

## 最近 SPring-8 もしくは SACLA から発表された成果リスト

公益財団法人高輝度光科学研究センター  
利用推進部

SPring-8 もしくは SACLA において実施された研究課題等の成果が公表された場合は JASRI の成果登録データベースに登録していただくことになっており、その内容は以下の URL (SPring-8 論文データベース検索ページ) で検索できます。

[http://www.spring8.or.jp/ja/science/publication\\_database/](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、平成 30 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 2018 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
Japanese Journal of Applied Physics	14	Applied Physics Express	5
Physical Review B	11	Applied Physics Letters	4
Scientific Reports	9	Chemistry Letters	4
Journal of the Physical Society of Japan	8	Inorganic Chemistry	4
Microscopy and Microanalysis	7	Nature Communications	4
The Journal of Physical Chemistry C	6		

他全 141 誌、計 241 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

Japanese Journal of Applied Physics

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
36405	Takahiro Yamada	57 (2018) 06KA07	2016A3822	BL23SU	渡部 平司	Physical and Electrical Characterizations of AlGaIn/GaN MOS Gate Stacks with AlGaIn Surface Oxidation Treatment
			2016B3833	BL23SU	渡部 平司	
36406	Mikito Nozaki	57 (2018) 06KA02	2016B3801	BL23SU	吉越 章隆	Implementation of Atomic Layer Deposition-Based AlON Gate Dielectrics in AlGaIn/GaN MOS Structure and its Physical and Electrical Properties
			2016B3833	BL23SU	渡部 平司	
			2017A3801	BL23SU	吉越 章隆	
			2017A3833	BL23SU	渡部 平司	
36407	Kenta Watanabe	57 (2018) 06KA03	2015B3872	BL23SU	渡部 平司	SiO <sub>2</sub> /AlON Stacked Gate Dielectrics for AlGaIn/GaN MOS Heterojunction Field-Effect Transistors
			2016A3822	BL23SU	渡部 平司	
			2016B3833	BL23SU	渡部 平司	
36422	Tomoya Sato	57 (2018) 0902B8	2016B1717	BL13XU	一ノ瀬 大地	Time Response Demonstration of in situ Lattice Deformation under an Applied Electric Field by Synchrotron-Based Time-Resolved X-ray Diffraction in Polar-Axis-Oriented Epitaxial Pb(Zr,Ti)O <sub>3</sub> Film
36444	Takuya Hiyama	57 (2018) 08RB23	2015A1986	BL46XU	池野 成裕	Study on Chemical Bonding States at Electrode-Silicon Interface Fabricated with Fire-through Control Paste
			2016A1746	BL46XU	小椋 厚志	
			2017A1782	BL46XU	小島 拓人	
36499	Koichi Ito	57 (2018) 06HD08	2017A1475	BL47XU	大田 晃生	Growth of Two Dimensional Ge Crystal by Annealing of Heteroepitaxial Ag/Ge(111) under N <sub>2</sub> Ambient
			2014A0109	BL47XU	宮崎 誠一	
36500	Koichi Ito	57 (2018) 04FJ05	2014A0109	BL47XU	宮崎 誠一	Segregated SiGe Ultrathin Layer Formation and Surface Planarization on Epitaxial Ag(111) by Annealing of Ag/SiGe(111) with Different Ge/(Si + Ge) Compositions
36501	Truyen Nguyen	57 (2018) 04FG11	2017A1475	BL47XU	大田 晃生	High Thermal Stability of Abrupt SiO <sub>2</sub> /GaN Interface with Low Interface State Density
36609	Shingo Yamamoto	57 (2018) 09TD02	2016A8060	BL1	松田 巖	Femtosecond Resonant Magneto-Optical Kerr Effect Measurement on an Ultrathin Magnetic Film in a Soft X-ray Free Electron Laser
			2015B7401	BL07LSU	松田 巖	
			2015A7401	BL07LSU	松田 巖	
			2014B7473	BL07LSU	松田 巖	
			2014B7401	BL07LSU	松田 巖	
36649	Kenji Nomura	57 (2018) 11UF01	2018A5110	BL16XU	淡路 直樹	Improvement of Ferroelectric Random Access Memory Manufacturing Margin by Employing Pt/AlO <sub>x</sub> Bottom Electrode for the La-Doped Pb(Zr,Ti)O <sub>3</sub> Ferroelectric Capacitor
			2017B5110	BL16XU	淡路 直樹	
36714	Zhigang Zhang	57 (2018) 11UB04	2015A0074	BL02B2	森吉 千佳子	Study of Materials Structure Physics of Isomorphous LiNbO <sub>3</sub> and LiTaO <sub>3</sub> Ferroelectrics by Synchrotron Radiation X-ray Diffraction
36796	Shinobu Aoyagi	57 (2018) 11UB06	2016B1432	BL02B1	青柳 忍	Time-Resolved Structure Analysis of Piezoelectric Crystals by X-ray Diffraction under Alternating Electric Field
			2017B1399	BL02B1	青柳 忍	
36822	Masahiro Yano	57 (2018) 08NB13	2016A3801	BL23SU	吉越 章隆	Characterization of SiO <sub>2</sub> Reduction Reaction Region at Void Periphery on Si(110)
			2016B3801	BL23SU	吉越 章隆	
36843	Takashi Eshita	57 (2018) 11UA01	2018A5110	BL16XU	淡路 直樹	Development of Highly Reliable Ferroelectric Random Access Memory and its Internet of Things Applications
			2017B5110	BL16XU	淡路 直樹	

Physical Review B-1

36414	Shunsuke Sakuragi	97 (2018) 214421	2014A1675	BL13XU	櫻木 俊輔	Spontaneous Distortion via the Appearance of Ferromagnetism in Pd Ultrathin Films: Observation of an Inverse Mechanism for the Stoner Criterion
			2015A1775	BL13XU	櫻木 俊輔	
			2015B1689	BL13XU	櫻木 俊輔	
36426	Masato Anada	98 (2018) 014105	2012B4901	BL15XU	若林 裕助	Spatial Coherence of the Insulating Phase in Quasi-Two-Dimensional LaNiO <sub>3</sub> Films
			2013A4901	BL15XU	若林 裕助	
36461	Akitoshi Nakano	98 (2018) 045139	2016A1627	BL35XU	中埜 彰俊	Antiferroelectric Distortion with Anomalous Phonon Softening in the Excitonic Insulator Ta <sub>2</sub> NiSe <sub>5</sub>
			2016B1720	BL35XU	中埜 彰俊	
			2015A1528	BL02B1	澤 博	
36469	Kou Takubo	97 (2018) 205142	2016A3564	BL11XU	田久保 耕	Commensurate versus Incommensurate Charge Ordering Near the Superconducting Dome in Ir <sub>1-x</sub> Pt <sub>x</sub> Te <sub>2</sub> Revealed by Resonant X-ray Scattering
			2014B3787	BL22XU	田久保 耕	
36532	Takayuki Tajiri	98 (2018) 064409	2011A1934	BL02B2	田尻 恭之	Effect of Size on the Magnetic Properties and Crystal Structure of Magnetically Frustrated DyMn <sub>2</sub> O <sub>5</sub> Nanoparticles

Physical Review B-2

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
36602	Kenji Ohwada	98 (2018) 054106	2013B3713	BL22XU	大和田 謙二	Effect of B-site Randomness on the Antiferroelectric/Relaxor Nature of the Ground State: Diffuse and Inelastic X-ray Scattering Study of Pb(In <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub>
			2011A3713	BL22XU	大和田 謙二	
			2010A1459	BL35XU	大和田 謙二	
			2009B3713	BL22XU	大和田 謙二	
			2009A1203	BL35XU	大和田 謙二	
36613	Kento Hasegawa	98 (2018) 020405(R)	2017B0921	BL39XU	壬生 攻	Enhancement of Spin-Orbit Torque by Inserting CoO <sub>x</sub> Layer into Co/Pt Interface
36628	Jayita Nayak	98 (2018) 075206	2011A4901	BL15XU	Fecher Gerhard	Temperature-Induced Modification of the Dirac Cone in the Tetradymite Topological Insulator Bi <sub>2</sub> Te <sub>2</sub> Se
			2011B4906	BL15XU	Fecher Gerhard	
			2013A4907	BL15XU	Fecher Gerhard	
			2015A4910	BL15XU	Fecher Gerhard	
			2011A1464	BL47XU	Fecher Gerhard	
			2011B1566	BL47XU	Fecher Gerhard	
2016B1086	BL47XU	Fecher Gerhard				
36729	Ikuto Kawasaki	94 (2016) 174427	2015B3884	BL23SU	川崎 郁斗	Correlation Effect in Sr <sub>1-x</sub> La <sub>x</sub> RuO <sub>3</sub> Studied by Soft X-ray Photoemission Spectroscopy
36824	Yoshihiko Kobayashi	98 (2018) 115154	2016B1067	BL08W	小林 義彦	Symmetry Change of Co 3d Orbital Associated with the 500-K Spin Crossover Accompanied by Insulator-to-Metal Transition in LaCoO <sub>3</sub>
			2011B1298	BL08W	小林 義彦	
			2012A1714	BL08W	伊藤 真義	
			2013A1023	BL08W	小林 義彦	
			2014B1201	BL08W	小林 義彦	
			2015A1211	BL08W	小林 義彦	
2017A1175	BL08W	小林 義彦				
36865	Hidekazu Aratani	98 (2018) 121113(R)	2013B3882	BL23SU	関山 明	Revising the 4f Symmetry in CeCu <sub>2</sub> Ge <sub>2</sub> : Soft X-ray Absorption and Hard X-ray Photoemission Spectroscopy
			2014B3882	BL23SU	関山 明	
			2016A3832	BL23SU	藤原 秀紀	
			2014B1305	BL19LXU	関山 明	
			2015A1533	BL19LXU	関山 明	

