

## 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、平成 28 年 4 月～6 月に登録されたものを以下に紹介します。論文の情報 (主著者、巻、発行年、ページ、タイトル) に加え、データベースの登録番号 (研究成果番号) を掲載していますので、詳細は上記検索ページの検索結果画面でご覧いただくことができます。また実施された課題の情報 (課題番号、ビームライン、実験責任者名) も掲載しています。課題番号は最初の 4 文字が「year」、次の 1 文字が「term」、後ろの 4 文字が「proposal no.」となっていますので、この情報から以下の URL で公表している、各課題の英文利用報告書 (SPring-8 User Experiment Report) を探してご覧いただくことができます。

[http://www.spring8.or.jp/ja/news\\_publications/publications/user\\_exp\\_report/](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、実験責任者のかたには、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 2016 年 4 月～6 月に登録された論文が掲載された主な雑誌と掲載論文数

| 掲載雑誌                                | 登録論文数 | 掲載雑誌  | 登録論文数 |
|-------------------------------------|-------|---|-------|
| Physical Review B                   | 16    | Journal of Physics B: Atomic, Molecular and Optical Physics | 7     |
| Scientific Reports                  | 16    | PLoS One  | 7     |
| Chemical Communications             | 9     | Acta Crystallographica Section F                            | 6     |
| The Journal of Biological Chemistry | 9     | Journal of the American Chemical Society                    | 6     |
| Japanese Journal of Applied Physics | 8     | Journal of the Physical Society of Japan                    | 6     |
| Journal of Molecular Biology        | 8     | Polymer   | 6     |

他全 206 誌、計 426 報

課題の成果として登録された論文

Physical Review B

| 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  |
|--------|--------------------|---------------------|---|--|---|---|
| 30884  | Kirill Mitrofanov  | 90 (2014) 134101    | 2013B1271   | BL01B1   | Kolobov Alexander                         | Local Structure of the SnTe Topological Crystalline Insulator: Rhombohedral Distortions Emerging from the Rocksalt Phase                              |
| 30898  | R. Murata          | 92 (2015) 220408(R) | 2014B1146   | BL02B2   | 勝藤 拓郎                                     | Electronic Phase Transition in Hollandite Titanate $Ba_xTi_8O_{16+x}$   |
| 31087  | Susumu Shimomura   | 93 (2016) 165108    | 2005B0300<br>2006A1255  | BL46XU<br>BL46XU                               | 下村 晋<br>下村 晋                              | Multiple Charge Density Wave Transitions in the Antiferromagnets $RNiC_2$ ( $R=Gd, Tb$ )  |
| 31103  | Hitoshi Yamaoka    | 92 (2015) 235100    | 2013B4128<br>2013B4258<br>2014A4256                           | BL12B2<br>BL12XU<br>BL12XU                     | 山岡 人志<br>山岡 人志<br>山岡 人志                   | Pressure and Temperature Dependence of the Ce Valence and $c-f$ Hybridization Gap in $CeTIn_5$ ( $T = Co, Rh, Ir$ ) Heavy-Fermion Superconductors     |
| 31131  | Eva Anton          | 93 (2016) 064431    | 2014B1310   | BL39XU   | Trodahl Joe                               | NdN: An Intrinsic Ferromagnetic Semiconductor   |
| 31142  | Yui Ishii          | 93 (2016) 134108    | 2014A1323<br>2015A1507<br>2014A0078<br>2014B0078              | BL02B1<br>BL02B1<br>BL02B1<br>BL02B1           | 森 茂生<br>森 茂生<br>Iversen Bo<br>Iversen Bo  | Two Competing Soft Modes and an Unusual Phase Transition in the Stuffed Tridymite-type Oxide $BaAl_2O_4$  |
| 31184  | Takahiro Morimoto  | 93 (2016) 195409    | 2013A1258<br>2012B1341<br>2014B1173<br>2015B1549              | BL43IR<br>BL43IR<br>BL43IR<br>BL43IR           | 市田 正夫<br>市田 正夫<br>市田 正夫<br>市田 正夫          | Temperature Dependence of Plasmon Resonance in Single-Walled Carbon Nanotubes   |
| 31205  | Maki Hamada        | 93 (2016) 155165    | 2013A3513<br>2013B3517<br>2013B0104<br>2014A3516<br>2015A3501 | BL11XU<br>BL11XU<br>BL10XU<br>BL11XU<br>BL11XU | 大谷 栄治<br>大谷 栄治<br>大谷 栄治<br>大谷 栄治<br>三井 隆也 | Magnetic and Spin Transitions in Wüstite: A Synchrotron Mössbauer Spectroscopic Study   |
| 31228  | WenBin Wu          | 88 (2013) 205129    | 2008B4256   | BL12XU   | Huang Di-Jing                             | Effective Orbital Symmetry of CuO: Examination by Nonresonant Inelastic X-ray Scattering  |
| 31230  | Manabu Takahashi   | 92 (2015) 094441    | 2011B4250<br>2012A4253<br>2012A4254                           | BL12XU<br>BL12XU<br>BL12XU                     | 平岡 望<br>平岡 望<br>平岡 望                      | Theory of Magnetic Circular Dichroism of Nonresonant X-ray Raman Scattering   |
| 31405  | Kohei Yoshimatsu   | 93 (2016) 195159    | 2014B4701   | BL15XU   | 吉松 公平                                     | Strain-Induced Metal-Insulator Transition in $t_{2g}$ Electron System of Perovskite Titanate $Sm_{0.5}Ca_{0.5}TiO_3$ Films                            |
| 31406  | Yusuke Wakabayashi | 93 (2016) 245117    | 2013A1240<br>2014A3783  | BL35XU<br>BL22XU                               | 若林 裕助<br>若林 裕助                            | Chemical and Orbital Fluctuations in $Ba_3CuSb_2O_9$  |
| 31490  | Lu Zheng           | 93 (2016) 104508    | 2014A1102   | BL02B2   | 久保園 芳博                                    | Correlation of Superconductivity with Crystal Structure in $(NH_4)_yCs_xFeSe$   |
| 31615  | Slavomir Nemsak    | 93 (2016) 245103    | 2011A4606   | BL15XU   | 小林 啓介                                     | Energetic, Spatial, and Momentum Character of the Electric Structure at a Buried Interface: The Two-Dimensional Electron Gas between Two Metal Oxides |

Scientific Reports-1

|           |                 |                |           |        |       |  |
|-----------|-----------------|----------------|-----------|--------|-------|--|
| 30810     | Atsushi Shimada | 6 (2016) 19565 | 2013A6820 | BL44XU | 神田 大輔 | Structural Basis for the Recognition of Two Consecutive Mutually Interacting DPF Motifs by the SGIP1 $\mu$ Homology Domain |
|           |                 |                | 2013B6820 | BL44XU | 神田 大輔 |  |
|           |                 |                | 2014A6922 | BL44XU | 神田 大輔 |  |
|           |                 |                | 2014B6922 | BL44XU | 神田 大輔 |  |
|           |                 |                | 2015A6519 | BL44XU | 神田 大輔 |  |
| 30814     | Taro Tamada     | 5 (2015) 17936 | 2005B1770 | BL41XU | 黒木 良太 | TRAIL-R2 Superoligomerization Induced by Human Monoclonal Agonistic Antibody KMTR2   |
|           |                 |                | 2009A1553 | BL41XU | 玉田 太郎 |  |
| 30930     | Tetsuya Masuda  | 6 (2016) 20255 | 2010B1064 | BL26B1 | 梶田 哲哉 | A Hypersweet Protein: Removal of The Specific Negative Charge at Asp21 Enhances Thaumatin Sweetness                        |
|           |                 |                | 2011B1073 | BL26B1 | 梶田 哲哉 |  |
|           |                 |                | 2012A1048 | BL26B1 | 梶田 哲哉 |  |
|           |                 |                | 2012B1067 | BL26B1 | 梶田 哲哉 |  |
|           |                 |                | 2013A1053 | BL26B1 | 梶田 哲哉 |  |
|           |                 |                | 2013B1069 | BL26B1 | 梶田 哲哉 |  |
|           |                 |                | 2014A1063 | BL26B1 | 梶田 哲哉 |  |
|           |                 |                | 2014B1181 | BL26B1 | 梶田 哲哉 |  |
|           |                 |                | 2014B1339 | BL26B1 | 梶田 哲哉 |  |
| 2014B2020 | BL26B2          | 梶田 哲哉          |           |        |       |  |

