Ho, Y}$
			2019A4501	BL15XU	辻本 吉廣	
40147	Ikuya Yamada	59 (2020) 8699-8706	2015B1152	BL02B2	山田 幾也	A Sequential Electron Doping for Quadruple Perovskite Oxides $\text{ACu}_3\text{Co}_4\text{O}_{12}$ ( $\text{A} = \text{Ca, Y, Ce}$ )
			2019B1420	BL02B2	山田 幾也	
			2015B1879	BL14B2	山田 幾也	
			2019A1650	BL14B2	山田 幾也	
			2019B1830	BL14B2	八木 俊介	
40336	Takeshi Yajima	59 (2020) 4228-4233	2016A1068	BL02B2	矢島 健	Titanium Hydride Complex $\text{BaCa}_2\text{Ti}_2\text{H}_{14}$ with 9-Fold Coordination
			2017B1146	BL02B2	矢島 健	
40364	Kosuke Sato	59 (2020) 10439-10449	2016B8012	BL3	森川 健志	Charge Trapping Process in Photoexcited Nitrogen-Doped Titanium Oxides
			2016A8026	BL3	森川 健志	
			2018A8004	BL3	森川 健志	
			2018B8003	BL3	森川 健志	
40426	Haru Hirai	(2020) Online publication Jun. 11, 2020	2019A1146	BL01B1	高野 慎二郎	Understanding Doping Effects on Electronic Structures of Gold Superatoms: A Case Study of Diphosphine-Protected $\text{M}@\text{Au}_{12}$ ( $\text{M} = \text{Au, Pt, Ir}$ )
40431	Shunta Sasaki	59 (2020) 13942-13951	2015A1366	BL04B2	増野 敦信	Structural Origin of Additional Infrared Transparency and Enhanced Glass-Forming Ability in Rare-Earth-Rich Borate Glasses without B-O Networks
			2018A1096	BL04B2	小原 真司	
			2018A1251	BL04B2	増野 敦信	

### 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
40447	Fumitaka Takeiri	58 (2019) 4431-4436	2018B1099	BL02B2	竹入 史隆	Ba <sub>2</sub> ScHO <sub>3</sub> : H <sup>+</sup> Conductive Layered Oxyhydride with H <sup>+</sup> Site Selectivity
			2016A1673	BL19B2	渡邊 明尋	
			2016B1767	BL19B2	渡邊 明尋	
40649	Hiroshi Itahara	59 (2020) 13583-13588	2019A5070	BL16XU	小坂 悟	Sodium Vapor-Induced Synthesis of Intermetallic Pt <sub>5</sub> Ce Compound Nanoparticles
			2019B5071	BL16XU	高橋 直子	
40659	Ya Tang	59 (2020) 11122-11128	2019B1106	BL02B2	藤井 孝太郎	Synthesis of Three-Layer Perovskite Oxynitride K <sub>2</sub> Ca <sub>2</sub> Ta <sub>3</sub> O <sub>9</sub> N·2H <sub>2</sub> O and Photocatalytic Activity for H <sub>2</sub> Evolution under Visible Light

### Japanese Journal of Applied Physics

40124	Noritake Isomura	59 (2020) 070909	2017B5372	BL16B2	磯村 典武	Determination of Zn-containing Sites in β-Ga <sub>2</sub> O <sub>3</sub> Film Grown through Mist Chemical Vapor Deposition via X-ray Absorption Spectroscopy
			2019A5371	BL16B2	磯村 典武	
			2019B5371	BL16B2	磯村 典武	
40136	Kazunori Kurishima	59 (2020) SIIG07	2017A4601	BL15XU	長田 貴弘	Band Alignment at Non-Polar AlN/MnS Interface Investigated by Hard X-ray Photoelectron Spectroscopy
			2019A4601	BL15XU	長田 貴弘	
40137	Takahiro Nagata	59 (2020) SIIG12	2015B4603	BL15XU	長田 貴弘	Photoelectron Spectroscopic Study on Electronic State of Corundum In <sub>2</sub> O <sub>3</sub> Epitaxial Thin Film Grown by Mist-CVD
			2017A4601	BL15XU	長田 貴弘	
			2018A4601	BL15XU	長田 貴弘	
			2018B4600	BL15XU	長田 貴弘	
40330	Noritake Isomura	59 (2020) 090902	2019B5071	BL16XU	高橋 直子	X-ray Photoelectron Spectroscopy Insights on Interfaces between SiO <sub>2</sub> Films and GaN Substrates: Differences Due to Depositional Technique
40345	Seiya Fuke	59 (2020) 070902	2018A3589	BL11XU	日比野 浩樹	In-situ X-ray Diffraction Analysis of GaN Growth on Graphene-Covered Amorphous Substrates
			2018B3589	BL11XU	日比野 浩樹	
			2019A3590	BL11XU	日比野 浩樹	
			2019B3588	BL11XU	日比野 浩樹	
40355	Tomohiro Abe	59 (2020) SPPA04	2019A0068	BL02B2	森吉 千佳子	Synchrotron Radiation X-ray Diffraction Evidence for Nature of Chemical Bonds in Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> Ceramic Powders and Grain-Orientation Mechanism of Their Films Formed by Aerosol Deposition Method
40356	Sangwook Kim	59 (2020) SPPA05	2019A0068	BL02B2	森吉 千佳子	Electric-Field-Induced Structural Changes for Cubic System of Lead-Free and Lead-Based Perovskite-Type Oxides
			2019A0159	BL02B1	西堀 英治	
40382	Mina Sakuragi	59 (2020) 095004	2019A1225	BL40B2	櫻木 美菜	Evaluation of Microemulsions Containing a Large Amount of a Deep Eutectic Solvent as a Potential Transdermal Carrier of Resveratrol
40493	Sota Asaki	59 (2020) SPPC04	2018B1227	BL02B2	赤松 寛文	Ferroelectricity of Dion-Jacobson Layered Perovskites CsNdNb <sub>2</sub> O <sub>7</sub> and RbNdNb <sub>2</sub> O <sub>7</sub>
			2018A1152	BL02B2	赤松 寛文	
40564	Wataru Yashiro	59 (2020) 092001	2020A0176	BL28B2	矢代 航	Fabrication of Multi-Blade Crystals for Hard-X-ray Multi-Beam Imaging System
			2018A1100	BL28B2	矢代 航	
			2018B1078	BL28B2	矢代 航	
			2019A1212	BL28B2	矢代 航	
			2019B1074	BL28B2	矢代 航	

### Applied Physics Letters-1

40167	Wassim Hamouda	116 (2020) 252903	2019A4909	BL15XU	Renault Olivier	Interface Chemistry of Pristine TiN/La:Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> Capacitors
40182	Hisato Yabuta	116 (2020) 252902	2014B1603	BL46XU	藪田 久人	Structural Investigation of Ferroelectric BiFeO <sub>3</sub> -BaTiO <sub>3</sub> Solid Solutions Near the Rhombohedral-Pseudocubic Phase Boundary
40199	Kousuke Beppu	117 (2020) 043901	2018B1448	BL01B1	別府 孝介	Effect of Cesium for Cu(In,Ga)Se <sub>2</sub> and Cu(In,Ga)(S,Se) <sub>2</sub> Films Studied by Depth-Resolved XAFS
			2019B1601	BL01B1	別府 孝介	
			2019B1605	BL01B1	別府 孝介	
40209	Kazuki Okamoto	117 (2020) 042905	2012A1491	BL13XU	山田 智明	Enhanced Intrinsic Piezoelectric Response in (001)-Epitaxial Single c-domain Pb(Zr,Ti)O <sub>3</sub> Nanorods
			2011A1550	BL13XU	山田 智明	
			2016B1543	BL13XU	山田 智明	
			2014A4908	BL15XU	山田 智明	
			2014B4908	BL15XU	山田 智明	
			2018A4901	BL15XU	山田 智明	
40241	Yuya Kubota	117 (2020) 042405	2018A8052	BL1	久保田 雄也	Scanning Magneto-Optical Kerr Effect (MOKE) Measurement with Element-Selectivity by using a Soft X-ray Free-Electron Laser and an Ellipsoidal Mirror

### Applied Physics Letters-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
40354	Yutaka Matsuura	117 (2020) 022409	2017B1009	BL25SU	田村 隆治	Magnetization Reversal of (Sm, Ce) <sub>2</sub> (Co, Fe, Cu, Zr) <sub>17</sub> Magnets as Per Soft X-ray Magnetic Circular Dichroism Microscopy
			2018A1010	BL25SU	田村 隆治	
			2019A1010	BL25SU	田村 隆治	
			2019B1153	BL25SU	松浦 裕	
			2017A1008	BL25SU	松浦 裕	
40516	Yongzhao Yao	117 (2020) 092102	2019B3055	BL24XU	姚 永昭	Study of Dislocations in AlN Single-Crystal using Bright-Field Synchrotron X-ray Topography under a Multiple-Beam Diffraction Condition
40589	Sourjyadeep Chakraborty	117 (2020) 111901	2019B1127	BL35XU	Saha Bivas	Phononic Bandgap and Phonon Anomalies in HfN and HfN/ScN Metal/Semiconductor Superlattices Measured with Inelastic X-ray Scattering
40592	Ryo Yokogawa	116 (2020) 242104	2019A1678	BL35XU	横川 凌	Anomalous Low Energy Phonon Dispersion in Bulk Silicon-Germanium Observed by Inelastic X-ray Scattering
			2016A1496	BL35XU	小瀬村 大亮	
			2017B1630	BL35XU	白田 宏治	
			2019B1750	BL35XU	横川 凌	

### Nature Communications

40178	Akira Imamura	11 (2020) 1837	2018A2551	BL38B1	乾 隆	Allosteric Regulation Accompanied by Oligomeric State Changes of <i>Trypanosoma brucei</i> GMP Reductase through Cystathionine-β-synthase Domain
			2018A2550	BL38B1	西村 重徳	
			2019A2571	BL26B1	西村 重徳	
			2015A1099	BL26B2	西村 重徳	
			2016A2561	BL26B1	炭谷 順一	
			2016A2699	BL26B1	大谷 拓也	
			2017A2504	BL38B1	炭谷 順一	
			2017A2504	BL26B1	炭谷 順一	
40231	Yu Tang	9 (2018) 1231	2017A7841	BL36XU	岩澤 康裕	Single Rhodium Atoms Anchored in Micropores for Efficient Transformation of Methane under Mild Conditions
40329	Mizuho Koike	11 (2020) 1988	2018B1062	BL27SU	中田 亮一	In-situ Preservation of Nitrogen-Bearing Organics in Noachian Martian Carbonates
			2019A1389	BL27SU	中田 亮一	
40386	Liqun Kang	11 (2020) 4008	2019A1533	BL01B1	Wang Feng Ryan	Adsorption and Activation of Molecular Oxygen over Atomic Copper(II) Site on Ceria
40422	Dominik Kinschel	11 (2020) 4145	2017B8048	BL3	Chergui Majed	Femtosecond X-ray Emission Study of the Spin Cross-Over Dynamics in Haem Proteins
40623	Ying Wang	10 (2019) 1506	2017A4126	BL12B2	Hwang Bing Joe	Synergistic Mn-Co Catalyst Outperforms Pt on High-Rate Oxygen Reduction for Alkaline Polymer Electrolyte Fuel Cells
			2017A4133	BL12B2	Hwang Bing Joe	
40630	Toru Hirahara	11 (2020) 4821	2018B3843	BL23SU	平原 徹	Fabrication of a Novel Magnetic Topological Heterostructure and Temperature Evolution of its Massive Dirac Cone
			2019B3843	BL23SU	平原 徹	
			2020A3843	BL23SU	平原 徹	

### Chemical Science

40176	Toshio Nishino	11 (2020) 6862-6867	2018B1119	BL01B1	高畑 遼	Self-Activated Rh-Zr Mixed Oxide as a Nonhazardous Cocatalyst for Photocatalytic Hydrogen Evolution
40335	Dongshuang Wu	(2020) Online published 11 Aug. 2020	2018B4908	BL15XU	草田 康平	On the Electronic Structure and Hydrogen Evolution Reaction Activity of Platinum Group Metal-Based High-Entropy-Alloy Nanoparticles
			2019B4908	BL15XU	草田 康平	
			2019A1125	BL02B2	北川 宏	
40397	Takato Mitsudome	11 (2020) 6682-6689	2019A1390	BL01B1	満留 敬人	A Cobalt Phosphide Catalyst for the Hydrogenation of Nitriles
			2019A1649	BL14B2	水垣 共雄	
			2019B1560	BL01B1	満留 敬人	
40423	Kazuhide Kamiya	11 (2020) 8339-8349	2018A1349	BL01B1	原田 隆史	Selective Single-Atom Electrocatalysts: a Review with a Focus on Metal-Doped Covalent Triazine Frameworks
			2019A1394	BL01B1	神谷 和秀	
			2019B1159	BL01B1	神谷 和秀	
40496	Supattra Somsri	11 (2020) 9246-9253	2019A1350	BL02B1	小島 達弘	Self-assembly of Cyclic Hexamers of γ-cyclodextrin in a Metallosupramolecular Framework with D-penicillamine
			2018B1296	BL02B2	吉成 信人	
			2019A1279	BL02B2	吉成 信人	
40590	Yuya Domoto	11 (2020) 10457-10460	2020A0168	BL26B1	藤田 誠	"Eggs in Egg Cartons": Co-crystallization to Embed Molecular Cages into Crystalline Lattices
			2020A0168	BL41XU	藤田 誠	

The Journal of Physical Chemistry C

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
40143	Iana S. Glazkova	124 (2020) 13374-13384	2019A4501	BL15XU	辻本 吉廣	Modulated Magnetic Structures in Ba <sub>1-x</sub> Y <sub>x</sub> FeO <sub>4</sub> (R = Y and Dy): Magnetic and <sup>57</sup> Fe Mössbauer Investigations
40189	Masaki Nishio	124 (2020) 17450-17458	2015A1794	BL02B2	島田 真樹	Selective Formation and SHG Intensity of Noncentrosymmetric and Centrosymmetric 1,1,2,2-Tetramethyl-1-(4-(N,N-dimethylamino)phenyl)-2-(2'-cyanophenyl)disilane Crystals under External Stimuli
40220	Takahiro Nakamura	124 (2020) 17520-17527	2015B7810	BL36XU	横山 利彦	Quick Operando Ambient Pressure Hard X-ray Photoelectron Spectroscopy for Reaction Kinetic Measurements of Polymer Electrolyte Fuel Cells
			2016A7810	BL36XU	横山 利彦	
			2016A7811	BL36XU	横山 利彦	
			2016B7810	BL36XU	横山 利彦	
			2016B7811	BL36XU	横山 利彦	
			2017A7810	BL36XU	横山 利彦	
			2017A7811	BL36XU	横山 利彦	
			2017B7810	BL36XU	横山 利彦	
			2017B7811	BL36XU	横山 利彦	
			2018A7810	BL36XU	横山 利彦	
			2018A7811	BL36XU	横山 利彦	
			2018B7810	BL36XU	横山 利彦	
			2018B7811	BL36XU	横山 利彦	
			2019A7810	BL36XU	横山 利彦	
2019A7811	BL36XU	横山 利彦				
2019B7810	BL36XU	横山 利彦				
2019B7811	BL36XU	横山 利彦				
40324	Masashi Nakamura	124 (2020) 17711-17716	2017A1213	BL13XU	中村 将志	Structural Dynamics of Adsorption Equilibrium for Iodine Adsorbed on Au(111)
			2015A1360	BL13XU	高橋 正光	
40392	Masahiro Sato	124 (2020) 12466-12475	2018A7556	BL07LSU	杉山 正和	Atomistic-Level Description of GaN/Water Interface by a Combined Spectroscopic and First-Principles Computational Approach
40490	Masato Iwasawa	124 (2020) 13572-13579	2019A1715	BL19B2	鶴田 諒平	Exciton Dissociation and Electron Transfer at a Well-Defined Organic Interface of an Epitaxial C <sub>60</sub> Layer on a Pentacene Single Crystal