Scientific Reports

36467	Kei Okatsu	8 (2018) 10382	2017A2595	BL41XU	深井 周也	Structural Insights into Ubiquitin Phosphorylation by PINK1
			2016A2567	BL41XU	深井 周也	
			2014B1291	BL41XU	山形 敦史	
36476	Fumitaro Ishikawa	8 (2018) 5962	2011A1683	BL46XU	石川 史太郎	Annealing Induced Atomic Rearrangements on (Ga,In) (N,As) Probed by Hard X-ray Photoelectron Spectroscopy and X-ray Absorption Fine Structure
			2008B1926	BL46XU	石川 史太郎	
			2008B1924	BL37XU	青柳 利隆	
36481	Atsushi Mukaiyama	8 (2018) 8803	2014A6700	BL44XU	大野 美恵	Conformational Rearrangements of the C1 Ring in KaiC Measure the Timing of Assembly with KaiB
			2014B6700	BL44XU	大野 美恵	
			2015A6700	BL44XU	中川 敦史	
			2015B6700	BL44XU	中川 敦史	
			2016A6700	BL44XU	中川 敦史	
			2016B6700	BL44XU	中川 敦史	
			2017A6702	BL44XU	秋山 修志	
2017B6702	BL44XU	秋山 修志				
36610	Yujiro Higuchi	8 (2018) 12013	2014B2015	BL26B1	伏信 進矢	Identification and Characterization of a Novel β-D-Galactosidase that Releases Pyruvylated Galactose
			2016B2714	BL26B1	伏信 進矢	
			2017A2540	BL26B1	伏信 進矢	
36625	Tomoaki Sasaki	8 (2018) 11964	2016B1754	BL02B2	佐々木 友彰	Tightly Binding Valence Electron in Aluminum Observed through X-ray Charge Density Study
			2015A0074	BL02B2	森吉 千佳子	
36638	Tetsuo Yamashita	8 (2018) 2427	2017A6722	BL44XU	志波 智生	Ubiquinone Binding Site of Yeast NADH Dehydrogenase Revealed by Structures Binding Novel Competitive- and Mixed-Type Inhibitors
36659	Keiichi Omika	8 (2018) 13268	2015B7494	BL07LSU	吹留 博一	Operation Mechanism of GaN-Based Transistors Elucidated by Element-Specific X-ray Nanospectroscopy
			2016B7513	BL07LSU	吹留 博一	
			2016B7514	BL07LSU	末光 眞希	
			2017A7526	BL07LSU	吹留 博一	
36727	Nagayuki Hasegawa	8 (2018) 13123	2017A2542	BL41XU	竹田 一旗	X-ray Structure Analysis of Bacteriorhodopsin at 1.3 Å Resolution
36848	Yurina Sekine	7 (2017) 2064	2016A3611	BL14B1	辻 卓也	Calcium-Deficient Hydroxyapatite as a Potential Sorbent for Strontium

Journal of the Physical Society of Japan

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
36449	Keichiro Imura	86 (2018) 093702	2015B1230	BL47XU	松波 雅治	First Observation of Heavy Fermion Behavior in Ce-Based Icosahedral Approximant
36451	Mihee Lee	87 (2018) 084601	2016A1621	BL47XU	李 美希	Distortion Analysis of Ir- and Co-doped LaAlO <sub>3</sub> /SrTiO <sub>3</sub> (001) Interfaces by Hard X-ray Photoelectron Diffraction
			2017B1717	BL47XU	李 美希	
36458	Toru Hagiya	87 (2018) 084703	2015A4264	BL12XU	松田 和博	Plasmons in Liquid Rb at Elevated Temperatures Studied by Inelastic X-ray Scattering
			2015B4251	BL12XU	松田 和博	
			2016A4264	BL12XU	松田 和博	
			2016B4254	BL12XU	松田 和博	
36660	Masafumi Horio	87 (2018) 105001	2015A3881	BL23SU	藤森 淳	Local Magnetic States of the Weakly Ferromagnetic Iron-Based Superconductor Sr <sub>2</sub> VFeAsO <sub>3-δ</sub> Studied by X-ray Magnetic Circular Dichroism
36717	Shun Asano	87 (2018) 094710	2016A1603	BL01B1	浅野 駿	Ce Substitution and Reduction Annealing Effects on Electronic States in Pr <sub>2-x</sub> Ce <sub>x</sub> CuO <sub>4</sub> Studied by Cu K-edge X-ray Absorption Spectroscopy
			2017B3611	BL14B1	辻 卓也	
36730	Takaya Mitsui	85 (2016) 063601	2015A3501	BL11XU	三井 隆也	Observation of Enhancement of the Morin Transition Temperature in Iridium-Doped α-Fe <sub>2</sub> O <sub>3</sub> Thin Film by <sup>57</sup> Fe-Grazing Incidence Synchrotron Radiation Mössbauer Spectroscopy
			2015B3501	BL11XU	三井 隆也	
36731	Takaya Mitsui	87 (2018) 093001	2015A3501	BL11XU	三井 隆也	Variable-bandwidth <sup>57</sup> Fe Synchrotron Mössbauer Source
			2015B3501	BL11XU	三井 隆也	
			2016A3551	BL11XU	三井 隆也	
			2016B3551	BL11XU	三井 隆也	
			2017A3551	BL11XU	三井 隆也	
			2017B3551	BL11XU	三井 隆也	
			2018A3551	BL11XU	三井 隆也	
			2018A3552	BL11XU	三井 隆也	

Microscopy and Microanalysis

36540	Ryuta Mizutani	24 (2018) 358-359	2013A1384	BL37XU	鈴木 芳生	Spatial Resolution of Pre-Reconstruction Raw Images and their Nano-CT Slices
			2017A1143	BL37XU	水谷 隆太	
36541	Rino Saiga	24 (2018) 360-361	2013A1384	BL37XU	鈴木 芳生	Synchrotron Radiation Nanotomography of Biological Soft Tissues
			2017A1143	BL37XU	水谷 隆太	
			2017B1120	BL20B2	水谷 隆太	
36542	Rino Saiga	21 (2015) 919-920	2013A1384	BL37XU	鈴木 芳生	Three-Dimensional Neuronal Structure of Human Cerebral Cortex Determination by Synchrotron-Radiation Microtomography
			2014A1057	BL37XU	水谷 隆太	
			2014B1083	BL20XU	水谷 隆太	
36543	Ryuta Mizutani	21 (2015) 917-918	2008B1261	BL47XU	水谷 隆太	X-ray Tomographic Microscopy of Drosophila Brain Network and Skeletonized Model Building in the Three-Dimensional Image
			2011A0034	BL47XU	水谷 隆太	
			2013A1384	BL37XU	鈴木 芳生	
			2014A1057	BL37XU	水谷 隆太	
36607	Akihisa Takeuchi	24 (2018) 106-107	2015B1404	BL47XU	竹内 晃久	Nondestructive Multiscale X-Ray Tomography by Combining Microtomography and High-Energy Phase-Contrast Nanotomography
			2015B1993	BL20XU	竹内 晃久	
			2016B1459	BL20XU	竹内 晃久	
			2017A1268	BL20XU	竹内 晃久	
36711	Takahisa Koyama	24 (2018) 294-295	2017B1407	BL20XU	竹内 晃久	Development of Multilayer Focusing Mirror System for XFEL CDI Experiments of Biological Particles
			2015A8070	BL3	小山 貴久	
			2015B8067	BL3	小山 貴久	
			2016B8089	BL2	小山 貴久	
			2017A8085	BL2	小山 貴久	
36735	Kazushi Sumitani	24 (2018) 302-303	2017B8089	BL2	小山 貴久	Compound Refractive Lens Optics for Microbeam X-ray Diffraction Measurements at BL13XU in SPring-8
			2018A8081	BL2	小山 貴久	
			2016B1972	BL13XU	隅谷 和嗣	
			2017A1859	BL13XU	隅谷 和嗣	
			2017B1961	BL13XU	隅谷 和嗣	
			2018A2071	BL13XU	隅谷 和嗣	
			2018A2072	BL13XU	隅谷 和嗣	

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
36454	Saki Ozawa	122 (2018) 14511-14517	2014B7820	BL36XU	唯 美津木	Operando Time-Resolved X-ray Absorption Fine Structure Study for Pt Oxidation Kinetics on Pt/C and Pt <sub>3</sub> Co/C Cathode Catalysts by Polymer Electrolyte Fuel Cell Voltage Operation Synchronized with Rapid O <sub>2</sub> Exposure
			2015A7820	BL36XU	唯 美津木	
			2015B7820	BL36XU	唯 美津木	
			2016A7820	BL36XU	松井 公佑	
36457	Sou Taminato	122 (2018) 16607-16612	2016B7822	BL36XU	唯 美津木	Reversible Structural Changes and High-Rate Capability of Li <sub>3</sub> PO <sub>4</sub> -Modified Li <sub>2</sub> RuO <sub>3</sub> for Lithium-Rich Layered Rocksalt Oxide Cathodes
			2011B1863	BL46XU	菅野 了次	
			2010A3672	BL14B1	菅野 了次	
			2011A1866	BL46XU	菅野 了次	
36458	Shuhei Ogo	122 (2018) 2089-2096	2012A1615	BL46XU	菅野 了次	Electron-Hopping Brings Lattice Strain and High Catalytic Activity in the Low-Temperature Oxidative Coupling of Methane in an Electric Field
			2017B1780	BL14B2	関根 泰	
			2016B7904	BL36XU	朝倉 清高	
			2013B7601	BL28XU	小久見 善八	
36614	Qiuyi Yuan	122 (2018) 16664-16673	2014A7601	BL28XU	小久見 善八	Reaction Stoichiometry and Mechanism of Pt Deposition via Surface Limited Redox Replacement of Copper UPD Layer on Au(111)
			2014B7601	BL28XU	小久見 善八	
			2015A7601	BL28XU	小久見 善八	
			2015A7601	BL28XU	小久見 善八	
36748	Tomoya Kawaguchi	122 (2018) 19298-19308	2011A3610	BL14B1	松村 大樹	Strain-Induced Stabilization of Charged State in Li-Rich Layered Transition-Metal Oxide for Lithium-Ion Batteries
			2011B3610	BL14B1	松村 大樹	
			2012B3609	BL14B1	松村 大樹	
36847	Hiroyuki Itoi	121 (2017) 7892-7902	2017B1029	BL20B2	坂田 修身	Fine Dispersion of Pt <sub>45</sub> Subnanoclusters and Pt Single Atoms over Porous Carbon Supports and Their Structural Analyses with X-ray Absorption Spectroscopy
			2017B4504	BL15XU	Seo Okkyun	
			2017B4505	BL15XU	Kim Jaemyung	

Applied Physics Express

36421	Jaemyung Kim	11 (2018) 081002	2017A1030	BL20B2	坂田 修身	Lattice-Plane Orientation Mapping of Homo-Epitaxial GaN(0001) Thin Films via Grazing-Incidence X-ray Diffraction Topography in 2-in. Water
			2017A1033	BL13XU	坂田 修身	
			2017A4504	BL15XU	Lou Yanfang	
			2017B1029	BL20B2	坂田 修身	
			2017B4504	BL15XU	Seo Okkyun	
36466	Yukako Kato	11 (2018) 061302	2015B7498	BL07LSU	加藤 有香子	Three-Dimensional Atomic Arrangement around Active/Inactive Dopant Sites in Boron-Doped Diamond
			2017B7554	BL07LSU	大門 寛	
36486	Yushi Kato	11 (2018) 053007	2017B5360	BL16B2	藤井 景子	Giant Voltage-Controlled Magnetic Anisotropy Effect in a Crystallographically Strained CoFe System
			2012A5360	BL16B2	吉木 昌彦	
			2017A5360	BL16B2	吉木 昌彦	
36652	Shigenori Ueda	11 (2018) 105701	2016B4606	BL15XU	上田 茂典	Depth-Resolved Electronic Structure Measurements by Hard X-ray Photoemission Combined with X-ray Total Reflection: Direct Probing of Surface Band Bending of Polar GaN
36715	Zhigang Zhang	11 (2018) 071501	2015A0074	BL02B2	森吉 千佳子	Synchrotron-Radiation X-ray Diffraction Evidence of the Emergence of Ferroelectricity in LiTaO <sub>3</sub> by Ordering of a Disordered Li Ion in the Polar Direction