Scientific Reports-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   |
|--------|---------------------|----------------|-----------|--------|-----------------|--|
| 31096  | Vincenzo Stagno     | 4 (2014) 5869  | 2013A1517 | BL04B1 | Stagno Vincenzo | Icosahedral AlCuFe Quasicrystal at High Pressure and Temperature and its Implications for the Stability of Icosahedrite                |
| 31118  | Mariko Yokogawa     | 6 (2016) 22324 | 2009A1012 | BL41XU | 山本 雅貴           | Structural Basis for the Regulation of Enzymatic Activity of Regnase-1 by Domain-Domain Interactions                                   |
| 31141  | Yuki Wakabayashi    | 6 (2016) 23295 | 2014A3881 | BL23SU | 藤森 淳            | Room-Temperature Local Ferromagnetism and its Nanoscale Expansion in the Ferromagnetic Semiconductor Ge <sub>1-x</sub> Fe <sub>x</sub> |
| 31192  | Yan-Zong Zheng      | 6 (2016) 25580 | 2014B4272 | BL12XU | Chang Shih Lin  | Depth Profiles of the Interfacial Strains of Si <sub>0.7</sub> Ge <sub>0.3</sub> /Si using Three-Beam Bragg-Surface Diffraction        |
| 31213  | Shigeyuki Matsumoto | 6 (2016) 25931 | 2014B1390 | BL38B1 | 熊坂 崇            | Molecular Mechanism for Conformational Dynamics of Ras•GTP Elucidated from In-Situ Structural Transition in Crystal                    |
|        |                     |                | 2012A1834 | BL38B1 | 馬場 清喜           |  |
|        |                     |                | 2012B1910 | BL38B1 | 馬場 清喜           |  |
| 31287  | Jon D. Wright       | 5 (2015) 11581 | 2014B6600 | BL44XU | Chen Chun Jung  | Structural and Physical Basis for Anti-IgE Therapy   |
|        |                     |                | 2014A6600 | BL44XU | Chen Chun Jung  |  |
| 31294  | Kosuke Igawa        | 6 (2016) 26002 | 2014B1022 | BL19B2 | 今野 巧            | Crystalline-Amorphous-Crystalline Transformation in a Highly Brilliant Luminescent System with Trigonal-Planar Gold(I) Centers         |
| 31300  | Hiroshi Fukui       | 6 (2016) 26641 | 2011B4251 | BL12XU | 福井 宏之           | Suppression of X-ray-induced Dissociation of H <sub>2</sub> O Molecules in Dense Ice under Pressure                                    |
|        |                     |                | 2012A4255 | BL12XU | 福井 宏之           |  |
|        |                     |                | 2013A4263 | BL12XU | 福井 宏之           |  |
|        |                     |                | 2014A4262 | BL12XU | 福井 宏之           |  |
|        |                     |                | 2013B1172 | BL10XU | 赤浜 裕一           |  |
| 31313  | Ayumi Ishii         | 5 (2015) 11714 | 2015A1862 | BL02B2 | 石井 あゆみ          | An Interfacial Europium Complex on SiO <sub>2</sub> Nanoparticles: Reduction-Induced Blue Emission System                              |
|        |                     |                | 2014B1316 | BL02B2 | 長谷川 美貴          |  |
| 31347  | Michihiro Sugahara  | 6 (2016) 24484 | 2014A8032 | BL3    | 岩田 想            | Oil-Free Hyaluronic Acid Matrix for Serial Femtosecond Crystallography   |
|        |                     |                | 2014B8050 | BL3    | 岩田 想            |  |
|        |                     |                | 2015A8048 | BL3    | 岩田 想            |  |
|        |                     |                | 2015A8026 | BL3    | 菅原 道泰           |  |

Chemical Communications

|       |                    |                       |           |        |               |  |
|-------|--------------------|-----------------------|-----------|--------|---------------|--|
| 30890 | Basudev Maity      | 52 (2016) 5463-5466   | 2013A1323 | BL38B1 | 安部 聡          | Immobilization of Two Organometallic Complexes into a Single Cage to Construct Protein-Based Microcompartments         |
|       |                    |                       | 2013B1262 | BL38B1 | 上野 隆史         |  |
|       |                    |                       | 2014A1165 | BL38B1 | 上野 隆史         |  |
|       |                    |                       | 2014A1182 | BL38B1 | 安部 聡          |  |
| 30904 | Hong-Shuo Chen     | 50 (2014) 11165-11168 | 2014A4137 | BL12B2 | Chen Tsan Yao | Graphene-Supported Pt and PtPd Nanorods with Enhanced Electrocatalytic Performance for the Oxygen Reduction Reaction   |
| 30993 | Jiro Kondo         | 52 (2016) 2354-2357   | 2011B1999 | BL26B1 | 野村 祐介         | The Crystal Structure of a 2',4'-BNA <sup>NC</sup> [N-Me]-modified Antisense Gapmer in Complex with the Target RNA     |
|       |                    |                       | 2012A1129 | BL38B1 | 野村 祐介         |  |
| 31086 | D. E. Coupry       | 52 (2016) 5175-5178   | 2015B3786 | BL22XU | Kim Hyunjeong | Controlling Embedment and Surface Chemistry of Nanoclusters in Metal–Organic Frameworks                                |
| 31133 | Tomoyuki Haraguchi | 52 (2016) 6017-6020   | 2013A1146 | BL13XU | 北川 宏          | A Three-Dimensional Accordion-like Metal–Organic Framework: Synthesis and Unconventional Oriented Growth on a Surface  |
|       |                    |                       | 2013A1486 | BL13XU | 大坪 主弥         |  |
|       |                    |                       | 2013B1410 | BL13XU | 北川 宏          |  |
|       |                    |                       | 2014A1392 | BL13XU | 北川 宏          |  |
|       |                    |                       | 2014A1419 | BL13XU | 大坪 主弥         |  |
|       |                    |                       | 2014B1443 | BL13XU | 北川 宏          |  |
| 31315 | Ryo Nozawa         | 52 (2016) 7106-7109   | 2015B1397 | BL38B1 | 久木 一朗         | Ni <sup>II</sup> Tetrahydronorcorroles: Antiaromatic Porphyrinoids with Saturated Pyrrole Units                        |
|       |                    |                       | 2014B1397 | BL40B2 | 山門 陵平         |  |
| 31334 | Kazuto Nakamura    | 52 (2016) 7157-7160   | 2014B1495 | BL40B2 | 前田 大光         | Dimension-Controlled Assemblies of Modified Bipyrrroles Stabilized by Electron-Withdrawing Moieties                    |
|       |                    |                       | 2015A1364 | BL40B2 | 前田 大光         |  |
|       |                    |                       | 2015A1388 | BL40XU | 高谷 光          |  |
|       |                    |                       | 2014B1397 | BL40B2 | 山門 陵平         |  |
| 31382 | Yohei Haketa       | 52 (2016) 7364-7367   | 2015A1364 | BL40B2 | 前田 大光         | $\beta$ -Perfluoroalkyl-substituted Pyrrole as an Anion-Responsive $\pi$ -electronic System through a Single NH Moiety |
| 31473 | Tetsuya Hasegawa   | 52 (2016) 7928-7931   | 2013B1245 | BL38B1 | 久木 一朗         | Photoinduced Electron Transfer in Porous Organic Salt Crystals Impregnated with Fullerenes                             |
|       |                    |                       | 2014B1976 | BL26B1 | 藤内 謙光         |  |