Physica Status Solidi B

40188	Kazuhiro Matsuda	(2020) Online published 9 Jul. 2020	2017B1064	BL08W	松田 和博	X-Ray Compton Scattering Study of Liquid Sodium at Elevated Temperatures
			2018A1116	BL08W	松田 和博	
			2018B1168	BL08W	松田 和博	
			2016A1188	BL08W	松田 和博	
			2015B1229	BL08W	松田 和博	
			2013B1070	BL08W	松田 和博	
			2012B1522	BL08W	松田 和博	
			2012A1195	BL08W	松田 和博	
40190	Kouichi Hayashi	(2020) Online publication 7 Jul. 2020	2012B3714	BL22XU	胡 雯	Local Structure Analysis around Ti in Lead Zirconate Titanate by X-Ray Fluorescence Holography
			2014A3713	BL22XU	大和田 謙二	
			2014A3788	BL22XU	林 好一	
40191	Makina Saito	(2020) Online publication 16 Jul. 2020	2014B1548	BL04B2	小野寺 陽平	Dynamics Study of Superionic Conducting Glass Na <sub>3</sub> PS <sub>4</sub> Using Quasi-Elastic Gamma-Ray Scattering: Analysis Based on Diffraction and Reverse Monte Carlo-Density Functional Theory Modeling
			2016B1103	BL09XU	瀬戸 誠	
			2017B1165	BL09XU	瀬戸 誠	
			2019A1228	BL09XU	瀬戸 誠	
40339	Masanori Inui	(2020) Online published 11 Jul. 2020	2019B1205	BL35XU	乾 雅祝	Sound Speed in Glassy As <sub>x</sub> Se <sub>1-x</sub> (x = 0.4, 0.5, and 0.6) by Inelastic X-Ray Scattering
40554	Koji Kimura	(2020) Online publication 25 May 2020	2018B7611	BL28XU	松原 英一郎	Structural Variation in Carbonate Electrolytes by the Addition of Li Salts Studied by X-Ray Total Scattering
			理研	BL32B2		
40562	Yasuhiro Takabayashi	(2020) Online publication 9 Jul. 2020	2019A7616	BL28XU	安部 武志	X-Ray Total Scattering of Electrolytes in Liquid-Based Fluoride Shuttle Battery: Electrolyte Composition Dependence of the Low-Q Peak
			2019B7616	BL28XU	安部 武志	

Angewandte Chemie International Edition-1

40322	Taisuke Matsuno	59 (2020) 14570-14576	2019B1067	BL26B1	松野 太輔	Ineffective OH Pinning of the Flipping Dynamics of a Spherical Guest within a Tight-Fitting Tube
			2018B1394	BL38B1	佐藤 宗太	

Angewandte Chemie International Edition-2

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
40517	Marina Lucic	(2020) Online publication 11 Aug. 2020	2019A8004	BL2	Hough Michael	Serial Femtosecond Zero Dose Crystallography Captures a Water-Free Distal Heme Site in a Dye-Decolorising Peroxidase to Reveal a Catalytic Role for an Arginine in Fe <sup>M</sup> =O Formation
40528	Qiming Sun	59 (2020) 20183-20191	2018A1429	BL01B1	朝倉 博行	Zeolite-Encaged Pd-Mn Nanocatalysts for CO <sub>2</sub> Hydrogenation and Formic Acid Dehydrogenation
			2019A1398	BL01B1	朝倉 博行	
			2019A1447	BL01B1	寺村 謙太郎	
40657	Ryo Ohtani	59 (2020) 19254-19259	2018A1259	BL02B2	藤井 孝太郎	Responsive Four-Coordinate Iron(II) Nodes in FePd(CN) <sub>4</sub>
			2019A1104	BL02B2	山本 隆文	
40662	Nobuto Yoshinari	59 (2020) 18048-18053	2019A1279	BL02B2	吉成 信人	Single-Crystal-to-Single-Crystal Installation of Ln <sub>4</sub> (OH) <sub>4</sub> Cubanes in an Anionic Metallosupramolecular Framework
			2019B1107	BL02B2	吉成 信人	
			2019B1108	BL02B1	吉成 信人	
			2019A1302	BL02B1	吉成 信人	

Chemical Communications

40321	Ryosuke Usui	56 (2020) 8464-8467	2017B1185	BL02B1	砂田 祐輔	Insertion of Ni(0) and Pd(0) Precursors into the Si-Si Bond of a Disilane with Two Hypercoordinate Silicon Atoms
			2018A1396	BL02B1	砂田 祐輔	
40371	Jia-qi Bai	55 (2019) 10519-10522	2018B1805	BL14B2	田村 正純	A Nickel-Iridium Alloy as an Efficient Heterogeneous Catalyst for Hydrogenation of Olefins
40416	Shihang Chu	56 (2020) 8384-8387	2019B1415	BL44B2	Lin Kun	Large Nonlinear Optical Effect in Tungsten Bronze Structures via Li/Na Cross-Substitutions
			2019A1378	BL44B2	Lin Kun	
40624	Keigo Kobayashi	56 (2020) 12941-12944	2018A1753	BL14B2	荻原 直希	Crystalline to Amorphous Transformation in Solid-Solution Alloy Nanoparticles Induced by Boron Doping
40656	Kotaro Fujii	56 (2020) 10042-10045	2016A1265	BL02B1	藤井 孝太郎	Cation- and Anion-Ordered Rutile-Type Derivative LiTeO <sub>3</sub> (OH)

Journal of Applied Physics

40225	Yu Shiratsuchi	127 (2020) 153902	2014A0079	BL25SU	白土 優	Robust Magnetic Domain in Pt/Co/Au/Cr <sub>2</sub> O <sub>3</sub> /Pt Stacked Films with a Perpendicular Exchange Bias
40333	Satoru Suzuki	128 (2020) 015304	2019A3231	BL24XU	住田 弘祐	X-ray Absorption and Photoemission Spectroscopy of Bulk Insulating Materials using Graphene
			2019B3231	BL24XU	住田 弘祐	
			2019A1311	BL17SU	中嶋 誠二	
40411	Yuichi Akahama	128 (2020) 035901	2018B1142	BL10XU	赤浜 裕一	Observation of High-Pressure bcc Phase of Titanium at 243 GPa
			2019A1166	BL10XU	赤浜 裕一	
			2019B1267	BL10XU	赤浜 裕一	
			2020A1194	BL10XU	赤浜 裕一	
40424	Satoru Okayasu	128 (2020) 083902	2019A3732	BL22XU	吉井 賢資	Tolerance of Spin-Seebeck Thermoelectricity against Irradiation by Swift Heavy Ions
			2018B3731	BL22XU	小島 雅明	
			2017B3731	BL22XU	小島 雅明	
40494	Sakyo Hirose	128 (2020) 094101	2017A4900	BL15XU	廣瀬 左京	Ferroelectric and Dielectric Properties of Improper Ferroelectric Ca <sub>8-x</sub> Sr <sub>x</sub> [Al <sub>12</sub> O <sub>24</sub> ](MoO <sub>4</sub> ) <sub>2</sub> Multilayer Capacitors

Macromolecules-1

40159	ChaoHung Cheng	53 (2020) 4541-4551	2015B1023	BL19B2	高原 淳	Fabrication and Deformation of Mechanochromic Nanocomposite Elastomers Based on Rubbery and Glassy Block Copolymer-Grafted Silica Nanoparticles
			2016A1018	BL19B2	高原 淳	
			2016B1034	BL19B2	高原 淳	
			2016A1031	BL20XU	高原 淳	
			2016B1035	BL20XU	高原 淳	
			2017A1028	BL19B2	高原 淳	
			2017A1029	BL20XU	高原 淳	
			2017B1016	BL19B2	高原 淳	
			2017B1025	BL20XU	高原 淳	
			2018A1030	BL19B2	高原 淳	
			2018A1008	BL20XU	高原 淳	
			2019A1656	BL19B2	高原 淳	
			2019B1730	BL19B2	小椎尾 謙	
2018B1024	BL20XU	高原 淳				
40319	Tomoki Nishimura	53 (2020) 7546-7551	2019B1104	BL40B2	西村 智貴	Determining the Hydration in the Hydrophobic Layer of Permeable Polymer Vesicles by Neutron Scattering

## Macromolecules-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
40390	Anjar Taufik Hidayat	53 (2020) 6630-6639	2018B1719	BL40B2	Hidayat Anjar	Enhancement of Short-Range Ordering of Low-Bandgap Donor-Acceptor Conjugated Polymer in Polymer/Polymer Blend Films
			2020A1672	BL40B2	Hidayat Anjar	
40491	Mika Aoki	52 (2019) 2075-2082	2017A7221	BL03XU	小池 淳一郎	Mesoscopic Heterogeneity in the Curing Process of an Epoxy-Amine System
			2017B7273	BL03XU	小池 淳一郎	
40527	Rahmawati Rahmawati	52 (2019) 6825-6833	2012B1506	BL40XU	小椎尾 謙	Investigation of Deformation Behavior of Thiourethane Elastomers Using In Situ X-ray Scattering, Diffraction, and Absorption Methods
			2013B1186	BL40XU	小椎尾 謙	
			2014B1198	BL40XU	小椎尾 謙	
			2014B7266	BL03XU	三田 一樹	
			2015A1514	BL40XU	小椎尾 謙	
			2015A7216	BL03XU	三田 一樹	
			2015B7267	BL03XU	三田 一樹	
			2016A7217	BL03XU	三田 一樹	
			2016B7266	BL03XU	三田 一樹	
			2017A7215	BL03XU	三田 一樹	
			2017B7267	BL03XU	三田 一樹	
2018A7217	BL03XU	内田 公典				
2018B7267	BL03XU	内田 公典				

## Scientific Reports

40111	Hiroyuki Saitoh	10 (2020) 9934	2015A3602	BL14B1	齋藤 寛之	Crystal and Magnetic Structures of Double Hexagonal Close-Packed Iron Deuteride
			2015B3602	BL14B1	齋藤 寛之	
40127	Norihiro Oshime	10 (2020) 10702	2016B1673	BL47XU	押目 典宏	Skewed Electronic Band Structure Induced by Electric Polarization in Ferroelectric BaTiO <sub>3</sub>
			2017B1679	BL47XU	押目 典宏	
			2018A1655	BL47XU	押目 典宏	
			2014B1516	BL01B1	狩野 旬	
40166	Markus O. Schoelmerich	10 (2020) 10197	2019A8072	BL3	Tschentscher Thomas	Evidence of Shock-Compressed Stishovite above 300 GPa
40280	A. M. Shikin	10 (2020) 13226	2018A3842	BL23SU	木村 昭夫	Nature of the Dirac Gap Modulation and Surface Magnetic Interaction in Axion Antiferromagnetic Topological Insulator MnBi <sub>2</sub> Te <sub>4</sub>
			2018B3842	BL23SU	木村 昭夫	
40595	Seiji Nakashima	10 (2020) 15108	2017A1430	BL47XU	中嶋 誠二	Enhancement of Photovoltage by Electronic Structure Evolution in Multiferroic Mn-doped BiFeO <sub>3</sub> Thin Films

## ACS Applied Materials & Interfaces

40117	Shintaro Kato	12 (2020) 29376-29382	2018A1349	BL01B1	原田 隆史	Aqueous Electrochemical Partial Oxidation of Gaseous Ethylbenzene by a Ru-Modified Covalent Triazine Framework
			2019A1394	BL01B1	神谷 和秀	
			2019B1159	BL01B1	神谷 和秀	
40514	Chia-Ching Lin	12 (2020) 40296-40309	2018A4139	BL12B2	Chen Han-Yi	<i>In Operando</i> X-ray Studies of High-Performance Lithium-Ion Storage in Keplerate-Type Polyoxometalate Anodes
40521	Tomokazu Umeyama	12 (2020) 39236-39244	2019A1824	BL46XU	石田 圭一	Efficient Exciton Diffusion in Micrometer-Sized Domains of Nanographene-Based Nonfullerene Acceptors with Long Exciton Lifetimes in Blend Films with Conjugated Polymer
40628	Shu-Jui Chang	11 (2019) 33803-33810	2017A4260	BL12XU	Tseng Yuan-Chieh	Pulse-Driven Nonvolatile Perovskite Memory with Photovoltaic Read-Out Characteristics

## Catalysis Science & Technology

40233	Hironori Nagase	10 (2020) 4522-4531	2018B1788	BL14B2	多田 昌平	Ru Nanoparticles Supported on Amorphous ZrO <sub>2</sub> for CO <sub>2</sub> Methanation
40332	Takeshi Aihara	9 (2019) 5359-5367	2018A1647	BL01B1	相原 健司	Effect of Perimeter Interface Length between 2D WO <sub>3</sub> Monolayer Domain and γ-Al <sub>2</sub> O <sub>3</sub> on Selective Hydrogenolysis of Glycerol to 1,3-propanediol
40613	Zen Maeno	7 (2017) 3205-3209	2017A1239	BL01B1	金田 清臣	A Dual-Functional Heterogeneous Ruthenium Catalyst for the Green One-Pot Synthesis of Biphenols
			2016A1103	BL01B1	金田 清臣	
			2015A1575	BL01B1	金田 清臣	
40614	Zen Maeno	8 (2018) 5401-5405	2017B1155	BL01B1	金田 清臣	Oxidative Cross-coupling Reaction of Catechols with Active Methylene Compounds in an Aqueous Medium Using AlPO <sub>4</sub> -supported Ru Catalyst

### Chemistry Letters

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
40187	Kazuki Tamai	49 (2020) 859-862	2015B1731	BL01B1	玉井 和樹	Identification of Active Ba Species on TiO <sub>2</sub> Photocatalyst for NO <sub>x</sub> Trapping
40445	Naoto Kitamura	49 (2020) 1071-1074	2017A1290	BL04B2	井手本 康	Defect Structure and Oxide-Ion Conduction in (La, Sr) <sub>2</sub> NiO <sub>4+δ</sub> with Layered Perovskite Structure
			2014B1932	BL14B2	井手本 康	
40578	Jun Yabuki	46 (2017) 303-306	2016B7255	BL03XU	高田 一広	Lyotropic Liquid-crystalline Pseudo-polymer Particles with an Iron Oxide Monodispersed Core Controlled in Size and Shapes in Ionic Liquids
40650	Masahiro Kunisu	49 (2020) 1337-1340	2015A1719	BL14B2	国須 正洋	Analyzing Dynamic Chemical States of Palladium Supported on Graphene Oxide by X-Ray Absorption Fine Structure under Oxidative and Reductive Environments