Applied Physics Letters

36409	Zhen Wang	113 (2018) 012901	2014B3624	BL14B1	横田 紘子	Local Structures and Temperature-Driven Polarization Rotation in Zr-Rich PbZr <sub>1-x</sub> Ti <sub>x</sub> O <sub>3</sub>
36526	Takashi Someya	113 (2018) 051601	2014B1804	BL25SU	吹留 博一	Interfacial Carrier Dynamics of Graphene on SiC, Traced by the Full-Range Time-Resolved Core-Level Photoemission Spectroscopy
			2016A7502	BL07LSU	吹留 博一	
			2017A7527	BL07LSU	吹留 博一	
36622	Okkyun Seo	113 (2018) 071907	2014B1210	BL04B2	Kumara Rosantha	Lattice Constant, Bond-Orientational Order, and Solid Solubility of PdPt Bimetallic Nanoparticles
			2015B1245	BL04B2	坂田 修身	
			2016A1028	BL04B2	坂田 修身	
36737	Ro-Ya Liu	112 (2018) 211603	2016B7523	BL07LSU	Chiang Tai	Controlling the Surface Photovoltage on WSe <sub>2</sub> by Surface Chemical Modification
			2013B7454	BL07LSU	Tang Shu Jung	
			2014B7480	BL07LSU	Tang Shu Jung	
			2016A7503	BL07LSU	小澤 健一	

### 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
36621	Ichiro Hisaki	47 (2018) 1143-1146	2018A1238	BL02B2	久木 一朗	CO <sub>2</sub> Sorption of Layered Hydrogen-Bonded Organic Framework Causes Reversible Structural Changes Involving Four Different Crystalline States under Ambient Pressure
			2017B1325	BL02B2	久木 一朗	
			2017A1205	BL02B2	久木 一朗	
36696	Quan Zhang	47 (2018) 559-561	2016A1255	BL02B2	北川 宏	Crystal Structure-Dependent Thermal Stability and Catalytic Performance of AuRu <sub>3</sub> Solid-Solution Alloy Nanoparticles
36859	Kazuto Nakamura	46 (2017) 1269-1271	2017A1408	BL40B2	羽毛田 洋平	Pyrrole-Based Hydrogen-Bonding Dimers Providing Discotic Columnar Structures
			2017A1305	BL40B2	前田 大光	
36863	Kosuke Kaneko	47 (2018) 1180-1183	2017B1559	BL40B2	羽毛田 洋平	Induced Homeotropic Alignment of Nematic Liquid Crystals by Doping Side-on Carbosilane-Based Oligomers
			2017B1294	BL40B2	山門 陵平	
			2017B1499	BL40B2	前田 大光	

### Inorganic Chemistry

36635	Md Saiduzzaman	57 (2018) 8903-8908	2017B1343	BL02B2	熊田 伸弘	Crystal Structure, Thermal Behavior, and Photocatalytic Activity of NaBiO <sub>3</sub> ·nH <sub>2</sub> O
36641	Akhil Tayal	57 (2018) 10072-10080	2014A1321	BL04B2	坂田 修身	Local Geometry and Electronic Properties of Nickel Nanoparticles Prepared via Thermal Decomposition of Ni-MOF-74
			2016A0130	BL01B1	小原 真司	
			2014B4906	BL15XU	北川 宏	
			2016A4904	BL15XU	小林 浩和	
36692	Kento Kanazawa	57 (2018) 9925-9930	2015A0074	BL02B2	森吉 千佳子	Mechanochemical Synthesis and Characterization of Metastable Hexagonal Li <sub>4</sub> Sn <sub>4</sub> Solid Electrolyte
36795	Kohta Asano	57 (2018) 11831-11838	2012B3787	BL22XU	Kim Hyunjeong	Structural Variation of Self-Organized Mg Hydride Nanoclusters in Immiscible Ti Matrix by Hydrogenation

### Nature Communications

36520	Dominique Ray-Gallet	9 (2018) 3103	2015B1049	BL41XU	千田 俊哉	Functional Activity of the H3.3 Histone Chaperone Complex HIRA Requires Trimerization of the HIRA Subunit
36642	Tommaso Pincelli	8 (2017) 16051	2016A1289	BL19LXU	Panaccione Giancarlo	Quantifying the Critical Thickness of Electron Hybridization in Spintronic Materials
			2015B1162	BL19LXU	Panaccione Giancarlo	
36726	Taisuke Matsuno	9 (2018) 3779	2016B1443	BL38B1	佐藤 宗太	Concyclic CH-π Arrays for Single-Axis Rotations of a Bowl in a Tube
			2017B1063	BL38B1	松野 太輔	
36797	Ayano Nakagawa	9 (2018) 3073	2017A1206	BL02B1	青柳 忍	Crystalline Functionalized Endohedral C <sub>60</sub> Metallofullerides
			2017B1373	BL02B1	青柳 忍	

### Angewandte Chemie International Edition

36695	Shun Dekura	57 (2018) 9823-9827	2017A1189	BL02B2	小林 浩和	The Electronic State of Hydrogen in the α Phase of the Hydrogen-Storage Material PdH(D) <sub>x</sub> : Does a Chemical Bond Between Palladium and Hydrogen Exist?
			2017B1352	BL02B2	小林 浩和	
36799	Ichiro Hisaki	57 (2018) 12650-12655	2017A1211	BL38B1	久木 一朗	Docking Strategy To Construct Thermostable, Single-Crystalline, Hydrogen-Bonded Organic Framework with High Surface Area
			2017B1322	BL38B1	久木 一朗	
36846	Rui Lang	55 (2016) 16054-16058	2016A3609	BL14B1	松村 大樹	Hydroformylation of Olefins by a Rhodium Single-Atom Catalyst with Activity Comparable to RhCl(PPh <sub>3</sub> ) <sub>3</sub>

### Biochemistry

36410	Shogo Nakano	57 (2018) 3722-3732	2017B2708	BL38B1	中野 祥吾	Benchmark Analysis of Native and Artificial NAD <sup>+</sup> -Dependent Enzymes Generated by a Sequence-Based Design Method with or without Phylogenetic Data
36629	Siu Kit Chan	55 (2016) 4092-4104	2015A1116	BL38B1	神山 勉	Crystal Structure of the 11- <i>cis</i> Isomer of <i>Pharaonis</i> Halorhodopsin: Structural Constraints on Interconversions among Different Isomeric States
36758	Nobutaka Numoto	57 (2018) 5289-5300	2017B2703	BL38B1	稲葉 理美	Structural Dynamics of the PET-Degrading Cutinase-Like Enzyme from <i>Saccharomonospora viridis</i> AHK190 in Substrate-Bound States Elucidates the Ca <sup>2+</sup> -Driven Catalytic Cycle

**e-Journal of Surface Science and Nanotechnology**

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
36431	Masaharu Oshima	16 (2018) 257-261	2016A7402	BL07LSU	尾嶋 正治	Photoelectron Nano-Spectroscopy of Reactive Ion Etching-Induced Damages to the Trench Sidewalls and Bottoms of 4H-SiC Trench-MOSFETs
36792	Yuki Koda	15 (2017) 50-54	2016A3389	BL08B2	住田 弘祐	Fabrication and <i>in situ</i> XPS Characterization of Rh Nanoparticles
			2016B3231	BL24XU	住田 弘祐	
36820	Masahiro Yano	16 (2018) 370-374	2016A3801	BL23SU	吉越 章隆	STM-Induced SiO <sub>2</sub> Decomposition on Si(110)
			2016B3801	BL23SU	吉越 章隆	

**Journal of Materials Chemistry A**

36427	Ji Wu	6 (2018) 11819-11829	2017B1265	BL02B2	藤井 孝太郎	A Systematic Evaluation of the Role of Lanthanide Elements in Functional Complex Oxides; Implications for Energy Conversion Devices
			2017A1803	BL19B2	藤井 孝太郎	
36456	Takahito Sato	6 (2018) 13943-13951	2017B1218	BL02B2	藪内 直明	Metastable and Nanosize Cation-Disordered Rocksalt-Type Oxides: Revisit of Stoichiometric LiMnO <sub>2</sub> and NaMnO <sub>2</sub>
36708	Ming-Jay Deng	(2018) Online published 29 Aug. 2018	2017B4135	BL12B2	Deng Ming-Jay	4.2 V Wearable Asymmetric Supercapacitor Devices Based on a VO <sub>x</sub> /MnO <sub>x</sub> Paper Electrode and an Eco-Friendly Deep Eutectic Solvent-Based Gel Electrolyte

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

36435	Hiroya Oki	115 (2018) 7422-7427	2009A1283	BL38B1	中村 昇太	Interplay of a Secreted Protein with Type IVb Pilus for Efficient Enterotoxigenic <i>Escherichia coli</i> Colonization
			2009B1417	BL38B1	中村 昇太	
			2015A1101	BL26B1	中村 昇太	
			2016A2569	BL38B1	中村 昇太	
36688	SungHark Kwon	115 (2018) 7045-7050	2015A1076	BL41XU	三木 邦夫	Crystal Structures of a [NiFe] Hydrogenase Large Subunit HyhL in an Immature State in Complex with a Ni Chaperone HypA
			2016A2525	BL41XU	三木 邦夫	
			2016A2525	BL26B1	三木 邦夫	
			2016A2525	BL38B1	三木 邦夫	
36690	Hikaru Shimizu	115 (2018) 9563-9568	2016B6626	BL44XU	藤間 祥子	GEF Mechanism Revealed by the Structure of SmgGDS-558 and Farnesylated RhoA Complex and its Implication for a Chaperone Mechanism
			2017B6730	BL44XU	藤間 祥子	
			2017A6730	BL44XU	藤間 祥子	

**RSC Advances**

36661	Chulho Song	8 (2018) 26293-26299	2015A4501	BL15XU	久保 佳実	<i>Operando</i> Structural Study of Non-Aqueous Li-Air Batteries using Synchrotron-Based X-ray Diffraction
			2015B4501	BL15XU	久保 佳実	
			2016A4504	BL15XU	久保 佳実	
			2016B4501	BL15XU	久保 佳実	
			2012A4501	BL15XU	伊藤 仁彦	
			2012A4502	BL15XU	伊藤 仁彦	
			2014A4505	BL15XU	久保 佳実	
36804	Pei-Yu Chuang	8 (2018) 423-428	2015A4126	BL12B2	Huang Jung Chun	Anti-Site Defect Effect on the Electronic Structure of a Bi <sub>2</sub> Te <sub>3</sub> Topological Insulator
			2015B4125	BL12B2	Huang Jung Chun	
			2015B4255	BL12XU	Huang Jung Chun	
			2015B4130	BL12B2	Huang Jung Chun	
			2016A4261	BL12XU	Huang Jung Chun	
36810	Y. Tung	7 (2017) 47789-47795	2017A4250	BL12XU	Huang Jung Chun	Tuning the Transport and Magnetism in a Cr-Bi <sub>2</sub> Se <sub>3</sub> Topological Insulator by Sb Doping
			2016A4251	BL12XU	Huang Jung Chun	
			2016A4140	BL12B2	Huang Jung Chun	
			2016B4256	BL12XU	Huang Jung Chun	
			2017A4259	BL12XU	Huang Jung Chun	
			2017B4256	BL12XU	Huang Jung Chun	