The Journal of Biological Chemistry

| 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   |
|-----------|------------------|---------------------------|-----------|--------|------------------|--|
| 31191     | Takeshi Murakawa | 290 (2015)<br>23094-23109 | 2007A6904 | BL44XU | 岡島 俊英            | Probing the Catalytic Mechanism of Copper Amine Oxidase from <i>Arthrobacter globiformis</i> with Halide Ions  |
|           |                  |                           | 2007B6904 | BL44XU | 岡島 俊英            |  |
|           |                  |                           | 2008A6808 | BL44XU | 岡島 俊英            |  |
|           |                  |                           | 2008B6808 | BL44XU | 岡島 俊英            |  |
|           |                  |                           | 2009A6911 | BL44XU | 岡島 俊英            |  |
|           |                  |                           | 2013A6810 | BL44XU | 岡島 俊英            |  |
|           |                  |                           | 2013B6810 | BL44XU | 岡島 俊英            |  |
|           |                  |                           | 2014A6912 | BL44XU | 岡島 俊英            |  |
|           |                  |                           | 2014B6912 | BL44XU | 岡島 俊英            |  |
|           |                  |                           | 2009A1148 | BL38B1 | 岡島 俊英            |  |
|           |                  |                           | 2009B1106 | BL38B1 | 岡島 俊英            |  |
| 2010A1203 | BL38B1           | 岡島 俊英                     |           |        |                  |  |
| 2014A1144 | BL38B1           | 村川 武志                     |           |        |                  |  |
| 31245     | Yu-Ling Wang     | 285 (2010)<br>37872-37883 | 2009A4004 | BL12B2 | Chen Chun Jung   | Cobra CRISP Functions as an Inflammatory Modulator via a Novel Zn <sup>2+</sup> -and Heparan Sulfate-dependent Transcriptional Regulation of Endothelial Cell Adhesion Molecules |
|           |                  |                           | 2009B4002 | BL12B2 | Chen Chun Jung   |  |
| 31250     | Chin Yuan Chang  | 285 (2010)<br>39500-39510 | 2009A4004 | BL12B2 | Chen Chun Jung   | Crystal Structure and Mutational Analysis of Aminoacylhistidine Dipeptidase from <i>Vibrio alginolyticus</i> Reveal a New Architecture of M20 Metallopeptidases                  |
|           |                  |                           | 2009B4002 | BL12B2 | Chen Chun Jung   |  |
| 31252     | Yi-Wei Chang     | 285 (2010)<br>9962-9970   | 2008A4003 | BL12B2 | Hsiao Chwan Deng | Crystal Structure of Get4-Get5 Complex and Its Interactions with Sgt2, Get3, and Ydj1  |
|           |                  |                           | 2008B4001 | BL12B2 | Hsiao Chwan Deng |  |
| 31261     | Chien-Yu Chou    | 286 (2011)<br>14057-14064 | 2010A4013 | BL12B2 | Wang Andrew      | Modulation of Substrate Specificities of D-Sialic Acid Aldolase through Single Mutations of Val-251  |
|           |                  |                           | 2009B4009 | BL12B2 | Wang Andrew      |  |
| 31271     | Chun-Han Ho      | 289 (2014)<br>27046-27054 | 2013B4011 | BL12B2 | Wang Andrew      | The T4 Phase DNA Mimic Protein Arn Inhibits the DNA Binding Activity of the Bacterial Histone-like Protein H-NS  |
|           |                  |                           | 2013A4001 | BL12B2 | Wang Andrew      |  |
|           |                  |                           | 2012B4001 | BL12B2 | Wang Andrew      |  |
|           |                  |                           | 2012A4008 | BL12B2 | Wang Andrew      |  |
| 31281     | Je Hung Kuo      | 288 (2013)<br>13522-13533 | 2012A6600 | BL44XU | Hsiao Chwan Deng | Alternative C-Terminal Helix Orientation Alters Chemokine Function: Structure of the Anti-Angiogenic Chemokine, CXCL4L1  |
|           |                  |                           | 2012B6600 | BL44XU | Hsiao Chwan Deng |  |
| 31299     | Young-Woo Nam    | 290 (2015)<br>18281-18292 | 2014B2015 | BL26B1 | 伏信 進矢            | Crystal Structure and Substrate Recognition of Cellobionic Acid Phosphorylase, Which Plays a Key Role in Oxidative Cellulose Degradation by Microbes                             |
|           |                  |                           | 2011A1908 | BL26B1 | 伏信 進矢            |  |
| 31381     | Hideo Ago        | 291 (2016)<br>5676-5687   | 2012A1245 | BL41XU | 沈 建仁             | Novel Features of Eukaryotic Photosystem II Revealed by Its Crystal Structure Analysis from a Red Alga   |
|           |                  |                           | 2011B1329 | BL41XU | 沈 建仁             |  |
|           |                  |                           | 2012B1399 | BL41XU | 沈 建仁             |  |
|           |                  |                           | 2013A1166 | BL41XU | 沈 建仁             |  |
|           |                  |                           | 2013B1259 | BL41XU | 沈 建仁             |  |
|           |                  |                           | 2014A1243 | BL41XU | 沈 建仁             |  |
| 2014B1281 | BL41XU           | 沈 建仁                      |           |        |                  |  |

Japanese Journal of Applied Physics-1

|           |                   |                     |           |        |             |  |
|-----------|-------------------|---------------------|-----------|--------|-------------|--|
| 30863     | Takuo Sasaki      | 55 (2016)<br>05FB05 | 2014B3503 | BL11XU | 佐々木 拓生      | Nitride-MBE System for in situ Synchrotron X-ray Measurements  |
|           |                   |                     | 2014B3514 | BL11XU | 石川 史太郎      |  |
|           |                   |                     | 2015A3503 | BL11XU | 佐々木 拓生      |  |
|           |                   |                     | 2015A3512 | BL11XU | 山口 智広       |  |
| 31044     | Toshirou Uchiyama | 55 (2016)<br>05FA07 | 2014B1343 | BL13XU | 竹内 正太郎      | Positional Dependence of Defect Distribution in Semipolar (20-21) Hydride Vapor Phase Epitaxy-GaN Films Grown on (22-43) Patterned Sapphire Substrates |
|           |                   |                     | 2013B1773 | BL13XU | 竹内 正太郎      |  |
|           |                   |                     | 2013A1663 | BL13XU | 酒井 朗        |  |
| 31224     | Chun-Chih Huang   | 52 (2013)<br>04CH11 | 2012B4126 | BL12B2 | Lin Der Yuh | A Comprehensive Study on the Optical Properties of Thin Gold-Doped Rhenium Disulphide Layered Single Crystals  |
| 31295     | Takahiro Nagata   | 55 (2016)<br>06GJ12 | 2013A4604 | BL15XU | 長田 貴弘       | Interface Stability of Electrode/Bi-containing Relaxor Ferroelectric Oxide for High-Temperature Operational Capacitor                                  |
|           |                   |                     | 2014B4603 | BL15XU | 長田 貴弘       |  |
| 31314     | Toshiyuki Usagawa | 55 (2016)<br>067102 | 2012B1193 | BL08W  | 上田 和浩       | Pt-Ti-O Gate Silicon-Metal-Insulator-Semiconductor Field-Effect Transistor Hydrogen Gas Sensors in Harsh Environments                                  |
|           |                   |                     | 2011A2003 | BL08W  | 上田 和浩       |  |
|           |                   |                     | 2011B1649 | BL08W  | 上田 和浩       |  |
|           |                   |                     | 2012A5100 | BL16XU | 上田 和浩       |  |
|           |                   |                     | 2012B5100 | BL16XU | 上田 和浩       |  |
| 2013A5100 | BL16XU            | 上田 和浩               |           |        |             |  |

Japanese Journal of Applied Physics-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  |
|--------|-----------------|---------------------|-----------|--------|------------|---|
| 31355  | Yasuhiro Yoneda | 54 (2015)<br>10NC01 | 2015A1173 | BL04B2 | 米田 安宏      | Local Structure Analysis of KNbO <sub>3</sub> Nanocubes by Solvothermal Synthesis   |
|        |                 |                     | 2013B3607 | BL14B1 | 米田 安宏      |   |
|        |                 |                     | 2014A3607 | BL14B1 | 米田 安宏      |   |
|        |                 |                     | 2014B1080 | BL04B2 | 米田 安宏      |   |
| 31412  | Takahiro Nagata | 55 (2016)<br>08PC03 | 2012A4613 | BL15XU | 長田 貴弘      | Bottom-Electrode Effect on Switching Behavior and Interface Reaction in Nanoionic-Based Resistive Changing Memory               |
|        |                 |                     | 2011B4611 | BL15XU | 長田 貴弘      |   |
|        |                 |                     | 2011A4611 | BL15XU | 長田 貴弘      |   |
| 31416  | Eisuke Magome   | 54 (2015)<br>10NB04 | 2014B1559 | BL02B2 | 馬込 栄輔      | Role of Structure Gradient Region on Dielectric Properties in Ba(Zr,Ti)O <sub>3</sub> -KNbO <sub>3</sub> Nanocomposite Ceramics |
|        |                 |                     | 2014A0078 | BL02B1 | Iversen Bo |   |