### Chemistry of Materials

40175	Hayato Ishizaki	32 (2020) 4832-4837	2018B1222	BL02B2	岡 研吾	Negative Thermal Expansion in Lead-Free La-Substituted Bi <sub>0.5</sub> Na <sub>0.5</sub> VO <sub>3</sub>
			2018B1860	BL19B2	西久保 匠	
			2019A1045	BL02B2	Pan Zhao	
			2019A1688	BL02B2	西久保 匠	
40177	Masayuki Fukuda	32 (2020) 5016-5027	2019A1071	BL02B2	藤田 晃司	Perovskite-Type CuNbO <sub>3</sub> Exhibiting Unusual Noncollinear Ferrielectric to Collinear Ferroelectric Dipole Order Transition
			2019B1384	BL02B2	藤田 晃司	
			2017B1900	BL14B2	山田 幾也	
			2019A1650	BL14B2	山田 幾也	
40396	Zhao Pan	32 (2020) 3615-3620	2019A1045	BL02B2	Pan Zhao	Observation of Stabilized Monoclinic Phase as a "Bridge" at the Morphotropic Phase Boundary between Tetragonal Perovskite PbVO <sub>3</sub> and Rhombohedral BiFeO <sub>3</sub>
40557	Satoshi Ogawa	32 (2020) 6847-6854	2017B7612	BL28XU	松原 英一郎	Synthesis of Novel Mellite-Type Iron/Cobalt Oxides and Their Oxygen Evolution Reaction Electrocatalytic Activity
			2018A7612	BL28XU	松原 英一郎	

### Journal of Solid State Chemistry

40119	Yuto Ishii	289 (2020) 121489	2019B4500	BL15XU	山浦 一成	High-Pressure Synthesis, Crystal Structure, and Magnetic Properties of the Shastry-Sutherland-Lattice Oxides BaLn <sub>2</sub> ZnO <sub>5</sub> (Ln = Pr, Sm, Eu)
			2019A4501	BL15XU	辻本 吉廣	
			2018B4502	BL15XU	Belik Alexei	
40144	Vladimir V. Titkov	279 (2019) 120966	2018B4502	BL15XU	Belik Alexei	Isovalent and Aliovalent Cation Substitutions in the Anion Sublattice of Whitlockite-type Ferroelectrics Ca <sub>3</sub> RE(VO <sub>4</sub> ) <sub>7</sub> with RE = Y and Yb
40145	Alexei Belik	283 (2020) 121161	2016B4504	BL15XU	山浦 一成	A-Site-Ordered Quadruple Perovskite Manganite CeMn <sub>7</sub> O <sub>12</sub> with Trivalent Cations
			2019A4501	BL15XU	辻本 吉廣	
40461	Guowei Zhao	292 (2020) 121651	2018A1669	BL02B2	松井 直喜	High Lithium Ionic Conductivity of γ-Li <sub>3</sub> PO <sub>4</sub> -type Solid Electrolytes in Li <sub>4</sub> GeO <sub>4</sub> -Li <sub>4</sub> SiO <sub>4</sub> -Li <sub>3</sub> VO <sub>4</sub> Quasi-Ternary System
			2018B1724	BL02B2	松井 直喜	
			2019A1775	BL19B2	松井 直喜	

### Journal of Synchrotron Radiation

40391	Takato Inoue	27 (2020) 883-889	2018B8027	BL3	山内 和人	Generation of an X-ray Nanobeam of a Free-Electron Laser using Reflective Optics with Speckle Interferometry
40419	Akio Yoneyama	27 (2020) 1358-1361	2017A8037	BL3	米山 明男	Feasibility Study of Interferometric Phase-Contrast X-ray Imaging using the Hard-X-ray Free-Electron Laser of the SPring-8 Angstrom Compact Free-Electron Laser
			2017B8042	BL3	米山 明男	
			2018A8016	BL3	米山 明男	
			2019A8030	BL3	米山 明男	
40446	Yasunori Senba	27 (2020) 1103-1107	2017B1982	BL25SU	室 隆桂之	Stable Sub-micrometre High-Flux Probe for Soft X-ray ARPES using a Monolithic Wolter Mirror
40520	Shigeki Owada	27 (2020) 1362-1365	2016B8018	BL1	彦坂 泰正	Characterization of Soft X-ray FEL Pulse Duration with Two-Color Photoelectron Spectroscopy
			2017B8081	BL1	伏谷 瑞穂	
			2018A8019	BL1	伏谷 瑞穂	
			2018B8028	BL1	伏谷 瑞穂	
			2018B8097	BL1	大和田 成起	
			2019A8028	BL1	伏谷 瑞穂	
2019B8046	BL1	伏谷 瑞穂				

### Materials Transactions-1

40238	Hayato Togano	61 (2020) 1500-1502	2019A1476	BL02B2	山田 幾也	Crystal Structure Refinement of the A-Site-Ordered Double-Perovskite Oxide PrBaCo <sub>2</sub> O <sub>6.5</sub>
			2019B1420	BL02B2	山田 幾也	
40239	Fumito Toda	61 (2020) 1503-1506	2019B1420	BL02B2	山田 幾也	Magnetotransport Property for the Magnetoplumbite-Derived Oxide BaCo <sub>6</sub> O <sub>11</sub>



Materials Transactions-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
40240	Yuichi Okazaki	61 (2020) 1523-1526	2019A1650	BL14B2	山田 幾也	Oxygen Evolution Catalysis for Iron Oxides with Various Structures
40410	Yuichi Akahama	61 (2020) 1058-1062	2018B1144	BL10XU	赤浜 裕一	Pressure-Composition Phase Diagram of Fe-Ni Alloy
			2018B1142	BL10XU	赤浜 裕一	
			2019A1166	BL10XU	赤浜 裕一	
			2019B1267	BL10XU	赤浜 裕一	

Physical Chemistry Chemical Physics

40467	Akira Yamamoto	22 (2020) 12368-12372	2017A1511	BL28B2	山本 旭	Structural Characterization of Molybdenum-Dinitrogen Complex as Key Species toward Ammonia Formation by Dispersive XAFS Spectroscopy
			2017B1337	BL28B2	山本 旭	
			2017A1477	BL01B1	山本 旭	
40529	Kazuki Tamai	(2020) Online published 8 Sep. 2020	2017A1284	BL01B1	田中 庸裕	Low-temperature NO Oxidation Using Lattice Oxygen in Fe-site Substituted SrFeO <sub>3-δ</sub>
			2017A1876	BL28B2	加藤 和男	
			2017B1989	BL28B2	加藤 和男	
			2018A1363	BL28B2	加藤 和男	
			2018B1709	BL28B2	玉井 和樹	
40535	Kotaro Higashi	22 (2020) 18919-18931	2017A7807	BL36XU	岩澤 康裕	Visualization and Understanding of the Degradation Behaviors of a PEFC Pt/C Cathode Electrocatalyst using a Multi-Analysis System Combining Time-Resolved Quick XAFS, Three-Dimensional XAFS-CT, and Same-View Nano-XAFS/STEM-EDS Techniques
			2017A7840	BL36XU	岩澤 康裕	
			2017B7801	BL36XU	岩澤 康裕	
			2017B7802	BL36XU	岩澤 康裕	
			2017B7840	BL36XU	岩澤 康裕	
			2018A7801	BL36XU	岩澤 康裕	
			2018A7804	BL36XU	岩澤 康裕	
			2018A7840	BL36XU	岩澤 康裕	
			2018B7804	BL36XU	岩澤 康裕	
			2018B7840	BL36XU	岩澤 康裕	
			2019A7804	BL36XU	岩澤 康裕	
40609	Masashi Mizukami	(2020) Online published 20 Oct. 2020	2015A1644	BL40B2	栗原 和枝	Effect of Surface and Shear Forces on Nano-Confined Smectic-A Liquid Crystal Studied by X-Ray Diffraction
			2016B1056	BL40B2	栗原 和枝	
			2017A1498	BL40B2	栗原 和枝	
			2017B1521	BL40B2	栗原 和枝	
			2017A1861	BL40B2	太田 昇	
			2018A2069	BL40B2	太田 昇	
			2019B2089	BL40B2	太田 昇	

Physical Review Letters-1

40216	Natsuki Tomida	124 (2020) 202501	2013B6101	BL31LEP	村松 憲仁	Search for $\eta'$ Bound Nuclei in the $^{12}\text{C}(\gamma, p)$ Reaction with Simultaneous Detection of Decay Products
			2014A6101	BL31LEP	村松 憲仁	
			2014B6101	BL31LEP	村松 憲仁	
			2015A6101	BL31LEP	村松 憲仁	
			2015B6101	BL31LEP	村松 憲仁	
			2016A6101	BL31LEP	村松 憲仁	
			2016B6101	BL31LEP	村松 憲仁	
			2017A6101	BL31LEP	村松 憲仁	
40219	Hideki Kohri	120 (2018) 202004	2017B6001	BL33LEP	堀田 智明	Differential Cross Section and Photon-Beam Asymmetry for the $\bar{\nu}p \rightarrow \pi\Delta^{++}(1232)$ Reaction at Forward $\pi$ Angles for $E_\gamma = 1.5$ -2.95 GeV
			2012B6001	BL33LEP	堀田 智明	
			2013A6001	BL33LEP	堀田 智明	
			2013B6001	BL33LEP	堀田 智明	
			2014A6001	BL33LEP	堀田 智明	
			2014B6001	BL33LEP	堀田 智明	
			2015A6001	BL33LEP	堀田 智明	
			2015B6001	BL33LEP	堀田 智明	
			2016A6001	BL33LEP	堀田 智明	
			2016B6001	BL33LEP	堀田 智明	
2017A6001	BL33LEP	堀田 智明				

Physical Review Letters-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
40405	Yasuhiro Kuwayama	124 (2020) 165701	2014A1127	BL10XU	Morard Guillaume	Equation of State of Liquid Iron under Extreme Conditions
			2009A0087	BL10XU	廣瀬 敬	
			2014A0080	BL10XU	廣瀬 敬	
			2017A0072	BL10XU	廣瀬 敬	
			理研	BL43LXU		
40463	KyungHwan Kim	125 (2020) 076002	2015A8038	BL3	Nilsson Anders	Anisotropic X-Ray Scattering of Transiently Oriented Water
			2016B8055	BL3	Kim Kyung Hwan	

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

40123	Chuanlong Lin	117 (2020) 15437-15442	2019B1059	BL10XU	Tse John	Temperature-Dependent Kinetic Pathways Featuring Distinctive Thermal-Activation Mechanisms in Structural Evolution of Ice VII
			2019B4267	BL12XU	Tse John	
			2019A4273	BL12XU	Tse John	
40243	Yoshiki Kabashima	117 (2020) 18448-18458	2016A0133	BL41XU	豊島 近	What ATP Binding Does to the Ca <sup>2+</sup> Pump and How Nonproductive Phosphoryl Transfer is Prevented in the Absence of Ca <sup>2+</sup>
			2018A0144	BL41XU	豊島 近	
40373	Takeshi Murakawa	117 (2020) 10818-10824	2017B6709	BL44XU	岡島 俊英	Neutron Crystallography of Copper Amine Oxidase Reveals Keto/Enolate Interconversion of the Quinone Cofactor and Unusual Proton Sharing
			2018A6807	BL44XU	岡島 俊英	
			2018B6807	BL44XU	岡島 俊英	
			2014B1148	BL38B1	村川 武志	
			2015A1065	BL38B1	村川 武志	
			2016A2522	BL38B1	村川 武志	
2017A2544	BL38B1	村川 武志				
40458	Jin Wang	115 (2018) 4939-4944	2017A2523	BL41XU	服部 素之	Druggable Negative Allosteric Site of P2X3 Receptors

ACS Applied Energy Materials

40229	Masaru Kato	3 (2020) 6768-6774	2018A7903	BL36XU	加藤 優	Electronic Effects of Nitrogen Atoms of Supports on Pt-Ni Rhombic Dodecahedral Nanoframes for Oxygen Reduction
			2019A7903	BL36XU	加藤 優	
			2019B7903	BL36XU	加藤 優	
40466	Yuta Kimura	3 (2020) 7782-7793	2017A1481	BL01B1	雨澤 浩史	Influence of Active Material Loading on Electrochemical Reactions in Composite Solid-State Battery Electrodes Revealed by <i>Operando</i> 3D CT-XANES Imaging
			2017B1508	BL37XU	雨澤 浩史	
			2018A1372	BL37XU	雨澤 浩史	
			2018B1280	BL37XU	雨澤 浩史	
			2019A1467	BL37XU	雨澤 浩史	
40558	Yuki Sato	3 (2020) 5269-5276	2017B7612	BL28XU	松原 英一郎	Highly Durable Oxygen Evolution Reaction Catalyst: Amorphous Oxyhydroxide Derived from Brownmillerite-Type Ca <sub>2</sub> FeCoO <sub>5</sub>
			2018A7612	BL28XU	松原 英一郎	

ACS Catalysis

40165	Daisuke Takei	10 (2020) 5057-5063	2019B1820	BL14B2	山口 和也	CeO <sub>2</sub> -Supported Pd(II)-on-Au Nanoparticle Catalyst for Aerobic Selective $\alpha,\beta$ -Desaturation of Carbonyl Compounds Applicable to Cyclohexanones
40479	Naonari Sakamoto	10 (2020) 10412-10419	2019B7038	BL33XU	坂本 直柔	Self-assembled Cuprous Coordination Polymer as a Catalyst for CO <sub>2</sub> Electrochemical Reduction into C <sub>2</sub> Products
40636	Heeyoel Baek	10 (2020) 2148-2156	2019B1679	BL14B2	佐藤 太久真	Production of Bio Hydrofined Diesel, Jet Fuel, and Carbon Monoxide from Fatty Acids Using a Silicon Nanowire Array-Supported Rhodium Nanoparticle Catalyst under Microwave Conditions

ACS Omega

40533	Kosuke Katagiri	5 (2020) 23621-23630	2017A1425	BL38B1	片桐 幸輔	Oxaphosphacyclophanes Constructed from a Bis(triphenylphosphine oxide) Moiety Linked by Dioxalkyl Chains: Synthesis and Crystal Structures
40582	Shingo Tanaka	5 (2020) 20792-20799	2019A7232	BL03XU	蟹江 澄志	Homeotropically Aligned Monodomain-like Smectic-A Structure in Liquid Crystalline Epoxy Films: Analysis of the Local Ordering Structure by Microbeam Small-Angle X-ray Scattering
			2018B7282	BL03XU	蟹江 澄志	
40667	Kentaro Yamamoto	5 (2020) 26287-26294	2017A1023	BL08W	内本 喜晴	Synthesis of Sulfide Solid Electrolytes through the Liquid Phase: Optimization of the Preparation Conditions
			2018A1023	BL08W	内本 喜晴	
			2018B1030	BL08W	内本 喜晴	
			2019A1017	BL08W	内本 喜晴	
			2018B1027	BL04B2	内本 喜晴	