### AIP 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
36434	Okkyun Seo	8 (2018) 075318	2017A1030	BL20B2	坂田 修身	Evaluation of Lattice Curvature and Crystalline Homogeneity for 2-inch GaN Homo-Epitaxial Layer
			2017A1033	BL13XU	坂田 修身	
			2017A4504	BL15XU	Lou Yanfang	
			2017B1029	BL20B2	坂田 修身	
			2017B4505	BL15XU	Kim Jaemyung	
36626	Rolf Stinshoff	7 (2017) 105009	2008A0017	BL47XU	Felser Claudia	Half-Metallic Compensated Ferrimagnetism with a Tunable Compensation Point over a Wide Temperature Range in the Mn-Fe-V-Al Heusler System
			2008A1606	BL25SU	Felser Claudia	

### Biochemical and Biophysical Research Communications

36455	Yuhi Hosoe	503 (2018) 338-343	2016B1101	BL40XU	織田 昌幸	DNA-Binding Induced Conformational Change of c-Myb R2R3 Analyzed using Diffracted X-ray Tracking
			2017A1072	BL40XU	織田 昌幸	
36685	SungHark Kwon	498 (2018) 782-788	2016A2525	BL41XU	三木 邦夫	Structure of a [NiFe] Hydrogenase Maturation Protease Hycl Provides Insights into its Substrate Selectivity
			2017A2537	BL41XU	三木 邦夫	

### Chemistry - A European Journal

36433	Dan-Dan Zhou	24 (2018) 9976-9982	2016B1205	BL02B2	Sun Hong-Tao	Ion-Exchangeable Microporous Polyoxometalate Compounds with Off-Center Dopants Exhibiting Unconventional Luminescence
36861	Hiromitsu Maeda	24 (2018) 8910-8916	2017B1559	BL40B2	羽田 洋平	Ion-Pairing Assemblies of $\pi$ -Electronic Anions Formed by Intramolecular Hydrogen Bonding
			2017B1499	BL40B2	前田 大光	
			2017B1725	BL40B2	笹野 力史	
			2016B1311	BL40B2	山門 陵平	
			2016A1360	BL40B2	前田 大光	
			2015A0114	BL40XU	高谷 光	
			2017B1443	BL40XU	前田 大光	
			2017B1504	BL40XU	平田 剛輝	
			2017A1322	BL40XU	前田 大光	

### Chemistry of Materials

36480	Patrick Rozier	30 (2018) 4926-4934	2016B1544	BL14B2	直井 勝彦	Cation-Disordered $\text{Li}_x\text{VO}_4$ : Reversible Li Insertion/Deinsertion Mechanism for Quasi Li-Rich Layered $\text{Li}_{1-x}[\text{V}_{1/2}\text{Li}_{1/2}]\text{O}_2$ ( $x = 0-1$ )
36653	Nagesh B. Kolhe	30 (2018) 6540-6548	2016B1574	BL19B2	葛原 大軌	All-Polymer Solar Cells with 9.4% Efficiency from Naphthalene Diimide-Biselenophene Copolymer Acceptor

### ECS Transactions

36623	Takahiro Saida	85 (2018) 865-872	2017B1573	BL37XU	才田 隆広	Investigation of the Active Site for the Oxygen Reduction Reaction on the Oxide Surface Using by In-Situ XAFS Method
36761	Maito Koga	86 (2018) 157-161	2016B1004	BL45XU	松本 英俊	Investigation of Drying Process of Catalyst Ink for Polymer Electrolyte Fuel Cells by Grazing-Incidence X-Ray Scattering
			2017A1002	BL45XU	松本 英俊	
			2017B1006	BL45XU	松本 英俊	
			2018A1001	BL40B2	松本 英俊	

### Electrochimica Acta

36774	Kaoru Narita	290 (2018) 577-585	2015A1966	BL46XU	弓削 亮太	X-ray and Thermal Analysis of High-Capacity Iron- and Nickel-Containing Lithium-Rich Layered-Oxide Cathode Treated by Carbothermal Reduction
			2016A1518	BL46XU	弓削 亮太	
			2016B1624	BL46XU	弓削 亮太	
36860	Bing-Jen Hsieh	224 (2017) 452-459	2015A4125	BL12B2	Hwang Bing Joe	Tuning Metal Support Interactions Enhances the Activity and Durability of $\text{TiO}_2$ -Supported Pt Nanocatalysts
			2015A4139	BL12B2	Hwang Bing Joe	

### FEBS Open Bio

36495	Dohyun Im	8 (2018) 314-324	2014B2015	BL26B1	伏信 進矢	Ligand Complex Structures of L-Amino Acid Oxidase/Monooxygenase from <i>Pseudomonas</i> sp. AIU 813 and its Conformational Change
			2016B2714	BL26B1	伏信 進矢	
			2017A2540	BL26B1	伏信 進矢	
36687	Yuya Hanazono	8 (2018) 1312-1321	2015A1077	BL41XU	竹田 一旗	Co-Translational Folding of $\alpha$ -helical Proteins: Structural Studies of Intermediate-Length Variants of the $\lambda$ Repressor



### Journal of Applied Physics

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
36413	Daisuke Kan	123 (2018) 235303	2017A1231	BL13XU	菅 大介	Oxygen Octahedral Distortions in Compressively Strained SrRuO <sub>3</sub> Epitaxial Thin Films
			2017B1238	BL13XU	菅 大介	
36448	S. Masuda	124 (2018) 035106	2016A1344	BL02B2	宮崎 秀俊	Effect of High-Pressure Torsion on the Microstructure and Thermoelectric Properties of Fe <sub>2</sub> VAl-based Compounds
			2016B1397	BL02B2	宮崎 秀俊	

### Journal of Asian Ceramic Societies

36643	Nobuhiro Kumada	6 (2018) 247-253	2016A1011	BL02B2	熊田 伸弘	Crystal Structure, Photocatalytic and Dielectric Property of ATiM <sub>2</sub> O <sub>8</sub> (A: Mg, Zn; M: Nb, Ta)
36658	Kengo Oka	6 (2018) 284-288	2016A1157	BL02B2	岡 研吾	Incorporation of Sulfur Ions into La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> Superconducting Cuprate
			2017B1381	BL02B2	岡 研吾	

### Journal of Biological Chemistry

36494	Alexander Holm Viborg	292 (2017) 21092-21101	2014B2015	BL26B1	伏信 進矢	Discovery of α-L-arabinopyranosidases from Human Gut Microbiome Expands the Diversity within Glycoside Hydrolase Family 42
			2016B2714	BL26B1	伏信 進矢	
			2017A2540	BL26B1	伏信 進矢	
36496	Koichi Abe	293 (2018) 8812-8828	2014B2015	BL26B1	伏信 進矢	Structural and Thermodynamic Insights into β-1,2-glucooligosaccharide Capture by a Solute-Binding Protein in <i>Listeria innocua</i>
			2016B2714	BL26B1	伏信 進矢	
			2017A2540	BL26B1	伏信 進矢	

### The Journal of Chemical Physics

36478	Kazuya Tokuda	149 (2018) 014503	2017A5330	BL16B2	徳田 一弥	Structural Analysis of Sulfuric Acid Solutions Containing Ti and Mn using X-ray Diffraction, X-ray Absorption Fine Structure, and Molecular Dynamics Simulation
			2014B1950	BL19B2	斎藤 吉広	
			2015A1999	BL19B2	徳田 一弥	
			2015B1942	BL19B2	徳田 一弥	
36518	Hirokazu Kadobayashi	148 (2018) 164503	2016A1660	BL10XU	門林 宏和	<i>In situ</i> Raman and X-ray Diffraction Studies on the High Pressure and Temperature Stability of Methane Hydrate up to 55 GPa

### Journal of Nuclear Materials

36485	Zihao Wang	508 (2018) 1-11	2016A3786	BL22XU	庄子 哲雄	Microstructure and Pitting Behavior of the Dissimilar Metal Weld of 309L Cladding and Low Alloy Steel A533B
36811	Masaaki Kobata	498 (2018) 387-394	2016A3741	BL22XU	岡根 哲夫	Chemical Form Analysis of Reaction Products in Cs-Adsorption on Stainless Steel by Means of HAXPES and SEM/EDX
			2016B3717	BL22XU	岡根 哲夫	
			2017A3731	BL22XU	岡根 哲夫	

### Journal of Physics: Conference Series

36647	Makoto Matsuura	712 (2016) 012106	2015A1850	BL14B2	松浦 真	Structure Analyses of Cu Nanoclusters in the Soft Magnetic Fe <sub>85.2</sub> Si <sub>1</sub> B <sub>9</sub> P <sub>4</sub> Cu <sub>0.8</sub> Alloy by XAFS and Fcc Cluster Model
			2014A1705	BL14B2	松浦 真	
			2014B1794	BL14B2	松浦 真	
			2013B1715	BL14B2	松浦 真	
36718	Shun Asano	969 (2018) 012051	2016A1603	BL01B1	浅野 駿	Reduction and Oxidation Annealing Effects on Cu K-edge XAFS for Electron-Doped Cuprate Superconductors

### Journal of the American Chemical Society

36459	Yasutaka Kuwahara	140 (2018) 9203-9210	2016A1057	BL01B1	桑原 泰隆	Mild Deoxygenation of Sulfoxides over Plasmonic Molybdenum Oxide Hybrid with Dramatic Activity Enhancement under Visible Light
			2017A1063	BL01B1	桑原 泰隆	
36856	Soichiro Nakatsuka	(2018) Online published Sep. 25, 2018	2016A1052	BL40XU	畠山 琢次	Four-Step Synthesis of B <sub>2</sub> N <sub>2</sub> -Embedded Corannulene
			2016B1059	BL40XU	畠山 琢次	
			2017A1132	BL40XU	畠山 琢次	
			2017B1073	BL40XU	畠山 琢次	
			2018A1114	BL40XU	畠山 琢次	

### Langmuir

36523	Yuji Matsumoto	34 (2018) 7503-7508	2014A1613	BL40B2	大野 正司	Mesoscopic Heterogeneity in Pore Size of Supramolecular Networks
36723	Shunsuke Yamamoto	34 (2018) 10491-10497	2016A1284	BL40B2	山本 俊介	High-Density and Monolayer-Level Integration of π-Conjugated Units: Amphiphilic Carbazole Homopolymer Langmuir-Blodgett Films

### Microscopy

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
36472	Saki Shiomoto	64 (2015) i137	2014A1475	BL20B2	八田 公平	Analysis of Fine Three-Dimensional Structure of Pharyngeal Teeth of Saury ( <i>Cololabis saira</i> : 'SAMMA'), Flying Fish ( <i>Cypselurus pinnatibarbus japonicus</i> : 'TOBIUO'), Medaka ( <i>Oryzias latipes</i> ), Zebrafish ( <i>Danio rerio</i> ), and Other Teleost Species by X-ray Micro-Computed Tomography
			2014B1541	BL20XU	八田 公平	
			2014B1568	BL47XU	八田 公平	
36475	Kohei Hatta	64 (2015) i39	2010A1350	BL20XU	八田 公平	Correlative Imaging Analysis of Tardigrada (Water Bears) under the Active and Dehydrated States by X-ray Micro-Computed Tomography, Electron Microscopy and Confocal Microscopy
			2013A1319	BL20XU	八田 公平	
			2014B1568	BL47XU	八田 公平	