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|       |                                      |                         |           |        |                       |   |
|-------|--------------------------------------|-------------------------|-----------|--------|-----------------------|---|
| 30870 | Sachiko Toma-Fukai                   | 428 (2016)<br>1197-1208 | 2014B6933 | BL44XU | 藤間 祥子                 | Novel Helical Assembly in Arginine Methyltransferase 8  |
|       |                                      |                         | 2012A6729 | BL44XU | 藤間 祥子                 |   |
|       |                                      |                         | 2012B6729 | BL44XU | 藤間 祥子                 |   |
|       |                                      |                         | 2013A6832 | BL44XU | 藤間 祥子                 |   |
|       |                                      |                         | 2013B6832 | BL44XU | 藤間 祥子                 |   |
| 31016 | Masayoshi Nakasako                   | 381 (2008)<br>718-733   | 2006A1414 | BL41XU | 清水 伸隆                 | Structural Basis of the LOV1 Dimerization of Arabidopsis Phototropins 1 and 2   |
|       |                                      |                         | 2006B1388 | BL41XU | 清水 伸隆                 |   |
| 31243 | Yibin Xu                             | 396 (2010)<br>773-784   | 2009A4000 | BL12B2 | Jeyaraman Jeyakanthan | Structure of the Adenylation Domain of <i>E. coli</i> Glutamine Synthetase Adenylyl Transferase: Evidence for Gene Duplication and Evolution of a New Active Site |
| 31251 | Anil Kumar                           | 401 (2010)<br>892-905   | 2009A4000 | BL12B2 | Jeyaraman Jeyakanthan | The Critical Roles of Residues P235 and F236 of Subunit A of the Motor Protein A-ATP Synthetase in P-Loop Formation and Nucleotide Binding                        |
|       |                                      |                         | 2009B4010 | BL12B2 | Jeyaraman Jeyakanthan |   |
| 31253 | Anil Kumar                           | 396 (2010)<br>301-320   | 2009A4000 | BL12B2 | Jeyaraman Jeyakanthan | Nucleotide Binding States of Subunit A of the A-ATP Synthase and the Implication of P-Loop Switch in Evolution  |
|       |                                      |                         | 2009B4010 | BL12B2 | Jeyaraman Jeyakanthan |   |
| 31259 | Malathy Sony Subramanian Manimekalai | 408 (2011)<br>736-754   | 2010A4000 | BL12B2 | Jeyaraman Jeyakanthan | The Transition-Like State and Pi Entrance into the Catalytic A Subunit of the Biological Engine A-ATP Synthetase  |
|       |                                      |                         | 2009B4010 | BL12B2 | Jeyaraman Jeyakanthan |   |
|       |                                      |                         | 2009A4000 | BL12B2 | Jeyaraman Jeyakanthan |   |
| 31508 | Masaaki Shiina                       | 427 (2015)<br>1665-1669 | 2009B1523 | BL41XU | 緒方 一博                 | A Novel Allosteric Mechanism on Protein-DNA Interactions underlying the Phosphorylation-Dependent Regulation of Ets1 Target Gene Expressions                      |

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|       |                   |                         |           |        |              |  |
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| 30813 | Mu-Sen Liu        | 138 (2016)<br>2389-2398 | 2012B4005 | BL12B2 | Tsai MingDaw | Structural Mechanism for the Fidelity Modulation of DNA Polymerase $\lambda$                   |
|       |                   |                         | 2012B4014 | BL12B2 | Tsai MingDaw |  |
|       |                   |                         | 2013A4003 | BL12B2 | Tsai MingDaw |  |
|       |                   |                         | 2013B4008 | BL12B2 | Tsai MingDaw |  |
|       |                   |                         | 2014A4013 | BL12B2 | Tsai MingDaw |  |
|       |                   |                         | 2014B4007 | BL12B2 | Tsai MingDaw |  |
|       |                   |                         | 2015A4002 | BL12B2 | Tsai MingDaw |  |
|       |                   |                         | 2015B4003 | BL12B2 | Tsai MingDaw |  |
| 31085 | Riho Mikita       | 138 (2016)<br>3211-3217 | 2012A4015 | BL12B2 | Tsai MingDaw | Topochemical Nitridation with Anion Vacancy-Assisted N <sup>3-</sup> /O <sup>2-</sup> Exchange |
|       |                   |                         | 2015B1110 | BL02B2 | 陰山 洋         |  |
|       |                   |                         | 2015B1111 | BL02B2 | 山本 隆文        |  |
| 31106 | Takazumi Katayama | 138 (2016)<br>5210-5213 | 2015B1472 | BL02B2 | 陰山 洋         | Two-Step Synthesis of Boron-Fused Double Helicenes   |
|       |                   |                         | 2014B1815 | BL40XU | 高谷 光         |  |
|       |                   |                         | 2015A1320 | BL40XU | 畠山 琢次        |  |
|       |                   |                         | 2015A0114 | BL02B1 | 高谷 光         |  |
|       |                   |                         | 2015B0123 | BL40XU | 高谷 光         |  |

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| 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  |
|--------|---------------|-------------------------|-----------|--------|-------|---|
| 31316  | Ichiro Hisaki | 138 (2016)<br>6617-6628 | 2014B1168 | BL38B1 | 久木 一朗 | A Series of Layered Assemblies of Hydrogen-Bonded, Hexagonal Networks of C <sub>3</sub> -Symmetric $\pi$ -Conjugated Molecules: A Potential Motif of Porous Organic Materials |
|        |               |                         | 2015A1174 | BL38B1 | 久木 一朗 |   |
|        |               |                         | 2015A1193 | BL02B2 | 久木 一朗 |   |
|        |               |                         | 2015B1685 | BL38B1 | 中川 祥一 |   |
|        |               |                         | 2015B1397 | BL38B1 | 久木 一朗 |   |
| 31348  | Jinjian Wei   | 138 (2016)<br>3274-3277 | 2015A8052 | BL3    | 西野 吉則 | Yolk/Shell Assembly of Gold Nanoparticles by Size Segregation in Solution   |
|        |               |                         | 2014B8053 | BL3    | 西野 吉則 |   |
|        |               |                         | 2014A8035 | BL3    | 西野 吉則 |   |
| 31543  | Bao-Wen Li    | 138 (2016)<br>7621-7625 | 2015B4605 | BL15XU | 長田 実  | Coexistence of Magnetic Order and Ferroelectricity at 2D Nanosheet Interfaces   |
|        |               |                         | 2013A4603 | BL15XU | 長田 実  |   |
|        |               |                         | 2012B4608 | BL15XU | 長田 実  |   |
|        |               |                         | 2010A4608 | BL15XU | 長田 実  |   |

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|       |                   |                     |           |        |               |  |
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| 31138 | Takaya Mitsui     | 85 (2016)<br>054705 | 2015A3514 | BL11XU | 中村 真一         | Observation of Flux-Grown $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> Single Crystal at the Morin Transition by <sup>57</sup> Fe Synchrotron Radiation Mössbauer Diffraction            |
|       |                   |                     | 2015A3501 | BL11XU | 三井 隆也         |  |
|       |                   |                     | 2014B3501 | BL11XU | 三井 隆也         |  |
| 31197 | Yutaka Moritomo   | 85 (2016)<br>038001 | 2011B1066 | BL02B2 | 守友 浩          | Erratum: "Cubic-Rhombohedral Structural Phase Transition in Na <sub>1.32</sub> Mn[Fe(CN) <sub>6</sub> ] <sub>0.8</sub> · 3.6H <sub>2</sub> O" [J. Phys. Soc. Jpn. 80, 074608 (2011)] |
| 31231 | Ta-Lei Chou       | 82 (2013)<br>064708 | 2012A4257 | BL12XU | Chen Jin-Ming | Pressure and Temperature Dependence of Local Structure and Electronic Structure of Orthorhombic DyMnO <sub>3</sub>   |
| 31298 | Satoshi Tsutsui   | 85 (2016)<br>063602 | 2012B0046 | BL39XU | 渡辺 真仁         | First-Order Structural Change Accompanied by Yb Valance Transition in YbInCu <sub>4</sub>  |
|       |                   |                     | 2015A1492 | BL02B1 | 杉本 邦久         |  |
|       |                   |                     | 2015A2061 | BL02B1 | 杉本 邦久         |  |
| 31419 | Hiromi Tanaka     | 85 (2016)<br>014703 | 2015A0074 | BL02B2 | 森吉 千佳子        | Metal-Semiconductor Transition Concomitant with a Structural Transformation in Tetrahedrite Cu <sub>12</sub> Sb <sub>4</sub> S <sub>13</sub>   |
|       |                   |                     | 2014A0078 | BL02B1 | Iversen Bo    |  |
| 31497 | Masanori Sunagawa | 85 (2016)<br>073704 | 2011B1892 | BL25SU | 横谷 尚睦         | Observation of a Hidden Hole-Like Band Approaching the Fermi Level in K-Doped Iron Selenide Superconductor   |