Journal of Alloys and Compounds

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
40140	Alexei A. Belik	811 (2019) 151963	2017B4502	BL15XU	辻本 吉廣	Synthesis, Structure, and Magnetic and Dielectric Properties of Magnetolectric BaDyFeO <sub>4</sub> Ferrite
40141	Dina V. Deyneko	815 (2020) 152352	2018A4501	BL15XU	山浦 一成	The Influence of Second Coordination-Sphere Interactions on the Luminescent Properties of β-Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> -related Compounds
40142	Ran Liu	825 (2020) 154019	2017A4503	BL15XU	Belik Alexei	High-Pressure Synthesis, Crystal Structures, and Magnetic and Dielectric Properties of GdFeO <sub>3</sub> -type Perovskites (Dy <sub>0.5</sub> Mn <sub>0.5</sub> )(Mn <sub>1-x</sub> Ti <sub>x</sub> )O <sub>3</sub> with x = 0.5 and 0.75
			2018B4502	BL15XU	Belik Alexei	
			2019A4501	BL15XU	辻本 吉廣	

Journal of Power Sources

40362	Atsushi Mineshige	475 (2020) 228543	2016A3250	BL24XU	嶺重 温	Lanthanum Silicate-Based Layered Electrolyte for Intermediate-Temperature Fuel Cell Application
			2016A3200	BL24XU	籠島 靖	
			2017B3250	BL24XU	嶺重 温	
			2018B3250	BL24XU	嶺重 温	
40591	Hideaki Oka	482 (2021) 228926	2016B7008	BL33XU	野中 敬正	Changes in the Stage Structure of Li-intercalated Graphite Electrode at Elevated Temperatures
40638	Yasushi Idemoto	482 (2021) 228920	2018A1555	BL19B2	井手本 康	Structural and Electronic Properties of Spinel Type Mg <sub>1-y</sub> Co <sub>2-x-y</sub> Mn <sub>x</sub> O <sub>4</sub> for Cathode Applications in Magnesium Rechargeable Batteries
			2018B1777	BL19B2	井手本 康	
			2019A1760	BL19B2	井手本 康	
			2017B1590	BL14B2	井手本 康	
			2018A1577	BL14B2	井手本 康	
			2018B1596	BL14B2	井手本 康	
			2019A1626	BL14B2	井手本 康	
2019B1714	BL14B2	井手本 康				

Langmuir

40420	Toshihiko Oka	36 (2020) 8687-8694	2016A1174	BL40B2	岡 俊彦	Polar–Nonpolar Interfaces of Normal Bicontinuous Cubic Phases in Nonionic Surfactant/Water Systems Are Parallel to the Gyroid Surface
			2016B1339	BL40B2	岡 俊彦	
			2017A1352	BL40B2	岡 俊彦	
40425	Atsushi Matsuo	36 (2020) 7844-7849	2018A1055	BL01B1	高野 慎二郎	Electron-Rich Gold Clusters Stabilized by Poly(vinylpyridines) as Robust and Active Oxidation Catalysts
			2018B1123	BL01B1	高野 慎二郎	
40477	Satoshi Kanazawa	36 (2020) 7627-7633	2015A1562	BL40B2	秋葉 勇	Self-Assembly of Surfactin into Nanofibers with Hydrophilic Channels in Nonpolar Organic Media
			2015B1464	BL40B2	秋葉 勇	
			2015B1486	BL40B2	秋葉 勇	
			2016A1354	BL40B2	秋葉 勇	
			2016B1274	BL40B2	秋葉 勇	
			2015A2053	BL43IR	池本 夕佳	

Physical Review Materials

40197	Tomohiro Takayama	4 (2020) 075002	2016B3552	BL11XU	石井 賢司	Robust Spin-Orbit Coupling Induced Semimetallic State in Hyperkagome Iridate Li <sub>3</sub> Ir <sub>3</sub> O <sub>6</sub>
40574	Shintaro Kobayashi	4 (2020) 094405	2018A1009	BL02B2	廣澤 哲	Effects of Texture on Lattice Constants of Nd <sub>2</sub> Fe <sub>14</sub> B and Their Relationship with Internal Stress in Nd-Fe-B Permanent Magnets
			2018B1016	BL02B2	廣澤 哲	
			2018B1333	BL02B2	豊木 研太郎	
			2019A1007	BL02B2	廣澤 哲	
40596	Shoya Sakamoto	4 (2020) 095001	2017A1113	BL09XU	藤森 淳	Hard and Soft X-ray Photoemission Spectroscopy Study of the New Kondo System SmO Thin Film

Acta Materialia

40173	X. D. Xu	176 (2019) 33-42	2017B1432	BL13XU	桜庭 裕弥	Microstructure, Magnetic and Transport Properties of a Mn <sub>2</sub> CoAl Heusler Compound
			2017A1422	BL13XU	桜庭 裕弥	
			2017B0921	BL13XU	壬生 攻	
			2017B1975	BL13XU	田尻 寛男	
			2018A1016	BL13XU	宝野 和博	
40414	Kun Lin	198 (2020) 271-280	2018B1515	BL44B2	Lin Kun	High Performance and Low Thermal Expansion in Er-Fe-V-Mo Dual-Phase Alloys
			2019A1378	BL44B2	Lin Kun	

Angewandte Chemie-1

40348	Alfred Amon	131 (2019) 16075-16080	2019A4257	BL12XU	武上 大介	Interplay of Atomic Interactions in the Intermetallic Semiconductor Be <sub>3</sub> Pt
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### Angewandte Chemie-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
40658	Takayoshi Oshima	132 (2020) 9823-9830	2018B1056	BL02B2	藤井 孝太郎	Two-Dimensional Perovskite Oxynitride $K_2LaTa_2O_6N$ with an $H^+/K^+$ Exchangeability in Aqueous Solution Forming a Stable Photocatalyst for Visible-Light $H_2$ Evolution
			2019A1052	BL02B2	藤井 孝太郎	
			2018A1259	BL02B2	藤井 孝太郎	
			2017B1265	BL02B2	藤井 孝太郎	
			2017A1803	BL19B2	藤井 孝太郎	

### Applied Catalysis A: General

40370	Takehiro Asano	602 (2020) 117723	2018B1805	BL14B2	田村 正純	Hydrogenolysis of Tetrahydrofuran-2-carboxylic Acid over Tungsten-Modified Rhodium Catalyst
			2019A1716	BL14B2	浅野 壮宏	
40374	Yoshinao Nakagawa	569 (2019) 149-156	2017B1842	BL14B2	中路 洋輔	Aerobic Oxidation of Alkyl Chain in Alkylphenols over Combination of Pt and Pd Catalysts

### Applied Catalysis B: Environmental

40351	Tingting Hou	245 (2019) 262-270	2017B3302	BL08B2	李 雷	Selective Reduction of $CO_2$ to CO under Visible Light by Controlling Coordination Structures of $CeO_x-S/ZnIn_2S_4$ Hybrid Catalysts
40372	Lujie Liu	256 (2019) 117775	2017A1106	BL01B1	奥村 和	Highly Active Iridium-Rhenium Catalyst Condensed on Silica Support for Hydrogenolysis of Glycerol to 1,3-propanediol
			2017B1158	BL01B1	奥村 和	
			2017B1839	BL14B2	浅野 壮宏	
			2017B1842	BL14B2	中路 洋輔	
			2018B1805	BL14B2	田村 正純	

### Applied Physics Express

40551	Masayuki Imanishi	13 (2020) 085510	2019A3202	BL24XU	津坂 佳幸	Anomalous Dislocation Annihilation Behavior Observed in a GaN Crystal Grown on Point Seeds by the Na-flux Method
40563	Tetsuro Shirasawa	13 (2020) 077002	2018A1100	BL28B2	矢代 航	High-speed Multi-beam X-ray Imaging using a Lens Coupling Detector System
			2018B1078	BL28B2	矢代 航	
			2019A1212	BL28B2	矢代 航	
			2019B1074	BL28B2	矢代 航	

### Biochemical and Biophysical Research Communications

40230	Aoi Sugiyama	529 (2020) 507-512	2019A2542	BL45XU	尾瀬 農之	Structural Comparison of the C-terminal Domain of Functionally Divergent Lyssavirus P Proteins
40399	Keiko Sato	532 (2020) 114-119	2013A1442	BL41XU	今田 勝巳	PorM, a Core Component of Bacterial Type IX Secretion System, Forms a Dimer with a Unique Kinked-Rod Shape

### Cell Chemical Biology

40417	Simon Miller	27 (2020) 1192-1198	2017A6743	BL44XU	廣田 毅	An Isoform-Selective Modulator of Cryptochrome 1 Regulates Circadian Rhythms in Mammals
40421	Hajime Shinoda	26 (2019) 1469-1479	2016B6627	BL44XU	中島 良介	Acid-Tolerant Reversibly Switchable Green Fluorescent Protein for Super-resolution Imaging under Acidic Conditions
			2018B6830	BL44XU	中島 良介	

### Chemistry - A European Journal

40198	Yoko Tanaka	26 (2020) 8889-8896	2018A1692	BL14B2	田中 陽子	Competing Roles of Two Kinds of Ligand during Nonclassical Crystallization of Pillared-Layer Metal-Organic Frameworks Elucidated Using Microfluidic Systems
			2017B1914	BL14B2	田中 大輔	
			2017B1621	BL14B2	田中 大輔	
			2017A1598	BL14B2	田中 大輔	
			2016B1853	BL14B2	田中 大輔	
40598	Yuta Watanabe	26 (2020) 6767-6772	2015A0114	BL02B1	高谷 光	Arylethynyl Groups That Modulate Anion-Binding and Assembling Modes of Rod- and Fan-Shaped $\pi$ -Electronic Systems
			2018A1173	BL40XU	高谷 光	
			2018B1563	BL40XU	前田 大光	
			2018B1247	BL38B1	久木 一朗	
			2017A1678	BL40B2	中村 一登	

### Chemistry - An Asian Journal

40377	Yasutaka Kuwahara	15 (2020) 2005-2014	2017B1081	BL01B1	桑原 泰隆	Diesel Soot Combustion over $Mn_2O_3$ Catalysts with Different Morphologies: Elucidating the Role of Active Oxygen Species in Soot Combustion
			2019A1050	BL01B1	桑原 泰隆	
40541	Taisuke Matsuno	(2020) Online publication 8 Sep. 2020	2018B1394	BL38B1	佐藤 宗太	Crystalline Naphthylene Macrocycles Capturing Gaseous Small Molecules in Chiral Nanopores
			2016A1295	BL38B1	佐藤 宗太	
			2018B1192	BL02B2	佐藤 宗太	

### Crystal Growth & Design

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
40256	Masataka Ito	20 (2020) 4892-4897	2016B1421	BL02B1	伊藤 雅隆	Chlorine K-Edge X-ray Absorption Near-Edge Structure Discrimination of Crystalline Solvates and Salts in Organic Molecules
40342	Yuka Tanaka	19 (2019) 5811-5818	2019A1211	BL40XU	山門 陵平	Various Ionic Crystals from the Combination of 1,3-Bis(dicyanomethylidene)indan Anion and $\pi$ -Electronic Cations
			2019A1704	BL02B1	水口 敬	
			2018B1714	BL02B1	水口 敬	

### eLife

40459	Mu Li	8 (2019) e47060	2018A2507	BL41XU	服部 素之	Molecular Mechanisms of Human P2X3 Receptor Channel Activation and Modulation by Divalent Cation Bound ATP
			2017A2523	BL41XU	服部 素之	
40518	Elin Claesson	9 (2020) e53514	2018A8055	BL3	Westerhoff Sebastian	The Primary Structural Photoresponse of Phytochrome Proteins Captured by a Femtosecond X-ray Laser
			2019A8007	BL2	Schmidt Marius	

### Green Chemistry

40367	Lujie Liu	22 (2020) 2375-2380	2019A1825	BL14B2	浅野 壮宏	One-pot Synthesis of 1,3-butanediol by 1,4-anhydroerythritol Hydrogenolysis over a Tungsten-Modified Platinum on Silica Catalyst
40401	Takato Mitsudome	21 (2019) 4566-4570	2018A1266	BL01B1	満留 敬人	Air-Stable and Reusable Cobalt Ion-Doped Titanium Oxide Catalyst for Alkene Hydrosilylation
			2018B1176	BL01B1	満留 敬人	

### Inorganic Chemistry Frontiers

40361	Zhanning Liu	6 (2019) 1675-1679	2016A1088	BL26B1	Xing Xianran	Near-Zero Thermal Expansion Coordinated with Geometric Flexibility and $\pi$ - $\pi$ Interaction in Anisotropic $[\text{Zn}_6(\text{SiO}_4)(m\text{-BDC})_6]_n$
40413	Tao Yang	7 (2020) 1284-1288	2019A1378	BL44B2	Lin Kun	Evidence of the Enhanced Negative Thermal Expansion in $(1-x)\text{PbTiO}_3-x\text{Bi}(\text{Zn}_{1/3}\text{Ta}_{1/3})\text{O}_3$
			2019B1415	BL44B2	Lin Kun	

### International Journal of Hydrogen Energy

40255	Yumiko Nakamura	45 (2020) 21655-21665	2011B3703	BL22XU	町田 晃彦	Reaction Paths via a New Transient Phase in Non-Equilibrium Hydrogen Absorption of $\text{LaNi}_2\text{Co}_3$
			2012B3703	BL22XU	町田 晃彦	
			2013A3703	BL22XU	町田 晃彦	
40350	Tomoharu Tokunaga	45 (2020) 14347-14353	2018B3834	BL23SU	徳永 智春	$\text{H}_2$ Production from Methane Decomposition by Fullerene at Low Temperature

### JAEA-Research

40523	Yoshihiro Okamoto	(2019) 013	2017A3505	BL11XU	岡本 芳浩	Synchrotron Radiation Based XAFS Analysis of the Simulated Nuclear Waste Glass Samples Prepared by Bottom Drain Test in the Full-Scale Mock-up Melter (KMOC)
			2017B3505	BL11XU	岡本 芳浩	
			2017B3712	BL22XU	岡本 芳浩	
			2018A3712	BL22XU	岡本 芳浩	
40524	Takayuki Nagai	(2019) 003	2017A3505	BL11XU	岡本 芳浩	XAFS Measurement of Simulated Waste Glass Samples
			2017B3712	BL22XU	岡本 芳浩	

### The Journal of Biological Chemistry

40588	Atsuhiko Shimada	295 (2020) 5818-5833	2015A1095	BL41XU	月原 富武	X-ray Structures of Catalytic Intermediates of Cytochrome <i>c</i> Oxidase Provide Insights into its $\text{O}_2$ Activation and Unidirectional Proton-Pump Mechanisms
40637	Daisuke Hira	(2020) Online publication Sep. 1, 2020	2017A6741	BL44XU	平 大輔	Structural Basis for the Core-Mannan Biosynthesis of Cell Wall Fungal-Type Galactomannan in <i>Aspergillus fumigatus</i>
			2017B6741	BL44XU	平 大輔	
			2018B6841	BL44XU	平 大輔	

### The Journal of Physical Chemistry Letters

40338	Yohko Yano	11 (2020) 6330-6336	2016B1167	BL13XU	矢野 陽子	Periodic Elastic Motion in a Self-Assembled Monolayer under Spontaneous Oscillations of Surface Tension: Molecules in a Scrum Push Back a Marangoni Flow
			2017B1137	BL37XU	矢野 陽子	
40465	Yuta Kimura	11 (2020) 3629-3636	2017A1481	BL01B1	雨澤 浩史	3D <i>Operando</i> Imaging and Quantification of Inhomogeneous Electrochemical Reactions in Composite Battery Electrodes
			2017B1508	BL37XU	雨澤 浩史	
			2018A1372	BL37XU	雨澤 浩史	
			2018B1280	BL37XU	雨澤 浩史	
			2019A1467	BL37XU	雨澤 浩史	