### Physical Chemistry Chemical Physics

36443	Kei Hashimoto	20 (2018) 18355-18360	2012B1502	BL04B2	藤井 健太	Small-Angle X-ray Scattering Study on Nano-Scale Structures Controlled by Water Content in a Binary Water/Ionic Liquid System
			2014A7210	BL03XU	権藤 聡	
36489	Susumu Yamamoto	20 (2018) 19532-19538	2015A7490	BL07LSU	山本 達	Enhancement of CO <sub>2</sub> Adsorption on Oxygen-Functionalized Epitaxial Graphene Surface under Near-Ambient Conditions
			2015B7496	BL07LSU	吉信 淳	
			2016A7401	BL07LSU	吉信 淳	
			2016B7401	BL07LSU	吉信 淳	
			2017A7401	BL07LSU	吉信 淳	
			2017B7401	BL07LSU	吉信 淳	

### Physical Review Letters

36537	Kenta Kuroda	120 (2018) 086402	2017A1410	BL25SU	近藤 猛	Experimental Determination of the Topological Phase Diagram in Cerium Monopnictides
36620	Kenji Tamasaku	121 (2018) 083901	2015A8021	BL3	玉作 賢治	Nonlinear Spectroscopy with X-Ray Two-Photon Absorption in Metallic Copper
			2015B8001	BL3	玉作 賢治	
			2016A8013	BL3	玉作 賢治	
			2016B8039	BL3	玉作 賢治	
			2017A8054	BL3	玉作 賢治	

### Proceedings of SPIE

36487	Yuta Nakanishi	10520 (2018) 105201J	2017A1116	BL13XU	下間 靖彦	Formation Mechanism of Self-Assembled Polarization-Dependent Periodic Nanostructures in $\beta$ -Ga <sub>2</sub> O <sub>3</sub>
36488	Yasuhiko Shimotsuma	10536 (2018) 105361U	2017A1116	BL13XU	下間 靖彦	Photoinduced Functional Materials by Femtosecond Laser Direct Writing

### Proteins: Structure, Function, and Bioinformatics

36657	SungHark Kwon	84 (2016) 1321-1327	2015A1076	BL41XU	三木 邦夫	Crystal Structure of a [NiFe] Hydrogenase Maturation Protease HybD from <i>Thermococcus kodakarensis</i> KOD1
36683	Masahiro Fujihashi	84 (2016) 1339-1346	2008A2001	BL41XU	三木 邦夫	Mutation Design of a Thermophilic Rubisco Based on Three-Dimensional Structure Enhances its Activity at Ambient Temperature
			2008A1973	BL41XU	三木 邦夫	
			2009A1012	BL41XU	山本 雅貴	
			2009A1013	BL41XU	山本 雅貴	

### Accounts of Materials & Surface Research

36493	Yuanyuan Tan	3 (2018) 165-171	2017A7821	BL36XU	唯 美津木	Three-Dimensional XAFS Imaging of Polymer Electrolyte Fuel Cell Cathode Catalysts in Membrane Electrode Assembly
			2017B7820	BL36XU	唯 美津木	
			2017A7820	BL36XU	唯 美津木	
			2016B7821	BL36XU	唯 美津木	
			2016A7821	BL36XU	松井 公佑	
			2015A7821	BL36XU	唯 美津木	
			2014B7821	BL36XU	唯 美津木	
			2011A1537	BL47XU	唯 美津木	

### ACS Applied Energy Materials

36637	Ikuya Yamada	1 (2018) 3711-3721	2017B1076	BL04B1	山田 幾也	Synergistically Enhanced Oxygen Evolution Reaction Catalysis for Multielement Transition-Metal Oxides
			2017B1077	BL02B2	山田 幾也	
			2017B1900	BL14B2	山田 幾也	

### ACS Applied Materials and Interfaces

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
36636	Shinobu Takao	10 (2018) 27734-27744	2016A7804	BL36XU	岩澤 康裕	Observation of Degradation of Pt and Carbon Support in Polymer Electrolyte Fuel Cell Using Combined Nano-X-ray Absorption Fine Structure and Transmission Electron Microscopy Techniques
			2016B7804	BL36XU	岩澤 康裕	
			2016B7805	BL36XU	岩澤 康裕	
			2017A7804	BL36XU	岩澤 康裕	
			2017A7805	BL36XU	岩澤 康裕	
			2013A7803	BL36XU	岩澤 康裕	
			2013B7803	BL36XU	岩澤 康裕	
			2014A7806	BL36XU	岩澤 康裕	
			2014B7804	BL36XU	岩澤 康裕	
2015A7804	BL36XU	岩澤 康裕				
2015B7804	BL36XU	岩澤 康裕				

### ACS Catalysis

36682	Shohei Tada	8 (2018) 7809-7819	2017B1584	BL14B2	多田 昌平	Design of Interfacial Sites between Cu and Amorphous ZrO <sub>2</sub> Dedicated to CO <sub>2</sub> -to-Methanol Hydrogenation
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### ACS Nano

36631	Rie Makiura	11 (2017) 10875-10882	2013A1668	BL13XU	牧浦 理恵	Air/Liquid Interfacial Nanoassembly of Molecular Building Blocks into Preferentially Oriented Porous Organic Nanosheet Crystals via Hydrogen Bonding
			2012A1668	BL13XU	牧浦 理恵	

### Acta Crystallographica Section F

36854	Shu Moriyama	74 (2018) 617-624	2016A6643	BL44XU	水島 恒裕	Structure of Glyoxysomal Malate Dehydrogenase (MDH3) from <i>Saccharomyces cerevisiae</i>
			2016B6643	BL44XU	水島 恒裕	
			2017A6753	BL44XU	水島 恒裕	
			2017B6753	BL44XU	水島 恒裕	

### Advanced Energy Materials

36438	Benoit Mortemard de Boisse	8 (2018) 1800409	2017B7540	BL07LSU	大久保 将史	Highly Reversible Oxygen-Redox Chemistry at 4.1 V in Na <sub>4/7-x</sub> [□ <sub>1/7</sub> Mn <sub>6/7</sub> ]O <sub>2</sub> (□: Mn Vacancy)
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### Advanced Materials

36416	Kayoko Kobayashi	30 (2018) 1705315	2016A1695	BL40XU	小林 加代子	Outstanding Toughness of Cherry Bark Achieved by Helical Spring Structure of Rigid Cellulose Fiber Combined with Flexible Layer of Lipid Polymers
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### American Mineralogist

36681	Shigeaki Ono	103 (2018) 1512-1515	2014B1161	BL04B1	小野 重明	Decomposition Boundary from High-Pressure Clinoenstatite to Wadsleyite + Stishovite in MgSiO <sub>3</sub>
			2015A1185	BL04B1	小野 重明	

### Analytical Biochemistry

36713	Hinako Hatae	559 (2018) 91-93	2012A1787	BL41XU	隈 博幸	Crystallization of Human Erythrocyte Band 3, the Anion Exchanger, at the International Space Station "KIBO"
			2013B6842	BL44XU	波多江 日成子	
			2014A6942	BL44XU	波多江 日成子	
			2014B6942	BL44XU	波多江 日成子	
			2015A6534	BL44XU	波多江 日成子	
			2015B6534	BL44XU	波多江 日成子	
			2016A6634	BL44XU	波多江 日成子	
			2016B6634	BL44XU	波多江 日成子	
			2017A6740	BL44XU	波多江 日成子	
2017B6740	BL44XU	波多江 日成子				

### Applied Surface Science

36777	Jiayi Tang	463 (2019) 1161-1167	2016B7401	BL07LSU	吉信 淳	Hydrogen Adsorption and Absorption on a Pd-Ag Alloy Surface Studied using <i>in-situ</i> X-ray Photoelectron Spectroscopy under Ultrahigh Vacuum and Ambient Pressure
			2017A7401	BL07LSU	吉信 淳	
			2017B7401	BL07LSU	吉信 淳	
			2017A3835	BL23SU	唐 佳芸	
			2017A3801	BL23SU	吉越 章隆	
			2017B3801	BL23SU	吉越 章隆	

### Biophysical Journal

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
36436	Mitsuhiro Hirai	115 (2018) 313-327	2016B1381	BL40B2	平井 光博	Direct Evidence for the Effect of Glycerol on Protein Hydration and Thermal Structural Transition
			2016A1487	BL40B2	平井 光博	

### Bulletin of the Chemical Society of Japan

36521	Mariko Yukimoto	91 (2018) 585-587	2017B1726	BL40XU	行本 万里子	The Synthesis of a Novel Bulky Primary Alkyl Group and Its Application toward the Kinetic Stabilization of a Tetraalkyldisilene
			2017A1668	BL40XU	行本 万里子	
			2017B1709	BL02B1	鈴木 文陽	
			2017A1647	BL40XU	鈴木 裕子	
			2016B1705	BL40XU	鈴木 裕子	

### Catalysis Letters

36539	Ami Gondo	148 (2018) 1929-1938	2017B1780	BL14B2	関根 泰	Ammonia Synthesis Over Co Catalyst in an Electric Field
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### Catalysts

36849	Ken Motokura	8 (2018) 106	2017A3609	BL14B1	松村 大樹	Effects of Mesopore Internal Surfaces on the Structure of Immobilized Pd-Bisphosphine Complexes Analyzes by Variable-Temperature XAFS and Their Catalytic Performances
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### Cell Research

36632	Biao Qiu	28 (2018) 644-654	2015B1933	BL41XU	長谷川 和也	Succinate-Acetate Permease from <i>Citrobacter koseri</i> is an Anion Channel that Unidirectionally Translocates Acetate
			2014B1158	BL41XU	Liao Jun	
			2015A1100	BL41XU	Liao Jun	
			2016A2531	BL41XU	Liao Jun	
			2017A2559	BL41XU	Liao Jun	

### Ceramics International

36618	Daisuke Hirose	44 (2018) 17602-17611	2013A1679	BL04B2	李 金望	Origin of the Thermal Plasticity Property of Zirconium Oxide Gels for Use in Direct Thermal Nanoimprinting
			2011B1900	BL04B2	下田 達也	
			2013B1757	BL04B2	李 金望	

### ChemBioChem

36794	Tsung Lin Li	(2018) Online published 28 Aug. 2018	2015A4006	BL12B2	Li Tsung Lin	Evidence of Diradicals Involved in the Yeast Transketolase Catalyzed Keto-Transferring Reactions
			2015B4001	BL12B2	Li Tsung Lin	

### ChemCatChem

36741	Yuji Mahara	10 (2018) 3384-3387	2015A1553	BL28B2	大山 順也	Time Resolved in situ DXAFS Revealing Highly Active Species of PdO Nanoparticle Catalyst for CH <sub>4</sub> Oxidation
			2014B1841	BL28B2	大山 順也	
			2016A1639	BL28B2	馬原 優治	
			2016B1756	BL28B2	馬原 優治	

