

## 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、2019 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 2019 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
Scientific Reports	13	Journal of Synchrotron Radiation	6
Japanese Journal of Applied Physics	11	Scientific Reports	6
Inorganic Chemistry	9	ACS Catalysis	5
Angewandte Chemie International Edition	8	Dalton Transactions	5
Physical Review B	8	Journal of Alloys and Compounds	5
Journal of the American Chemical Society	7	Macromolecules	5
Chemistry of Materials	6	Physical Chemistry Chemical Physics	5
Electrochemistry	6		

他全 182 誌、計 331 報

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

課題の成果として登録された論文

Scientific Reports

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
38281	Mark Gardner	9 (2019) 10983	2015A1325	BL20XU	Donnelley Martin	Particle Coating Alters Mucociliary Transit in Excised Rat Trachea: A Synchrotron X-ray Imaging Study
			2015B1109	BL20XU	Donnelley Martin	
			2016A1472	BL20XU	Donnelley Martin	
			2016B1345	BL20XU	Donnelley Martin	
			2016B1502	BL20XU	Morgan Kaye	
			2018B1315	BL20XU	Donnelley Martin	
38364	Mitsuharu Yonemura	9 (2019) 11241	2016B8004	BL3	米村 光治	Fine Microstructure Formation in Steel under Ultrafast Heating
			2017A8024	BL3	米村 光治	
			2017B8013	BL3	米村 光治	
38367	Takayuki Shibata	8 (2018) 14784	2017A1040	BL02B2	守友 浩	Thermal Efficiency of a Thermocell Made of Prussian Blue Analogues
			2017A1649	BL02B2	福住 勇矢	
38371	Wataru Kobayashi	8 (2018) 3988	2012A1094	BL02B2	守友 浩	Thermal Expansion in Layered Na <sub>2</sub> MO <sub>2</sub>
			2013A1649	BL02B2	守友 浩	
			2014A1056	BL02B2	小林 航	
			2015B1077	BL02B2	守友 浩	
38376	Gaku Okuma	9 (2019) 11595	2018A1633	BL20XU	大熊 学	3D Multiscale-Imaging of Processing-Induced Defects Formed during Sintering of Hierarchical Powder Packings
38395	Shang-Chieh Hou	8 (2018) 12695	2016A4130	BL12B2	Chang Chia-Chin	Mechanochemical Synthesis of Si/Cu <sub>3</sub> Si-based Composite as Negative Electrode Materials for Lithium Ion Battery
			2016A4133	BL12B2	Chen Tsan Yao	
			2016A4125	BL12B2	Chang Chia-Chin	
38589	Akihiko Machida	9 (2019) 12290	2015A3602	BL14B1	齋藤 寛之	Hexagonal Close-Packed Iron Hydride behind the Conventional Phase Diagram
			2016B3651	BL14B1	齋藤 寛之	
38602	Jonghyeon Son	8 (2018) 15075	2016B6664	BL44XU	Hwang Kwang Yeon	Structural Analysis of an Epitope Candidate of Triosephosphate Isomerase in <i>Opisthorchis viverrini</i>
38612	Keita Kakuda	9 (2019) 6001	2016B1237	BL45XU	荒木 克哉	Ultrasonication-Based Rapid Amplification of $\alpha$ -synuclein Aggregates in Cerebrospinal Fluid
			2017B1080	BL45XU	荒木 克哉	
			2018A1118	BL45XU	荒木 克哉	
38692	Keishi Akada	9 (2019) 12452	2015B7402	BL07LSU	尾嶋 正治	Microscopic Photoelectron Analysis of Single Crystalline LiCoO <sub>2</sub> Particles during the Charge-Discharge in an All Solid-State Lithium Ion Battery
			2016A7402	BL07LSU	尾嶋 正治	
			2016B7402	BL07LSU	尾嶋 正治	
			2017A7402	BL07LSU	尾嶋 正治	
			2017B7402	BL07LSU	尾嶋 正治	
			2018A7563	BL07LSU	赤田 圭史	
			2018A7567	BL07LSU	細野 英司	
38713	Keisuke Sakurai	9 (2019) 4359	2015A6527	BL44XU	中島 良介	Crystal Structures of Multidrug Efflux Pump MexB Bound with High-Molecular-Mass Compounds
			2015B6527	BL44XU	中島 良介	
			2016A6627	BL44XU	中島 良介	
			2016B6627	BL44XU	中島 良介	
			2017A6731	BL44XU	中島 良介	
			2017B6731	BL44XU	中島 良介	
			2018A6830	BL44XU	中島 良介	
38742	Yunbing Zong	7 (2017) 43595	2014A1270	BL29XU	Jiang Huaidong	Selection for Oil Content During Soybean Domestication Revealed by X-Ray Tomography of Ancient Beans
38769	Yasumitsu Sakamoto	9 (2019) 13587	2014A6924	BL44XU	阪本 泰光	Fragment-Based Discovery of the First Nonpeptidyl Inhibitor of an S46 Family Peptidase
			2014B6924	BL44XU	阪本 泰光	
			2015A6521	BL44XU	阪本 泰光	
			2015B6521	BL44XU	阪本 泰光	
			2016B6620	BL44XU	阪本 泰光	
			2017A6721	BL44XU	阪本 泰光	
			2017B6721	BL44XU	阪本 泰光	
			2018A6818	BL44XU	阪本 泰光	
			2018B6818	BL44XU	阪本 泰光	

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
38227	Takahiro Nagata	58 (2019) 080903	2014A4600	BL15XU	長田 貴弘	Photoelectron Spectroscopic Study on Electronic State and Electrical Properties of SnO <sub>2</sub> Single Crystals
			2013B4603	BL15XU	長田 貴弘	
			2015A4601	BL15XU	長田 貴弘	
			2016A4602	BL15XU	長田 貴弘	
38359	Yuichi Akahama	58 (2019) 095502	2015B1384	BL10XU	赤浜 裕一	Relation between O <sub>3</sub> Cluster Shape and Vibrational Spectra in the ε-phase of Solid Oxygen
38361	Yuya Fukuzumi	58 (2019) 065501	2017A1040	BL02B2	守友 浩	Configuration Entropy Effect on Temperature Coefficient of Redox Potential of P2-Na <sub>x</sub> CoO <sub>2</sub>
			2018A1125	BL02B2	守友 浩	
38386	Takahiro Yamada	58 (2019) SCCD26	2017A3833	BL23SU	渡部 平司	Controlled Oxide Interlayer for Improving Reliability of SiO <sub>2</sub> /GaN MOS Devices
			2017B3833	BL23SU	渡部 平司	
38387	Mikito Nozaki	58 (2019) SCCD08	2017A3833	BL23SU	渡部 平司	Comparative Study on Thermal Robustness of GaN and AlGaN/GaN MOS Devices with Thin Oxide Interlayers
			2017B3833	BL23SU	渡部 平司	
			2018A3833	BL23SU	渡部 平司	
38446	Takashi Kunimoto	58 (2019) SFFD03	2018A1781	BL14B2	國本 崇	Development of Eu <sup>2+</sup> and Mn <sup>2+</sup> Co-activated Silicate Phosphor for Plant Cultivation Light Source
38449	Masashi Kurosawa	58 (2019) SAAD02	2017A1152	BL47XU	財満 眞明	Synthesis of Heavily Ga-doped Si <sub>1-x</sub> Sn <sub>x</sub> /Si Heterostructures and Their Valence-Band-Offset Determination
			2017B1353	BL47XU	竹内 和歌奈	
38455	Yasuhiro Yoneda	58 (2019) SLLA03	2017B3607	BL14B1	米田 安宏	Short- and Middle-Range Order Structures of KNbO <sub>3</sub> Nanocrystals
			2018B1127	BL04B2	米田 安宏	
38473	Hao Yuwen	58 (2019) 083001	2019A1101	BL02B2	後藤 陽介	Enhanced Superconductivity by Na Doping in SnAs-Based Layered Compound Na <sub>1+x</sub> Sn <sub>2-x</sub> As <sub>2</sub>
			2018B1246	BL02B2	後藤 陽介	
38531	Daisuke Kan	58 (2019) 095504	2018B1780	BL19B2	菅 大介	Selective Growth of α-Fe <sub>2</sub> O <sub>3</sub> , γ-Fe <sub>2</sub> O <sub>3</sub> and Fe <sub>3</sub> O <sub>4</sub> at Low Temperatures and under Ambient Pressure
38712	Kenji Ohwada	58 (2019) SLLA05	2019A3761	BL22XU	大和田 謙二	Development of an Apparatus for Bragg Coherent X-ray Diffraction Imaging, and Its Application to the Three Dimensional Imaging of BaTiO <sub>3</sub> Nano-Crystals
			2018B3761	BL22XU	大和田 謙二	
			2018A3761	BL22XU	大和田 謙二	
			2017B3761	BL22XU	大和田 謙二	

Inorganic Chemistry

38224	Lila Bouéssel Du Bourg	57 (2018) 2517-2528	2011B1565	BL04B2	Bychkov Evgeny	Experimental and Theoretical Insights into the Structure of Tellurium Chloride Glasses
38263	Jie Chen	57 (2018) 7601-7609	2016B4504	BL15XU	山浦 一成	High-Pressure Synthesis, Crystal Structure, and Semimetallic Properties of HgPbO <sub>3</sub>
			2017A4503	BL15XU	Belik Alexei	
			2017B4502	BL15XU	辻本 吉廣	
38280	Feng-Chun Lo	53 (2014) 10881-10892	2013B4255	BL12XU	Hsu I Jui	Insight into the Reactivity and Electronic Structure of Dinuclear Dinitrosyl Iron Complexes
38321	Alexei Belik	58 (2019) 3492-3501	2018B4502	BL15XU	Belik Alexei	Valence Variations by B-Site Doping in A-Site Columnar-Ordered Quadruple Perovskites Sm <sub>2</sub> MnMn(Mn <sub>4-x</sub> Ti <sub>x</sub> )O <sub>12</sub> with 1 ≤ x ≤ 3
			2017B4502	BL15XU	辻本 吉廣	
			2017A4503	BL15XU	Belik Alexei	
38360	Yuya Ikeuchi	58 (2019) 6790-6795	2017B1172	BL02B2	高津 浩	Rattling Behavior in a Simple Perovskite NaWO <sub>3</sub>
			2016A1043	BL02B2	陰山 洋	
38408	Kazushige Ueda	58 (2019) 10890-10897	2017B1576	BL14B2	植田 和茂	Site-Selective Doping and Site-Sensitive Photoluminescence of Eu <sup>2+</sup> and Tb <sup>3+</sup> in Perovskite-Type LaLuO <sub>3</sub>
38411	Ryo Sasai	58 (2019) 10928-10935	2010A1287	BL02B2	笹井 亮	Why Do Carbonate Anions have Extremely High Stability in the Interlayer Space of Layered Double Hydroxides? Case Study of Layered Double Hydroxide Consisting of Mg and Al (Mg/Al = 2)
			2010B1279	BL02B2	笹井 亮	
			2011B1703	BL02B2	笹井 亮	
			2012B1770	BL02B2	笹井 亮	
			2013B1677	BL02B2	新井 栄作	
			2014A1684	BL02B2	帆足 宏一	
			2017A1483	BL02B2	藤村 卓也	
			2017B1196	BL02B2	藤村 卓也	
38469	Tsunetomo Yamada	58 (2019) 9181-9186	2013B1183	BL01B1	綿貫 徹	Formation of an Intermediate Valence Icosahedral Quasicrystal in the Au-Sn-Yb System
			2013A3701	BL22XU	綿貫 徹	
			2014A3701	BL22XU	綿貫 徹	
38679	Takashi Nakamura	58 (2019) 7863-7872	2014A0078	BL02B1	Iversen Bo	Bpytrisalen/Bpytrisaloph: A Triangular Platform That Spatially Arranges Different Multiple Labile Coordination Sites

Angewandte Chemie International Edition

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
38210	Naoki Ogiwara	58 (2019) 11731-11736	2018A1753	BL14B2	荻原 直希	The First Study on the Reactivity of Water Vapor in Metal-Organic Frameworks with Platinum Nanocrystals
38317	Yang Wang	58 (2019) 11893-11902	2018B1001	BL40B2	松本 英俊	Significant Difference in Semiconducting Properties of Isomeric All-Acceptor Polymers Synthesized via Direct Arylation Polycondensation
38433	Weiyang Ni	58 (2019) 7445-7449	2018B4269	BL12XU	Chen Hao-Ming	Ni <sub>3</sub> N as an Active Hydrogen Oxidation Reaction Catalyst in Alkaline Medium
38466	Masazumi Tamura	57 (2018) 8058-8062	2016B1410	BL01B1	富重 圭一	Transformation of Sugars into Chiral Polyols over a Heterogeneous Catalyst
			2016A1352	BL01B1	富重 圭一	
38552	Taisuke Matsuno	58 (2019) 12170-12174	2018B1053	BL38B1	松野 太輔	Retarded Solid-State Rotations of an Oval-Shaped Guest in a Deformed Cylinder with CH- $\pi$ Arrays
38590	Takayuki Iida	57 (2018) 6454-6458	2015A0115	BL04B2	脇原 徹	Concerted Bimetallic Nanocluster Synthesis and Encapsulation via Induced Zeolite Framework Demetallation for Shape and Substrate Selective Heterogeneous Catalysis
38595	Ziqiang Zhao	57 (2018) 11952-11956	2015A0115	BL04B2	脇原 徹	A 3D Organically Synthesized Porous Carbon Material for Lithium-Ion Batteries
38704	Ryo Nishimura	58 (2019) 13308-13312	2019A1110	BL40XU	内田 欣吾	Object Transportation System Mimicking the Cilia of <i>Paramecium aurelia</i> Making Use of the Light-Controllable Crystal Bending Behavior of a Photochromic Diarylethene
			2019A1670	BL02B1	西村 涼	
			2018B1091	BL02B1	内田 欣吾	
			2018B1092	BL40XU	内田 欣吾	
			2018B1674	BL02B1	西村 涼	
			2018A1104	BL02B1	内田 欣吾	
			2018A1208	BL40XU	内田 欣吾	
			2017B1134	BL40XU	内田 欣吾	
			2017B1159	BL40XU	内田 欣吾	
			2017A1084	BL40XU	内田 欣吾	
			2017A1120	BL40XU	内田 欣吾	
			2015B1215	BL40B2	内田 欣吾	
2015A1240	BL40B2	内田 欣吾				
2014B1213	BL40B2	内田 欣吾				