### Journal of the American Chemical 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
40337	Dongshuang Wu	142 (2020) 13822-13828	2018B1480	BL02B2	北川 宏	Platinum-Group-Metal High-Entropy-Alloy Nanoparticles
40462	Vivek Srinivas	142 (2020) 14249-14266	2017B8085	BL2	Kern Jan	High-Resolution XFEL Structure of the Soluble Methane Monooxygenase Hydroxylase Complex with its Regulatory Component at Ambient Temperature in Two Oxidation States

### Journal of the Ceramic Society of Japan

40224	Yusuke Iguchi	128 (2020) 431-435	2019B4904	BL15XU	山田 智明	Fabrication of (Pb <sub>0.9</sub> Sr <sub>0.1</sub> )TiO <sub>3</sub> /SrTiO <sub>3</sub> Artificial Superlattice Thin Films and Their Electromechanical Response
			2017A4905	BL15XU	山田 智明	
40360	Hiroataka Hara	128 (2020) 518-522	2017A1606	BL19B2	西堀 麻衣子	Control of Crystal Structure and Performance Evaluation of Multi-Piezo Material of Li <sub>1-x</sub> Na <sub>x</sub> NbO <sub>3</sub> :Pr <sup>3+</sup>

### JPS Conference Proceedings

40126	Akihisa Koizumi	30 (2020) 011170	2013B1239	BL08W	小泉 昭久	Change of Electronic Structure Associated with Hidden Order Transition in URu <sub>2</sub> Si <sub>2</sub> Studied by Compton Scattering Experiment
			2014A1237	BL08W	小泉 昭久	
			2010B1162	BL08W	本山 岳	
40132	Koya Nakagawa	30 (2020) 011146	2017B1226	BL25SU	山崎 篤志	Observation of Electronic Structures in Sr-Based Iridates by Bulk-Sensitive Photoemission Spectroscopy
			2017B1455	BL02B2	高瀬 浩一	
			2016A1230	BL02B2	高瀬 浩一	

### Microscopy and Microanalysis

40236	Lukas Petrich	25 (2019) 743-752	2015A1580	BL20XU	Krill Carl	Reconstruction of Grains in Polycrystalline Materials From Incomplete Data Using Laguerre Tessellations
40503	Atsushi Momose	24 (2018) 218-219	2017A1360	BL37XU	百生 敦	X-ray Phase Imaging by Two-Beam Interferometry with Full-Field X-ray Microscope and Transmission Grating

### Nanoscale

40376	Yuxiao Zhang	12 (2020) 11908-11915	2018B1185	BL01B1	桑原 泰隆	Hybrid Phase 1T/2H-MoS <sub>2</sub> with Controllable 1T Concentration and Its Promoted Hydrogen Evolution Reaction
			2018B1082	BL01B1	森 浩亮	
40627	Abbas Beheshti Askari	12 (2020) 15185-15192	2017A4256	BL12XU	Al Samarai Mustafa	<i>In situ</i> X-ray Emission and High-Resolution X-ray Absorption Spectroscopy Applied to Ni-based Bimetallic Dry Methane Reforming Catalysts
			2018B4253	BL12XU	Al Samarai Mustafa	
			2018B4270	BL12XU	Al Samarai Mustafa	

### Nuclear Instruments and Methods in Physics Research Section A

40217	Ken Watanabe	925 (2019) 188-192	2018A6102	BL31LEP	新山 雅之	A Compensated Multi-gap RPC with 2 m Strips for the LEPS2 Experiment
40218	Minho Kim	923 (2019) 38-44	2017B6001	BL33LEP	堀田 智明	Development of a Threshold Aerogel Cherenkov Detector for $K/\pi$ Separation in the H-dibaryon Search at J-PARC
			2018A6004	BL33LEP	堀田 智明	
			2018B6004	BL33LEP	堀田 智明	

### Organic Electronics

40347	Tomofumi Kadoya	78 (2020) 105570	2017B1170	BL02B1	田原 圭志朗	Steric Effect of Halogen Substitution in an Unsymmetrical Benzothienobenzothiophene Organic Semiconductor
40597	Takeshi Fukuda	48 (2017) 96-105	2016A1568	BL19B2	吉本 則之	Improved Performance of Organic Photovoltaic Cells with PTB7-Th:PC71 BM by Optimized Solvent Evaporation Time in Electro Spray Deposition

### Physical Review Research

40454	Rina Takagi	2 (2020) 033321	2015A1317	BL02B1	宮川 和也	Multiorbital Antiferromagnetic Metal Induced by Intramolecular Self-Doping
40648	Shunsuke Kitou	2 (2020) 033503	2009A0083	BL02B1	澤 博	Collapse of the Simple Localized 3d <sup>f</sup> Orbital Picture in Mott Insulator
			2019A0070	BL02B1	澤 博	

### Polymer

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
40526	Masahiko Okamoto	191 (2020) 122269	2011A7220	BL03XU	三田 一樹	Development of Elastic Recovering 4-methyl-1-pentene/Propylene Copolymer
			2011B7270	BL03XU	三田 一樹	
			2012A7219	BL03XU	三田 一樹	
			2013A7218	BL03XU	三田 一樹	
40602	Ryohei Ikura	196 (2020) 122465	2020A1524	BL43IR	高島 義徳	Preparation of Hydrophilic Polymeric Materials with Movable Cross-Linkers and Their Mechanical Property

### Protein Science

40400	Ryo Uehara	29 (2020) 2000-2008	2018A2510	BL26B1	田中 俊一	Crystal Structure of a GH1 $\beta$ -glucosidase from <i>Hamamotota singularis</i>
			2018B6828	BL44XU	田中 俊一	
			2019A2553	BL26B1	田中 俊一	
			2019B6926	BL44XU	田中 俊一	
40547	Kondo Hiroki	29 (2020) 2213-2225	2014A1388	BL41XU	今田 勝巳	Structural Basis of Strict Substrate Recognition of L-lysine $\alpha$ -oxidase from <i>Trichoderma viride</i>
			2017A2585	BL26B1	今田 勝巳	

### Radiation Physics and Chemistry

40115	Ryohei Shimokasa	175 (2020) 108150	2016B1961	BL39XU	河村 直己	Temperature-Induced Valence Transition in $\text{EuNi}_2(\text{Si}_{1-x}\text{Ge}_x)_2$ Investigated by High-Energy Resolution Fluorescence Detection X-ray Absorption Spectroscopy
			2017A1061	BL39XU	河村 直己	
			2017A1857	BL39XU	河村 直己	
			2017B1066	BL39XU	河村 直己	
			2017B1068	BL39XU	三村 功次郎	
2018A1053	BL39XU	三村 功次郎				
40180	Yoshikatsu Ueda	176 (2020) 109071	2018A1739	BL14B2	上田 義勝	Analysis on XAFS for Xe Ultra Fine Bubbles in Pure Water

### Superconductor Science and Technology

40122	Michinaka Sugano	33 (2020) 085003	2014B1860	BL28B2	菅野 未知央	Development of Cryogenic Tensile Testing Apparatus for Lattice Strain Measurement using Synchrotron Radiation for REBCO Composite Conductors
40603	Masafumi Sakata	33 (2020) 114004	2014B0112	BL10XU	清水 克哉	Superconductivity of Lanthanum Hydride Synthesized using $\text{AlH}_3$ as a Hydrogen Source

### Surface and Interface Analysis

40120	Satoshi Yasuno	(2020) Online published 25 June 2020	2018A1563	BL46XU	安野 聡	Relative Sensitivity Factors for Hard X-ray Photoelectron Spectroscopy with Photon Energies of 3.0, 5.9, 7.9, and 9.9 keV
			2018A1695	BL46XU	池野 成裕	
			2018A1745	BL46XU	安野 聡	
			2018B1589	BL46XU	安野 聡	
			2019A1640	BL46XU	安野 聡	
			2019A1754	BL46XU	安野 聡	
			2019A1832	BL46XU	陰地 宏	
40510	Takashi Doi	(2020) Online published 19 August, 2020	2016A3821	BL23SU	土井 教史	Surface Segregation Effect for Prevention of Oxidation in Ni-X (X=Sn, Sb) Alloy by in situ Photoelectron Spectroscopy
			2016B3835	BL23SU	土井 教史	
			2018A1224	BL47XU	土井 教史	
			2018B1341	BL47XU	土井 教史	

### Sustainable Energy & Fuels

40366	Dinesh Bhalothia	3 (2019) 1668-1681	2018A4271	BL12XU	Chen Tsan Yao	Effects of Pt Metal Loading on the Atomic Restructure and Oxygen Reduction Reaction Performance of Pt-cluster Decorated Cu@Pd Electrocatalysts
40369	Dinesh Bhalothia	4 (2020) 809-823	2018B4128	BL12B2	Chen Tsan Yao	Sub-nanometer Pt Cluster Decoration Enhances the Oxygen Reduction Reaction Performances of $\text{NiO}_x$ Supported Pd Nano-Islands

### 軽金属 (Journal of Japan Institute of Light Metals) -1

40114	Hiroki Adachi	70 (2020) 274-280	2014B1580	BL19B2	中西 英貴	Measurement of Dislocation Density Change during Tensile Deformation in Coarse-Grained Aluminum by In-situ XRD Technique with Tester Oscillation
			2017A1817	BL19B2	足立 大樹	
			2018B1588	BL19B2	足立 大樹	

軽金属 (Journal of Japan Institute of Light Metals) -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
40606	Seungwon Lee	67 (2017) 162-167	2015A0076	BL20XU	戸田 裕之	Precipitation Structure and Mechanical Properties on Peak-Aged Al-Zn-Mg Alloys Including Different with Some Zn/Mg Ratios

ACS Chemical Biology

40133	Rafaella Stepanova	15 (2020) 1517-1525	2017B2718	BL26B1	藤橋 雅宏	Characterization of Class IB Terpene Synthase: The First Crystal Structure Bound with a Substrate Surrogate
			2018B2711	BL26B1	藤橋 雅宏	
			2019B2716	BL45XU	藤橋 雅宏	
			2017B2718	BL41XU	藤橋 雅宏	
			2018B2711	BL41XU	藤橋 雅宏	

ACS Materials Letters

40352	Ju-Ping Ma	2 (2020) 367-375	2019B1056	BL02B2	Sun Hong-Tao	Doping Induces Structural Phase Transitions in All-Inorganic Lead Halide Perovskite Nanocrystals
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ACS Nano

40661	Takaaki Taniguchi	14 (2020) 6663-6672	2017A4605	BL15XU	谷口 貴章	On/Off Boundary of Photocatalytic Activity between Single- and Bilayer MoS <sub>2</sub>
			2016B4604	BL15XU	長田 実	
			2016A4604	BL15XU	長田 実	

Acta Crystallographica Section D

40534	Takeshi Hiromoto	76 (2020) 946-953	2016B2725	BL26B1	廣本 武史	Towards Cryogenic Neutron Crystallography on the Reduced Form of [NiFe]-hydrogenase
			2017A2554	BL26B1	廣本 武史	
			2017B2734	BL41XU	廣本 武史	
			2017A6744	BL44XU	廣本 武史	
			2017B6744	BL44XU	廣本 武史	
			2019A1005	BL41XU	山本 雅貴	

Advanced Functional Materials

40478	Seiichi Kawahara	30 (2020) 1909791	2019A1354	BL40B2	秋葉 勇	Nanodiamond Glass with Rubber Bond in Natural Rubber
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Advanced Synthesis and Catalysis

40635	Aya Ohno	(2020) Online publication 2 Sep. 2020	2019A1791	BL14B2	佐藤 太久真	A Convuluted Polyvinylpyridine-Palladium Catalyst for Suzuki-Miyaura Coupling and C-H Arylation
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Advanced Theory and Simulations

40483	Keishu Utimula	3 (2020) 2000039	2016B1618	BL02B2	矢野 正雄	Machine-Learning Clustering Technique Applied to Powder X-Ray Diffraction Patterns to Distinguish Compositions of ThMn <sub>12</sub> -Type Alloys
			2017A1602	BL02B2	矢野 正雄	

Aging

40383	Catherine Cheng	11 (2019) 12497-12531	2018A1105	BL20B2	Pierscinek Barbara	Age-Related Changes in Eye Lens Biomechanics, Morphology, Refractive Index and Transparency
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AIChE Journal

40232	Kakeru Fujiwara	65 (2019) e16717	2018B1788	BL14B2	多田 昌平	Influences of Particle Size and Crystallinity of Highly Loaded CuO/ZrO <sub>2</sub> on CO <sub>2</sub> Hydrogenation to Methanol
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AIP Advances

40572	Hidekazu Takano	10 (2020) 095115	2016B1147	BL20XU	高野 秀和	Development of X-ray Phase Tomographic Microscope Based on Talbot Interferometer at BL37XU, SPring-8
			2016B1043	BL37XU	百生 敦	
			2017A1288	BL37XU	高野 秀和	
			2017B1361	BL37XU	高野 秀和	
			2017A1195	BL37XU	松尾 光一	
			2018B1216	BL37XU	松尾 光一	



### AIP 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
40331	Toshimori Sekine	(2020)	2015A8065	BL3	関根 利守	Fast Deformation of Shocked Quartz and Implications for Planar Deformation Features Observed in Shocked Quartz

### American Mineralogist

40334	Naoki Hisano	(2020) 10.2138/am-2020-7410	2017A1384	BL04B1	坂巻 竜也	Elastic Properties and Structures of Pyrope Glass under High Pressures
			2016B1111	BL04B1	坂巻 竜也	
			2017B1267	BL04B1	坂巻 竜也	
			2018A1302	BL04B1	坂巻 竜也	
			2018B1180	BL04B1	坂巻 竜也	

### Analytical Chemistry

40553	Koji Kimura	92 (2020) 9956-9962	2017A7611	BL28XU	松原 英一郎	Application of Anomalous X-ray Scattering Method to Liquid Electrolytes Used in a Battery: Local Structural Analysis around a Dilute Metallic Ion
			2017B7611	BL28XU	松原 英一郎	
			2018A7611	BL28XU	松原 英一郎	
			2019A7614	BL28XU	安部 武志	

### Analytical Sciences

40343	Tomoya Suzuki	35 (2019) 1353-1360	2018A3736	BL22XU	鈴木 智也	Unique Anion-exchange Properties of 3,3'-Diaminobenzidine Resulting in High Selectivity for Rhodium(III) over Palladium(II) and Platinum(IV) in a Concentrated Hydrochloric Acid Solution
			2018B3736	BL22XU	鈴木 智也	
			2019A3738	BL22XU	鈴木 智也	

### Antioxidants

40208	Masakazu Sugishima	9 (2020) 673	2014A1040	BL38B1	杉島 正一	Conformational Equilibrium of NADPH-Cytochrome P450 Oxidoreductase Is Essential for Heme Oxygenase Reaction
			2014B6963	BL44XU	和田 啓	

### Applied Sciences

40428	Kosuke Suzuki	10 (2020) 5855	2017B1360	BL08W	鈴木 宏輔	Identifying the Degradation Mechanism in Commercial Lithium Rechargeable Batteries via High-Energy X-ray Compton Scattering Imaging
			2018A1320	BL08W	鈴木 宏輔	
			2019B1668	BL08W	鈴木 宏輔	