### Chemical Communications

36420	Yuhei Yasukawa	54 (2018) 5003-5006	2015A1520	BL02B2	吉成 信人	Two-Step Chiral Transfer from D-Penicillamine to Metallo-supramolecular Ionic Crystals
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### Chemistry - An Asian Journal

36525	Misa Nishiura	13 (2018) 1906-1910	2014B1021	BL02B1	今野 巧	Ring-to-Cage Structural Conversion via Template Effect in a Gold(I) Metallo-supramolecular System
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### Condensed Matter

36736	Kosuke Suzuki	3 (2018) 27	2017A1123	BL08W	鈴木 宏輔	Dependency of the Charge-Discharge Rate on Lithium Reaction Distributions for a Commercial Lithium Coin Cell Visualized by Compton Scattering Imaging
			2017B1360	BL08W	鈴木 宏輔	
			2018A1320	BL08W	鈴木 宏輔	

### Dalton Transactions

36465	Yoshifumi Sasano	46 (2017) 8924-8928	2015A0114	BL02B1	高谷 光	Deprotonated <i>meso</i> -hydroxyporphyrin as a Stable $\pi$ -Electronic Anion: the Building Unit of an Ion-Pairing Assembly
			2015A0114	BL40XU	高谷 光	

### Enzyme and Microbial Technology

研究成果番号	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
36743	Yi-Chia Kuan	110 (2018) 14-19	2015A4001	BL12B2	Wang Wen Ching	Enantioselective Synthesis of ( <i>R</i> )-phenylephrine by <i>Serratia marcescens</i> BCRC10948 Cells that Homologously Express <i>SM_SDR</i>

### European Journal of Medicinal Chemistry

36800	Yusuke Kato	159 (2018) 23-34	2015A6537	BL44XU	真板 宣夫	Structural Basis for Potent Inhibition of D-Amino Acid Oxidase by Thiophene Carboxylic Acids
			2015B6537	BL44XU	真板 宣夫	

### European Journal of Pharmaceutics and Biopharmaceutics

36759	Kyuya Nakagawa	127 (2018) 279-287	2016B1871	BL19B2	中川 究也	Observation of Glassy State Relaxation during Annealing of Frozen Sugar Solutions by X-ray Computed Tomography
			2016A1528	BL19B2	中川 究也	

### European Polymer Journal

36473	Yuri Yamada	107 (2018) 96-104	2015A7003	BL33XU	原田 雅史	Perpendicular SiO <sub>2</sub> Cylinders Fabricated from a Self-Assembled Block Copolymer as an Adaptable Platform
			2015B7003	BL33XU	原田 雅史	

### FEBS Journal

36471	Yohei Katsuyama	285 (2018) 1540-1555	2017A2577	BL41XU	勝山 陽平	Crystal Structure of the Nitrosuccinate Lyase CreD in Complex with Fumarate Provides Insights into the Catalytic Mechanism for Nitrous Acid Elimination
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### Frontiers in Chemistry

36760	Kyuya Nakagawa	9 (2018) 00418	2017B1596	BL14B2	中川 究也	Observation of Microstructure Formation During Freeze-Drying of Dextrin Solution by <i>in-situ</i> X-ray Computed Tomography
			2016B1871	BL19B2	中川 究也	
			2016A1528	BL19B2	中川 究也	

### Geochimica et Cosmochimica Acta

36452	Yusuke Tamenori	237 (2018) 357-369	2013B1122	BL27SU	為則 雄祐	Sulfur Speciation in Growth Layers of Shell Cross Section of the Long-Lived Bivalve <i>Margaritifera laevis</i> using Synchrotron Spectromicroscopy Analysis
			2014A1909	BL27SU	為則 雄祐	
			2014B1054	BL27SU	為則 雄祐	
			2015B1116	BL27SU	為則 雄祐	

### Glycobiology

36686	Yuichi Nishitani	28 (2018) 418-426	2015B1038	BL38B1	三木 邦夫	Crystal Structures of an Archaeal Chitinase ChiD and its Ligand Complexes
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### High Pressure Research

36447	Yusaku Takubo	(2018) Published online 24 July 2018	2016A3787	BL22XU	寺崎 英紀	Variations of Lattice Constants and Thermal Expansion Coefficients of Indium at High Pressure and High Temperature
			2017B3782	BL22XU	寺崎 英紀	

### Hyperfine Interactions

36732	Masayuki Kurokuzu	239 (2018) 9	2009A0086	BL09XU	瀬戸 誠	<sup>57</sup> Fe Nuclear Resonant Inelastic Scattering of Fe <sub>1.1</sub> Te
			2011A3501	BL11XU	三井 隆也	
			2011B3501	BL11XU	三井 隆也	

### Industrial & Engineering Chemistry Research

36497	Yuji Higaki	57 (2018) 5268-5275	2015B1313	BL43IR	高原 淳	Counteranion-Specific Hydration States of Cationic Polyelectrolyte Brushes
			2016A1329	BL43IR	檜垣 勇次	
			2016B1703	BL43IR	犬塚 仁浩	
			2017A1753	BL43IR	池本 夕佳	

### International Journal of Pharmaceutics

36417	Tomoka Fushimi	548 (2018) 192-205	2015A1387	BL40B2	内野 智信	Development of Phospholipid Nanoparticles Encapsulating 3-O-Cetyl Ascorbic Acid and Tocopherol Acetate (TA-Cassome) for Improving Their Skin Accumulation
			2017A1160	BL40B2	内野 智信	
			2017A1348	BL40B2	内野 智信	

IUCrJ

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
36650	Nicole Woitowitch	5 (2018) 619-634	2016B8005	BL3	Schmidt Marius	Structural Basis for Light Control of Cell Development Revealed by Crystal Structures of a Myxobacterial Phytochrome

Journal of Alloys and Compounds

36490	Syeda U. Mehreen	766 (2018) 1003-1013	2014B1620	BL20XU	野北 和宏	Suppression of Cu <sub>3</sub> Sn in the Sn-10Cu Peritectic Alloy by the Addition of Ni
			2015A1675	BL20XU	野北 和宏	
			2012A1192	BL20B2	野北 和宏	

Journal of Applied Crystallography

36432	Kouji Sakaki	51 (2018) 796-801	2016A3788	BL22XU	榑 浩司	Development of an <i>in situ</i> Synchrotron X-ray Total Scattering Setup under Pressurized Hydrogen Gas
			2014B3784	BL22XU	榑 浩司	
			2012B3703	BL22XU	町田 晃彦	
			2012B3787	BL22XU	Kim Hyunjeong	
			2013A3703	BL22XU	町田 晃彦	
			2013A3787	BL22XU	Kim Hyunjeong	
			2013B3703	BL22XU	町田 晃彦	
			2013B3783	BL22XU	Kim Hyunjeong	
			2014A3703	BL22XU	町田 晃彦	
			2014A3785	BL22XU	Kim Hyunjeong	
			2014B3703	BL22XU	町田 晃彦	
			2015A3703	BL22XU	町田 晃彦	
			2015A3784	BL22XU	Kim Hyunjeong	
			2015B3703	BL22XU	町田 晃彦	
2015B3786	BL22XU	Kim Hyunjeong				
2016A3753	BL22XU	町田 晃彦				
2016B3751	BL22XU	町田 晃彦				

Journal of Electron Spectroscopy and Related Phenomena

36498	Xinchao Huang	226 (2018) 41-44	2014A4261	BL12XU	Zhu LinFan	Elastic Squared Form Factor and Binding Effect of Carbon Dioxide Studied by the High Resolution X-ray Scattering
			2016A4265	BL12XU	Zhu LinFan	

Journal of Fiber Science and Technology

36678	Kazuyuki Suzuta	72 (2016) 1-8	2012B1385	BL43IR	伊藤 廉	Evaluation of Cysteic Acid in Bleached Hair Using Infrared Spectroscopy
			2014A1563	BL43IR	伊藤 廉	
			2014B1591	BL43IR	伊藤 廉	
			2015A1654	BL43IR	渡邊 紘介	

Journal of Geophysical Research

36529	Shigehiko Tateno	123 (2018) 5515-5531	2009A0087	BL10XU	廣瀬 敬	Melting Phase Relations and Element Partitioning in MORB to Lowermost Mantle Conditions
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Journal of Hazardous Materials

36516	Kouhei Tokunaga	359 (2018) 307-315	2017B1219	BL01B1	徳永 紘平	A New Technique for Removing Strontium from Seawater by Coprecipitation with Barite
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Journal of Medicinal Chemistry

36633	Rocio Otero	61 (2018) 6658-6673	2014B1947	BL26B1	沼本 修孝	25 S-Adamantyl-23-yne-26,27-dinor-1 $\alpha$ ,25-dihydroxyvitamin D <sub>3</sub> : Synthesis, Tissue Selective Biological Activities, and X-ray Crystal Structural Analysis of Its Vitamin D Receptor Complex
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Journal of Mineralogical and Petrological Sciences

36441	Ryota Abe	113 (2018) 106-111	2016B1704	BL04B1	阿部 涼太	In situ X-ray Diffraction Studies of Hydrus Aluminosilicate at High Pressure and Temperature
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Journal of Molecular Biology

36639	Daisuke Hira	430 (2018) 1189-1200	2016A6636	BL44XU	平 大輔	Anammox Organism KSU-1 Expresses a Novel His/DOPA Ligated Cytochrome c
			2016B6636	BL44XU	平 大輔	
			2012A6751	BL44XU	山縣 ゆり子	
			2012B6735	BL44XU	中村 照也	
			2014A6957	BL44XU	山縣 ゆり子	

### Journal of Molecular Liquids

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
36719	Keisuke Matsuoka	260 (2018) 131-137	2013B1497	BL40B2	吉村 倫一	Solubilization Ability of <i>N,N</i> -Dimethyl- <i>N</i> -Alkyladamantylammonium Bromide

### Journal of Oleo Science

36428	Hiroshi Takahashi	67 (2018) 905-915	2015A1656	BL40B2	高橋 浩	Thermal-History-Dependent Phase Behavior of Ceramide Molecular Assembly in a UV-Curable Acrylic Adhesive Resin
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### The Journal of Organic Chemistry

36464	Yoshifumi Sasano	82 (2017) 11166-11172	2015A1388	BL40XU	高谷 光	H-Aggregated $\pi$ -Systems Based on Disulfide-Linked Dimers of Dipyrrolyldiketone Boron Complexes
			2017A1322	BL40XU	前田 大光	

### The Journal of Physical Chemistry B

36770	Satoshi Ajito	122 (2018) 8685-8697	2016B1381	BL40B2	平井 光博	Sugar-Mediated Stabilization of Protein against Chemical or Thermal Denaturation
			2017A1435	BL40B2	平井 光博	

### Journal of Statistical Physics

36771	Ondrej Sedivy	172 (2018) 1223-1246	2012A1427	BL20XU	Krill Carl	Data-Driven Selection of Tessellation Models Describing Polycrystalline Microstructures
			2013A1506	BL20XU	Krill Carl	

### Journal of Synchrotron Radiation

36725	Yoshinori Kotani	25 (2018) 1444-1449	2014A0079	BL25SU	白土 優	Realization of a Scanning Soft X-ray Microscope for Magnetic Imaging under High Magnetic Fields
			2014B1008	BL25SU	廣澤 哲	
			2015A1009	BL25SU	廣澤 哲	
			2015A2042	BL25SU	小谷 佳範	
			2015B1016	BL25SU	廣澤 哲	
			2015B1998	BL25SU	小谷 佳範	