Physical Review B

38248	Shoya Sakamoto	100 (2019) 035204	2015B3881	BL23SU	藤森 淳	Electronic Structure of the High- $T_c$ Ferromagnetic Semiconductor (Ga,Fe)Sb: X-ray Magnetic Circular Dichroism and Resonance Photoemission Spectroscopy Studies
			2016A3831	BL23SU	藤森 淳	
38250	Ikuto Kawasaki	100 (2019) 035111	2018A3811	BL23SU	藤森 伸一	Electronic States of EuCu <sub>2</sub> Ge <sub>2</sub> and EuCu <sub>2</sub> Si <sub>2</sub> Studied by Soft X-ray Photoemission Spectroscopy
			2018B3811	BL23SU	藤森 伸一	
38283	Masahiro Mori	100 (2019) 035128	2016A7601	BL28XU	小久見 善八	First-Principles Calculations of the Atomic Structure and Electronic States of Li <sub>x</sub> FeF <sub>3</sub>
			2016B7607	BL28XU	松原 英一郎	
38306	H. Ishikawa	100 (2019) 045142	2017A3552	BL11XU	石井 賢司	Ordering of Hidden Multipoles in Spin-Orbit Entangled 5d <sup>1</sup> Ta Chlorides
38445	Dezhong Meng	99 (2019) 024508	2018A0149	BL10XU	清水 克哉	Superconductivity of the Hydrogen-Rich Metal Hydride Li <sub>5</sub> MoH <sub>11</sub> under High Pressure
38448	Tommaso Pincelli	100 (2019) 045118	2017A1323	BL19LXU	Panaccione Giancarlo	Transient Quantum Isolation and Critical Behavior in the Magnetization Dynamics of Half-Metallic Manganites
			2018A1278	BL19LXU	Panaccione Giancarlo	
			2016A1289	BL19LXU	Panaccione Giancarlo	
			2015B1162	BL19LXU	Panaccione Giancarlo	
38685	Yuichi Yokoyama	100 (2019) 115123	2017A7403	BL07LSU	和達 大樹	Photoinduced Valence Dynamics in EuNi <sub>2</sub> (Si <sub>0.21</sub> Ge <sub>0.79</sub> ) <sub>2</sub> Studied via Time-Resolved X-ray Absorption Spectroscopy
			2017B7403	BL07LSU	和達 大樹	
			2018B7578	BL07LSU	平田 靖透	
38715	Manabu Takahashi	100 (2019) 094435	2016B4252	BL12XU	平岡 望	Magnetic Circular Dichroism in Hard X-ray Raman Scattering as a Probe of Local Spin Polarization

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
38294	Akimitsu Ishihara	123 (2019) 18150-18159	2014B7900	BL36XU	石原 顕光	Emergence of Oxygen Reduction Activity in Zirconium Oxide-Based Compounds in Acidic Media: Creation of Active Sites for the Oxygen Reduction Reaction
			2016A7900	BL36XU	石原 顕光	
			2016B7900	BL36XU	石原 顕光	
			2017A7900	BL36XU	石原 顕光	
38368	Masatsugu Oishi	123 (2019) 16034-16045	2017A1347	BL01B1	大石 昌嗣	Evaluation of the Electronic and Local Structure of Mn in Proton-Conducting Oxide, Ca(Zr,Mn)O <sub>3-δ</sub> , To Elucidate a Direct Hydrogen Dissolution Reaction
			2017B1437	BL01B1	大石 昌嗣	
			2016B1143	BL01B1	中村 崇司	
38483	Yosuke Nakaji	123 (2019) 20817-20828	2018B1732	BL14B2	中路 洋輔	Mechanism of Formation of Highly Dispersed Metallic Ruthenium Particles on Ceria Support by Heating and Reduction
			2014B1248	BL01B1	奥村 和	
38574	Ray Miyazaki	123 (2019) 12706-12715	2014A1702	BL14B2	原 賢二	DFT Mechanistic Study on the Complete Oxidation of Ethylene by the Silica-Supported Pt Catalyst: C=C Activation via the Ethylene Dioxide Intermediate
			2014A1820	BL14B2	原 賢二	
			2014B1797	BL14B2	原 賢二	
			2014B1945	BL14B2	原 賢二	
			2015A1856	BL14B2	原 賢二	
			2015A1993	BL14B2	原 賢二	
			2015B1788	BL14B2	原 賢二	
			2016A1690	BL14B2	原 賢二	
2016A1791	BL14B2	原 賢二				
38594	Tadashi Umeda	121 (2017) 24324-24334	2015A0115	BL04B2	脇原 徹	Comparative Study on the Different Interaction Pathways between Amorphous Aluminosilicate Species and Organic Structure-Directing Agents Yielding Different Zeolite Phases
38605	Soichi Kikkawa	123 (2019) 23446-23454	2017B1739	BL01B1	吉川 聡一	Isolated Platinum Atoms in Ni/γ-Al <sub>2</sub> O <sub>3</sub> for Selective Hydrogenation of CO <sub>2</sub> toward CH <sub>4</sub>
			2018A1682	BL01B1	吉川 聡一	
38764	Yuan Yuan Tan	123 (2019) 18844-18853	2016A7821	BL36XU	松井 公佑	Pt-Co/C Cathode Catalyst Degradation in a Polymer Electrolyte Fuel Cell Investigated by an Infographic Approach Combining Three-Dimensional Spectroimaging and Unsupervised Learning
			2016B7821	BL36XU	唯 美津木	
			2017A7820	BL36XU	唯 美津木	
			2017A7821	BL36XU	唯 美津木	
2018A7820	BL36XU	唯 美津木				
38767	T. T. Wang	121 (2017) 9681-9690	2016A4134	BL12B2	Lin Yan-Gu	Synergistic Effect of Hydrogenation and Thiocyanate Treatments on Ag-Loaded TiO <sub>2</sub> Nanoparticles for Solar-to-Hydrogen Conversion

Journal of the American Chemical Society

38303	Tasuku Inami	141 (2019) 12541-12544	2018B1594	BL14B2	倉橋 拓也	Nickel-Catalyzed [5+2] Cycloaddition of 10π-Electron Aromatic Benzothiofenenes with Alkynes To Form Thermally Metastable 12π-Electron Nonaromatic Benzothiepines
			2016A1549	BL14B2	倉橋 拓也	
			2018A1690	BL14B2	高橋 俊文	
			2017B1748	BL14B2	富藤 玲	
			2017A1700	BL14B2	前田 和輝	
			2016B1766	BL14B2	高橋 俊文	
			2016A1680	BL14B2	前田 和輝	
2015B1770	BL14B2	黒田 大樹				
38428	Sung-Fu Hung	140 (2018) 17263-17270	2018A4130	BL12B2	Chen Hao-Ming	Identification of Stabilizing High-Valent Active Sites by Operando High-Energy Resolution Fluorescence-Detected X-ray Absorption Spectroscopy for High-Efficiency Water Oxidation
			2018A4254	BL12XU	Chen Hao-Ming	
38430	Jiajian Gao	141 (2019) 3014-3023	2018B4254	BL12XU	Chen Hao-Ming	Breaking Long-Range Order in Iridium Oxide by Alkali Ion for Efficient Water Oxidation
38558	Yu Nakashima	140 (2018) 9743-9750	2017B2723	BL41XU	阿部 郁朗	Structural and Computational Bases for Dramatic Skeletal Rearrangement in Anditomin Biosynthesis
38608	Liyuan Qu	141 (2019) 6802-6806	2015A0074	BL02B2	森吉 千佳子	Porous Molecular Conductor: Electrochemical Fabrication of Through-Space Conduction Pathways among Linear Coordination Polymers
38678	Yao-Kai Chang	141 (2019) 8489-8502	2017A2576	BL32XU	別所 義隆	Human DNA Polymerase μ Can Use a Noncanonical Mechanism for Multiple Mn <sup>2+</sup> -Mediated Functions
			2018A2514	BL32XU	別所 義隆	
38688	Takumi Nakanishi	141 (2019) 14384-14393	2017A1364	BL02B1	佐藤 治	Observation of Proton Transfer Coupled Spin Transition and Trapping of Photoinduced Metastable Proton Transfer State in an Fe(II) Complex
			2017B1285	BL02B1	佐藤 治	
			2018A1213	BL02B1	佐藤 治	
			2018B1259	BL02B1	佐藤 治	

Chemistry of Materials

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
38243	Tomoya Nakamura	31 (2019) 1729-1737	2018A1584	BL19B2	脇岡 正幸	Molecular Orientation Change in Naphthalene Diimide Thin Films Induced by Removal of Thermally Cleavable Substituents
			2018B1617	BL46XU	脇岡 正幸	
38305	Takayuki Nagai	31 (2019) 6257-6261	2018B1713	BL02B2	永井 隆之	Weak Ferroelectricity in $n = 2$ Pseudo Ruddlesden-Popper-Type Niobate $\text{Li}_2\text{SrNb}_2\text{O}_7$
			2018A1653	BL02B1	中埜 彰俊	
38402	Eriko Watanabe	31 (2019) 2358-2365	2015B7500	BL07LSU	大久保 将史	Redox-Driven Spin Transition in a Layered Battery Cathode Material
38442	Takahiro Ogata	31 (2019) 1352-1358	2018A1642	BL02B2	尾形 昂洋	Melting of $d_{xy}$ Orbital Ordering Accompanied by Suppression of Giant Tetragonal Distortion and Insulator-to-Metal Transition in Cr-Substituted $\text{PbVO}_3$
			2017A1388	BL02B2	酒井 雄樹	
			2018A1636	BL02B2	西久保 匠	
38706	Yuki Sakai	31 (2019) 4748-4758	2017A1242	BL09XU	東 正樹	Polar-Nonpolar Phase Transition Accompanied by Negative Thermal Expansion in Perovskite-Type $\text{Bi}_{1-x}\text{Pb}_x\text{NiO}_3$
			2017A1388	BL02B2	酒井 雄樹	
			2017B3751	BL22XU	町田 晃彦	
			2017B1721	BL47XU	西久保 匠	
			2018A1642	BL02B2	尾形 昂洋	
			2018A3751	BL22XU	町田 晃彦	
			2018A1667	BL09XU	西久保 匠	
			2018B3751	BL22XU	町田 晃彦	
38711	Zhao Pan	31 (2019) 6187-6192	2018B1222	BL02B2	岡 研吾	Pronounced Negative Thermal Expansion in Lead-Free $\text{BiCoO}_3$ -Based Ferroelectrics Triggered by the Stabilized Perovskite Structure
			2018B1860	BL19B2	西久保 匠	
			2019A1045	BL02B2	Pan Zhao	

Electrochemistry

38237	Naohisa Okita	(2019) Online publication 8 July 2019	2017B1295	BL01B1	直井 勝彦	Stabilization of Solid Solution Behavior for Monoclinic $\text{Li}_3\text{V}_2(\text{PO}_4)_3$ via $\text{Al}^{3+}$ Doping
38279	Koji Kandori	87 (2019) 182-187	2017A7103	BL33XU	野中 敬正	Direct Observation of Ion Concentration Distribution on All-Solid-State Rechargeable Battery Using <i>operando</i> X-ray Radiography and Silver-Ion Conductor
			2017B7103	BL33XU	野中 敬正	
38459	Teppei Kawamoto	87 (2019) 270-275	2016B1606	BL14B2	犬飼 潤治	Sublayered Structures of Hydrated Nafion® Thin Film Formed by Casting on Pt Substrate Analyzed by X-ray Absorption Spectroscopy under Ambient Conditions and Neutron Reflectometry at Temperature of 80°C and Relative Humidity of 30–80%
			2017A1785	BL14B2	犬飼 潤治	
			2019A1768	BL14B2	犬飼 潤治	
38481	Yasushi Idemoto	87 (2019) 220-228	2016A1509	BL19B2	井手本 康	Synthesis, Crystal Structure and Electrode Properties of Spinel-Type $\text{MgCo}_{2-x}\text{Mn}_x\text{O}_4$
			2016B1859	BL19B2	井手本 康	
			2016A1510	BL14B2	井手本 康	
			2016B1852	BL14B2	井手本 康	
38707	Naoto Kitamura	87 (2019) 265-269	2017A1578	BL19B2	井手本 康	Partial Substitution Effect on Electrical Conductivity, Crystal Structure, and Electron Density Distribution of $\text{LaBaGaO}_4$ -Based Protonic Conductor
			2017B1807	BL19B2	井手本 康	
			2016B1859	BL19B2	井手本 康	
38708	Yasushi Idemoto	87 (2019) 281-288	2016B1859	BL19B2	井手本 康	Synthesis, Electrochemical Properties and Changes of Crystal and Electronic Structures in Charge/Discharge Process of Spinel Type Cathode-Materials $\text{Mg}(\text{Mg}_{0.5}\text{V}_{1.5-x}\text{Ni}_x)\text{O}_4$ ( $x = 0, 0.1, 0.2, 0.3$ ) for Magnesium Secondary Batteries
			2016A1510	BL14B2	井手本 康	
			2016B1852	BL14B2	井手本 康	
			2017A1573	BL14B2	井手本 康	

ACS Catalysis

38432	Lan Yuan	9 (2019) 4824-4833	2018B4135	BL12B2	Chen Hao-Ming	Dynamic Evolution of Atomically Dispersed Cu Species for $\text{CO}_2$ Photoreduction to Solar Fuels
38434	Nian-Tzu Suen	9 (2019) 5217-5222	2018B4137	BL12B2	Chen Hao-Ming	Morphology Manipulation of Copper Nanocrystals and Product Selectivity in the Electrocatalytic Reduction of Carbon Dioxide
38465	Ji Cao	9 (2019) 3725-3729	2016B1410	BL01B1	富重 圭一	Direct Synthesis of Unsaturated Sugars from Methyl Glycosides
			2016A1352	BL01B1	富重 圭一	
			2018B1805	BL14B2	田村 正純	
38593	Takayuki Iida	7 (2017) 8147-8151	2015A0115	BL04B2	脇原 徹	Encapsulation of Molybdenum Carbide Nanoclusters inside Zeolite Micropores Enables Synergistic Bifunctional Catalysis for Anisole Hydrodeoxygenation
38618	Takashi Fujita	9 (2019) 8364-8372	2014B1832	BL14B2	大橋 弘範	CO Oxidation over $\text{Au/ZnO}$ : Unprecedented Change of the Reaction Mechanism at Low Temperature Caused by Different $\text{O}_2$ Activation Process
			2015A1702	BL14B2	大橋 弘範	
			2015B1781	BL14B2	村山 美乃	
			2015B1883	BL14B2	石田 玉青	