### Applied Surface Science

40344	Chi-Jung Chang	469 (2019) 703-712	2017B4125	BL12B2	Lin Yan-Gu	AgI-BiOI-graphene Composite Photocatalysts with Enhanced Interfacial Charge Transfer and Photocatalytic H <sub>2</sub> Production Activity
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### Biomacromolecules

40600	Hinako Tsuchiya	21 (2020) 3936-3944	2020A1524	BL43IR	高島 義徳	Supramolecular Biocomposite Hydrogels Formed by Cellulose and Host-Guest Polymers Assisted by Calcium Ion Complexes
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### Bioorganic and Medicinal Chemistry Letters

40573	Yuka Murakawa	30 (2020) 127546	2019B6913	BL44XU	木下 誉富	Structural Basis for Producing Selective MAP2K7 Inhibitors
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### BioRxiv

40599	Hasan DeMirici	(2019) Online published Apr. 12, 2019	2017A8055	BL3	Demirci Hasan	Coupled Inter-subunit Dynamics Enable the Fastest CO <sub>2</sub> -fixation by Reductive Carboxylases
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### Bulletin of the Chemical Society of Japan

40545	Takeshi Hasegawa	93 (2020) 1127-1138	2017B1831	BL46XU	尾坂 格	MAIRS: Innovation of Molecular Orientation Analysis in a Thin Film
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### Carbon

40522	Haruki Okuda	157 (2020) 295-297	2018A7214	BL03XU	中田 克	Large Apparent Internal Deformation of Carbon Fibres under Tension Observed by in-situ Microbeam Small-Angle X-ray Scattering
			2018B7264	BL03XU	中田 克	

### Catalysis Communications

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
40402	Satoshi Hinokuma	123 (2019) 64-68	2018A1182	BL01B1	日隈 聡士	Ammonia-rich Combustion and Ammonia Combustive Decomposition Properties of Various Supported Catalysts

### Catalysts

40406	Kotohiro Nomura	9 (2019) 1016	2015B1308	BL01B1	山添 誠司	Solution X-Ray Absorption Spectroscopy (XAS) for Analysis of Catalytically Active Species in Reactions with Ethylene by Homogeneous (Imido)vanadium(V) Complexes—Al Cocatalyst Systems
			2016A1455	BL01B1	野村 琴広	
			2016B1509	BL01B1	野村 琴広	
			2017A1512	BL01B1	野村 琴広	
			2018A1245	BL01B1	野村 琴広	
			2018B1335	BL01B1	野村 琴広	

### CCS Chemistry

40415	Wenjje Li	2 (2020) 1009-1015	2018B1515	BL44B2	Lin Kun	Strong Coupling of Magnetism and Lattice Induces Near-Zero Thermal Expansion over Broad Temperature Windows in $\text{ErFe}_{10}\text{V}_{2.3}\text{Mo}_x$ Compounds
			2019A1378	BL44B2	Lin Kun	

### Chem

40579	Masaki Matsubara	2 (2017) 860-876	2013A7205	BL03XU	高田 一広	A Low-Symmetry Cubic Mesophase of Dendronized CdS Nanoparticles and Their Structure-Dependent Photoluminescence
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### ChemCatChem

40340	Saburo Hosokawa	12 (2020) 4276-7280	2017B1457	BL01B1	細川 三郎	Excellent Catalytic Activity of a Pd-Promoted $\text{MnO}_x$ Catalyst for Purifying Automotive Exhaust Gases
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### ChemElectroChem

40570	Kazuki Yoshii	(2020) Online publication 28 Aug. 2020	2017B7610	BL28XU	松原 英一郎	Effects of the Film Formation on the Electrodeposition of Lithium
			2018A7610	BL28XU	松原 英一郎	

### Chemical and Pharmaceutical Bulletin

40326	Hiroshi Iijima	68 (2020) 447-451	2018B6870	BL44XU	飯島 洋	Crystal Structure of Catechol <i>O</i> -Methyltransferase Complexed with Nitecapone
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### Chemical Engineering Journal

40393	Yingchao Cheng	402 (2020) 126225	2018A1508	BL01B1	高岡 昌輝	Characterizing the Mechanisms of Gas-Phase Elemental Mercury Adsorption with Iodine-Impregnated Activated Carbons using Brunauer-Emmett-Teller Analysis, X-ray Diffraction, X-ray Photoelectron Spectroscopy, and X-ray Absorption Near-Edge Structure Analysis
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### Chemical Geology

40625	Kohei Suzuki	550 (2020) 119744	2018A1696	BL14B2	所 千晴	Removal Mechanisms of Cadmium by $\delta\text{-MnO}_2$ in Adsorption and Coprecipitation Processes at pH 6
			2019B1867	BL14B2	加藤 達也	

### The Chemical Record

40234	Tomoya Uruga	19 (2019) 1444-1456	2013A7802	BL36XU	岩澤 康裕	SPring-8 BL36XU: Synchrotron Radiation X-Ray-Based Multi-Analytical Beamline for Polymer Electrolyte Fuel Cells under Operating Conditions
			2013A7803	BL36XU	岩澤 康裕	
			2013B7806	BL36XU	岩澤 康裕	
			2014A7801	BL36XU	岩澤 康裕	
			2014A7806	BL36XU	岩澤 康裕	
			2014B7804	BL36XU	岩澤 康裕	
			2015A7840	BL36XU	岩澤 康裕	
			2015B7840	BL36XU	岩澤 康裕	
			2016A7840	BL36XU	岩澤 康裕	
			2016B7840	BL36XU	岩澤 康裕	
			2017A7840	BL36XU	岩澤 康裕	
			2017B7840	BL36XU	岩澤 康裕	
			2018A7840	BL36XU	岩澤 康裕	
2018B7840	BL36XU	岩澤 康裕				

### Chemometrics and Intelligent Laboratory Systems

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
40170	Nobuaki Kikkawa	206 (2020) 104096	2017A7030	BL33XU	田島 伸	Extraction of Component Bases from Mixed Spectra using Non-Negative Matrix Factorization with Dissimilarity Regularization
			2017B7030	BL33XU	田島 伸	
			2018A7030	BL33XU	田島 伸	
			2018B7030	BL33XU	田島 伸	

### ChemSusChem

40135	Kazuhide Kamiya	13 (2020) 3462-3468	2018A1349	BL01B1	原田 隆史	Light-Intensity-Responsive Changes of Products in Photocatalytic Reduction of Nitrous Acid on a Cu-Doped Covalent Triazine Framework-TiO <sub>2</sub> Hybrid
			2019A1394	BL01B1	神谷 和秀	
			2019B1159	BL01B1	神谷 和秀	

### Communications Biology

40539	Hiroaki Tanabe	3 (2020) 446	理研	BL32XU		Human Adiponectin Receptor AdipoR1 Assumes Closed and Open Structures
			2014B1214	BL32XU	藤井 佳史	
			2015A1113	BL32XU	藤井 佳史	
			2016B2720	BL32XU	田辺 弘明	
			2017B2715	BL32XU	田辺 弘明	
			2019A2546	BL32XU	田辺 弘明	

### Communications Materials

40202	Kenjiro Yazawa	1 (2020) 10	2019A1121	BL40XU	沼田 圭司	Simultaneous Effect of Strain Rate and Humidity on the Structure and Mechanical Behavior of Spider Silk
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### Composites Part A: Applied Science and Manufacturing

40575	Hiroki Ota	139 (2020) 106101	2018B1789	BL14B2	細井 厚志	Effect of the Interfacial Nanostructure on the Interlaminar Fracture Toughness and Damage Mechanisms of Directly Bonded Carbon Fiber Reinforced Thermoplastics and Aluminum
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### Contributions to Mineralogy and Petrology

40358	Tomohiro Ohuchi	175 (2020) 79	2018B1052	BL04B1	大内 智博	Switching from Seismic Faulting to Silent Slips in Harzburgite Induced by H <sub>2</sub> O Fluid at Upper Mantle Pressures
			2015A0075	BL04B1	入舩 徹男	

### Corrosion Science

40457	Tomohiko Hojo	177 (2020) 108957	2018B3681	BL14B1	北條 智彦	Effects of Residual Stress and Plastic Strain on Hydrogen Embrittlement of a Stretch-formed TRIP-aided Martensitic Steel Sheet
			2017B3681	BL14B1	秋山 英二	
			2019A3681	BL14B1	北條 智彦	

### Current Opinion in Solid State and Materials Science

40398	Masakazu Kobayashi	24 (2020) 100835	2019A1157	BL20XU	小林 正和	3D/4D Characterization of Strain Distribution Evolving within the Microstructure during Plastic Deformation
			2018A1338	BL47XU	小林 正和	
			2017B1132	BL20XU	小林 正和	
			2016A1061	BL20XU	小林 正和	

### Dalton Transactions

40407	Jun Yi	49 (2020) 8008-8028	2015B1308	BL01B1	山添 誠司	Solution XANES and EXAFS Analysis of Active Species of Titanium, Vanadium Complex Catalysts in Ethylene Polymerisation/Dimerisation and Syndiospecific Styrene Polymerisation
			2016A1455	BL01B1	野村 琴広	
			2016B1509	BL01B1	野村 琴広	
			2017A1512	BL01B1	野村 琴広	
			2018A1245	BL01B1	野村 琴広	
			2018B1335	BL01B1	野村 琴広	

### ECS Transactions

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
40594	Takeshi Watanabe	98 (2020) 477	2015A1731	BL19B2	渡辺 剛	Development of in situ A-SAXS and XAS Measurements of Pt Catalyst under Controlled Electrochemical Condition Using Channel Flow Electrode Cell
			2016A1553	BL19B2	渡辺 剛	
			2017A1775	BL19B2	犬飼 潤治	
			2017A1843	BL19B2	渡辺 剛	
			2017B1924	BL19B2	渡辺 剛	
			2017B1921	BL19B2	犬飼 潤治	
			2018A1789	BL19B2	渡辺 剛	
			2019A1819	BL19B2	渡辺 剛	
			2019A1658	BL19B2	渡辺 剛	
			2019B1717	BL19B2	犬飼 潤治	
2020A1631	BL19B2	渡辺 剛				
2017A1826	BL19B2	犬飼 潤治				

### Electrochemistry Communications

40555	Hisao Kiuchi	118 (2020) 106790	2017A7610	BL28XU	松原 英一郎	<i>Operando</i> Hard X-ray Photoelectron Spectroscopy of LiCoO <sub>2</sub> Thin Film in an All-Solid-State Lithium Ion Battery
			2017B7610	BL28XU	松原 英一郎	
			2018A7610	BL28XU	松原 英一郎	
			2018B7610	BL28XU	松原 英一郎	

### European Polymer Journal

40601	Motofumi Osaki	134 (2020) 109806	2020A1524	BL43IR	高島 義徳	Photoresponsive Polymeric Actuator Cross-Linked by an 8-armed Polyhedral Oligomeric Silsesquioxane
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### Experimental Eye Research

40384	Kehao Wang	197 (2020) 108112	2016A1096	BL20B2	Pierscinek Barbara	Cell Compaction is not Required for the Development of Gradient Refractive Index Profiles in the Embryonic Chick Lens
			2017A1197	BL20B2	Pierscinek Barbara	
			2018A1105	BL20B2	Pierscinek Barbara	

### Fuel Processing Technology

40378	Mii Betchaku	209 (2020) 106545	2019A1827	BL14B2	別役 美衣	Reforming of Toluene with Simulated Automobile Exhaust Gas over Hydrotalcite-Like-Compound-Derived Ni Catalyst
			2019B1906	BL14B2	別役 美衣	

### Geochimica et Cosmochimica Acta

40363	Satoshi Mitsunobu	274 (2020) 211-227	2017B1556	BL01B1	光延 聖	Millimeter-Scale Topsoil Layer Blocks Arsenic Migration in Flooded Paddy Soil
			2015B1452	BL01B1	光延 聖	

### Geophysical Research Letters

40585	Chaowen Xu	47 (2020) e2020GL088877	2014B1435	BL04B1	井上 徹	Sound Velocities of Al-Bearing Phase D up to 22 GPa and 1300 K
			2015B1509	BL04B1	井上 徹	
			2016B1497	BL04B1	井上 徹	
			2017B1549	BL04B1	井上 徹	
			2018B1708	BL04B1	Xu Chaowen	

### Global Challenges

40480	Jun-Xiao Lin	4 (2020) 2000025	2018A4128	BL12B2	Hsu Hua-Shu	Manipulated Optical Absorption and Accompanied Photocurrent Using Magnetic Field in Charger Transfer Engineered CZnO Nanowires
			2018B4130	BL12B2	Hsu Hua-Shu	
			2019A4127	BL12B2	Hsu Hua-Shu	

### GSA Bulletin

40475	Teruyuki Maruoka	132 (2020) 2055-2066	2011B1257	BL37XU	丸岡 照幸	Enrichment of Chalcophile Elements in Seawater Accompanying the End-Cretaceous Impact Event
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### High Pressure Research

40388	Hiroshi Fukui	(2020) Published online: 17 Aug. 2020	2018A1060	BL35XU	米田 明	Elasticity of Single-Crystal NaCl under High-Pressure: Simultaneous Measurement of X-ray Inelastic Scattering and Diffraction
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### IEEE Transactions on Biomedical 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
40381	Kehao Wang	67 (2020) 999-1006	2014A1710	BL20B2	Pierscionek Barbara	A Modeling Approach for Investigating Opto-Mechanical Relationships in the Human Eye Lens
			2015A1864	BL20B2	Pierscionek Barbara	
			2016A1096	BL20B2	Pierscionek Barbara	

### International Journal of Heat and Mass Transfer

40128	Shunsuke Hashimoto	159 (2020) 120081	2017A7033	BL33XU	原田 雅史	Enhancement Mechanism of Convective Heat Transfer via Nanofluid: An Analysis by Means of Synchrotron Radiation Imaging
			2017B7033	BL33XU	原田 雅史	
			2018A7033	BL33XU	原田 雅史	
			2019B7035	BL33XU	松永 拓郎	

### International Journal of Metalcasting

40432	Kiattisaksri Chatcharit	14 (2020) 794-801	2017A1337	BL20XU	安田 秀幸	Time Evolution of Solidification Structure in Ductile Cast Iron with Hypereutectic Compositions
			2018A1465	BL28B2	安田 秀幸	
			2018A1322	BL20B2	杉山 明	
			2019A1553	BL20B2	杉山 明	

### International Journal of Molecular Sciences

40474	Haruhiko Inoue	21 (2020) 4033	2009B7003	BL33XU	広瀬 美治	Fe <sup>2+</sup> Ions Alleviate the Symptom of Citrus Greening Disease
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### IOP Conference Series: Materials Science and Engineering

40237	Mingyan Wang	580 (2019) 012048	2015A1580	BL20XU	Krill Carl	Extraction of Grain Boundary Curvature from Voxel-based Representations of Polycrystalline Microstructures
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### IUCrJ

40515	Akinobu Niozu	7 (2020) 276-286	2016A8057	BL3	上田 潔	Characterizing Crystalline Defects in Single Nanoparticles from Angular Correlations of Single-Shot Diffracted X-rays
			2016B8077	BL3	上田 潔	