### Journal of X-Ray Science and Technology

36762	Tsukasa Nakano	26 (2018) 691-705	2001B0501	BL20B2	中島 善人	Analytical Expressions for the Reconstructed Image of a Homogeneous Cylindrical Sample Exhibiting a Beam Hardening Artifact in X-ray Computed Tomography
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### Lunar and Planetary Science Conference

36517	Masashi Shidare	49 (2018) LPI Contrib. No. 2083	2015B1120	BL27SU	白井 寛裕	Sulfur K-Edge XANES Analyses of Shergottites: Implication for Aqueous Alteration Processes on Mars
			2016A1294	BL27SU	白井 寛裕	
			2016B1538	BL27SU	白井 寛裕	
			2017A1245	BL27SU	白井 寛裕	

### Materials Transactions

36648	Naoko Oono	59 (2018) 1651-1658	2014B1666	BL19B2	大野 直子	Precipitation of Oxide Particles in Oxide Dispersion Strengthened (ODS) Ferritic Steels
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### Metals

36445	Tomoya Suzuki	8 (2018) 558-567	2015A3515	BL11XU	成田 弘一	Speciation of Ruthenium(III) Chloro Complexes in Hydrochloric Acid Solutions and Their Extraction Characteristics with an Amide-Containing Amine Compound
			2016B3512	BL11XU	成田 弘一	
			2017B3531	BL11XU	鈴木 智也	

### Microscopy Today

36544	Rino Saiga	26 (2018) 58	2014B1096	BL20B2	水谷 隆太	Toxicity of Visible Light Follows a Rule Similar to that for X-Ray Damage
			2017B1120	BL20B2	水谷 隆太	

### Nano Letters

36664	Tomotaka Oroguchi	18 (2018) 5192-5197	2016A8048	BL3	中迫 雅由	Growth of Cuprous Oxide Particles in Liquid-Phase Synthesis Investigated by X-ray Laser Diffraction
			2016B8064	BL3	中迫 雅由	
			2017A8015	BL3	中迫 雅由	
			2017B8003	BL2	中迫 雅由	

### Nanoscale

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
36738	Enju Sakai	8 (2016) 18893-18896	2015A7402	BL07LSU	尾嶋 正治	Investigation of the Enhanced Photocathodic Activity of $\text{La}_5\text{Ti}_2\text{CuS}_5\text{O}_7$ Photocathodes in $\text{H}_2$ Evolution by Synchrotron Radiation Nanospectroscopy

### Nature Materials

36536	Kenta Kuroda	16 (2017) 1090-1095	2016B1262	BL25SU	近藤 猛	Evidence for Magnetic Weyl Fermions in a Correlated Metal
			2016A1296	BL25SU	近藤 猛	
			2015B2002	BL25SU	室 隆桂之	

### Nature Structural and Molecular Biology

36439	Hidetsugu Asada	25 (2018) 570-576	2013B1092	BL32XU	浅田 秀基	Crystal Structure of the Human Angiotensin II Type 2 Receptor Bound to an Angiotensin II Analog
			2014B1355	BL32XU	浅田 秀基	
			2015A1044	BL32XU	浅田 秀基	
			2013A1514	BL32XU	田中 良樹	

### Organic Electronics

36693	Kohei Yamamoto	63 (2018) 47-51	2017A1699	BL19B2	山本 晃平	Molecular Orientation Control of Semiconducting Molecules using a Metal Layer Formed by Wet Processing
			2017B1743	BL19B2	久住 拓司	
			2017A0136	BL46XU	宮寺 哲彦	

### Organic Letters

36862	Shunsuke Kaname	20 (2018) 3268-3272	2015A0114	BL40XU	高谷 光	Cyclic Anion-Responsive $\pi$ -Electronic Molecules That Overcome Energy Losses Induced by Conformation Changes
			2017A1322	BL40XU	前田 大光	
			2017A1676	BL02B1	笹野 力史	

### Photochemical and Photobiological Sciences

36712	Tomomi Tatebe	17 (2018) 1153-1156	2016A1464	BL01B1	神谷 和秀	Photo-Induced Direct Interfacial Charge Transfer at $\text{TiO}_2$ Modified with Hexacyanoferrate(III)
			2016B1098	BL01B1	神谷 和秀	
			2016B1696	BL01B1	岩瀬 和至	
			2017A1790	BL14B2	岩瀬 和至	
			2017B1171	BL01B1	神谷 和秀	
2018A1349	BL01B1	原田 隆史				

### Physica B

36679	Kazuo Yano	515 (2017) 118-125	2010B3835	BL23SU	岡根 哲夫	Element Specific Electronic States and Spin-Flip-Like Behavior of Ce in $(\text{Ce}_{0.2}\text{Gd}_{0.8})\text{Ni}$ Composed of Heavy Fermion CeNi and Ferri-Magnet GdNi through XMCD Method
			2011B3822	BL23SU	岡根 哲夫	

### Physica Status Solidi B

36524	Artoni Ang	(2018) Online published 20 June 2018	2016A1391	BL39XU	佐々木 裕次	Direct Imaging of Valence Sensitive X-ray Fluorescence Holograms of $\text{Fe}_3\text{O}_4$
			2016B1328	BL39XU	佐々木 裕次	
			2017A1137	BL39XU	佐々木 裕次	

### Physical Review Materials

36651	Adel Kalache	2 (2018) 084407	2015A4910	BL15XU	Fecher Gerhard	Tunable Magnetic Properties in Tetragonal Mn-Fe-Ga Heusler Films with Perpendicular Anisotropy for Spintronics Applications
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### Physical Review X

36492	Yoshiaki Kumagai	8 (2018) 031034	2015B8057	BL3	上田 潔	Following the Birth of a Nanoplasma Produced by an Ultrashort Hard-X-Ray Laser in Xenon Clusters
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### PLoS One

36684	Hiraku Ohno	12 (2017) e0178183	2010A1237	BL41XU	竹田 一旗	Crystallographic Characterization of the High-Potential Iron-Sulfur Protein in the Oxidized State at 0.8 Å Resolution
			2010B1284	BL41XU	竹田 一旗	
			2015B1037	BL41XU	竹田 一旗	



### 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
36710	Kohji Tashiro	153 (2018) 474-484	2016B1439	BL02B1	田代 孝二	Study of Phase Transition and Ultimate Mechanical Properties of Orthorhombic Polyoxymethylene Based on the Refined Crystal Structure
			2016A1145	BL02B1	田代 孝二	
			2017A1056	BL02B1	田代 孝二	

### Procedia Manufacturing

36772	Masakazu Kobayashi	15 (2018) 161-167	2016A1061	BL20XU	小林 正和	Development of Internal Inhomogeneous Plastic Strain during Cold Rolling of Al-Mg Alloys
			2017B1132	BL20XU	小林 正和	

### Proceedings of 2018 International Workshop on Advanced Image Technology (IWAIT)

36408	Keiji Umetani	(2018) 22	2015A2062	BL28B2	梅谷 啓二	Large Lung Specimen Imaging Full-Field Micro-CT Using a High-Megapixel Single Lens Reflex Camera and Synchrotron Radiation
			2015B1961	BL28B2	梅谷 啓二	
			2016A1334	BL20B2	梅谷 啓二	

### Protocol Exchange

36545	Rino Saiga	(2018) Published online 9 Aug. 2018	2006B1716	BL20XU	水谷 隆太	Preparation of Soft Tissue Samples for Synchrotron Radiation Microtomography and Nanotomography
			2007A1844	BL20XU	水谷 隆太	
			2007A2072	BL20B2	水谷 隆太	
			2007B1102	BL20XU	水谷 隆太	
			2007B1894	BL20B2	水谷 隆太	
			2008A1190	BL47XU	水谷 隆太	
			2008B1261	BL47XU	水谷 隆太	
			2009A1113	BL20XU	水谷 隆太	
			2009B1191	BL20XU	水谷 隆太	
			2011A0034	BL20XU	水谷 隆太	
			2011A0034	BL47XU	水谷 隆太	
			2013B1889	BL26B2	水谷 隆太	
			2014A1057	BL37XU	水谷 隆太	
			2014B1083	BL20XU	水谷 隆太	
			2014B1096	BL20B2	水谷 隆太	
			2015A1160	BL20XU	水谷 隆太	
2015B1101	BL20XU	水谷 隆太				
2016B1041	BL20XU	水谷 隆太				
2017A1143	BL37XU	水谷 隆太				
2017B1120	BL20B2	水谷 隆太				

### Radiation Protection Dosimetry

36721	Akira Takeda	167 (2015) 181-186	2012B1962	BL14B2	高久 雄一	Changes in the Chemical Form of Exogenous Iodine in Forest Soils and Their Extracts
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### Review of Scientific Instruments

36722	Zhe Zhang	89 (2018) 096106	2017A3738	BL22XU	西村 博明	A Laue Crystal Imager for High Energy Quasi-Monochromatic X-ray
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### Royal Society Open Science

36798	Shinobu Aoyagi	5 (2018) 180337	2013A0100	BL02B1	青柳 忍	Structure of [60]fullerene with a Mobile Lithium Cation Inside
			2017A1206	BL02B1	青柳 忍	
			2016B1432	BL02B1	青柳 忍	

### Science

36864	Wenyan Liu	351 (2016) 582-586	2015A1142	BL40B2	田川 美穂	Diamond Family of Nanoparticle Superlattices
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### Science Society of America Journal

36720	Akira Takeda	82 (2018) 815-825	2014A1749	BL14B2	武田 晃	Distribution and Speciation of Bromine and Iodine in Volcanic Ash Soil Profiles
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### Solid State Ionics

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
36709	Naoya Ishida	325 (2018) 209-213	2016A1509	BL19B2	井手本 康	Average and Local Structure Analysis of Metastable $\text{Li}_x\text{Mn}_{0.9}\text{Ti}_{0.1}\text{O}_2$ by Synchrotron X-ray and Neutron Sources
			2016B1859	BL19B2	井手本 康	
			2015B1576	BL14B2	井手本 康	
			2016A1510	BL14B2	井手本 康	
			2016B1852	BL14B2	井手本 康	
			2016B1365	BL04B2	井手本 康	
2015B1582	BL19B2	井手本 康				

### Surface and Interface Analysis

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
36430	Jens Rüdiger Stellhorn	50 (2018) 790-794	2015B4129	BL12B2	細川 伸也	Temperature-Dependent Local Atomic Structures in the Traditional $\text{Fe}_{65}\text{Ni}_{35}$ Invar Alloy by X-ray Fluorescence Holography
			2016A4141	BL12B2	細川 伸也	
			2016B4130	BL12B2	細川 伸也	
			2014B1187	BL39XU	細川 伸也	