Dalton 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
38363	Hiroki Iwaizumi	48 (2019) 1964-1968	2017A1040	BL02B2	守友 浩	The Effect of 3d-Electron Configuration Entropy on the Temperature Coefficient of Redox Potential in $\text{Co}_{1-x}\text{Mn}_x$ Prussian Blue Analogues
			2018A1125	BL02B2	守友 浩	
38385	Tomohiro Sugahara	48 (2019) 9053-9056	2016B1716	BL02B1	菅原 知紘	The Formation of a 1,4-disilabenzene and its Isomerization into a Disilabenzvalene Derivative
38407	Toshio Naito	48 (2019) 12858-12866	2018A1653	BL02B1	中埜 彰俊	A Molecular Crystal with an Unprecedentedly Long-Lived Photoexcited State
			2017B1733	BL02B1	鬼頭 俊介	
38409	Kentarou Ichihashi	48 (2019) 7130-7137	2017B7821	BL36XU	唯 美津木	Enhanced Oxygen Reduction Reaction Performance of Size-Controlled Pt Nanoparticled on Polypyrrole-Functionalized Carbon Nanotubes
			2016A7822	BL36XU	松井 公佑	
38771	Hong-Jie Chen	43 (2014) 11410-11417	2014A4254	BL12XU	Hsu I Jui	Possible Intermediates of Cu(phen)-Catalyzed C-O Cross-Coupling of Phenol with an Aryl Bromide by <i>in situ</i> ESI-MS and EPR Studies

Journal of Alloys and Compounds

38218	Kenji Yoshii	804 (2019) 364-369	2014A3608	BL14B1	吉井 賢資	Dielectric and Magnetocaloric Study of $\text{TmCrO}_3$
38316	Taisuke Sasaki	790 (2019) 750-759	2016B1024	BL02B2	廣澤 哲	Role of Ga on the High Coercivity of Nd-rich Ga-doped Nd-Fe-B Sintered Magnet
			2015A1007	BL46XU	廣澤 哲	
			2017A1010	BL46XU	廣澤 哲	
38318	Nikolai G. Dorbakov	793 (2019) 56-64	2016B4504	BL15XU	山浦 一成	Barium-Induced Effects on Structure and Properties of $\beta$ - $\text{Ca}_3(\text{PO}_4)_2$ -type $\text{Ca}_9\text{Bi}(\text{VO}_4)_7$
38319	Alexei Belik	793 (2019) 42-48	2018B4502	BL15XU	Belik Alexei	Crystal Structure and Magnetic Properties of A-Site-Ordered Quadruple Perovskite $\text{CeCu}_3\text{Cr}_4\text{O}_{12}$
38322	Evgeniya S. Zhukovskaya	787 (2019) 1301-1309	2017A4503	BL15XU	Belik Alexei	Crystal Structure, Dielectric, and Optical Properties of $\beta$ -Calcium Orthophosphates Heavily Doped with Ytterbium

Macromolecules

38291	Hitoshi Shimamoto	52 (2019) 5963-5970	2016A1018	BL19B2	高原 淳	Nanocomposite Elastomers Composed of Silica Nanoparticles Grafted with a Comb-Shaped Copolymer Brush
			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	
38562	Chen Kuang	52 (2019) 4812-4819	2017B1409	BL40B2	佐藤 尚弘	Micellization and Phase Separation in Aqueous Solutions of Thermosensitive Block Copolymer Poly( <i>N</i> -isopropylacrylamide)- <i>b</i> -poly( <i>N</i> -vinyl-2-pyrrolidone) upon Heating
			2018B1155	BL40B2	佐藤 尚弘	
38563	Tetiana Sezonenko	52 (2019) 935-944	2017B1409	BL40B2	佐藤 尚弘	Dehydration, Micellization, and Phase Separation of Thermosensitive Polyoxazoline Star Block Copolymers in Aqueous Solution
38564	Kohji Tashiro	52 (2019) 2189-2202	2018A1410	BL02B1	田代 孝二	Experimental Determination of the Geometrical Relation between Monomer and Polymer Species of 2,5-Distyrylpyrazine Single Crystal in the Topotactic Photoinduced Polymerization Reaction
38662	Wataru Takagi	52 (2019) 6633-6640	2016A1078	BL40B2	高野 敦志	Bicontinuous Double-Diamond Structures Formed in Ternary Blends of AB Diblock Copolymers with Block Chains of Different Lengths
			2016B1073	BL40B2	高野 敦志	
			2018A1474	BL40B2	高野 敦志	

ACS Applied Materials & Interfaces

38421	Yu-Te Liao	9 (2017) 42425-42429	2016A4129	BL12B2	Chen Hao-Ming	Mesoporous $\text{TiO}_2$ Embedded with a Uniform Distribution of CuO Exhibit Enhanced Charge Separation and Photocatalytic Efficiency
38476	Ming-Jay Deng	11 (2019) 29838-29848	2018A4143	BL12B2	Deng Ming-Jay	3D Network $\text{V}_2\text{O}_5$ Electrodes in a Gel Electrolyte for High-Voltage Wearable Symmetric Pseudocapacitors
			2019A4253	BL12XU	Deng Ming-Jay	
38498	Damian Kowalski	11 (2019) 28823-28829	2017B7612	BL28XU	松原 英一郎	Activation of Catalytically Active Edge-Sharing Domains in $\text{Ca}_2\text{FeCoO}_5$ for Oxygen Evolution Reaction in Highly Alkaline Media
			2018A7612	BL28XU	松原 英一郎	
38560	Shu-Jui Chang	11 (2019) 31562-31572	2018A1048	BL25SU	Chang Shu-Jui	$\text{GdFe}_{0.8}\text{Ni}_{0.2}\text{O}_3$ : A Multiferroic Material for Low-Power Spintronic Devices with High Storage Capacity

### Applied Physics 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
38282	Huiwen Lin	112 (2018) 073903	2016B4503	BL15XU	野口 秀典	Application of Windowless Energy Dispersive Spectroscopy to Determine Li Distribution in Li-Si Alloys
38452	Kimihiko Kato	107 (2015) 102102	2012B1575	BL46XU	財満 鎮明	Oxygen and Germanium Migration at Low Temperature Influenced by the Thermodynamic Nature of the Materials Used in Germanium Metal-Insulator-Semiconductor Structures
			2009B0026	BL46XU	宮崎 誠一	
38453	Shigehisa Shibayama	103 (2013) 082114	2012B1575	BL46XU	財満 鎮明	Understanding of Interface Structures and Reaction Mechanisms Induced by Ge or GeO Diffusion in Al <sub>2</sub> O <sub>3</sub> /Ge Structure
			2009B0026	BL46XU	宮崎 誠一	
38744	Shengkun Yao	108 (2016) 123702	2014A1270	BL29XU	Jiang Huaidong	Equally Sloped X-ray Microtomography of Living Insects with Low Radiation Dose and Improved Resolution Capability

### Chemical Communications

38236	Koh Sugamata	57 (2019) 8254-8257	2018A1167	BL40XU	笹森 貴裕	A Stable Bis(methylene)- $\lambda^4$ -selane with a >C=Se<C< Bond Containing Se(IV)
			2018A1405	BL40XU	箕浦 真生	
			2018B1084	BL40XU	笹森 貴裕	
			2018B1275	BL40XU	箕浦 真生	
			2019A1057	BL02B1	笹森 貴裕	
38378	Ji Ha Lee	55 (2019) 1303-1305	2017B1351	BL40B2	櫻井 和朗	Tuning of the Aggregation Number of Platonic Micelles with a Binary Mixture of Calix[4]arene Surfactants
			2017A1414	BL40B2	櫻井 和朗	
			2016B1481	BL40B2	櫻井 和朗	
			2016A1242	BL40B2	櫻井 和朗	
38474	Ryohei Yamakado	55 (2019) 10269-10272	2017B1302	BL40XU	山門 陵平	Photo-Responsive Dimension-Controlled Ion-Pairing Assemblies Based on Anion Complexes of $\pi$ -electric Systems
			2017A1248	BL40B2	山門 陵平	
			2017A1305	BL40B2	前田 大光	
			2018A1436	BL40B2	前田 大光	
			2018A1437	BL40B2	平田 剛輝	
38730	Silvia Bracco	53 (2017) 7776-7779	2016A1610	BL38B1	宮野 哲也	CO <sub>2</sub> Regulates Molecular Rotor Dynamics in Porous Materials
			2016B1746	BL38B1	岡田 直樹	

### Journal of Power Sources

38211	Jonghyun Han	435 (2019) 226822	2017B1077	BL02B2	山田 幾也	Suppressive Effect of Fe Cations in Mg(Mn <sub>1-x</sub> Fe <sub>x</sub> ) <sub>2</sub> O <sub>4</sub> Positive Electrodes on Oxidative Electrolyte Decomposition for Mg Rechargeable Batteries
38260	Naoto Kitamura	437 (2019) 226905	2015A1544	BL04B2	井手本 康	Study of Atomic Ordering across the Layer in Lithium-Rich Layered Positive Electrode Materials towards Preparation Process Optimization
38413	Shao-Chu Huang	435 (2019) 226702	2017B4138	BL12B2	Chen Han-Yi	Vanadium-based Polyoxyometalate as Electron/Ion Sponge for Lithium-Ion Storage
38731	Yasutaka Nagai	435 (2019) 226809	2017A7032	BL33XU	長井 康貴	Improving Water Management in Fuel Cells through Microporous Layer Modifications: Fast <i>Operando</i> Tomographic Imaging of Liquid Water
			2017B7032	BL33XU	長井 康貴	
			2018A7032	BL33XU	長井 康貴	

### Physical Chemistry Chemical Physics

38454	Daisuke Asakura	21 (2019) 18363-18369	2014B7475	BL07LSU	朝倉 大輔	Mn 2p Resonant X-ray Emission Clarifies the Redox Reaction and Charge-Transfer Effects in LiMn <sub>2</sub> O <sub>4</sub>
			2015A7483	BL07LSU	朝倉 大輔	
			2015B7495	BL07LSU	朝倉 大輔	
			2016A7511	BL07LSU	朝倉 大輔	
38561	Kazumasa Murata	21 (2019) 18128-18137	2018A1756	BL14B2	村田 和優	Identification of Active Sites in CO Oxidation over a Pd/Al <sub>2</sub> O <sub>3</sub> Catalyst
38592	Takayuki Iida	20 (2018) 7914-7919	2015A0115	BL04B2	脇原 徹	Zeolites with Isolated-Framework and Oligomeric-Extraframework Hafnium Species Characterized with Pair Distribution Function Analysis
38637	Hongxin Wang	20 (2018) 8166-8176	2016B3302	BL08B2	李 雷	L-edge Sum Rule Analysis on 3d Transition Metal Sites: from d <sup>10</sup> to d <sup>9</sup> and towards Application to Extremely Dilute Metallo-Enzymes
			2017A3302	BL08B2	李 雷	



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
38219	Akanksha Tyagi	8 (2018) 24021-24028	2017A1477	BL01B1	山本 旭	Novel Blended Catalysts Consisting of a TiO <sub>2</sub> Photocatalyst and an Al <sub>2</sub> O <sub>3</sub> Supported Pd-Au Bimetallic Catalyst for Direct Dehydrogenative Cross-Coupling between Arenes and Tetrahydrofuran
			2016A1170	BL01B1	山本 旭	
38377	Okkyun Seo	9 (2019) 21311-21317	2015B4907	BL15XU	小林 浩和	The Relationship between Crystalline Disorder and Electronic Structure of Pd Nanoparticles and Their Hydrogen Storage Properties
			2017A4501	BL15XU	坂田 修身	
			2017B4503	BL15XU	坂田 修身	
			2014B1210	BL04B2	Kumara Rosantha	
			2015B1245	BL04B2	坂田 修身	
			2016B1033	BL01B1	坂田 修身	
			2017A1320	BL04B2	坂田 修身	
			2017B1019	BL04B2	坂田 修身	
			2017B1368	BL04B2	坂田 修身	
38405	Yuji Mahara	7 (2017) 34530-34537	2016A1662	BL01B1	馬原 優治	Methane Combustion over Pd/CoAl <sub>2</sub> O <sub>4</sub> /Al <sub>2</sub> O <sub>3</sub> Catalysts Prepared by Galvanic Deposition
			2015B1482	BL01B1	大山 順也	
38697	Masafumi Harada	9 (2019) 29511-29521	2015A1261	BL04B2	原田 雅史	Reverse Monte Carlo Modeling for Local Structures of Noble Metal Nanoparticles Using High-energy XRD and EXAFS
			2016A1093	BL04B2	原田 雅史	

IUCrJ

38254	Thomas P. Halsted	6 (2019) 761-772	2017B8028	BL2	吾郷 日出夫	Catalytically Important Damage-Free Structures of a Copper Nitrite Reductase Obtained by Femtosecond X-ray Laser and Room-Temperature Neutron Crystallography
38601	Woo-Chang Chung	5 (2018) 866-879	2017B6770	BL44XU	Hwang Kwang Yeon	Structure-Based Mechanism of Action of a Viral Poly(ADP-ribose) Polymerase 1-Interacting Protein Facilitating Virus Replication
38739	Shengkun Yao	5 (2018) 141-149	2014A1270	BL29XU	Jiang Huaidong	Three-dimensional Ultrastructural Imaging Reveals the Nanoscale Architecture of Mammalian Cells

Journal of Materials Chemistry A

38410	Anucha Koedtruad	7 (2019) 5583-5588	2018B1710	BL02B2	Koedtruad Anucha	Structure-Property Relations in Ag-Bi-I Compounds: Potential Pb-free Absorbers in Solar Cells
38471	Shinya Masuda	7 (2019) 16356-16363	2017B1084	BL01B1	森 浩亮	PdAg Nanoparticles Supported on Resorcinol-Formaldehyde Polymers Containing Amine Groups: the Promotional Effect of Phenylamine Moieties on CO <sub>2</sub> Transformation to Formic Acid
38607	Chengyan Liu	7 (2019) 9761-9772	2015A0074	BL02B2	森吉 千佳子	Dynamic Ag <sup>+</sup> -Intercalation with AgSnSe <sub>2</sub> Nano-Precipitates in Cl-Doped Polycrystalline SnSe <sub>2</sub> toward Ultra-High Thermoelectric Performance

Journal of the American Ceramic Society

38324	Nikolai G. Dorbakov	101 (2018) 4011-4022	2016B4504	BL15XU	山浦 一成	Influence of Magnesium on Dielectric Properties of Ca <sub>9-x</sub> Mg <sub>x</sub> Bi(VO <sub>4</sub> ) <sub>7</sub> Ceramics
38394	Donglin Han	(2019) Online published 17 Aug. 2019	2018B5331	BL16B2	後藤 和宏	Electrochemical and Structural Influence on BaZr <sub>0.8</sub> Y <sub>0.2</sub> O <sub>3-δ</sub> from Manganese, Cobalt, and Iron Oxide Additives
			2013B1568	BL14B2	宇田 哲也	
38719	Norimasa Nishiyama	102 (2019) 2195-2202	2017A1316	BL10XU	西山 宣正	Phase Relations in Silicon and Germanium Nitrides up to 98 GPa and 2400°C