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|       |                      |                       |           |        |                       |   |
|-------|----------------------|-----------------------|-----------|--------|-----------------------|---|
| 30953 | Masatoshi Nakatsuji  | 10 (2015)<br>e0142206 | 2014A1636 | BL40B2 | 中辻 匡俊                 | Human Lipocalin-Type Prostaglandin D Synthase-Based Drug Delivery System for Poorly Water-Soluble Anti-Cancer Drug SN-38                                    |
|       |                      |                       | 2013B1669 | BL40B2 | 山口 桂右                 |   |
|       |                      |                       | 2012B1659 | BL40B2 | 久米 慧嗣                 |   |
| 31241 | Ardina Gruber        | 5 (2010)<br>e9146     | 2009A4000 | BL12B2 | Jeyaraman Jeyakanthan | Structural Determination of Functional Units of the Nucleotide Binding Domain (NBD94) of the Reticulocyte Binding Protein Py235 of <i>Plasmodium yoelii</i> |
|       |                      |                       | 2009B4010 | BL12B2 | Jeyaraman Jeyakanthan |   |
| 31262 | Veerendra Kumar      | 6 (2011)<br>e27543    | 2010A4000 | BL12B2 | Jeyaraman Jeyakanthan | A Conformational Switch in the Active Site of BT_2972, a Methyltransferase from an Antibiotic Resistant Pathogen <i>B. thetaiotaomicron</i>                 |
| 31267 | Hsin-Mao Wu          | 7 (2012)<br>e48301    | 2011A4001 | BL12B2 | Wang Wen Ching        | Crystal Structures of Lysine-Preferred Racemases, the Non-Antibiotic Selectable Markers for Transgenic Plants   |
|       |                      |                       | 2010B4008 | BL12B2 | Wang Wen Ching        |   |
|       |                      |                       | 2010A4019 | BL12B2 | Wang Wen Ching        |   |
|       |                      |                       | 2011B6600 | BL44XU | Hsiao Chwan Deng      |   |
|       |                      |                       | 2011A6600 | BL44XU | Hsiao Chwan Deng      |   |
| 31269 | Manuel Maestre-Reyna | 8 (2013)<br>e82458    | 2012A4001 | BL12B2 | Wang Andrew           | Structural Insights into RbmA, a Biofilm Scaffolding Protein of <i>V. Cholerae</i>  |
|       |                      |                       | 2011B4006 | BL12B2 | Wang Andrew           |   |
|       |                      |                       | 2011A4010 | BL12B2 | Wang Andrew           |   |
| 31332 | Hisahi Nagai         | 10 (2015)<br>e0131923 | 2011A1305 | BL28B2 | Schwenke Daryl        | Pulmonary Macrophages Attenuate Hypoxic Pulmonary Vasoconstriction via $\beta_2$ AR/iNOS Pathway in Rats Exposed to Chronic Intermittent Hypoxia            |
|       |                      |                       | 2012A1400 | BL28B2 | Pearson James         |   |
|       |                      |                       | 2012A1229 | BL28B2 | 吉田 謙一                 |   |
|       |                      |                       | 2012B1771 | BL28B2 | 吉田 謙一                 |   |
|       |                      |                       | 2012B1233 | BL28B2 | Schwenke Daryl        |   |

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| 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   |
|--------|------------------|-------------------------|-----------|--------|-------------|--|
| 30876  | Hiroyuki Fujita  | 8 (2016)<br>5484-5492   | 2014A1530 | BL46XU | 尾坂 格        | Sequentially Different AB Diblock and ABA Triblock Copolymers as P3HT:PCBM Interfacial Compatibilizers for Bulk-Heterojunction Photovoltaics   |
|        |                  |                         | 2015B1633 | BL46XU | 東原 知哉       |  |
| 30987  | Mitsuharu Suzuki | 8 (2016)<br>8644-8651   | 2015A1842 | BL19B2 | 高橋 功太郎      | Photoprecursor Approach Enables Preparation of Well-Performing Bulk-Heterojunction Layers Comprising a Highly Aggregating Molecular Semiconductor  |
|        |                  |                         | 2015A1683 | BL19B2 | 鈴木 充朗       |  |
|        |                  |                         | 2015A1965 | BL46XU | 小金澤 智之      |  |
|        |                  |                         | 2015B1769 | BL19B2 | 高橋 功太郎      |  |
| 31218  | Evelyn Handick   | 7 (2015)<br>27414-27420 | 2013A1703 | BL47XU | Wilks Regan | Potassium Postdeposition Treatment-Induced Band Gap Widening at Cu(In,Ga)Se <sub>2</sub> Surfaces – Reason for Performance Leap?   |
| 31337  | Yasuo Nakayama   | 8 (2016)<br>13499-13505 | 2014B1641 | BL19B2 | 中山 泰生       | Epitaxial Growth of an Organic p-n Heterojunction: C <sub>60</sub> on Single-Crystal Pentacene   |
|        |                  |                         | 2015A1685 | BL46XU | 中山 泰生       |  |
|        |                  |                         | 2015B1624 | BL46XU | 中山 泰生       |  |
| 31570  | Shipra Chauhan   | 8 (2016)<br>9059-9070   | 2014B4600 | BL15XU | 森 利之        | Design of Low Pt Concentration Electrocatalyst Surfaces with High Oxygen Reduction Reaction Activity Promoted by Formation of a Heterogeneous Interface between Pt and CeO <sub>x</sub> Nanowire |

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|       |                    |                        |           |        |                |   |
|-------|--------------------|------------------------|-----------|--------|----------------|---|
| 31017 | Masayoshi Nakasako | 64 (2008)<br>617-621   | 2006A1414 | BL41XU | 清水 伸隆          | Crystallization and Preliminary X-ray Diffraction Analysis of the LOV1 Domains of Phototropin 1 and 2 from <i>Arabidopsis thaliana</i>  |
|       |                    |                        | 2006B1388 | BL41XU | 清水 伸隆          |   |
| 31248 | I-Jung Chen        | 66 (2010)<br>815-818   | 2009A4003 | BL12B2 | Wang Andrew    | Crystallization and Preliminary X-ray Diffraction Analysis of the N-terminal Domain of Human Coronavirus OC43 Nucleocapsid Protein  |
|       |                    |                        | 2009B4009 | BL12B2 | Wang Andrew    |   |
| 31273 | Yu-Chun Luo        | 70 (2014)<br>1080-1086 | 2011A4016 | BL12B2 | Lin Chan Shing | Crystallization and X-ray Diffraction of Virus-like Particles from a Piscine Betanodavirus  |
| 31274 | Li-Ying Chen       | 71 (2015)<br>434-437   | 2014B4013 | BL12B2 | Chen Chun Jung | Purification, Crystallization and Preliminary X-ray Crystallographic Analysis of the Phosphatase Domain (PA3346PD) of the Response Regulator PA3346 from <i>Pseudomonas aeruginosa</i> PAO1 |
|       |                    |                        | 2014A4004 | BL12B2 | Chen Chun Jung |   |
|       |                    |                        | 2014A6600 | BL44XU | Chen Chun Jung |   |
|       |                    |                        | 2014B6600 | BL44XU | Chen Chun Jung |   |
|       |                    |                        | 2013B4000 | BL12B2 | Chen Chun Jung |   |
| 31434 | Yoshiki Aikawa     | 72 (2016)<br>369-375   | 2015B1033 | BL38B1 | 三木 邦夫          | Crystal Structure of Ketopantoate Reductase from <i>Thermococcus kodakarensis</i> Complexed with NADP <sup>+</sup>  |

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| 30906     | Yohei Uemura   | 55 (2016)<br>1364-1367 | 2014B8044 | BL3    | 朝倉 清高 | Dynamics of Photoelectrons and Structural Changes of Tungsten Trioxide Observed by Femtosecond Transient XAFS                                |
|           |                |                        | 2015A8039 | BL3    | 朝倉 清高 |  |
|           |                |                        | 2013A8021 | BL3    | 上村 洋平 |  |
| 31102     | Wenqian Chen   | 55 (2016)<br>5195-5200 | 2015B1546 | BL02B2 | 堀毛 悟史 | Glass Formation of a Coordination Polymer Crystal for Enhanced Proton Conductivity and Material Flexibility                                  |
| 31208     | Hayato Seki    | 55 (2016)<br>1360-1363 | 2014A1003 | BL47XU | 島川 祐一 | Ferromagnetism Induced by Substitution of the Iron(IV) Ion by an Unusual High-Valence Nickel(IV) Ion in Antiferromagnetic SrFeO <sub>3</sub> |
|           |                |                        | 2015A1014 | BL39XU | 島川 祐一 |  |
|           |                |                        | 2015A1016 | BL25SU | 島川 祐一 |  |
| 31290     | Kenichi Ohtake | 55 (2016)<br>6448-6451 | 2011B4907 | BL15XU | 大坪 主弥 | Ultrafine Metal–Organic Right Square Prism Shaped Nanowires  |
|           |                |                        | 2012B1558 | BL02B1 | 大坪 主弥 |  |
|           |                |                        | 2012B4912 | BL15XU | 大坪 主弥 |  |
|           |                |                        | 2013A1480 | BL02B1 | 大坪 主弥 |  |
|           |                |                        | 2013B1400 | BL02B1 | 北川 宏  |  |
|           |                |                        | 2014A1406 | BL02B1 | 北川 宏  |  |
| 2014B1440 | BL02B1         | 北川 宏                   |           |        |       |  |
| 31619     | Bin Zhang      | 55 (2016)<br>8319-8323 | 2014B1029 | BL01B1 | 朝倉 博行 | Stabilizing a Platinum <sub>1</sub> Single-Atom Catalyst on Supported Phosphomolybdic Acid without Compromising Hydrogenation Activity       |