### Journal of Applied Polymer Science

40546	Akitoshi Morita	(2020) Online publication 7 Sep. 2020	2018A1179	BL43IR	松葉 豪	Evaluation of Hydrophilic Cellulose Nanofiber Dispersions in a Hydrophobic Isotactic Polypropylene Composite
			2018B1156	BL43IR	松葉 豪	
			2019A1185	BL43IR	松葉 豪	
			2017B1108	BL40B2	松葉 豪	

### Journal of Chemical Engineering of Japan

40640	Katsuki Kusakabe	53 (2020) 504-508	2018A1671	BL40B2	永井 杏奈	Co-Oligomerization of Electroconductive Monomers in a Cyclodextrin-Based Metal–Organic Framework
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### Journal of Controlled Release

40509	Jun Matsuno	324 (2020) 405-412	2019B1207	BL40B2	櫻井 和朗	Synthesis and Characterization of Nanoemulsion-Mediated Core Crosslinked Nanoparticles, and in vivo Pharmacokinetics Depending on the Structural Characteristics
			2018B1396	BL40B2	櫻井 和朗	
			2018A1454	BL40B2	櫻井 和朗	

### Journal of Crystal Growth

40488	Osamu Ueda	548 (2020) 125852	2017B1237	BL01B1	富永 依里子	Structural Evaluation of Low-Temperature-Grown InGaAs Crystals on (0 0 1) InP Substrates
			2018A1439	BL02B2	富永 依里子	

### Journal of Energy Storage

40632	Kazuki Chiba	32 (2020) 101775	2017A4906	BL15XU	鋤柄 宜	Thermal Safety Diagram for Lithium-ion Battery using Single-Crystal and Polycrystalline Particles LiNi <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2</sub>
			2016A4901	BL15XU	鋤柄 宜	
			2016B4903	BL15XU	鋤柄 宜	

### Journal of Hazardous Materials

40593	Yusuke Kojima	403 (2021) 123878	2015B1256	BL01B1	藤森 崇	Bromination of Carbon and Formation of PBDD/Fs by Copper Bromide in Oxidative Thermal Process
			2016B1207	BL01B1	藤森 崇	
			2018A1346	BL01B1	藤森 崇	

### 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
40443	Hiroyuki Kanda	8 (2020) 17113-17119	2019A1719	BL46XU	柴山 直之	Gradient Band Structure: High Performance Perovskite Solar Cells using Poly(bisphenol A anhydride-co-1,3-phenylenediamine)
			2019A1781	BL46XU	柴山 直之	
			2019B1870	BL46XU	柴山 直之	
			2019A1708	BL19B2	中村 唯我	
			2019A1774	BL19B2	中村 唯我	
2019B1865	BL19B2	中村 唯我				

### Journal of Materials Chemistry B

40492	Atsumi Shundo	8 (2020) 4570-4574	2015A1748	BL40B2	大野 正司	Mesoscopic Heterogeneity in a Nanocellulose-Containing Cell Storage Medium
			2015B1665	BL40B2	大野 正司	

### Journal of Materials Chemistry C

40118	Shun Yoshioka	8 (2020) 9205-9212	2015A1184	BL02B2	宮崎 譲	Crystal Structure, Electronic Structure and Thermoelectric Properties of $\beta$ - and $\gamma$ -Zn <sub>4</sub> Sb <sub>3</sub> Thermoelectrics: a (3 + 1)-dimensional Superspace Group Approach
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### Journal of Microbes and Infections

40621	Rui Sun	11 (2016) 234-239	2013A1275	BL41XU	Zhang Wen	Ribosome Preparation from Mycobacteria
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### Journal of Mineralogical and Petrological Sciences

40353	Yoshinari Sano	115 (2020) 261-275	2018B3633	BL14B1	興野 純	Structure Changes of Nanocrystalline Mackinawite under Hydrothermal Conditions
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### Journal of Molecular Liquids

40113	Ildikó Pethes	314 (2020) 113664	2017B1246	BL04B2	Temleitner László	Temperature-Dependent Structure of Methanol-Water Mixtures on Cooling: X-ray and Neutron Diffraction and Molecular Dynamics Simulations
			2018A1132	BL04B2	Temleitner László	

### Journal of Physics: Condensed Matter

40341	Masanori Inui	32 (2020) 214003	2016A1200	BL35XU	乾 雅祝	Peculiar Temperature Dependence of Dynamical Sound Speed in Liquid Se <sub>50</sub> Te <sub>50</sub> by Inelastic X-ray Scattering
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### Journal of The Electrochemical Society

40552	Mitsuo Kawasaki	167 (2020) 120518	2018A7603	BL28XU	松原 英一郎	<i>Operando</i> Observations of Reversible $\alpha$ -BiF <sub>3</sub> Conversion in Liquid Electrolyte by Synchrotron Radiation Diffraction and <sup>7</sup> Li Nuclear Magnetic Resonance
			2018B7603	BL28XU	松原 英一郎	
			2019A7613	BL28XU	安部 武志	
			2019B7613	BL28XU	安部 武志	

### Journal of the Japan Petroleum Institute

40375	Yasutaka Kuwahara	63 (2020) 204-212	2016A1057	BL01B1	桑原 泰隆	Decarbonylation of Furfural to Furan over Titania-supported Palladium Nanoparticles Prepared by a Photo-assisted Deposition Method
			2018A1089	BL01B1	桑原 泰隆	

### Journal of the Optical Society of America A

40380	Kehao Wang	36 (2019) B116-B122	2014A1710	BL20B2	Pierscionek Barbara	Contributions of Shape and Stiffness to Accommodative Loss in the Ageing Human Lens: A Finite Element Model Assessment
			2015A1864	BL20B2	Pierscionek Barbara	
			2016A1096	BL20B2	Pierscionek Barbara	

### Journal of Thermal Analysis and Calorimetry

40357	Gen-ichiro Yamamoto	(2020) Online published 1 Apr. 2020	2018A3633	BL14B1	興野 純	In situ and ex situ Studies on Thermal Decomposition Process of Hydromagnesite Mg <sub>5</sub> (CO <sub>3</sub> ) <sub>4</sub> (OH) <sub>2</sub> ·4H <sub>2</sub> O
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### JVS: Vascular Science

40185	Koki Yokawa	1 (2020) 81-91	2015A1581	BL20B2	築部 卓郎	Synchrotron Radiation-Based X-ray Phase-Contrast Imaging of the Aortic Walls in Acute Aortic Dissection
			2016A1186	BL20B2	築部 卓郎	
			2015B1491	BL20B2	築部 卓郎	

### Macromolecular Symposia

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
40257	Mitsuhiro Shibayama	385 (2019) 1800156	2015A7210	BL03XU	和泉 篤士	Phenolic Resins – Recent Progress of Structure and Properties Investigations
			2015B3330	BL08B2	和泉 篤士	

### Materialia

40404	Kakeru Ninomiya	14 (2020) 100876	2016B1329	BL27SU	西堀 麻衣子	Analysis of the Dynamic Behavior and Local Structure of Solid-Solution Carbon in Age-Hardened Low-Carbon Steels by Soft X-ray Absorption Spectroscopy
			2016B1977	BL05XU	加藤 和男	
			2017A1606	BL19B2	西堀 麻衣子	
			2017A1520	BL28B2	西堀 麻衣子	
			2017A1799	BL05XU	西堀 麻衣子	
			2019B1765	BL27SU	二宮 翔	

### Materials

40346	Kota Morino	13 (2020) 2164	2019B1195	BL02B2	後藤 陽介	Crystal Structure and Thermoelectric Transport Properties of As-Doped Layered Pnictogen Oxyselenides $\text{NdO}_{0.8}\text{F}_{0.2}\text{Sb}_{1-x}\text{As}_x\text{Se}_2$
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### Materials Characterization

40134	Tomoya Nagira	167 (2020) 110469	2017A1110	BL20B2	柳樂 知也	Time-resolved X-ray Imaging of Solidification Cracking for Al-Cu Alloy at the Weld Crater
			2017B1116	BL20B2	柳樂 知也	
			2017B1117	BL20XU	柳樂 知也	
			2018A1110	BL20XU	柳樂 知也	
			2018A1111	BL20XU	柳樂 知也	

### Materials Chemistry Frontiers

40663	Oruganti Anjaneyulu	2 (2018) 580-584	2017A4602	BL15XU	阿部 英樹	Light-Promoted Conversion of Greenhouse Gases over Plasmonic Metal-Carbide Nanocomposite Catalysts
			2016B4600	BL15XU	阿部 英樹	

### Materials Letters

40201	Hiroshi Nozaki	277 (2020) 128383	2017A7024	BL33XU	松尾 秀仁	Microstructure of a Solid Oxide Fuel Cell by Microbeam X-Ray Diffraction
			2017B7024	BL33XU	松尾 秀仁	

### Materials Science and Engineering A

40179	Yutaka Yoshida	793 (2020) 139851	2017A1376	BL28B2	吉田 裕	Localized Shear Deformation in Magnesium Alloy by Four-Point Bending
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### Materials Today

40633	Yuki Kobayashi	37 (2020) 43-55	2017A1001	BL47XU	中尾 愛子	Activation and Stabilization Mechanisms of Anionic Redox for Li Storage Applications: Joint Experimental and Theoretical Study on $\text{Li}_2\text{TiO}_3$ - $\text{LiMnO}_2$ Binary System
			2017B1005	BL47XU	中尾 愛子	
			2018B1811	BL19B2	藪内 直明	

### Materials Today Communications

40172	Masaki Kakiage	23 (2020) 100864	2019B1347	BL40XU	上原 宏樹	Preparation of Ultrahigh-Molecular-Weight Polyethylene Fibers by Combination of Melt-Spinning and Melt-Drawing
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### Mechanical Engineering Journal

40482	Ayumi Shiro	7 (2020) 19-00634	2013B3723	BL22XU	城 鮎美	Tensile Deformation and Recrystallization of Aluminum Single Crystals with Sub-Grained Structures Studied by Synchrotron X-ray Radiation
			2014A3722	BL22XU	城 鮎美	

### Minerals

40379	Egor Koemets	10 (2020) 51	2018A1646	BL10XU	Koemets Egor	Interaction Between $\text{FeOOH}$ and $\text{NaCl}$ at Extreme Conditions: Synthesis of Novel $\text{Na}_2\text{FeCl}_4\text{OH}_x$ Compound
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### Molecular Crystals and Liquid Crystals

40525	Sota Kodama	704 (2020) 1-9	2018B1714	BL02B1	水口 敬	Crystal Structure Characterization of Some $\pi$ -conjugated Ionic Crystals toward Electronic Applications
			2019A1704	BL02B1	水口 敬	

### 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
40325	Wen-Ting Chen	87 (2017) 308-316	2014A4005	BL12B2	Yin Hsien Sheng	Chicken Interleukin-1 $\beta$ Mutants are Effective Single-Dose Vaccine Adjuvants that Enhance Mucosal Immune Response
			2015B4002	BL12B2	Yin Hsien Sheng	

### Nano Select

40481	Akihiro Kohara	1 (2020) 334-345	2018B1001	BL40B2	松本 英俊	Quinoidal Bisthienoisatin Based Semiconductors: Synthesis, Characterization, and Carrier Transport Property
			2019A1004	BL40B2	松本 英俊	
			2019B1006	BL40B2	松本 英俊	

### Nanomaterials

40162	Fuyuhiko Tamanoi	10 (2020) 1341	2018B3658	BL14B1	安田 良	Studies on the Exposure of Gadolinium Containing Nanoparticles with Monochromatic X-rays Drive Advances in Radiation Therapy
			2019A3658	BL14B1	安田 良	
			2019B3658	BL14B1	安田 良	

### Nanoscale Advances

40580	Chen Shen	2 (2020) 814-822	2019A7204	BL03XU	高田 一広	Magnetic Field Induced Uniaxial Alignment of the Lyotropic Liquid-Crystalline PMMA-grafted Fe <sub>3</sub> O <sub>4</sub> Nanoplates with Controllable Interparticle Interaction
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### Nature

40385	Shifan Yang	560 (2018) 666-670	2016B2702	BL41XU	Xu Fei	Crystal Structure of the Frizzled 4 Receptor in a Ligand-Free State
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### New Journal of Chemistry

40495	Mohan Gopalakrishnan	44 (2020) 13764-13770	2019B1108	BL02B1	吉成 信人	Anion-templated Assembly of Multinuclear Copper(ii)-triazole Complexes
			2019B1402	BL02B1	小島 達弘	

### Optics Express

40464	Shotaro Matsumura	28 (2020) 25706-25715	2018B8023	BL3	井上 伊知郎	High-Resolution Micro Channel-cut Crystal Monochromator Processed by Plasma Chemical Vaporization Machining for a Reflection Self-Seeded X-ray Free-Electron Laser
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### Organic & Biomolecular Chemistry

40148	Yong Yang	18 (2020) 4949-4955	2018B1394	BL38B1	佐藤 宗太	Synthesis and Stereoisomerism of [η]cyclo-2,9-phenanthrenylene Congeners Possessing Alternating <i>E/Z</i> - and <i>R/S</i> -biaryl Linkages
			2019B1082	BL26B1	佐藤 宗太	

### Organometallics

40408	Zelin Sun	39 (2020) 2998-3009	2018B1335	BL01B1	野村 琴広	Phenoxide-Modified Half-Titanocenes Supported on Star-Shaped ROMP Polymers as Catalyst Precursors for Ethylene Copolymerization
			2019A1233	BL01B1	野村 琴広	

### Physica B: Physics of Condensed Matter

40228	Yu Shiratsuchi	583 (2020) 412052	2013A1751	BL39XU	白土 優	Critical Behavior of Perpendicular Exchange Bias in Ru/Pd/Co/Pt/Cr <sub>2</sub> O <sub>3</sub> /Pd Stacked Films
			2013B1267	BL25SU	白土 優	

### Physica Status Solidi - Rapid Research Letters

40476	Wan-Hsiu Chang Chien	14 (2020) 2000223	2019A4138	BL12B2	Hsu Hua-Shu	Low Current Densities Toggle Optical Polarization Switching in Pt/Yttrium Iron Garnet Magnetic Heterostructures Using Energy Resolution
			2019B4130	BL12B2	Hsu Hua-Shu	
			2019B4140	BL12B2	Hsu Hua-Shu	

### Physical Review A

40519	Yoshiaki Kumagai	101 (2020) 023412	2014A8040	BL3	上田 潔	Real-time Observation of Disintegration Processes within Argon Clusters Ionized by a Hard-X-ray Pulse of Moderate Fluence
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PLoS One

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
40484	Keita Saito	15 (2020) e0231513	2019A2556	BL45XU	伏信 進矢	Crystal Structure of $\beta$ -L-arabinobiosidase Belonging to Glycoside Hydrolase Family 121
			2014B2015	BL26B1	伏信 進矢	
			2016B2714	BL26B1	伏信 進矢	
			2017A2540	BL26B1	伏信 進矢	
			2018A2528	BL26B2	伏信 進矢	

Polymer Chemistry

40508	Rena Tanaka	11 (2020) 4408-4416	2019B1207	BL40B2	櫻井 和朗	Furry Nanoparticles: Synthesis and Characterization of Nanoemulsion-Mediated Core Crosslinked Nanoparticles and Their Robust Stability <i>in vivo</i>
			2018B1396	BL40B2	櫻井 和朗	
			2018A1454	BL40B2	櫻井 和朗	