Journal of the Physical Society of Japan

38247	Kento Kobayashi	88 (2019) 084708	2017B1235	BL25SU	菅 大介	Orbital Magnetic Moments in Strained SrRuO <sub>3</sub> Thin Films
38500	Chihiro Tabata	88 (2019) 093704	2018A3786	BL22XU	松村 武	Magnetic Field Induced Triple- <i>q</i> Magnetic Order in Trillium Lattice Antiferromagnet EuPtSi Studied by Resonant X-ray Scattering
38681	Shinichi Nakamura	88 (2019) 103702	2018B3583	BL11XU	中村 真一	The First Observation of Pure Nuclear Bragg Reflection from Natural Iron $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> by Synchrotron Mössbauer Diffraction
			2019A3583	BL11XU	中村 真一	

### Nature 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
38400	Somnath Dey	10 (2019) 3711	2015A1497	BL43IR	Reddy Chilla Malla	Mechanically Interlocked Architecture Aids an Ultra-Stiff and Ultra-Hard Elastically Bendable Cocrystal
38553	Shin-Fu Chen	9 (2018) 3085	2015B4007	BL12B2	Chan Nei Li	Structural Insights into the Gating of DNA Passage by the Topoisomerase II DNA-Gate
			2015A4007	BL12B2	Chan Nei Li	
			2014A4008	BL12B2	Chan Nei Li	
			2013B4006	BL12B2	Chan Nei Li	
			2013A4013	BL12B2	Chan Nei Li	
2016A4006	BL12B2	Chan Nei Li				
38698	Tetsuo Katayama	10 (2019) 3606	2017A8044	BL3	片山 哲夫	Tracking Multiple Components of a Nuclear Wavepacket in Photoexcited Cu(I)-phenanthroline Complex using Ultrafast X-ray Spectroscopy

### Polymer

38208	Shotaro Nishitsuji	179 (2019) 121622	2005A0690	BL45XU	竹中 幹人	Viscoelastic Effects on Dynamics of Concentration Fluctuations in Semi-Dilute Polymer Solution in the Good Solvent Regime
			2005B0336	BL45XU	竹中 幹人	
38240	Ken Kojo	179 (2019) 121632	2015B1459	BL40XU	小椎尾 謙	Advantages of Bulge Testing and Rupture Mechanism of Glassy Polymer Films
38565	Kohji Tashiro	171 (2019) 140-148	2017B1215	BL02B1	田代 孝二	Crystal Structure of Cellulose-iodine Complex

### ACS Omega

38597	Toyohiro Usui	4 (2019) 3653-3659	2018A0155	BL04B2	脇原 徹	Identifying the Factors Governing the Early-Stage Degradation of Cu-Chabazite Zeolite for NH <sub>3</sub> -SCR
			2015A0115	BL04B2	脇原 徹	
38663	Junichi Nomoto	4 (2019) 14526-14536	2019A1813	BL46XU	野本 淳一	Improvement of the Properties of Direct-Current Magnetron-Sputtered Al-Doped ZnO Polycrystalline Films Containing Retained Ar Atoms Using 10-nm-Thick Buffer Layers

### Acta Crystallographica Section D

38401	R. Bruce Doak	74 (2018) 1000-1007	2017B8002	BL2	Schlichting Ilme	Crystallography on a Chip - without the Chip: Sheet-on-Sheet Sandwich
38614	Taisuke Nomura	75 (2019) 426-436	2016A2540	BL26B1	三上 文三	High-Resolution Crystal Structures of the Glycoside Hydrolase Family 45 Endoglucanase EG27II from the Snail <i>Ampullaria crosseana</i>

### AIP Advances

38365	Yuya Fukuzumi	8 (2018) 065021	2017A1040	BL02B2	守友 浩	Temperature Coefficient of Redox Potential of Li <sub>x</sub> FePO <sub>4</sub>
			2017A1649	BL02B2	福住 勇矢	
38747	Aya Obinata	8 (2018) 115122	2015B0901	BL25SU	千葉 大地	Electric Field Effect on Magnetism in a MgO/Pd/Co System with a Solid-State Capacitor Structure
			2017B0921	BL25SU	壬生 攻	
			2017A1869	BL25SU	小谷 佳範	

### Antimicrobial Agents and Chemotherapy

38416	Masayuki Amano	63 (2019) e00466-19	2014A1001	BL41XU	山本 雅貴	Novel Central Nervous System (CNS)-Targeting Protease Inhibitors for Drug-Resistant HIV Infection and HIV-Associated CNS Complications
38417	Shin-ichiro Hattori	63 (2019) e02635-18	2014A1001	BL41XU	山本 雅貴	Halogen Bond Interactions of Novel HIV-1 Protease Inhibitors (PI) (GRL-001-15 and GRL-003-15) with the Flap of Protease Are Critical for Their Potent Activity against Wild-Type HIV-1 and Multi-PI-Resistant Variants
			2016A1001	BL41XU	山本 雅貴	

### Applied Catalysis A: General

38257	Hien Nguyen	577 (2019) 35-43	2014A4900	BL15XU	小廣 和哉	Highly Durable Ru Catalysts Supported on CeO <sub>2</sub> Nanocomposites for CO <sub>2</sub> Methanation
			2014B1051	BL40XU	小廣 和哉	
			2015A4900	BL15XU	小廣 和哉	
			2016A4905	BL15XU	小廣 和哉	
			2017A4908	BL15XU	小廣 和哉	
38732	Min-Hong Liu	586 (2019) 117216	2018A4910	BL15XU	小廣 和哉	Origins of Catalysis for CO Oxidation on Porous Ag Fabricated by Leaching of Intermetallic Compound Mg <sub>3</sub> Ag
			2017B4907	BL15XU	亀岡 聡	
			2018B4912	BL15XU	亀岡 聡	

### Cell

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
38437	Xiaoting Li	176 (2019) 459-467	2018A2561	BL41XU	Liu Zhi-Jie	Crystal Structure of the Human Cannabinoid Receptor CB2
			2017A2708	BL41XU	Liu Zhi-Jie	
			2018B2721	BL41XU	Liu Zhi-Jie	
38439	Yao Peng	172 (2018) 719-730	2015B1031	BL41XU	Liu Zhi-Jie	5-HT <sub>2C</sub> Receptor Structures Reveal the Structural Basis of GPCR Polypharmacology

### Chemical and Pharmaceutical Bulletin

38301	Mitsuhiro Arisawa	67 (2019) 733-771	2011A1835	BL14B2	有澤 光弘	Development of Metal Nanoparticle Catalysis toward Drug Discovery
			2011B1761	BL27SU	有澤 光弘	
			2011B1952	BL14B2	有澤 光弘	
			2012A1621	BL27SU	有澤 光弘	
			2012A1770	BL14B2	有澤 光弘	
			2012B1751	BL27SU	有澤 光弘	
			2013A1792	BL14B2	有澤 光弘	
			2013A1322	BL14B2	新井 聡史	
			2014A1786	BL14B2	有澤 光弘	
			2014B1247	BL27SU	有澤 光弘	
			2016A1678	BL14B2	谷口 敬寿	
			2016B1745	BL27SU	谷口 敬寿	
			2017A1793	BL14B2	秋山 敏毅	
			2017B1931	BL14B2	秋山 敏毅	
2017B1732	BL27SU	秋山 敏毅				
2018A1793	BL14B2	秋山 敏毅				
2018B1864	BL14B2	秋山 敏毅				
38714	Yasunori Iwao	67 (2019) 935-939	2015A1293	BL02B1	野口 修治	Crystal Structures of Flavone C-Glycosides from Oolong Tea Leaves: Chafuroside A Dihydrate and Chafuroside B Monohydrate

### The Chemical Record

38403	Yuji Mahara	18 (2018) 1306-1313	2016A1662	BL01B1	馬原 優治	Synthesis of Supported Bimetal Catalysts using Galvanic Deposition Method
38414	Yuki Wakisaka	19 (2018) 1157-1165	2016A7902	BL36XU	朝倉 清高	Development of Surface Fluorescence X-Ray Absorption Fine Structure Spectroscopy Using a Laue-Type Monochromator

### Chemistry - A European Journal

38242	Minh Anh Truong	25 (2019) 6741-6752	2018A1584	BL19B2	脇岡 正幸	Influence of Alkoxy Chain Length on the Properties of Two-Dimensionally Expanded Azulene-Core-Based Hole-Transporting Materials for Efficient Perovskite Solar Cells
			2017A1823	BL19B2	若宮 淳志	
38427	Chia-Shuo Hsu	24 (2018) 18419-48423	2018A4125	BL12B2	Chen Hao-Ming	$\pi$ -Conjugated Organic-Inorganic Hybrid Photoanodes: Revealing the Photochemical Behavior through In Situ X-Ray Absorption Spectroscopy

### Crystal Growth & Design

38591	Hirofumi Horikawa	18 (2018) 2180-2188	2015A0115	BL04B2	脇原 徹	Crystallization of Ti-Rich *BEA Zeolites by the Combined Strategy of Using Ti-Si Mixed Oxide Composites and Intentional Aluminum Addition/Post-Synthesis Dealumination
38680	Venkatesha Hathwar	19 (2019) 3979-3988	2014A0078	BL02B1	Iversen Bo	Low-Temperature Structural Phase Transitions in Thermoelectric Tetrahedrite, Cu <sub>12</sub> Sb <sub>4</sub> S <sub>13</sub> , and Tennantite, Cu <sub>12</sub> As <sub>4</sub> S <sub>13</sub>
			2019A0159	BL02B1	西堀 英治	

### International Journal of Biological Macromolecules

38406	Hyounsok Kim	119 (2018) 335-344	2017A6772	BL44XU	Kim Hyounsok	Structural Basis for the Substrate Recognition of Peptidoglycan Pentapeptides by <i>Enterococcus faecalis</i> VanY <sub>B</sub>
38617	Wan Hasnidah Wan Osman	132 (2019) 222-229	2018A2533	BL26B1	三上 文三	Identification of Key Residues for Activities of Atypical Glutathione S-transferase of <i>Ceriporiopsis subvernisporea</i> , a Selective Degrader of Lignin in Woody Biomass, by Crystallography and Functional Mutagenesis
			2017A2547	BL26B1	三上 文三	
			2018A2563	BL26B1	三上 文三	

### 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
38255	Satoshi Hiroi	125 (2019) 225101	2017B4902	BL15XU	竹内 恒博	Phonon Scattering at the Interfaces of Epitaxially Grown Fe <sub>2</sub> VAl/W and Fe <sub>2</sub> VAl/Mo Superlattices
38444	Kenji Nomura	126 (2019) 074105	2018A5110	BL16XU	淡路 直樹	Reconstruction of IrO <sub>2</sub> /(Pb, La)(Zr, Ti)O <sub>3</sub> (PLZT) Interface by Optimization of Postdeposition Annealing and Sputtering Conditions
			2018B5110	BL16XU	土井 修一	

### The Journal of Biochemistry

38604	Daiyu Doubayashi	166 (2019) 67-75	2013A6849	BL44XU	三上 文三	The Microenvironment Surrounding FAD Mediates Its Conversion to 8-Formyl-FAD in <i>Aspergillus oryzae</i> RIB40 Formate Oxidase
			2013B6849	BL44XU	三上 文三	
			2010A1489	BL26B1	三上 文三	
			2011A1221	BL38B1	三上 文三	
			2011B1419	BL38B1	三上 文三	
2010B1456	BL38B1	三上 文三				
38613	Katsumasa Nagano	(2019) Online published 3 Sep. 2019	2012A1631	BL28B2	深水 昭吉	Cooperative Action of APJ and $\alpha$ 1A-adrenergic Receptor in Vascular Smooth Muscle Cells Induces Vasoconstriction

### The Journal of Chemical Physics

38648	Hironobu Fukuzawa	151 (2019) 104302	2013B1688	BL17SU	立花 徹也	Probing Gaseous Molecular Structure by Molecular-Frame Photoelectron Angular Distributions
38686	Razib Obaid	151 (2019) 104308	2017B8019	BL3	Berrah Nora	Photo-ionization and Fragmentation of Sc <sub>3</sub> N@C <sub>80</sub> Following Excitation above the Sc K-edge

### The Journal of Physical Chemistry B

38207	Haruna Hayase	123 (2019) 5377-5383	2016B1383	BL37XU	瀧上 隆智	Solid Film Formation at the Tetradecane/Aqueous Hexadecyltrimethylammonium Bromide Solution Interface Studied by Interfacial Tensiometry and X-ray Reflectometry
			2017A1221	BL37XU	瀧上 隆智	
			2017B1126	BL37XU	瀧上 隆智	
38369	Rintaro Takahashi	123 (2019) 4340-4345	2018A7231	BL03XU	高橋 倫太郎	Observing the Kinetic Pathway of Nanotube Formation from Bolaamphiphiles by Time-Resolved Small-Angle X-ray Scattering
			2017B1354	BL45XU	櫻井 和朗	
			2017B7282	BL03XU	高橋 倫太郎	
			2018B1370	BL45XU	櫻井 和朗	
			2018B7283	BL03XU	高橋 倫太郎	

### Journal of Solid State Chemistry

38214	Yoshiyuki Inaguma	277 (2019) 363-367	2018B1194	BL02B2	稲熊 宣之	Low-Temperature Formation of Pb <sub>2</sub> O <sub>7</sub> with O/F Anion Ordering by Solid State Reaction
			2018A1187	BL02B2	植田 紘一郎	
			2018B1413	BL02B2	植田 紘一郎	
38320	Alexei Belik	275 (2019) 43-48	2018B4502	BL15XU	Belik Alexei	Crystal Structures of Cation Non-Stoichiometric RMn <sub>3</sub> O <sub>6</sub> (R = Gd, Er, and Tm) Manganites Belonging to A-Site Columnar-Ordered Quadruple Perovskite Family
			2017B4502	BL15XU	辻本 吉廣	
			2017A4503	BL15XU	Belik Alexei	

### Journal of Synchrotron Radiation

38252	Go Ueno	26 (2019) 912-921	2016A1001	BL41XU	山本 雅貴	Low-Dose X-ray Structure Analysis of Cytochrome c Oxidase Utilizing High-Energy X-rays
			2016A2533	BL41XU	長谷川 和也	
			2017A2522	BL41XU	長谷川 和也	
38297	Yuya Kubota	26 (2019) 1139-1143	2017B8088	BL3	久保田 雄也	Polarization Control with an X-ray Phase Retarder for High-Time-Resolution Pump-Probe Experiments at SACLA