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| 30974 | Xufang Qan | 20 (2014)<br>15746-15752 | 2014A1045 | BL01B1 | 森 浩亮 | Silver Nanoparticles Supported on CeO <sub>2</sub> -SBA-15 by Microwave Irradiation Possess Metal-Support Interactions and Enhanced Catalytic Activity |
|-------|------------|--------------------------|-----------|--------|------|--|

Chemistry - A European Journal-2

| 研究成果番号    | 主著者              | 雑誌情報                     | 課題番号      | ビームライン | 実験責任者  | タイトル  |
|-----------|------------------|--------------------------|-----------|--------|--------|---|
| 30977     | Kohsuke Mori     | 21 (2015)<br>11885-11893 | 2013B1041 | BL01B1 | 森 浩亮   | Color-Controlled Ag Nanoparticles and Nanorods within Confined Mesopores: Microwave-Assisted Rapid Synthesis and Application in Plasmonic Catalysis under Visible-Light Irradiation |
|           |                  |                          | 2014A1045 | BL01B1 | 森 浩亮   |   |
| 30978     | Kohsuke Mori     | 21 (2015)<br>12085-12092 | 2013B1041 | BL01B1 | 森 浩亮   | Synergic Catalysis of PdCu Alloy Nanoparticles within a Macroporous Basic Resin for Hydrogen Production from Formic Acid  |
|           |                  |                          | 2014A1045 | BL01B1 | 森 浩亮   |   |
| 31335     | Yuya Bando       | 22 (2016)<br>7843-7850   | 2014A1313 | BL40B2 | 坂東 勇哉  | Ion-Pairing Assemblies Based on Pentacyano-Substituted Cyclopentadienide as a $\pi$ -Electronic Anion   |
|           |                  |                          | 2014B1397 | BL40B2 | 山門 陵平  |   |
|           |                  |                          | 2014B1495 | BL40B2 | 前田 大光  |   |
|           |                  |                          | 2015A1364 | BL40B2 | 前田 大光  |   |
|           |                  |                          | 2015B1552 | BL40B2 | 羽毛田 洋平 |   |
| 2015B1553 | BL40B2           | 前田 大光                    |           |        |        |   |
| 31336     | Hiroimitsu Maeda | 21 (2015)<br>9520-9527   | 2012B1705 | BL40B2 | 落合 隆夫  | Carboxylate-Driven Supramolecular Assemblies of Protonated <i>meso</i> -Aryl-Substituted Dipyrrolylpyrazoles  |

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|       |                |                           |           |        |        |  |
|-------|----------------|---------------------------|-----------|--------|--------|--|
| 31165 | Tomonori Ohba  | 119 (2015)<br>28424-28429 | 2013A1030 | BL04B2 | 大場 友則  | Nanocrystallization of Imidazolium Ionic Liquid in Carbon Nanotubes  |
|       |                |                           | 2012B1070 | BL04B2 | 大場 友則  |  |
|       |                |                           | 2012A1152 | BL02B2 | 大場 友則  |  |
| 31210 | Daisuke Kan    | 120 (2016)<br>6006-6010   | 2015A1383 | BL37XU | 菅 大介   | Overpotential-induced Introduction of Oxygen Vacancy in $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ Surface and Its Impact on Oxygen Reduction Reaction Catalytic Activity in Alkaline Solution |
| 31226 | Hajime Tanida  | 120 (2016)<br>4739-4743   | 2009B1034 | BL37XU | 小久見 善八 | Elucidating the Driving Force of Relaxation of Reaction Distribution in $\text{LiCoO}_2$ and $\text{LiFePO}_4$ Electrodes Using X-ray Absorption Spectroscopy                                      |
|       |                |                           | 2010A1020 | BL37XU | 小久見 善八 |  |
|       |                |                           | 2010B1030 | BL37XU | 小久見 善八 |  |
| 31296 | Takahiro Kaito | 120 (2016)<br>11519-11527 | 2012A5390 | BL16B2 | 垣内 孝宏  | <i>In Situ</i> X-ray Absorption Fine Structure Analysis of PtCo, PtCu, and PtNi Alloy Electrocatalysts: The Correlation of Enhanced Oxygen Reduction Reaction Activity and Structure               |
|       |                |                           | 2012B5391 | BL16B2 | 垣内 孝宏  |  |
| 31333 | Yi-Tao Cui     | 120 (2016)<br>10936-10940 | 2014A1774 | BL46XU | 陰地 宏   | <i>In Situ</i> Hard X-ray Photoelectron Study of $\text{O}_2$ and $\text{H}_2\text{O}$ Adsorption on Pt Nanoparticles  |
|       |                |                           | 2014B1657 | BL14B2 | 原田 慈久  |  |
|       |                |                           | 2015A1554 | BL47XU | 崔 藝涛   |  |
|       |                |                           | 2015A1681 | BL46XU | 崔 藝涛   |  |
|       |                |                           | 2015A1691 | BL14B2 | 原田 慈久  |  |

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|       |                  |                      |           |        |        |  |
|-------|------------------|----------------------|-----------|--------|--------|--|
| 31204 | Kentaro Kajiwara | 502 (2014)<br>012020 | 2013A1858 | BL28B2 | 梶原 堅太郎 | Development of Technique for Three-Dimensional Visualization of Grain Boundaries by White X-ray Microbeam                  |
| 31375 | Kazuo Kato       | 712 (2016)<br>012025 | 2012A1793 | BL28B2 | 加藤 和男  | Development of Highly Stable Bragg Polychromator for Energy Dispersive XAFS  |
|       |                  |                      | 2013B1927 | BL28B2 | 加藤 和男  |  |
|       |                  |                      | 2014A1902 | BL28B2 | 加藤 和男  |  |
|       |                  |                      | 2014B2051 | BL28B2 | 加藤 和男  |  |
|       |                  |                      | 2015A2044 | BL28B2 | 加藤 和男  |  |
| 31413 | Daiju Matsumura  | 712 (2016)<br>012042 | 2013A1432 | BL28B2 | 松村 大樹  | CO Adsorption and Decomposition on $\text{Pd}/\text{Al}_2\text{O}_3$ Studied by Time-Resolved XAFS using Dispersive Optics |
|       |                  |                      | 2012B1393 | BL28B2 | 松村 大樹  |  |
|       |                  |                      | 2011B3610 | BL14B1 | 松村 大樹  |  |
|       |                  |                      | 2011B3609 | BL14B1 | 松村 大樹  |  |
|       |                  |                      | 2011A1369 | BL28B2 | 松村 大樹  |  |
|       |                  |                      | 2011A3609 | BL14B1 | 松村 大樹  |  |
|       |                  |                      | 2010B1205 | BL28B2 | 松村 大樹  |  |
| 31428 | Tomoki Uchiyama  | 712 (2016)<br>012043 | 2014B1861 | BL28B2 | 内山 智貴  | Reduction Process of Pd-Containing La-Fe Perovskite-Type Oxides by in-situ Dispersive X-ray Absorption Spectroscopy        |
|       |                  |                      | 2014B1768 | BL01B1 | 内山 智貴  |  |
|       |                  |                      | 2015A1814 | BL28B2 | 内山 智貴  |  |
| 31667 | Yusaku Nishimura | 712 (2016)<br>012067 | 2014B7027 | BL33XU | 西村 友作  | Study of Coordination Environments around Pd and Pt in a Pd-core Pt-Shell Nanoparticle during Heating                      |
|       |                  |                      | 2015A7027 | BL33XU | 西村 友作  |  |