Polymers

40171	Jia Yang	12 (2020) 1266	2019B1375	BL40B2	佐藤 尚弘	Conformation of Pullulan in Aqueous Solution Studied by Small-Angle X-ray Scattering
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Proceedings of the 6th International Conference on Construction Materials (ConMat'20)

40538	Hiroaki Hasebe	(2020)	2019B1711	BL28B2	杉山 隆文	Evaluation of Interfacial Transition Zone in Concrete by Synchrotron Radiation Microtomography
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Proceedings of the 14th International Congress on of the Deterioration and Conservation of Stone

40365	Etsuko Mizutani	(2020)	2018A1714	BL20B2	水谷 悦子	Preliminary Investigation of Change of Pore Structure Due to Salt Precipitation during Evaporation in Brick with X-ray Computed Tomography
			2018B1756	BL20B2	水谷 悦子	
			2018B1757	BL20XU	水谷 悦子	
			2017B1866	BL37XU	小椋 大輔	

Progress of Theoretical and Experimental Physics

40200	Yudai Seino	2020 (2020) 073C02	2016A8006	BL3	難波 俊雄	New Estimation of the Curvature Effect for the X-ray Vacuum Diffraction Induced by an Intense Laser Field
			2016B8037	BL3	難波 俊雄	

Quantum Beam Science

40164	Kenji Suzuki	4 (2020) 25	2018A3653	BL14B1	城 鮎美	Double-Exposure Method with Synchrotron White X-ray for Stress Evaluation of Coarse-Grain Materials
			2018B3653	BL14B1	城 鮎美	
			2018B3684	BL14B1	鈴木 賢治	
			2019A1636	BL28B2	鈴木 賢治	
			2019B3684	BL14B1	鈴木 賢治	

Reaction Chemistry & Engineering

40368	Tianmiao Wang	5 (2020) 1237-1250	2019A1369	BL01B1	奥村 和	Tungsten-Zirconia-Supported Rhenium Catalyst Combined with a Deoxydehydration Catalyst for the One-Pot Synthesis of 1,4-butanediol from 1,4-anhydroerythritol
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Review of Scientific Instruments

40429	Takashi Kimura	91 (2020) 083706	2012A8034	BL3	西野 吉則	Micro-liquid Enclosure Array and its Semi-Automated Assembling System for X-ray Free-Electron Laser Diffractive Imaging of Samples in Solution
			2012B8039	BL3	西野 吉則	
			2013A8046	BL3	西野 吉則	
			2013B8051	BL3	西野 吉則	
			2014A8035	BL3	西野 吉則	
			2014B8053	BL3	西野 吉則	
			2015A8052	BL3	西野 吉則	
			2015B8050	BL3	西野 吉則	
			2016A8049	BL3	西野 吉則	
			2016B8065	BL3	西野 吉則	
			2017A8006	BL2	西野 吉則	
			2017B8061	BL2	西野 吉則	
			2018A8047	BL2	西野 吉則	
			2018B8025	BL2	西野 吉則	
2019A8023	BL2	西野 吉則				
2019B8016	BL2	西野 吉則				

### RSC Advances

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
40581	Su Ma	10 (2020) 32984-32991	2016B7255	BL03XU	高田 一広	Self-Assembly of Photoresponsive Azo-Containing Phospholipids with a Polar Group as the Tail

### Science Advances

40544	Yoshiki Tanaka	6 (2020) eaba7637	2017A2557	BL32XU	塚崎 智也	Crystal Structure of a YeeE/YedE Family Protein Engaged in Thiosulfate Uptake
			2018A2542	BL32XU	塚崎 智也	
			2019A2518	BL32XU	塚崎 智也	

### Solid State Ionics

40664	Aruto Watanabe	357 (2020) 115459	2018B1507	BL02B2	山本 健太郎	Relationship between Rate Performance and Electronic/Structural Changes during Oxygen Redox of Lithium-rich 4d/3d Transition Metal Oxides
			2017A1025	BL27SU	内本 喜晴	
			2017B1036	BL27SU	内本 喜晴	

### Surface Science

40181	Takuhiro Kakiuchi	701 (2020) 121691	2018B3832	BL23SU	垣内 拓大	Precise Chemical State Analyses of Ultrathin Hafnium Films Deposited on Clean Si(111)-7 × 7 Surface using High-Resolution Core-Level Photoelectron Spectroscopy
			2019A3832	BL23SU	垣内 拓大	

### Zairyo-to-Kankyo

40671	Takahiro Ozawa	69 (2020) 73-76	2019A3409	BL08B2	小澤 敬祐	Synchrotron XAFS Analysis of Corrosion on Steel Surface Using Materials Informatics
			2019B3409	BL08B2	小澤 敬祐	

### Zeitschrift für Physikalische Chemie

40226	Jens Stellhorn	(2020) Published online 24 Apr. 2020	2015B1711	BL35XU	Stellhorn Jens	The Structure of the Amorphous (GeTe) <sub>1-x</sub> (Sb <sub>2</sub> Te <sub>3</sub> ) <sub>x</sub> System and Implications for its Phase-Change Properties
			2014A1624	BL13XU	Stellhorn Jens	
			2014B1733	BL13XU	Stellhorn Jens	

### Zoological Science

40418	Durige Wen	37 (2020) 371-381	2015B1355	BL40B2	岩佐 達郎	Characterization of Localization, Ligand Binding, and pH-Dependent Conformational Changes of Two Chemosensory Proteins Expressed in the Antennae of the Japanese Carpenter Ant, <i>Camponotus Japonicus</i>
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### 材料 (Journal of the Society of Materials Science, Japan)

40163	Kenji Suzuki	69 (2020) 293-299	2018A3653	BL14B1	城 鮎美	A Feasibility Study on X-Ray Stress Measurement with CdTe Pixel Detector
			2018B3653	BL14B1	城 鮎美	
			2018B3684	BL14B1	鈴木 賢治	

### 設計工学 (Journal of Japan Society for Design Engineering)

40608	Masakazu Kobayashi	49 (2014) 558-564	2014A1614	BL20XU	戸田 裕之	Evaluation of Microstructure in Materials by using Synchrotron Radiation Microtomography
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### 鑄造工学 (Journal of Japanese Foundry Engineering Society)

40604	Kazuyuki Shimizu	89 (2017) 239-245	2015A0076	BL20XU	戸田 裕之	Damage Behavior of Al-7%Si Alloys with Refined Eutectic Silicon Particles due to Reduced Phosphor
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### 低温科学 (Low Temperature Science)

40610	Osamu Takahashi	78 (2020) 101-113	2017B1151	BL27SU	高橋 修	Amorphous State and Surface Structure of Forsterite: X-ray Absorption Spectroscopy (XAS) and Theoretical Calculations
			2017B1140	BL27SU	為則 雄祐	
			2016B1133	BL27SU	為則 雄祐	
			2015B1984	BL27SU	為則 雄祐	
			2015A2039	BL27SU	為則 雄祐	
2014B2055	BL27SU	為則 雄祐				

### 日本ガスタービン学会誌 (Journal of Gas Turbine Society of Japan)

40651	Masahiro Negami	48 (2020) 321-326	2016A5010	BL16XU	水間 秀一	Suppression of Thermally Grown Oxide by Pre-oxidation Treatment and Durability Improvement of Thermal Barrier Coatings
			2015B5010	BL16XU	水間 秀一	
			2015A5010	BL16XU	水間 秀一	

日本熱電学会誌 (The Journal of the Thermoelectrics Society of Japan)

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
40469	Atsuko Kosuga	17 (2020) 7-13	2016B1462	BL02B2	小菅 厚子	Effects of Bi-substitution on the Crystal Structure and Thermoelectric Properties of Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> Bulk Materials
			2017A1464	BL02B2	小菅 厚子	

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

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
40174	Naoto Kitamura	67 (2020) 391-395	2016B1859	BL19B2	井手本 康	Effect of Pb Substitution on Electrical Conduction and Sinterability of LaPO <sub>4</sub> -Based Protonic Conductor

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

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
40440	Yuya Kubota	33 (2020) 206-212	2014A7401	BL07LSU	松田 巖	New Soft X-ray Magneto-Optical Method with the Segmented Undulator and its Future Perspectives for New Light Source
			2014B7401	BL07LSU	松田 巖	
			2014B7473	BL07LSU	松田 巖	
			2015A7401	BL07LSU	松田 巖	
			2015B7401	BL07LSU	松田 巖	
			2016A7403	BL07LSU	和達 大樹	
			2016A7504	BL07LSU	田久保 耕	
2016B7403	BL07LSU	和達 大樹				

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
40221	Toshihiko Hiraiwa	(2019)	2008B6001	BL33LEP	堀田 智明	Coherent $\Phi$ -meson Photoproduction from Helium-4 with Linearly Polarized Photon Beam
			2009A6001	BL33LEP	堀田 智明	
			2009B6001	BL33LEP	堀田 智明	
40222	Keigo Mizutani	(2018)	2017B6001	BL33LEP	堀田 智明	$\phi$ Photoproduction on the Proton at $E_{\gamma}=1.5-2.9$ GeV
			2013A6001	BL33LEP	堀田 智明	
			2013B6001	BL33LEP	堀田 智明	
			2014A6001	BL33LEP	堀田 智明	
			2014B6001	BL33LEP	堀田 智明	
			2015A6001	BL33LEP	堀田 智明	
			2015B6001	BL33LEP	堀田 智明	
			2016A6001	BL33LEP	堀田 智明	
			2016B6001	BL33LEP	堀田 智明	
			2007A6001	BL33LEP	堀田 智明	
			2007B6001	BL33LEP	堀田 智明	
2017A6001	BL33LEP	堀田 智明				
40394	Yingchao Cheng	(2020)	2018A1508	BL01B1	高岡 昌輝	Behavior and Control of Mercury in Sewage Sludge Thermal Treatment Process
40395	Yiqun Xiong	(2020)	2015B1830	BL01B1	高岡 昌輝	Study on Behavior of Heavy Metals in Semi-Aerobic Landfill Sites of Municipal Solid Waste Incinerator Residues
			2016B1534	BL01B1	高岡 昌輝	

博士論文 (東北大学)

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
40281	Shun Asano	(2020)	2016A1603	BL01B1	浅野 駿	Annealing Effects on Electronic States in 214-type Cuprate Superconductors by Quantum Beam Spectroscopy
			2016B1196	BL35XU	藤田 全基	
			2017A1381	BL35XU	藤田 全基	
			理研	BL43XU		
			2018B3657	BL14B1	石井 賢司	
			2019A7593	BL07LSU	石井 賢司	
40468	Mahunnop Fakkao	(2019)	2019A1701	BL08W	浅野 駿	Operando Analysis of All-Solid-State Lithium-Ion Battery Cathodes by Using Synchrotron X-Ray Absorption Spectroscopy
			2017A1481	BL01B1	雨澤 浩史	
			2017B1509	BL37XU	雨澤 浩史	
			2017A1484	BL37XU	雨澤 浩史	
			2016B1210	BL27SU	雨澤 浩史	
			2016B1194	BL37XU	雨澤 浩史	
			2016A1310	BL37XU	雨澤 浩史	
			2018A1372	BL37XU	雨澤 浩史	
2018B1285	BL27SU	雨澤 浩史				
2018B1280	BL37XU	雨澤 浩史				

博士論文 (National Central University)

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
40223	Shiuan-Hai Shiu	(2018)	2007A6001	BL33LEP	堀田 智明	Photoproduction of $\Lambda$ and $\Sigma 0$ Hyperons off Protons with Linearly Polarized Photons at $E_\gamma=1.5\text{--}3.0$ GeV
			2007B6001	BL33LEP	堀田 智明	
			2008A6001	BL33LEP	堀田 智明	
			2008B6001	BL33LEP	堀田 智明	
			2009A6001	BL33LEP	堀田 智明	
			2009B6001	BL33LEP	堀田 智明	
			2010A6001	BL33LEP	堀田 智明	
			2010B6001	BL33LEP	堀田 智明	
			2011A6001	BL33LEP	堀田 智明	
			2011B6001	BL33LEP	堀田 智明	
			2012A6001	BL33LEP	堀田 智明	
			2012B6001	BL33LEP	堀田 智明	
2013A6001	BL33LEP	堀田 智明				
2013B6001	BL33LEP	堀田 智明				

博士論文 (University of Minnesota)

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
40507	Biqiong Yu	(2019)	2016B3552	BL11XU	石井 賢司	Synchrotron X-ray Scattering Studies of Complex Oxides
			2017A3586	BL11XU	Greven Martin	
			2017B3552	BL11XU	石井 賢司	

博士論文 (宇都宮大学)

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
40653	Fumiya Mori	(2019)	2016A1804	BL19B2	飯村 兼一	アルキルペンダント型ポリマー膜の構造と剥離力の相関

博士論文 (大阪大学)

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
40121	Hiromasa Fujii	(2020)	2018B1118	BL13XU	若林 裕助	Structural Investigation of Dynamical Solid/Liquid Interface by Time-Resolved X-ray Reflectometry
			2016B0908	BL13XU	若林 裕助	
			2018A1135	BL13XU	若林 裕助	
			2014A1291	BL13XU	若林 裕助	
			2014B1091	BL13XU	若林 裕助	
			2015A1167	BL13XU	若林 裕助	

博士論文 (早稲田大学)

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
40626	Tatsuya Kato	(2020)	2017A1781	BL14B2	渡辺 剛	Enhancement and Mechanism Investigation of Rare Earth Dissolution from Refractory Ores by Mechanochemical Reaction
			2017B1920	BL14B2	渡辺 剛	
			2018A1696	BL14B2	所 千晴	
			2018A1798	BL14B2	加藤 達也	
			2019A1777	BL14B2	加藤 達也	
			2019B1723	BL14B2	渡辺 剛	
			2019A1815	BL14B2	渡辺 剛	
			2019B1867	BL14B2	加藤 達也	

課題以外の成果として登録された論文

ChemMedChem

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	タイトル
40540	Hideaki Niwa	15 (2020) 787-793		BL41XU	Development and Structural Evaluation of <i>N</i> -Alkylated <i>Trans</i> -2-phenylcyclopropylamine-based LSD1 Inhibitors
			理研	BL26B2	

e-Journal of Surface Science and Nanotechnology

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	タイトル
40242	Mihoko Araki	18 (2020) 231-234	光学系		Ellipsometer Equipped with Multiple Mirrors for Element-selective Soft X-ray Experiments

Journal of Synchrotron Radiation

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	タイトル
40430	Kenichi Kato	27 (2020) 1172-1179	装置&技術	BL44B2	On-demand Correction for X-ray Response Non-uniformity in Microstrip Detectors by a Data-driven Approach

**Physical Review E**

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
40543	Toshihiko Hiraawa	102 (2020) 032211	一般		Forced Harmonic Oscillator Interpreted as Diffraction of Light

**Review of Scientific Instruments**

40531	Hirokatsu Yumoto	87 (2016) 051905	光学系	BL29XU	Stitching Interferometry for Ellipsoidal X-ray Mirrors
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**Surface and Interface Analysis**

40532	Hirokatsu Yumoto	40 (2008) 1023-1027	光学系		Stitching Interferometric Metrology for Steeply Curved X-ray Mirrors
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