### Microporous and Mesoporous Materials

38596	Kenta Iyoki	268 (2018) 77-83	2015A0115	BL04B2	脇原 徹	Formation of a Dense Non-Crystalline Layer on the Surface of Zeolite Y Crystals under High-Temperature Steaming Conditions
38598	Naomichi Hikichi	284 (2019) 82-89	2018A0155	BL04B2	脇原 徹	Role of Sodium Cation during Aging Process in the Synthesis of LEV-Type Zeolite

### Microscopy and Microanalysis

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
38533	Rino Saiga	25 (2019) 1344-1345	2011A0034	BL47XU	水谷 隆太	Nanometer-Scale Structures of Neurons Differ Between Individuals and Those Difference Become Extraordinary in Schizophrenia
			2014A1057	BL37XU	水谷 隆太	
			2015B1101	BL20XU	水谷 隆太	
			2017A1143	BL37XU	水谷 隆太	
			2018B1187	BL37XU	水谷 隆太	
2019A1207	BL20XU	水谷 隆太				
38741	Shengkun Yao	23 (2017) 1-7	2014A1270	BL29XU	Jiang Huaidong	Synchrotron X-ray Microtomography with Improved Image Quality by Ring Artifacts Correction for Structural Analysis of Insects

### Physics of the Earth and Planetary Interiors

38625	Takeshi Arimoto	295 (2019) 106297	2015B1682	BL04B1	有本 岳史	Phase Relations of MgSiO <sub>3</sub> -FeSiO <sub>3</sub> System Up to 64 GPa and 2300K Using Multianvil Apparatus with Sintered Diamond Anvils
38677	Takashi Yoshino	294 (2019) 106295	2018B1071	BL04B1	芳野 極	Fate of Water in Subducted Hydrous Sediments Deduced from Stability Fields of FeOOH and AlOOH up to 20 GPa
			2017B1175	BL04B1	芳野 極	

### Polymer Journal

38244	Nagisa Tsuji	51 (2019) 1147-1161	2018B1141	BL40B2	鈴木 祥仁	Adamantane-Containing Poly(dialkyl fumarate)s with Rigid Chain Structures
38642	Mamiko Narita	(2019) Online published 9 Sep. 2019	2016A7003	BL33XU	原田 雅史	Simultaneous Study of Anionic Polymerization of $\epsilon$ -caprolactam and Crystallization of Polyamide 6 in an Isothermal Process by in situ WAXS
			2016B7003	BL33XU	原田 雅史	

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

38232	Binbin Yue	116 (2019) 14905-14909	2017A1302	BL10XU	Yue Binbin	A Simple Variant Selection in Stress-Driven Martensitic Transformation
			2014B1254	BL10XU	Yue Binbin	
38609	Katsuya Araki	116 (2019) 17963-17969	2013B1737	BL40XU	望月 秀樹	Parkinson's Disease is a Type of Amyloidosis Featuring Accumulation of Amyloid Fibrils of $\alpha$ -Synuclein
			2013A1671	BL40XU	望月 秀樹	
			2014A1712	BL40XU	望月 秀樹	
			2014B1811	BL40XU	望月 秀樹	
			2015A1858	BL40XU	望月 秀樹	
			2016A1149	BL45XU	望月 秀樹	
			2016A1153	BL43IR	望月 秀樹	
			2016B1235	BL40XU	荒木 克哉	
			2017B1281	BL40XU	荒木 克哉	
2018A1117	BL40XU	荒木 克哉				

### Science

38397	Wenda Wang	363 (2019) 598-565	2018A2562	BL41XU	于 龍江	Structural Basis for Blue-Green Light Harvesting and Energy Dissipation in Diatoms
			2017A2590	BL41XU	于 龍江	
			2016A2553	BL41XU	于 龍江	
38435	Jun Gu	364 (2019) 1091-1094	2017B4142	BL12B2	Chen Hao-Ming	Atomically Dispersed Fe <sup>3+</sup> Sites Catalyze Efficient CO <sub>2</sub> Electroreduction to CO
			2017B4136	BL12B2	Chen Hao-Ming	

### Science and Technology of Advanced Materials

38274	Tarojiro Matsumura	20 (2019) 733-745	2012B7402	BL07LSU	堀場 弘司	Spectrum Adapted Expectation-Maximization Algorithm for High-Throughput Peak Shift Analysis
			2013A7443	BL07LSU	吹留 博一	
			2014B7472	BL07LSU	吹留 博一	
			2015A7482	BL07LSU	吹留 博一	
			2015B7402	BL07LSU	尾嶋 正治	
			2017A7402	BL07LSU	尾嶋 正治	
38357	Shigenori Ueda	20 (2019) 796-804	2015B4606	BL15XU	上田 茂典	Electronic Structures of MgO/Fe Interfaces with Perpendicular Magnetization Revealed by Hard X-ray Photoemission with an Applied Magnetic Field
			2014B4606	BL15XU	上田 茂典	

## Thin Solid Films

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
38551	Vuong Van Cuong	669 (2019) 306-314	2016A1538	BL46XU	黒木 伸一郎	High-Temperature Reliability of Ni/Nb Ohmic Contacts on 4H-SiC for Harsh Environment Applications
			2016B1780	BL46XU	村岡 幸輔	
			2017B1617	BL46XU	黒木 伸一郎	
38676	Norikazu Ishigaki	686 (2019) 137433	2016B1143	BL01B1	中村 崇司	Effect of Post-deposition Annealing in Oxygen Atmosphere on LiCoMnO <sub>4</sub> Thin Films for 5 V Lithium Batteries
			2017A1417	BL01B1	中村 崇司	

## 実験力学 (Journal of the Japanese Society for Experimental Society)

38626	Rino Yamamoto	19 (2019) 30-37	2018A1775	BL46XU	三宅 修吾	Crystal Structure Analysis of Al/Ni Multilayer Powder during Exothermic Reaction by Synchrotron Radiation X-ray Diffraction Measurement
			2018B1779	BL19B2	三宅 修吾	
38627	Daiki Goto	19 (2019) 122-126	2018A1775	BL46XU	三宅 修吾	Bilayer Thickness Dependence on Self-Propagating Exothermic Reaction of Al/Ni Multilayer Films
			2018B1779	BL19B2	三宅 修吾	

## ACS Applied Energy Materials

38638	Takeyuki Sekimoto	2 (2019) 5039-5049	2018B5120	BL16XU	山田 周吾	Influence of a Hole-Transport Layer on Light-Induced Degradation of Mixed Organic-Inorganic Halide Perovskite Solar Cells
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## ACS Applied Polymer Materials

38689	Sultan Otep	1 (2019) 2302-2312	2018B1001	BL40B2	松本 英俊	Tuning Backbone Planarity in Thiadiazolobenzotriazole-Bis(thienothiophenyl)ethylene Copolymers for Organic Field-Effect Transistors
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## ACS Central Science

38431	Fang Song	5 (2019) 558-568	2018B4126	BL12B2	Chen Hao-Ming	An Unconventional Iron Nickel Catalyst for the Oxygen Evolution Reaction
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## ACS Combinatorial Science

38220	Masato Matsubara	21 (2019) 400-407	2016A7030	BL33XU	田島 伸	Development of a High-Throughput Screening Method for Oxide-Ion Conductors and Its Application to Bismuth-Based Oxide Library Thin Films
			2016B7030	BL33XU	田島 伸	
			2017A7030	BL33XU	田島 伸	
			2017B7030	BL33XU	田島 伸	
			2018A7030	BL33XU	田島 伸	

## ACS Earth and Space Chemistry

38339	Minako Kurisu	3 (2019) 588-598	2017A1798	BL05XU	高橋 嘉夫	Stable Isotope Ratios of Combustion Iron Produced by Evaporation in a Steel Plant
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## ACS Energy Letters

38285	Nagesh B. Kolhe	4 (2019) 1162-1170	2016B1574	BL19B2	葛原 大軌	New Random Copolymer Acceptors Enable Additive-Free Processing of 10.1% Efficient All-Polymer Solar Cells with Near Unity Internal Quantum Efficiency
			2018A1744	BL46XU	小金澤 智之	
			2018B1772	BL46XU	小金澤 智之	

## ACS Macro Letters

38238	Shuhei Nozaki	8 (2019) 218-222	2012B1506	BL40XU	小椎尾 謙	Direct Evaluation of Local Dynamic Viscoelastic Properties of Isotactic Polypropylene Films Based on Dynamic $\mu$ -Beam X-ray Diffraction Method
			2013B1186	BL40XU	小椎尾 謙	
			2014B1198	BL40XU	小椎尾 謙	
			2015A1514	BL40XU	小椎尾 謙	
			2015B1325	BL40XU	小椎尾 謙	
			2015B1459	BL40XU	小椎尾 謙	
			2016A1012	BL40XU	高原 淳	
			2016A1414	BL40XU	小椎尾 謙	
			2016B1032	BL40XU	高原 淳	
			2016B1436	BL40XU	小椎尾 謙	

## ACS Nano

38424	Lin Lv	12 (2018) 3042-3051	2017B4259	BL12XU	Chen Hao-Ming	A Universal Method to Engineer Metal Oxide-Metal-Carbon Interface for Highly Efficient Oxygen Reduction
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### Acta Crystallographica Section F

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
38213	Masato Tsuyuguchi	75 (2019) 515-519	2017B6717	BL44XU	木下 誉富	A Promiscuous Kinase Inhibitor Delineates the Conspicuous Structural Features of Protein Kinase CK2a1

### Acta Materialia

38287	Hang Su	176 (2019) 96-108	2016A1199	BL37XU	戸田 裕之	Assessment of Hydrogen Embrittlement via Image-Based Techniques in Al-Zn-Mg-Cu Aluminum Alloys
			2016B1081	BL37XU	清水 一行	

### Advanced Materials

38703	Jicheng Zhang	31 (2019) 1901808	2018A3634	BL14B1	吉川 浩史	Tuning Oxygen Redox Chemistry in Li-Rich Mn-Based Layered Oxide Cathodes by Modulating Cation Arrangement
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### Advanced Materials Interfaces

38412	Chia-Ching Lin	5 (2018) 1800491	2017B4138	BL12B2	Chen Han-Yi	Mechanism of Sodium Ion Storage in Na <sub>2</sub> [H <sub>2</sub> PV <sub>14</sub> O <sub>42</sub> ] Anode for Sodium-Ion Batteries
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### Analytical Chemistry

38745	Jiadong Fan	87 (2015) 5849-5853	2014A1270	BL29XU	Jiang Huaidong	Quantitative Imaging of Single Unstained Magnetotactic Bacteria by Coherent X-ray Diffraction Microscopy
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### Applied Materials and Interfaces

38557	Hiroshi Senoh	11 (2019) 30959-30967	2016A7601	BL28XU	小久見 善八	Degradation Mechanism of Conversion-Type Iron Trifluoride: Toward Improvement of Cycle Performance
			2016B7607	BL28XU	松原 英一郎	
			2017A7607	BL28XU	松原 英一郎	
			2017B7607	BL28XU	松原 英一郎	
			2018A7607	BL28XU	松原 英一郎	
			2018B7607	BL28XU	松原 英一郎	

### Applied Physics Express

38721	Hiroshi Okuda	12 (2019) 105503	2016A1168	BL40XU	奥田 浩司	Small-Angle Scattering Tomography of Precipitation-Hardened Multilayer Al/Al-Zn/Al Model Alloys
			2016B1275	BL40XU	奥田 浩司	
			2017B1570	BL40XU	奥田 浩司	
			2016B1282	BL45XU	奥田 浩司	

### Applied Surface Science

38765	Tsai-Te Wang	488 (2019) 546	2016A4134	BL12B2	Lin Yan-Gu	Effective Hydrogenation of TiO <sub>2</sub> Photocatalysts with CH <sub>3</sub> OH for Enhanced Water Splitting: A Computational and X-ray Study
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### Atmosphere

38340	Minako Kurisu	10 (2019) 76	2018A0148	BL37XU	高橋 嘉夫	Testing Iron Stable Isotope Ratios as a Signature of Biomass Burning
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### Biochemical and Biophysical Research Communications

38615	Wan Hasnidah Wan Osman	510 (2019) 177-183	2018A2533	BL26B1	三上 文三	Structure of a Serine-Type Glutathione S-transferase of <i>Cerporiopsis sebecemisporea</i> and Identification of the Enzymatically Important Non-Canonical Residues by Functional Mutagenesis
			2018A2563	BL26B1	三上 文三	
			2017A2547	BL26B1	三上 文三	

### Biochimica et Biophysica Acta - Bioenergetics

38302	Tomoo Shiba	1860 (2019) 375-382	2017A6722	BL44XU	志波 智生	Insights into the Ubiquinol/Dioxygen Binding and Proton Relay Pathways of the Alternative Oxidase
			2017B6722	BL44XU	志波 智生	

### Biochimica et Biophysica Acta - General Subjects

38393	Naoya Shibayama	(2019) Available online 2 April 2019	2015B1211	BL40XU	柴山 修哉	Allosteric Transitions in Hemoglobin Revisited
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### Biochimica et Biophysica Acta - Proteins and Proteomics

38550	Hongxu Yang	1867 (2019) 140265	2018B2707	BL26B1	長尾 聡	Protein Surface Charge Effect on 3D Domain Swapping in Cells for c-type Cytochromes
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### Biomolecules

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
38554	Yumiko Saijo-Hamano	9 (2019) 260	2010B1013	BL41XU	山本 雅貴	Architecture of the Bacterial Flagellar Distal Rod and Hook of <i>Salmonella</i>
			2010B1901	BL41XU	今田 勝巳	

### Bioscience, Biotechnology, and Biochemistry

38556	Sayoko Oiki	83 (2019) 1946-1954	2017A2592	BL38B1	橋本 涉	Substrate Recognition by Bacterial Solute-Binding Protein is Responsible for Import of Extracellular Hyaluronan and Chondroitin Sulfate from the Animal Host
			2016A2574	BL38B1	橋本 涉	
			2018A2563	BL26B1	三上 文三	

### Carbon

38273	Naoka Nagamura	152 (2019) 680-687	2011B7402	BL07LSU	組頭 広志	Influence of Interface Dipole Layers on the Performance of Graphene Field Effect Transistors
			2012A7402	BL07LSU	堀場 弘司	
			2012B7402	BL07LSU	堀場 弘司	
			2012B7435	BL07LSU	吹留 博一	
			2014A7402	BL07LSU	尾嶋 正治	
			2014B7402	BL07LSU	尾嶋 正治	
			2015A7402	BL07LSU	尾嶋 正治	
			2015B7402	BL07LSU	尾嶋 正治	
			2015B7494	BL07LSU	吹留 博一	
			2017A7402	BL07LSU	尾嶋 正治	
2017B7402	BL07LSU	尾嶋 正治				
2018B7580	BL07LSU	永村 直佳				