Materials Science Forum

| 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  |
|--------|------------------|---------------------------|-----------|--------|-------|---|
| 30921  | Masahiro Yoshida | 858 (2016)<br>505-508     | 2015A3781 | BL22XU | 吉田 雅洋 | Development of the Compact Furnace for the <i>in-situ</i> Observation under Ultra-High Temperature by Synchrotron X-ray Surface Diffraction |
| 31151  | Xuan Zhang       | 740-742 (2013)<br>601-604 | 2011B3321 | BL08B2 | 土田 秀一 | Conversion of Basal Plane Dislocations to Threading Edge Dislocations by Annealing 4H-SiC Epilayers at High Temperatures                    |
|        |                  |                           | 2012A3321 | BL08B2 | 土田 秀一 |   |
|        |                  |                           | 2012B3321 | BL08B2 | 土田 秀一 |   |
| 31152  | Masahiro Nagano  | 740-742 (2013)<br>653-656 | 2011B3321 | BL08B2 | 土田 秀一 | Photoluminescence Imaging and Discrimination of Threading Dislocations in 4H-SiC Epilayers  |
|        |                  |                           | 2012A3321 | BL08B2 | 土田 秀一 |   |
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| 31154  | Isaho Kamata     | 778-780 (2014)<br>59-62   | 2011B3321 | BL08B2 | 土田 秀一 | Dislocation Analysis of 4H-SiC Crystals Obtained at Fast Growth Rate by the High-Temperature Gas Source Method                              |
|        |                  |                           | 2012A3321 | BL08B2 | 土田 秀一 |   |
|        |                  |                           | 2012B3321 | BL08B2 | 土田 秀一 |   |
|        |                  |                           | 2013A3321 | BL08B2 | 土田 秀一 |   |
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|        |                  |                           | 2014A3321 | BL08B2 | 土田 秀一 |   |
| 31207  | Katsunori Danno  | 858 (2016)<br>19-22       | 2012A5371 | BL16B2 | 山口 聡  | Trials of Solution Growth of Dislocation-Free 4H-SiC Bulk Crystals  |
|        |                  |                           | 2013A5370 | BL16B2 | 山口 聡  |   |
|        |                  |                           | 2014A5370 | BL16B2 | 山口 聡  |   |
|        |                  |                           | 2014B5371 | BL16B2 | 山口 聡  |   |

Polymer

|       |                  |                        |           |        |       |   |
|-------|------------------|------------------------|-----------|--------|-------|---|
| 30865 | Daigo Kobayashi  | 89 (2016)<br>154-158   | 2011B1433 | BL40XU | 高原 淳  | Interphase Structure of Carbon Fiber Reinforced Polyamide 6 Revealed by Microbeam X-ray Diffraction with Synchrotron Radiation                                  |
|       |                  |                        | 2012B1237 | BL40B2 | 高原 淳  |   |
| 30875 | Keiji Numata     | 77 (2015)<br>87-94     | 2015A1247 | BL43IR | 沼田 圭司 | Crystal Structure and Physical Properties of <i>Antheraea yamamai</i> Silk Fibers: Long Poly(alanine) Sequences are Partially in the Crystalline Region         |
| 31390 | Nguyen-Dung Tien | 55 (2014)<br>2562-2569 | 2010A3306 | BL08B2 | 山崎 輝昌 | Small-Angle X-ray Scattering Studies on Melting and Recrystallization Behaviors of Poly(oxyethylene) Crystallites in Poly(D,L-lactide)/Poly(oxyethylene) Blends |
|       |                  |                        | 2010A7225 | BL03XU | 宮崎 司  |   |
|       |                  |                        | 2010B1110 | BL40B2 | 櫻井 伸一 |   |
|       |                  |                        | 2010B3306 | BL08B2 | 山崎 輝昌 |   |
|       |                  |                        | 2010B7271 | BL03XU | 宮崎 司  |   |
|       |                  |                        | 2011B3306 | BL08B2 | 坂本 直紀 |   |
| 31391 | Nguyen-Dung Tien | 54 (2013)<br>4653-4659 | 2010B1110 | BL40B2 | 櫻井 伸一 | Higher-Order Crystalline Structures of Poly(oxyethylene) in Poly(D,L-lactide)/Poly(oxyethylene) Blends  |
|       |                  |                        | 2010A3306 | BL08B2 | 山崎 輝昌 |   |
|       |                  |                        | 2010A7225 | BL03XU | 宮崎 司  |   |
|       |                  |                        | 2010B3306 | BL08B2 | 山崎 輝昌 |   |
|       |                  |                        | 2010B7271 | BL03XU | 宮崎 司  |   |
|       |                  |                        | 2011B3306 | BL08B2 | 坂本 直紀 |   |
| 31499 | Daiki Murakami   | 98 (2016)<br>464-469   | 2013B1177 | BL43IR | 高原 淳  | Swollen Structure and Electrostatic Interactions of Polyelectrolyte Brush in Aqueous Solution   |
|       |                  |                        | 2012A1292 | BL43IR | 高原 淳  |   |

Solid State Ionics-1

|       |                    |                       |           |        |       |   |
|-------|--------------------|-----------------------|-----------|--------|-------|---|
| 31089 | Takahiro Funahashi | 289 (2016)<br>106-112 | 2011B4905 | BL15XU | 嶺重 温  | Effect of Cation Doping on Ionic Conductivity and Crystal Structure of Oxyapatite-Type Lanthanum Silicates  |
|       |                    |                       | 2012A4506 | BL15XU | 小林 清  |   |
|       |                    |                       | 2011A4506 | BL15XU | 小林 清  |   |
|       |                    |                       | 2012B4902 | BL15XU | 嶺重 温  |   |
| 31177 | Kota Suzuki        | 288 (2016)<br>229-234 | 2011A1612 | BL02B2 | 久保田 圭 | Synthesis, Structure, and Electrochemical Properties of Crystalline Li-P-S-O Solid Electrolytes: Novel Lithium-Conducting Oxysulfides of Li <sub>10</sub> GeP <sub>2</sub> S <sub>12</sub> Family |
| 31327 | Fang Wang          | 288 (2016)<br>2-5     | 2014B1396 | BL27SU | 雨澤 浩史 | Tailoring the Chemical Stability of Cobalt-rich Perovskite Mixed Conductor  |
|       |                    |                       | 2013B1487 | BL27SU | 雨澤 浩史 |   |
|       |                    |                       | 2014A1452 | BL27SU | 雨澤 浩史 |   |

## Solid State Ionics-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  |
|-----------|--------------------|-----------------------|-----------|--------|-------|---|
| 31328     | Takayoshi Ishimoto | 285 (2016)<br>195-201 | 2014B1396 | BL27SU | 雨澤 浩史 | Theoretical Study on Temperature Effect of Electronic Structure and Spin State in LaCoO <sub>3</sub> by using Density Functional Theory   |
|           |                    |                       | 2012A1273 | BL27SU | 雨澤 浩史 |   |
|           |                    |                       | 2012B1497 | BL27SU | 雨澤 浩史 |   |
|           |                    |                       | 2013B1487 | BL27SU | 雨澤 浩史 |   |
| 2014A1452 | BL27SU             | 雨澤 浩史                 |           |        |       |   |
| 31372     | Hironori Kobayashi | 262 (2014)<br>43-48   | 2012B1574 | BL19B2 | 小林 弘典 | The Effects of Al <sub>2</sub> O <sub>3</sub> Coating on the Performance of Layered Li <sub>1.20</sub> Mn <sub>0.55</sub> Ni <sub>0.16</sub> Co <sub>0.09</sub> O <sub>2</sub> Materials for Lithium-Ion Rechargeable Battery |