### Synchrotron Radiation News

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
36462	Eiji Ikenaga	31 (2018) 10-15	2013A1369	BL47XU	池永 英司	Hard X-ray Photoemission Spectroscopy at Two Public Beamlines of SPring-8: Current Status and Ongoing Developments
			2013B1463	BL47XU	池永 英司	
			2014A1253	BL47XU	池永 英司	
			2014B1283	BL47XU	池永 英司	
			2015A1474	BL47XU	池永 英司	
			2015B1400	BL47XU	池永 英司	
			2015B1932	BL09XU	池永 英司	
			2016A1276	BL09XU	三村 功次郎	
2012B1446	BL47XU	池永 英司				

### Topics in Catalysis

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
36415	Okii Sekizawa	61 (2018) 889-901	2013A7802	BL36XU	岩澤 康裕	Key Structural Transformations and Kinetics of Pt Nanoparticles in PEFC Pt/C Electrocatalysts by a Simultaneous Operando Time-Resolved QXAFS-XRD Technique
			2013B7806	BL36XU	岩澤 康裕	
			2014A7801	BL36XU	岩澤 康裕	
			2014A7805	BL36XU	岩澤 康裕	
			2014B7801	BL36XU	岩澤 康裕	
			2014B7803	BL36XU	岩澤 康裕	
			2015A7803	BL36XU	岩澤 康裕	
			2015A7805	BL36XU	岩澤 康裕	
			2015A7840	BL36XU	岩澤 康裕	
			2015B7801	BL36XU	岩澤 康裕	
			2015B7803	BL36XU	岩澤 康裕	
			2015B7805	BL36XU	岩澤 康裕	
			2015B7840	BL36XU	岩澤 康裕	
			2016A7801	BL36XU	岩澤 康裕	
			2016A7802	BL36XU	岩澤 康裕	
			2016A7803	BL36XU	岩澤 康裕	
			2016A7840	BL36XU	岩澤 康裕	
			2016B7801	BL36XU	岩澤 康裕	
			2016B7803	BL36XU	岩澤 康裕	
			2016B7806	BL36XU	岩澤 康裕	
2016B7840	BL36XU	岩澤 康裕				
2017A7801	BL36XU	岩澤 康裕				
2017A7803	BL36XU	岩澤 康裕				
2017A7806	BL36XU	岩澤 康裕				
2017A7841	BL36XU	岩澤 康裕				

### Transactions of the Materials Research 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
36468	Haruki Yamane	43 (2018) 213-217	2016A1226	BL47XU	山根 治起	Perpendicular Magnetic Properties of [CoPt/AZO/Ag] Multilayered Films for Magneto-Optical Chemical Sensing Applications

### Tribology 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
36627	Takashi Izumi	66 (2018) 120	2014B7021	BL33XU	山口 聡	Surface Deteriorations During Scuffing Process of Steel and Analysis of their Contribution to Wear Using In Situ Synchrotron X-Ray Diffraction and Optical Observations
			2013B7021	BL33XU	林 雄二郎	
			2015B7021	BL33XU	泉 貴士	

コンクリート工学年次論文集 (Proceedings of the Japan Concrete Institute)

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
36460	Hayato Takahashi	40 (2018) 1017-1022	2016A1532	BL28B2	杉山 隆文	Study on Alteration of Mortar under High Temperatures by Non-Destructive Integrated CT-XRD Method
			2017A1009	BL28B2	杉山 隆文	
			2017B1021	BL28B2	杉山 隆文	
			2014B1587	BL28B2	梶原 堅太郎	
			2015A1680	BL28B2	梶原 堅太郎	
2015B1608	BL28B2	梶原 堅太郎				

自動車技術会論文集 (Transactions of the Society of Automotive Engineers of Japan)

36765	Akihiro Maeda	49 (2018) 856-861	2015A1847	BL19B2	鳥塚 史郎	Analysis on the Mechanism of Strength-Ductility Enhancement by the Addition of 5% Mn in 0.1%C-2%Si-Mn Fresh Martensitic Steel with Synchrotron Radiation
			2016A1033	BL46XU	鳥塚 史郎	
			2016A4902	BL15XU	鳥塚 史郎	
			2016B4905	BL15XU	鳥塚 史郎	
			2017A1706	BL19B2	鳥塚 史郎	

新電池構想部会 リチウムイオン電池の現状と今後特集号

36764	Toru Sukigara	94 (2015)	2015A4902	BL15XU	鋤柄 宜	Current Status and Future Prospects of Automobile Li Ion Battery
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生物の科学 遺伝 (Seibutu no Kagaku Iden)

36453	Yusuke Tamenori	72 (2018) 241-248	2007B1862	BL37XU	長谷川 浩	The Behavior of Trace Elements in Biogenic Carbonate Minerals of Precious Coral
			2015B1116	BL27SU	為則 雄祐	
			2016A1833	BL08W	為則 雄祐	
			2016B1132	BL27SU	為則 雄祐	
			2017A1745	BL02B2	為則 雄祐	
2014B1337	BL27SU	長谷川 浩				

日本原子力学会和文論文誌 (Transactions of the Atomic Energy Society of Japan)

36852	Yoshihiro Okamoto	16 (2017) 180-190	2015B3504	BL11XU	塩飽 秀啓	Chemical State Analysis of Rhodium in Simulated Waste Glass by Synchrotron-Radiation-Based XAFS and Imaging XAFS Techniques
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薬剤学 (Journal of Pharmaceutical Science and Technology, Japan)

36640	Len Ito	78 (2018) 25-27	2015A1660	BL43IR	伊藤 廉	Visualization of Cosmetic Ingredients Penetrating into Hair by Using a Synchrotron Radiation Infrared Microscopic Mapping Method
			2014B1591	BL43IR	伊藤 廉	
			2015B1568	BL43IR	伊藤 廉	
			2016A1507	BL43IR	伊藤 廉	

冷凍 (Refrigeration)

36519	Junko Nonaka	93 (2018) 219-223	2015A1852	BL46XU	村勢 則郎	Research of The Quality Degradation of The Frozen Pasta during Frozen Storage Period
			2015B1782	BL19B2	入江 謙太郎	
			2015B1924	BL46XU	村勢 則郎	
			2016A1784	BL46XU	村勢 則郎	
			2016A1811	BL19B2	入江 謙太郎	
2016B1867	BL19B2	野中 純子				

博士論文 (京都大学)

36801	Jing Yang	(2018)	2015B1824	BL37XU	高岡 昌輝	Field Study on Mercury Behavior in Landfill Site
36802	Takashi Sasaki	(2017)	2015B1830	BL01B1	高岡 昌輝	Catalyst Technology for Carbon Dioxide Reduction in Integrated Coal Gasification Combined Cycle with High Efficiency

博士論文 (金沢大学)

36425	Kohei Yamamoto	(2018)	2017A1699	BL19B2	山本 晃平	Research and Development of New Fabrication Methods for High Performance Perovskite Solar Cells
			2016B1632	BL46XU	大橋 昇	
			2016B1784	BL46XU	鳥屋部 果穂	
			2016B1861	BL46XU	宮寺 哲彦	
			2017A0136	BL46XU	宮寺 哲彦	

博士論文 (関西学院大学)

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
36479	Tomokazu Sakamoto	(2017)	2016B3630	BL14B1	坂本 友和	Development of Hydrazine Oxidation Catalysts for Anion Exchange Membrane Fuel Cells by Hydrazine Hydrate as a Liquid Fuel
			2016A3616	BL14B1	坂本 友和	
			2015B3616	BL14B1	坂本 友和	
			2015A3616	BL14B1	坂本 友和	
			2014B3619	BL14B1	坂本 友和	
			2014A3616	BL14B1	坂本 友和	
			2013B3616	BL14B1	坂本 友和	
2010B2046	BL14B2	坂本 友和				

博士論文 (東京大学)

36522	Delyana Vasileva	(2018)	2017A2574	BL26B1	水口 千穂	Plasmid-host Functional Interaction Network: Global Proteome Dynamics and Molecular Analysis of H-NS Family Proteins
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博士論文 (東北大学)

36423	Jinhyeok Kim	(2018) 1-108	2014B4905	BL15XU	水口 将輝	Experimental Studies on Magnetic Properties and Electronic Structures in Mn-based Ordered Alloys
			2015A4908	BL15XU	水口 将輝	
			2015B4909	BL15XU	水口 将輝	
			2016A4907	BL15XU	水口 将輝	
			2016B4909	BL15XU	水口 将輝	
2017A4909	BL15XU	水口 将輝				

博士論文 (鳥取大学)

36624	Toru Inagaki	(2018)	2017A1819	BL14B2	石垣 雅	生体イメージング用近赤外ナノ蛍光体に関する基礎研究
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博士論文 (名古屋工業大学)

36440	Masanori Usui	(2018) 1-90	2016B7012	BL33XU	木村 英彦	Effect Analysis of Electrical, Mechanical and Thermal Stresses on Power Modules for Automobiles
			2016A7012	BL33XU	木村 英彦	
			2015A7012	BL33XU	木村 英彦	
			2015B7012	BL33XU	木村 英彦	

博士論文 (奈良先端科学技術大学院大学)

36470	Takuya Okabe	(2018)	2017B1817	BL46XU	山口 裕二	Interior and Exterior Shaping of Organic Molecular Dyes for Optoelectronic Applications
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博士論文 (兵庫県立大学)

36477	Nobumoto Nagasawa	(2018)	2010B1517	BL10XU	小林 寿夫	Electronic States of Transition-Metal Oxides using Atom-Selective Experimental Technique
			2016B1396	BL10XU	小林 寿夫	
			2015B4261	BL12XU	小林 寿夫	
			2016A4258	BL12XU	小林 寿夫	
			2016B4268	BL12XU	小林 寿夫	

博士論文 (山形大学)

36630	Junichirou Tateishi	(2017)	2015A3267	BL24XU	立石 純一郎	Study on Mechanism of Cellular Structure Formation during One-Shot Chemical Foaming Process
			2015B3267	BL24XU	立石 純一郎	
			2016A3267	BL24XU	立石 純一郎	

課題以外の成果として登録された論文

ACS Nano

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
36463	Zhibin Sun	12 (2018) 7509-7518	SACLA		Necessary Experimental Conditions for Single-Shot Diffraction Imaging of DNA-Based Structures with X-ray Free-Electron Lasers

Journal of Biological Macromolecules

36838	Michihiro Sugahara	18 (2018) 15-22	SACLA		Microcrystal-Carrier Matrices for Serial Crystallography
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**Journal of Electron Spectroscopy and Related Phenomena**

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
36805	Shin-ichi Fujimori	208 (2016) 105-110		BL23SU	Recent Progress of Soft X-ray Photoelectron Spectroscopy Studies of Uranium Compounds

**Physical Review Special Topics - Accelerators and Beams**

36680	Ichiro Inoue	21 (2018) 080704	XFEL		X-ray Hanbury Brown-Twiss Interferometry for Determination of Ultrashort Electron-Bunch Duration
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**Vacuum**

36429	Sunao Takahashi	155 (2018) 325-335	フロントエンド		Prediction of Vacuum Deterioration Caused by Vacuum Accident in the Beamline
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**博士論文 (電気通信大学)**

36855	Keiichi Shinbe	(2018)	その他		Analysis of Evaluation Criteria for Leading to Maximize Academic and Social Impact on the Scientific and Technological Outcomes in a Shared Facility
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