### Chem

38419	Chengyi Hu	3 (2017) 122-133	2016A4129	BL12B2	Chen Hao-Ming	In Situ Electrochemical Production of Ultrathin Nickel Nanosheets for Hydrogen Evolution Electrocatalysis
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### ChemCatChem

38470	Kohsuke Mori	11 (2019) 1963-1969	2017A1057	BL01B1	森 浩亮	Ultra-Low Loading of Ru Clusters over Graphitic Carbon Nitride: A Drastic Enhancement in Photocatalytic Hydrogen Evolution Activity
			2017B1084	BL01B1	森 浩亮	
			2018A1144	BL01B1	森 浩亮	

### Chemical Science

38567	Satoshi Tominaka	10 (2019) 6604-6611	2016B3782	BL22XU	富中 悟史	Condensed Ferric Dimers for Green Photocatalytic Synthesis of Nylon Precursors
			2017A3751	BL22XU	町田 晃彦	
			2017A3783	BL22XU	富中 悟史	

### Chemistry Letters

38754	Naoto Kitamura	(2019) Online published Sep. 14, 2019	2016A1273	BL04B2	井手本 康	Local Structure in A-Site-Deficient Perovskite $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ and its Effect on Electrical Conduction Property
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### ChemNanoMat

38723	Zakary Lionet	(2019) Online publication 27 Aug. 2019	2016A1260	BL01B1	堀内 悠	Facile Post-Synthetic Modification of Amine-Functionalized Metal-Organic Frameworks to Integrate Visible-Light Responsive Pt Complexes for Hydrogen Evolution Reaction
			2017B1469	BL01B1	堀内 悠	

### Chemosphere

38341	Sang-Ho Lee	237 (2019) 124489	2018B1801	BL14B2	高橋 嘉夫	Carbothermal Preparation of Magnetic-Responsive Ferrihydrate Based on Fe-Rich Precipitates for Immobilization of Arsenate and Antimonate: Batch and Spectroscopic Studies
			2018A0148	BL01B1	高橋 嘉夫	
			2018A0148	BL37XU	高橋 嘉夫	

### ChemPhotoChem

38733	Mitsuo Shoji	2 (2019) 257-270	2012A1039	BL32XU	川上 恵典	Understanding Two Different Structures in the Dark Stable State of the Oxygen-Evolving Complex of Photosystem II: Applicability of the Jahn-Teller Deformation Formula
			2012B1532	BL41XU	川上 恵典	
			2013A1426	BL41XU	川上 恵典	
			2013B1279	BL41XU	川上 恵典	

### ChemPhysChem

38323	Alexei Belik	19 (2018) 2449-2452	2017B4502	BL15XU	辻本 吉廣	Intrinsic Triple Order in A-site Columnar-Ordered Quadruple Perovskites: Proof of Concept
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### ChemPlusChem

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
38241	Tomoya Nakamura	84 (2019) 1396-1404	2018B1617	BL46XU	脇岡 正幸	Phthalimide-Based Transparent Electron-Transport Materials with Oriented-Amorphous Structures: Preparation from Solution-Processed Precursor Films
			2018A1584	BL19B2	脇岡 正幸	

### Communications Biology

38295	Nai Chi Chen	2 (2019) 72	2015A6600	BL44XU	Chen Chun Jung	The Atomic Structures of Shrimp Nodaviruses Reveal New Dimeric Spike Structures and Particle Polymorphism
			2015A4000	BL12B2	Chen Chun Jung	
			2015B6600	BL44XU	Chen Chun Jung	
			2015B4004	BL12B2	Chen Chun Jung	
			2015B4010	BL12B2	Chen Chun Jung	
			2016A6600	BL44XU	Chen Chun Jung	
			2016A6659	BL44XU	Chen Chun Jung	
			2016A4012	BL12B2	Chen Chun Jung	
			2016B6600	BL44XU	Chen Chun Jung	
			2016B4000	BL12B2	Chen Chun Jung	
			2017A4000	BL12B2	Chen Chun Jung	
			2017A6600	BL44XU	Chen Chun Jung	
			2017B6769	BL44XU	Chen Chun Jung	
			2016A4007	BL12B2	Chen Chun Jung	
2016A4010	BL12B2	Chen Chun Jung				
2016A4003	BL12B2	Chen Chun Jung				

### Condensed Matter

38265	Kosuke Suzuki	4 (2019) 66	2018B1264	BL08W	鈴木 宏輔	High-Energy X-Ray Compton Scattering Imaging of 18650-Type Lithium-Ion Battery Cell
			2019A1721	BL08W	Barbiellini Bernardo	

### Crystals

38603	Kouichi Kifune	9 (2019) 447	2014A1367	BL02B2	木松 弘一	Boundaries of the X Phases in Sb-Te and Bi-Te Binary Alloy Systems
			2014B1404	BL02B2	木松 弘一	
			2016A1370	BL02B2	木松 弘一	
			2017A1272	BL02B2	木松 弘一	
			2013A1707	BL02B2	木松 弘一	
			2009A0084	BL02B2	久保田 佳基	
			2015A0074	BL02B2	森吉 千佳子	

### CrystEngComm

38222	Jaemyung Kim	21 (2019) 4036-4041	2018B4505	BL15XU	坂田 修身	Anisotropic Mosaicity and Lattice-Plane Twisting of an <i>m</i> -plane GaN Homoepitaxial Layer
			2018B1010	BL20B2	坂田 修身	

### e-Journal of Surface Science and Nanotechnology

38690	Kenichi Ozawa	17 (2019) 130-147	2012A7426	BL07LSU	小澤 健一	A Surface Science Approach to Unveiling the TiO <sub>2</sub> Photocatalytic Mechanism: Correlation between Photocatalytic Activity and Carrier Lifetime
			2012B7433	BL07LSU	小澤 健一	
			2013A7444	BL07LSU	小澤 健一	
			2014A7463	BL07LSU	小澤 健一	
			2015A7487	BL07LSU	小澤 健一	
			2016A7503	BL07LSU	小澤 健一	
			2017A7533	BL07LSU	小澤 健一	

### ECS Transactions

38450	Shigeaki Zaima	69 (2015) 89-98	2014A1721	BL47XU	財満 鎮明	Challenges of Energy Band Engineering with New Sn-Related Group IV Semiconductor Materials for Future Integrated Circuits
			2014B1358	BL47XU	財満 鎮明	

### Electrocatalysis

38358	Naoya Aoki	9 (2018) 125-138	2016A1769	BL14B2	折笠 有基	Enhancement of Oxygen Reduction Reaction Activity of Pd Core-Pt Shell Structured Catalyst on a Potential Cycling Accelerated Durability Test
			2016B1834	BL14B2	内本 喜晴	

### Electrochimica Acta

38768	Yan-Gu Lin	216 (2016) 287-194	2016A4134	BL12B2	Lin Yan-Gu	Hierarchical Fe <sub>2</sub> O <sub>3</sub> Nanotube/Nickel Foam Electrodes for Electrochemical Energy Storage
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eLife

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
38695	Kenta Yamamoto	8 (2019) e47701	2018B2703	BL41XU	阿部 一啓	A Single K <sup>+</sup> -binding Site in the Crystal Structure of the Gastric Proton Pump
			2017B2701	BL41XU	阿部 一啓	

Extended Abstract (Proceedings) of 2019 International Conference on Solid State Devices and Materials (SSDM)

38691	Akira Kiyoi	(2019) 741-742	2017B5130	BL16XU	清井 明	Synchrotron X-ray Photoelectron Spectroscopy on Interface State Densities of CVD-Grown SiO <sub>2</sub> /4H-SiC Structures Treated by Post-Deposition Treatments
			2018A5130	BL16XU	清井 明	
			2018B5130	BL16XU	今澤 貴史	

Food Science and Technology Research

38332	Keiichi Ihara	25 (2019) 391-397	2015B1896	BL19B2	井原 啓一	Influences of Beating Speed on Whipping and Physical Properties of Whipped Cream
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Geochimica et Cosmochimica Acta

38223	Teruhiko Kashiwabara	240 (2018) 274-292	2012A1589	BL01B1	菊池 早希子	Synchrotron X-ray Spectroscopic Perspective on the Formation Mechanism of REY-rich Muds in the Pacific Ocean
			2012A1240	BL37XU	高橋 嘉夫	
			2012B1564	BL37XU	高橋 嘉夫	
			2012A1767	BL14B2	柏原 輝彦	
			2012B1672	BL01B1	戸田 隆一	
			2015A0118	BL01B1	高橋 嘉夫	
			2017A1093	BL01B1	菊池 早希子	

Geological Magazine

38636	Jian Han	154 (2017) 1294-1305	2016A1698	BL47XU	小宮 剛	A <i>Cloudina</i> -like Fossil with Evidence of Asexual Reproduction from the Lowest Cambrian, South China
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Green Chemistry

38300	Makito Yamada	21 (2019) 4541-4549	2017A1793	BL14B2	秋山 敏毅	Ligand-free Suzuki-Miyaura Coupling Reaction of an Aryl Chloride using a Continuous Irradiation Type Microwave and a Palladium Nanoparticle Catalyst: Effect of a Co-Existing Solid
			2017B1931	BL14B2	秋山 敏毅	
			2017B1732	BL27SU	秋山 敏毅	
			2018A1793	BL14B2	秋山 敏毅	

Hyperfine Interactions

38462	Satoshi Tsutsui	240 (2019) 84	2005A0369	BL35XU	筒井 智嗣	Electronic and Atomic Dynamics in Sm and Eu Cage-Structures Intermetallics
			2005B0127	BL01B1	水牧 仁一朗	
			2006A1203	BL01B1	水牧 仁一朗	
			2006A1039	BL35XU	筒井 智嗣	
			2006B1053	BL35XU	筒井 智嗣	
			2007B1351	BL01B1	水牧 仁一朗	
			2008A1972	BL39XU	河村 直己	
			2014A1076	BL35XU	筒井 智嗣	
			2015B1947	BL09XU	筒井 智嗣	
			2016A1413	BL09XU	筒井 智嗣	
			2016B1057	BL09XU	筒井 智嗣	
			2016B1948	BL35XU	筒井 智嗣	
			2017A1060	BL09XU	筒井 智嗣	
			2017A1841	BL35XU	筒井 智嗣	
			2017B1275	BL09XU	筒井 智嗣	
			2018A1534	BL09XU	筒井 智嗣	
			2018A1762	BL35XU	筒井 智嗣	
2018B2039	BL09XU	依田 芳卓				

Inorganics

38362	Kohdai Ishida	7 (2019) 63	2017B1172	BL02B2	高津 浩	High-Pressure Synthesis of Non-Stoichiometric Li <sub>x</sub> WO <sub>3</sub> (0.5 ≤ x ≤ 1.0) with LiNbO <sub>3</sub> Structure
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International Journal of Cancer

38399	Ryo Koba	(2019) Online published 25 July 2019	2016A1624	BL37XU	木庭 遼	Quantitative Evaluation of the Intratumoral Distribution of Platinum in Oxaliplatin-Treated Rectal Cancer. <i>In situ</i> Visualization of Platinum via Synchrotron Radiation X-ray Fluorescence Spectrometry
			2015B1807	BL37XU	植木 隆	
			2017B1221	BL37XU	永吉 絹子	
			2018A1335	BL37XU	永吉 絹子	

**International Journal of Hydrogen Energy**

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
38555	Kazuhiro Ishikawa	44 (2019) 23101-23106	2015A3782	BL22XU	石川 和宏	Effects of Rolling and Annealing on Hydrogen Permeability and Crystal Orientation in Nb-TiNi Two-Phase Alloys
			2014B3782	BL22XU	石川 和宏	
			2017B3781	BL22XU	石川 和宏	

**International Journal of Molecular Sciences**

38755	Shino Homma-Takeda	20 (2019) 4677	2016B1806	BL37XU	武田 志乃	Phosphorus Localization and Its Involvement in the Formation of Concentrated Uranium in the Renal Proximal Tubules of Rats Exposed to Uranyl Acetate
			2013B1747	BL37XU	武田 志乃	
			2014A1720	BL37XU	武田 志乃	
			2014B1311	BL37XU	武田 志乃	
			2015B1430	BL37XU	武田 志乃	
			2016A1702	BL37XU	武田 志乃	
			2017A1725	BL37XU	武田 志乃	

**Journal of Applied Crystallography**

38480	Satomi Niwa	52 (2019) 864-868	2019A2560	BL41XU	竹田 一旗	Usefulness of Oils for Cleaning the Host Matrix and for Cryoprotection of Lipidic Cubic Phase Crystals
			2018B2706	BL41XU	竹田 一旗	

**Journal of Asian Ceramic Societies**

38304	Nobuhiro Kumada	7 (2019) 361-367	2015A1004	BL02B2	熊田 伸弘	Hydrothermal Synthesis of $\text{KTi}_2(\text{PO}_4)_3$ , $\alpha\text{-Ti}(\text{HPO}_4)_2 \cdot \text{H}_2\text{O}$ and $\gamma\text{-Ti}(\text{PO}_4)(\text{H}_2\text{PO}_4) \cdot 2\text{H}_2\text{O}$ from a Lepidocrocite-type Titanate
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**The Journal of Comparative Neurology**

38532	Rino Saiga	527 (2019) 2091-2100	2017B1120	BL20B2	水谷 隆太	Synchrotron Radiation Microtomography of Brain Hemisphere and Spinal Cord of a Mouse Model of Multiple Sclerosis Revealed a Correlation between Capillary Dilation and Clinical Score
			2018A1164	BL20XU	水谷 隆太	

**Journal of Electronic Materials**

38256	Satoshi Hiroi	47 (2018) 3113-3118	2017A4502	BL15XU	Chen Yanna	Analyzing the Boundary Thermal Resistance of Epitaxially Grown $\text{Fe}_2\text{VAl/W}$ Layers by Picosecond Time-Domain Thermoreflectance
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**Journal of Fiber Science and Technology**

38215	Tsunayuki Ishimori	75 (2019) 72-92	2014A1528	BL40XU	渡辺 大介	Structure and Its Extensional Properties of Straightened Hair Prepared by Heat Treatment with Glyoxylic Acid
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**Journal of Geophysical Research**

38398	Hidenori Terasaki	124 (2019) 2272-2293	2013B1488	BL20XU	寺崎 英紀	Pressure and Composition Effects on Sound Velocity and Density of Core-Forming Liquids: Implication to Core Compositions of Terrestrial Planets
			2014A1161	BL20XU	寺崎 英紀	
			2014A3787	BL22XU	寺崎 英紀	
			2014B1319	BL04B1	寺崎 英紀	
			2015A1330	BL04B1	寺崎 英紀	
			2015A3787	BL22XU	寺崎 英紀	
			2015B1555	BL04B1	寺崎 英紀	
			2015B3790	BL22XU	寺崎 英紀	
			2016A3787	BL22XU	寺崎 英紀	
			2016B1518	BL04B1	寺崎 英紀	
			2016B3781	BL22XU	寺崎 英紀	

**Journal of Hydrology**

38725	Yi Yang	571 (2019) 21-35	2016A1066	BL47XU	Yang Yi	Transient Increase in Reactive Surface and the Macroscopic Damköhler Number in Chalk Dissolution
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**Journal of Magnetism and Magnetic Materials**

38290	Yushi Kato	491 (2019) 165536	2018A5360	BL16B2	藤井 景子	Low Write Current and Strong Durability in High-Speed Spintronics Memory (Spin-Hall MRAM and VoCSM) through Development of a Shunt-Free Design Process and W Spin-Hall Electrode
			2018B5360	BL16B2	藤井 景子	
			2018B5060	BL16XU	藤井 景子	

### Journal of Materials Chemistry 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
38233	Tomoki Nishimura	(2019) Online publication 9 Jul. 2019	2018B1184	BL40B2	西村 智貴	Supramacromolecular Injectable Hydrogels by Crystallization-Driven Self-Assembly of Carbohydrate-Conjugated Poly(2-isopropylloxazoline)s for Biomedical Applications

### Journal of Mineralogical and Petrological Sciences

38275	Osamu Ikeda	114 (2019) 155-160	2018A1302	BL04B1	坂巻 竜也	Sound Velocity Measurements of $\epsilon$ -FeOOH up to 24 GPa
			2018B1180	BL04B1	坂巻 竜也	

### Journal of Molecular Biology

38628	Jun Hoe Kim	431 (2019) 3647-3661	2018B6867	BL44XU	Song HyunKyu	Structural and Mechanistic Insights into Caffeine Degradation by the Bacterial N-Demethylase Complex
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### Journal of Non-Crystalline Solids

38313	Masanori Inui	522 (2019) 119571	2010A1184	BL35XU	乾 雅祝	Structural Studies on Fluid Sulfur at High Temperatures and High Pressures: I. Atomic Dynamics Investigated by Inelastic X-ray Scattering
			2014B1143	BL35XU	乾 雅祝	

### The Journal of Physical Chemistry Letters

38217	Jianbo Zhang	9 (2018) 4182-4188	2012A4262	BL12XU	Wang Shibing	Evaluation of a Novel Ribbon Phase in Optimally Doped $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ at High Pressure and Its Implication to High- $T_c$ Superconductivity
			2013A4253	BL12XU	Wang Shibing	
			2016A4254	BL12XU	Ding Yang	
			2016B4267	BL12XU	Ding Yang	
			2017B4263	BL12XU	Ding Yang	

### Journal of Polymer Science Part A: Polymer Chemistry

38705	Sung-Yu Tsai	(2019) Online publication 16 Sep. 2019	2019A1173	BL40B2	平井 智康	Preparation of Polyhedral Oligomeric Silsesquioxane-Containing Block Copolymer with Well-Controlled Stereoregularity
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### Journal of Polymer Science Part B: Polymer Physics

38661	Momoka Watanabe	57 (2019) 952-960	2015B1539	BL40XU	高野 敦志	Preparation and Morphologies of $\text{AB}_6$ Block-Graft Copolymers
			2016A1078	BL40B2	高野 敦志	

### Journal of Solid State Electrochemistry

38559	Masahiro Seo	23 (2019) 2261-2275	2012A5320	BL16B2	稲葉 雅之	In situ X-ray Absorption Spectroscopy of Sn Species Adsorbed on Platinized Platinum Electrode in Perchloric Acid Solution Containing Stannous Ions
			2012B5320	BL16B2	稲葉 雅之	

### Journal of the Ceramic Society of Japan

38234	Ryoko Murakami	127 (2019) 414-420	2017A1466	BL02B2	和田 智志	Influence of Post-Annealing Treatment on Dielectric and Ferroelectric Properties of Dense $\text{BaTiO}_3$ Ceramics Prepared by Solvothermal Solidification Method
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### Journal of the European Ceramic Society

38718	Norimasa Nishiyama	39 (2019) 3627-3633	2015B1236	BL04B1	西山 宣正	Thermal Expansion and $P$ - $V$ - $T$ Equation of State of Cubic Silicon Nitride
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### Langmuir

38379	Shota Fujii	35 (2019) 3156-3161	2018A1454	BL40B2	櫻井 和朗	Discrete and Discontinuous Increase in the Micellar Aggregation Number: Effects of the Alkyl Chain Length on Platonic Micelles
			2018B1396	BL40B2	櫻井 和朗	
			2017B1351	BL40B2	櫻井 和朗	
			2017A1414	BL40B2	櫻井 和朗	

### Life Science Alliance

38418	Sakurako Goti-ito	2 (2019) e201900297	2017B1012	BL41XU	山本 雅貴	Structural Basis of Guanine Nucleotide Exchange for Rab11 by SH3BP5
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### Materials Chemistry and 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
38245	Daiju Matsumura	238 (2019) 121885	2013A3611	BL14B1	吉井 賢資	X-ray Absorption Spectroscopy and Magnetocaloric Study of $\text{Pr}_{1-x}\text{Si}_x\text{CoO}_3$ ( $0 \leq x \leq 0.5$ )
			2013B3609	BL14B1	松村 大樹	
			2014A3608	BL14B1	吉井 賢資	

### Materials Research Express

38336	Hiroshi Sakurai	6 (2019) 096114	2017B0921	BL08W	壬生 攻	Temperature Dependence of Spin/Orbital Magnetization Switching Behaviour at the Interface in CoFeB/MgO and CoFeB/Ta Multi-Layered Films
			2015B0901	BL08W	千葉 大地	

### Molecular Catalysis

38631	Tatsuhiko Fukutake	477 (2019) 110550	2015A1411	BL28B2	和田 健司	Development of Titania-Supported Iridium Catalysts with Excellent Low-Temperature Activities for the Synthesis of Benzimidazoles via Hydrogen Transfer
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### Nano Letters

38457	Takayoshi Yokoya	19 (2019) 5915-5919	2015A1144	BL25SU	横谷 尚睦	Asymmetric Phosphorus Incorporation in Homoepitaxial P-Doped (111) Diamond Revealed by Photoelectron Holography
			2016A1204	BL25SU	横谷 尚睦	
			2016B1352	BL25SU	横谷 尚睦	
			2017B1169	BL25SU	横谷 尚睦	
			2018A1161	BL25SU	横谷 尚睦	

### Nature Chemistry

38429	Jiqing Jiao	11 (2019) 222-228	2018A4130	BL12B2	Chen Hao-Ming	Copper Atom-Pair Catalyst Anchored on Alloy Nanowires for Selective and Efficient Electrochemical Reduction of $\text{CO}_2$
			2018A4125	BL12B2	Chen Hao-Ming	

### Nature Energy

38426	Hong Bin Yang	3 (2018) 140-147	2017B4136	BL12B2	Chen Hao-Ming	Atomically Dispersed Ni(I) as the Active Site for Electrochemical $\text{CO}_2$ Reduction
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### Nature Geoscience

38720	Takayuki Ishii	12 (2019) 869-872	2003A0087	BL04B1	桂 智男	Sharp 660-km Discontinuity Controlled by Extremely Narrow Binary Post-Spinel Transition
			2003B0638	BL04B1	桂 智男	
			2004A0368	BL04B1	桂 智男	
			2004B0497	BL04B1	桂 智男	
			2015A1359	BL04B1	桂 智男	
			2015B1196	BL04B1	桂 智男	
			2016A1274	BL04B1	桂 智男	
			2016A1434	BL04B1	劉 兆東	
			2016B1094	BL04B1	劉 兆東	
			2017A1150	BL04B1	桂 智男	
			2018A1071	BL04B1	桂 智男	
			2018B1218	BL04B1	桂 智男	

### Nature Photonics

38693	Yasuhiro Kondo	13 (2019) 678-682	2016A1052	BL40XU	畠山 琢次	Narrowband Deep-Blue Organic Light-Emitting Diode Featuring an Organoboron-Based Emitter
			2016B1059	BL40XU	畠山 琢次	
			2017A1132	BL40XU	畠山 琢次	
			2017B1073	BL40XU	畠山 琢次	
			2018A1114	BL40XU	畠山 琢次	

### Nature Plants

38447	Keisuke Fujiyama	5 (2019) 589-594	2017A2594	BL41XU	永野 真吾	Structural Insights into a Key Step of Brassinosteroid Biosynthesis and its Inhibition
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### New Journal of Chemistry

38621	Masanao Ishijima	42 (2018) 13044-13053	2016B1865	BL14B2	Balachandran Jeyadevan	<i>In situ</i> Spectroscopic Studies of the One-Pot Synthesis of Composition-Controlled Cu-Ni Nanowires with Enhanced Catalytic Activity
			2017A1575	BL14B2	Balachandran Jeyadevan	

### Optics Express

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
38740	Jianhua Zhang	26 (2018) 30128-30145	2014A1270	BL29XU	Jiang Huaidong	Enhancement of Phase Retrieval Capability in Ptychography by Using Strongly Scattering Property of the Probe-Generating Device

### Organic Electronics

38231	Toshiaki Tanimura	74 (2019) 251-257	2014A1634	BL43IR	有馬 駿介	Accumulated Charge Measurement using a Substrate with a Restricted-Bottom-Electrode Structure
			2014B1743	BL43IR	宮尾 文啓	
			2015A1812	BL43IR	宮尾 文啓	
			2015B1728	BL43IR	宮尾 文啓	

### Organometallics

38657	Yuko Ikeda	38 (2019) 2363-2380	2009A1929	BL14B2	池田 裕子	Roles of Dinuclear Bridging Bidentate Zinc/Stearate Complexes in Sulfur Cross-Linking of Isoprene Rubber
			2009B2044	BL14B2	池田 裕子	
			2010A1778	BL14B2	池田 裕子	
			2010B1928	BL14B2	池田 裕子	
			2012A1419	BL14B2	池田 裕子	
			2012B1891	BL14B2	池田 裕子	
			2013A1828	BL14B2	池田 裕子	
			2013B1840	BL14B2	池田 裕子	
			2014A1574	BL14B2	池田 裕子	
2017A1611	BL14B2	池田 裕子				

### Palaeogeography, Palaeoclimatology, Palaeoecology

38634	Xiaoguang Yang	476 (2017) 147-157	2016A1698	BL47XU	小宮 剛	Euendoliths Versus Ambient Inclusion Trails from Early Cambrian Kuanchuanpu Formation, South China
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### Palaeontology

38635	Xing Wang	60 (2017) 853-867	2016A1698	BL47XU	小宮 剛	Anatomy and Affinities of a New 535-Million-Year-Old Medusozoan from the Kuanchuanpu Formation, South China
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### Particle & Particle Systems Characterization

38425	Ching-wei Tung	35 (2018) 1700321	2017B4128	BL12B2	Chen Hao-Ming	Tunable Electrodeposition of Ni Electrocatalysis onto Si Microwires Array for Photoelectrochemical Water Oxidation
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### Physica Status Solidi A

38225	Koichi Kajihara	216 (2019) 1800475	2016A0130	BL04B2	小原 真司	Structure, Microscopic Ordering, and Viscous Properties of Amorphous Poly( <i>n</i> -alkylsilsesquioxane) Liquids and Solids Synthesized by Cosolvent-Free Hydrolytic Polycondensation of <i>n</i> -Alkyltrimethoxysilanes
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### Physical Review Letters

38699	Toshiyuki Nishiyama	123 (2019) 123201	2016A8057	BL3	上田 潔	Ultrafast Structural Dynamics of Nanoparticles in Intense Laser Fields
			2016B8077	BL3	上田 潔	

### Physical Review Materials

38375	Yui Ishii	3 (2019) 084414	2017B1460	BL02B1	石井 悠衣	Glassy Anomalies in the Lattice Heat Capacity of a Crystalline Solid Caused by Ferroelectric Fluctuation
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### Physical Review Research

38335	Makina Saito	1 (2019) 012008(R)	2015A1224	BL09XU	瀬戸 誠	Direct Observation of Interlayer Molecular Translational Motion in a Smectic Phase and Determination of the Layer Order Parameter
			2017A1096	BL09XU	瀬戸 誠	
			2017A0134	BL04B2	小原 真司	

### PLoS One

38726	Yi Yang	13 (2018) e0204165	2016A1066	BL47XU	Yang Yi	Patterns of Entropy Production in Dissolving Natural Porous Media with Flowing Fluid
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### Polymers

38566	Kohji Tashiro	11 (2019) 1316	2015B1210	BL40B2	山元 博子	Structural Evolution Mechanism of Crystalline Polymers in the Isothermal Melt-Crystallization Process: A Proposition Based on Simultaneous WAXD/SAXS/FTIR Measurements
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### Proceedings of SPIE

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
38722	Kaye Morgan	11113 (2019) 111130G	2014A1376	BL20XU	Donnelley Martin	In vivo X-ray Imaging of the Respiratory System using Synchrotron Sources and a Compact Light Source
			2014A1404	BL20XU	Morgan Kaye	
			2014B1217	BL20XU	Donnelley Martin	
			2014B1414	BL20XU	Morgan Kaye	
			2015A1325	BL20XU	Donnelley Martin	
			2015B1109	BL20XU	Donnelley Martin	
			2015B1515	BL20XU	Morgan Kaye	
			2016A1472	BL20XU	Donnelley Martin	
			2016A1374	BL20XU	Morgan Kaye	
			2016B1345	BL20XU	Donnelley Martin	
			2016B1502	BL20XU	Morgan Kaye	
			2017A1301	BL20XU	Donnelley Martin	
2017B1386	BL20XU	Donnelley Martin				
2018A1511	BL20XU	Donnelley Martin				

### Protein Science

38616	Taro Masuda	27 (2018) 1955-1960	2015A1063	BL26B1	三上 文三	The First Crystal Structure of Crustacean Ferritin That is a Hybrid Type of H and L Ferritin
			2015A1062	BL38B1	小手石 泰康	
			2015A6539	BL44XU	三上 文三	

### Radiation Physics and Chemistry

38756	Shino Takeda	(2019) Available online 2 Feb. 2019	2017B1764	BL37XU	武田 志乃	Two-Dimensional $\mu$ XAFS Analysis for Accumulated Uranium in Kidneys of Rats Exposed to Uranyl Acetate
			2018A1713	BL37XU	武田 志乃	

### Review of Scientific Instruments

38694	Okkyun Seo	90 (2019) 093001	2018A4505	BL15XU	坂田 修身	Time-Resolved X-ray Diffraction System for Study of Pb(Zr, Ti)O <sub>3</sub> Films under a Temporal Electric Field at BL15XU, SPring-8
			2018B4506	BL15XU	坂田 修身	
			2019A4503	BL15XU	坂田 修身	

### Science Advances

38221	Masaki Takahashi	3 (2017) e1700101	2014B1406	BL01B1	今岡 享稔	Finely Controlled Multimetallic Nanocluster Catalysts for Solvent-Free Aerobic Oxidation of Hydrocarbons
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### Sensors and Materials

38284	Hirokazu Fukidome	31 (2019) 2303-2311	2014B7472	BL07LSU	吹留 博一	Modulation of Electronic States Near Electrodes in Graphene Transistors Observed by Operando Photoelectron Nanospectroscopy
			2017B7545	BL07LSU	吹留 博一	

### Small

38620	Tokio Kobayashi	(2019) Online publication 4 Sep. 2019	2018B1811	BL19B2	藪内 直明	Nanosize Cation-Disordered Rocksalt Oxides: Na <sub>2</sub> TiO <sub>3</sub> -NaMnO <sub>2</sub> Binary System
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### SN Applied Sciences

38622	Kaneyuki Taniguchi	1 (2019) 124	2017B1623	BL14B2	Balachandran Jeyadevan	Designed Synthesis of Highly Catalytic Ni-Pt Nanoparticles for Fuel Cell Applications
			2018A1549	BL14B2	Balachandran Jeyadevan	

### Soil and Tillage Research

38216	Miwa Arai	191 (2019) 275-281	2015B1168	BL20XU	和穎 朗太	An Improved Method to Identify Osmium-Stained Organic Matter within Soil Aggregate Structure by Electron Microscopy and Synchrotron X-ray Micro-Computed Tomography
			2014A1239	BL20B2	諸野 祐樹	
			2014B1367	BL20XU	諸野 祐樹	
			2015B1218	BL47XU	諸野 祐樹	

### Solid State Ionics

38479	Naoki Hamao	253 (2013) 123-129	2011A1853	BL19B2	井手本 康	Protonic Conduction, Crystal and Electronic Structures of La <sub>0.9</sub> Ba <sub>0.1</sub> Ga <sub>0.95</sub> Mg <sub>0.05</sub> O <sub>4-d</sub>
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### Structural Dynamics

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
38701	Tetsuo Katayama	6 (2019) 054302	2018B8062	BL3	片山 哲夫	A Versatile Experimental System for Tracking Ultrafast Chemical Reactions with X-ray Free-Electron Lasers

### Sustainable Energy & Fuels

38766	Hung-Chun Chiu	2 (2018) 271	2016A4134	BL12B2	Lin Yan-Gu	Calcium Containing Iron Oxide as an Efficient and Robust Catalyst in (Photo-)electrocatalytic Water Oxidation at Neutral pH
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### Synchrotron Light Sources and Free-Electron Lasers

38682	Alfred Baron	(2019) 1-82	2014A1236	BL08W	Baron Alfred	High-Resolution Inelastic X-Ray Scattering I: Context, Spectrometers, Samples, and Superconductors
			2014A1884	BL35XU	内山 裕士	

### Thermochimica Acta

38246	Yasuo Saruyama	677 (2019) 26-31	2013B1219	BL40B2	猿山 靖夫	Temperature Modulated X-ray Diffractometry Applied to a Study on the Higher Order Structure of Semi-Crystalline Polyethylene
			2014A1400	BL40B2	猿山 靖夫	
			2014B1361	BL40B2	猿山 靖夫	

### Water Resources Research

38212	Yi Yang	55 (2019) 4801-4819	2017A1171	BL47XU	Bruns Stefan	Effect of Cumulative Surface on Pore Development in Chalk
			2015A1147	BL20XU	Yang Yi	

### X-ray Structure Analysis Online

38647	Yoshiki Ozawa	35 (2019) 51-53	2011B1246	BL40XU	小澤 芳樹	Crystal Structure of Hexakis(quinoline-2-thiolato)silver(I)
			2011B1181	BL40XU	安田 伸広	
			2011B1180	BL02B1	安田 伸広	

### 高知大学理工学部紀要 (Scientific and Educational Reports of the Faculty of Science and Technology, Kochi University)

38262	Yumeto Otsuka	2 (2019) 1-3	2016A6623	BL44XU	杉山 成	Crystallization and Preliminary Crystallographic Studies of Arginine Kinase from the Ciliate <i>Paramecium tetraurelia</i>
			2016B6623	BL44XU	杉山 成	
			2017A2516	BL26B1	杉山 成	
			2018B6824	BL44XU	杉山 成	
			2018A2509	BL41XU	杉山 成	
			2018A2509	BL38B1	杉山 成	

### 成形加工 (Journal of the Japan Society of Polymer Processing)

38310	Takeshi Kakara	29 (2017) 159-161	2015B1622	BL19B2	若林 みどり	X線回折法による半導体パッケージ用封止樹脂/銅界面の残留応力評価
			2015B1899	BL19B2	若林 みどり	

### 鉄と鋼 (Tetsu to Hagane)

38206	Sho Katsura	105 (2019) 709-715	2017A1549	BL20XU	桂 翔生	<i>In Situ</i> Observations of Nucleation and Growth Behavior on Fe <sub>2</sub> Al <sub>5</sub> Intermetallic Compound Formed in Molten Zinc Bath
			2016B1595	BL20XU	桂 翔生	

### 銅と銅合金 (Journal of Japan Institute of Copper)

38404	Tomotaka Miyazawa	58 (2019) 103-108	2013A1262	BL19B2	宮澤 知孝	Size and Morphology Analysis of Precipitates Dispersed in Cu Alloys by Small Angle X-ray Scattering
			2013B1829	BL46XU	宮澤 知孝	
			2014B1573	BL19B2	宮澤 知孝	
			2014B1880	BL19B2	宮澤 知孝	
			2014B1889	BL19B2	宮澤 知孝	
			2015B1877	BL19B2	宮澤 知孝	
			2013A1821	BL46XU	小金澤 智之	
			2013B1821	BL19B2	森 勉	
			2016B1891	BL19B2	宇尾 直也	

### 日本金属学会誌 (The Journal of the Japan Institute of Metals and Materials)

38748	Nobuhito Takamasu	83 (2019) 157-165	2016A1674	BL46XU	小ヶ倉 勇樹	Evaluation of Elastic Deformation Behavior of ARB Processed Ultrane Grained Ni Polycrystalline Material by X-ray Diffraction
			2014A1696	BL46XU	大久保 智	

### 日本セラミックス協会学術論文誌 (Journal of the Ceramic Society of Japan)

38226	Kohei Fukumi	126 (2018) 992-996	2012A1618	BL04B2	北村 直之	Coordination Structure of Bi Atoms in Li <sub>2</sub> O-Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> Glasses by X-ray Diffraction
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**表面と真空 (Vacuum and Surface Science)**

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
38314	Ryosuke Matsubara	62 (2019) 498-503	2014A1593	BL46XU	松原 亮介	Analysis of Initial Stage in Thin Film Growth of Organic Semiconductor Using Quartz Crystal Microbalance
			2016B1883	BL46XU	松原 亮介	

**分析化学 (Bunseki Kagaku)**

38724	Yohei Yamada	68 (2019) 639-646	2015B1034	BL38B1	山田 洋平	Utilization of Track-Etched Membrane Filter for a Crystallization Field and Single-Crystal X-ray Diffraction Analysis of Proteins
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**博士論文 (Ecole Polytechnique Federale de Lausanne)**

38606	Sara Fatale	(2017)	2014A7469	BL07LSU	Griani Marco	Lattice, Spin and Orbital Excitations in Selected Transition Metal Oxides a Resonant Inelastic X-ray Scattering Investigation
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**博士論文 (愛媛大学)**

38599	Sho Kakizawa	(2019)	2014B1746	BL04B1	柿澤 翔	Water in the Earth's Lower Mantle: Chemical, Physical, and Mineralogical Properties of Hydrous Bridgmanite
			2015B1683	BL04B1	柿澤 翔	
			2016B1691	BL04B1	柿澤 翔	
			2017B1687	BL04B1	柿澤 翔	

**博士論文 (大阪大学)**

38660	Niti Ngamsomprasert	(2017)	2016A1465	BL02B1	焼山 佑美	Synthesis of Hydroxysumanene and its Derivatives
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**博士論文 (東京大学)**

38763	Tomoya Irimatsugawa	(2018)	2014A1668	BL08W	畠山 修一	Study on Gamma-ray Transition Edge Sensor Array Based on Microwave SQUID Multiplexer
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**博士論文 (名古屋大学)**

38760	Takumi Isogai	(2019)	2016B1524	BL40B2	田川 美穂	Two-dimensional Crystallization and Structural Control of DNA-functionalized Nanoparticles using Lipid Molecules as Carriers
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**博士論文 (奈良先端科学技術大学院大学)**

38389	Yusuke Hashimoto	(2018)	2017B1716	BL39XU	橋本 由介	The Photoelectron Diffraction and Holography Study of Spinel-type Iron Oxides
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**博士論文 (北海道大学)**

38286	Hayato Takahashi	(2019)	2012B1281	BL02B2	陰山 洋	Study on the Microscopic Alteration of Cementitious Materials Subjected to High Temperature and Water Action using Non-Destructive Integrated CT-XRD Method
			2013B1511	BL28B2	杉山 隆文	
			2014A1559	BL28B2	杉山 隆文	
			2014A1782	BL46XU	梶原 堅太郎	
			2014B1010	BL28B2	杉山 隆文	
			2015A1002	BL28B2	杉山 隆文	
			2015A1682	BL46XU	梶原 堅太郎	
			2015B1608	BL28B2	梶原 堅太郎	
			2015B1569	BL28B2	杉山 隆文	
			2016A1133	BL28B2	梶原 堅太郎	
			2016A1532	BL28B2	杉山 隆文	
			2016B1256	BL28B2	梶原 堅太郎	
			2017A1009	BL28B2	杉山 隆文	
			2017A1552	BL28B2	梶原 堅太郎	
			2018A1783	BL46XU	人見 尚	
			2017B1021	BL28B2	杉山 隆文	
			2017B1627	BL28B2	人見 尚	
			2018A1691	BL28B2	高橋 駿人	
2018B1017	BL28B2	杉山 隆文				
2018B1602	BL28B2	人見 尚				
2018A1565	BL28B2	人見 尚				

**博士論文 (山形大学)**

38441	Satoshi Miyane	(2019)	2018B1807	BL46XU	宮根 聡	Development of Stretchable Semiconducting Polymer with All- $\pi$ -conjugated Backbone
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課題以外の成果として登録された論文

Journal of Synchrotron Radiation

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
38253	Sho Ito	26 (2019) 1361-1366	装置&技術	BL26B2	DeepCentering: Fully Automated Crystal Centering using Deep Learning for Macromolecular Crystallography
38292	Koudai Toyota	26 (2019) 1017-1030	XFEL		<i>xcalib</i> : A Focal Spot Calibrator for Intense X-ray Free-Electron Laser Pulses Based on the Charge State Distributions of Light Atoms
38700	Taito Osaka	26 (2019) 1496-1502	装置&技術	BL3	A Micro Channel-Cut Crystal X-ray Monochromator for a Self-Seeded Hard X-ray Free-Electron Laser
			理研	BL29XU	
38702	Hiroto Motoyama	6 (2019) 1406-1411	装置&技術	BL1	Intense Sub-Micrometre Focusing of Soft X-ray Free-Electron Laser beyond $10^{16}$ W cm <sup>-2</sup> with an Ellipsoidal Mirror

Electrochimica Acta

38382	He-Xin Lai	273 (2018) 115-126		BL12B2	All Binder-Free Electrophoresis Deposition Synthesis of Nickel Cobalt Hydroxide/Ultraphene and Activated Carbon Electrodes for Asymmetric Supercapacitors
38383	Hsin-Yen Sun	281 (2018) 692-699		BL12B2	Nickel Precursor-Free Synthesis of Nickel Cobalt-Based Ternary Metal Oxides for Asymmetric Supercapacitors
38384	Jia-Wen Cheng	283 (2018) 1245-1252		BL12B2	Rational Design of Nickel Cobalt Sulfide/Cobalt Sulfide Sheet-on-Sheet Structure for Asymmetric Supercapacitors

ACS Applied Energy Materials

38392	Ying-Yi Huang	1 (2018) 2979-2990		BL12B2	Synthesis of Ternary Metal Oxides for Battery-Supercapacitor Hybrid Devices: Influences of Metal Species on Redox Reaction and Electrical Conductivity
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ACS Applied Nano Materials

38482	Matikde Saura-Múzquiz	1 (2018) 6938-6949	理研	BL44B2	Nanoengineered High-Performance Hexaferrite Magnets by Morphology-Induced Alignment of Tailored Nanoplatelets
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Cell Chemical Biology

38249	Tatsuo Yanagisawa	26 (2019) 936-949	理研	BL26B2	Structural Basis for Genetic-Code Expansion with Bulky Lysine Derivatives by an Engineered Pyrrolysyl-tRNA Synthetase
			理研	BL32XU	
				BL41XU	

Environmental Pollution

38388	Liang-Ching Hsu	247 (2019) 180-187		BL12B2	Adsorption Mechanisms of Chromate and Phosphate on Hydrotalcite: A Combination of Macroscopic and Spectroscopic Studies
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IEEE Xplore, 2018 16th International Conference on Megagauss Magnetic Field Generation and Related Topics

38296	Yuya Kubota	(2019) 68-71	XFEL	BL1	Evaluation of Pulse Duration of the Soft X-ray Free Electron Laser at SACLA BL1 with Single-Shot Spectrometry
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Journal of Physics: Condensed Matter

38390	Ashish Chhaganlal Gandhi	29 (2017) 215802		BL12B2	Magnetic Resonance Study of Exchange-Biased Ni/NiO Nanoparticles
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Materials Research Express

38391	Ashish Chhaganlal Gandhi	3 (2016) 035017		BL12B2	Size Confined Magnetic Phase in NiO Nanoparticles
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Physical Chemistry Chemical Physics

38696	Akihiro Koide	(2019) Online published 2 Apr. 2019		BL3	Photoinduced Anisotropic Distortion as the Electron Trapping Site of Tungsten Trioxide by Ultrafast W L <sub>1</sub> -edge X-ray Absorption Spectroscopy with Full Potential Multiple Scattering Calculations
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