## Acta Crystallographica Section D

|           |                  |                        |           |        |                  |  |
|-----------|------------------|------------------------|-----------|--------|------------------|--|
| 31247     | T.-P. Ko         | 66 (2010)<br>145-154   | 2008A4002 | BL12B2 | Wang Andrew      | Structures of Human MST3 Kinase in Complex with Adenine, ADP and Mn <sup>2+</sup>  |
|           |                  |                        | 2008B4007 | BL12B2 | Wang Andrew      |  |
| 31278     | Jung-Yu Tung     | 69 (2013)<br>2081-2090 | 2011B6600 | BL44XU | Hsiao Chwan Deng | Structure of the Sgt2 Dimerization Domain Complexed with the Get5 UBL Domain Involved in the Targeting of Tail-Anchored Membrane Proteins to the Endoplasmic Reticulum |
|           |                  |                        | 2012A6600 | BL44XU | Hsiao Chwan Deng |  |
| 31280     | Jiahn Haur Liao  | 69 (2013)<br>1395-1402 | 2011B6600 | BL44XU | Hsiao Chwan Deng | Structures of an ATP-independent Lon-like Protease and its Complexes with Covalent Inhibitors  |
|           |                  |                        | 2012A6600 | BL44XU | Hsiao Chwan Deng |  |
| 31616     | Masato Yoshimura | 72 (2016)<br>830-840   | 2012A4009 | BL12B2 | Chen Chun Jung   | <i>Ab initio</i> Phasing by Molecular Averaging in Real Space with New Criteria: Application to Structure Determination of a Betanodavirus                             |
|           |                  |                        | 2012A6760 | BL44XU | Chen Chun Jung   |  |
|           |                  |                        | 2012A6600 | BL44XU | Hsiao Chwan Deng |  |
|           |                  |                        | 2012B4002 | BL12B2 | Chen Chun Jung   |  |
|           |                  |                        | 2012B4012 | BL12B2 | Chen Chun Jung   |  |
|           |                  |                        | 2012B6600 | BL44XU | Hsiao Chwan Deng |  |
|           |                  |                        | 2013A4011 | BL12B2 | Chen Chun Jung   |  |
|           |                  |                        | 2013A6600 | BL44XU | Hsiao Chwan Deng |  |
|           |                  |                        | 2013B4000 | BL12B2 | Chen Chun Jung   |  |
|           |                  |                        | 2013B6600 | BL44XU | Hsiao Chwan Deng |  |
|           |                  |                        | 2014A4000 | BL12B2 | Chen Chun Jung   |  |
|           |                  |                        | 2014A6600 | BL44XU | Chen Chun Jung   |  |
| 2014A6965 | BL44XU           | Chen Chun Jung         |           |        |                  |  |
| 2014A4004 | BL12B2           | Chen Chun Jung         |           |        |                  |  |

## Chemistry Letters

|       |                 |                        |           |        |        |   |
|-------|-----------------|------------------------|-----------|--------|--------|---|
| 31059 | Munenori Numata | 44 (2015)<br>861-863   | 2014B1133 | BL40B2 | 沼田 宗典  | Creation of Kinetically Stabilized Porphyrin Microfilms through Synchronized Hydrogen-bonding Interactions in Microflow                             |
| 31060 | Munenori Numata | 44 (2015)<br>577-579   | 2014B1133 | BL40B2 | 沼田 宗典  | Synchronized Self-assembly of a Fullerene Derivatives Passing through Programmable Microflow Field  |
| 31061 | Munenori Numata | 44 (2015)<br>1601-1603 | 2014B1133 | BL40B2 | 沼田 宗典  | Controlled Nucleation of Supramolecular Polymerization in a Pressure Regulatable Microflow Channel  |
| 31420 | Biao Zhou       | 45 (2016)<br>303-305   | 2015A0074 | BL02B2 | 森吉 千佳子 | A Single-component Molecular Conductor with Metal-Metal Bonding, [Pd(hfdt) <sub>2</sub> ] (hfdt: bis(trifluoromethyl) tetrathiafulvalenedithiolate) |

## Inorganic Chemistry

|           |                  |                        |           |        |        |  |
|-----------|------------------|------------------------|-----------|--------|--------|--|
| 30996     | Nobuto Yoshinari | 55 (2016)<br>2030-2036 | 2015A1520 | BL02B2 | 吉成 信人  | Methanol-Triggered Turn-On-Type Photoluminescence in L-Cysteinato Palladium(II) and Platinum(II) Complexes Supported by a Bis(diphenylphosphine) Ligand                      |
|           |                  |                        | 2015A1506 | BL02B2 | 今野 巧   |  |
| 31378     | Runze Yu         | 55 (2016)<br>6124-6129 | 2015A3615 | BL14B1 | 東 正樹   | High-Temperature Monoclinic <i>Cc</i> Phase with Reduced <i>c/a</i> Ratio in Bi-Based Perovskite Compound Bi <sub>2</sub> ZnTi <sub>1-x</sub> Mn <sub>x</sub> O <sub>6</sub> |
|           |                  |                        | 2014A1732 | BL02B2 | 岡 研吾   |  |
|           |                  |                        | 2014A3615 | BL14B1 | 東 正樹   |  |
|           |                  |                        | 2014B1731 | BL02B2 | 中野 紀穂  |  |
|           |                  |                        | 2015A1788 | BL02B2 | 松田 奈瑠美 |  |
| 2015B1730 | BL02B2           | 松田 奈瑠美                 |           |        |        |  |
| 31432     | Yuh Hijikata     | 52 (2013)<br>3634-3642 | 2012B1695 | BL02B2 | 福島 知宏  | Pore Design of Two-Dimensional Coordination Polymers toward Selective Adsorption   |
| 31654     | Nobuhiro Kumada  | 55 (2016)<br>5747-5749 | 2013A1299 | BL02B2 | 武井 貴弘  | High-Pressure Polymorph of NaBiO <sub>3</sub>  |

Journal of Applied Crystallography

| 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  |
|--------|------------------|------------------------|-----------|--------|-------|---|
| 30885  | Hiroki Ogawa     | 48 (2015)<br>1645-1650 | 2013A1871 | BL03XU | 小川 紘樹 | Visualizing Patterned Thin Films by Grazing-Incidence Small-Angle X-ray Scattering Coupled with Computed Tomography   |
|        |                  |                        | 2013B1881 | BL03XU | 小川 紘樹 |   |
|        |                  |                        | 2014A1851 | BL03XU | 小川 紘樹 |   |
| 31149  | Hiroki Ogawa     | 46 (2013)<br>1610-1615 | 2012B1971 | BL03XU | 小川 紘樹 | High-Precision Spin Coater for a Synchrotron Radiation <i>in situ</i> GISAXS System: for the Investigation of Formation Mechanisms of Self-Assembled Structures in Polymer Thin Films |
| 31206  | Shu Tsukui       | 49 (2016)<br>457-461   | 2014A1640 | BL38B1 | 津久井 秀 | X-ray Crystal Structure Analysis of Magnetically Oriented Microcrystals of Lysozyme at 1.8 Å Resolution   |
|        |                  |                        | 2015A1651 | BL38B1 | 木村 恒久 |   |
|        |                  |                        | 2015B1032 | BL38B1 | 木村 恒久 |   |
| 31426  | Yoshinori Ohmasa | 49 (2016)<br>835-844   | 2008B1426 | BL40B2 | 千葉 文野 | Double Bragg Scattering Observed in Small-Angle X-ray Scattering from Highly Oriented Pyrolytic Graphite  |
|        |                  |                        | 2009B1229 | BL40B2 | 千葉 文野 |   |

Journal of Applied Physics

|       |                     |                      |           |        |       |   |
|-------|---------------------|----------------------|-----------|--------|-------|---|
| 30951 | Kiliha Katayama     | 119 (2016)<br>134101 | 2014A1290 | BL13XU | 舟窪 浩  | Orientation Control and Domain Structure Analysis of {100}-oriented Epitaxial Ferroelectric Orthorhombic HfO <sub>2</sub> -based Thin Films |
|       |                     |                      | 2014B1779 | BL13XU | 白石 貴久 |   |
|       |                     |                      | 2013B4702 | BL15XU | 舟窪 浩  |   |
|       |                     |                      | 2014B4704 | BL15XU | 清水 荘雄 |   |
|       |                     |                      | 2014A4703 | BL15XU | 清水 荘雄 |   |
|       |                     |                      | 2015A4702 | BL15XU | 舟窪 浩  |   |
| 31120 | Kohki Nagata        | 119 (2016)<br>154103 | 2013A1829 | BL46XU | 永田 晃基 | Detection of Short Range Order in SiO <sub>2</sub> Thin-Films by Grazing-Incidence Wide and Small-Angle X-ray Scattering                    |
|       |                     |                      | 2013A1833 | BL46XU | 小椋 厚志 |   |
| 31188 | Yoshikazu Mizuguchi | 119 (2016)<br>155103 | 2015A1441 | BL02B2 | 水口 佳一 | Compositional and Temperature Evolution of Crystal Structure of New Thermoelectric Compound LaOBi <sub>2-x</sub> Se <sub>x</sub>            |
|       |                     |                      | 2014B1003 | BL02B2 | 熊田 伸弘 |   |
|       |                     |                      | 2014B1071 | BL02B2 | 三浦 章  |   |
| 31364 | Ryota Takebe        | 119 (2016)<br>165304 | 2015B4906 | BL15XU | 木村 昭夫 | Evaluation of Band Offset at Amorphous-Si/BaSi <sub>2</sub> Interfaces by Hard X-ray Photoelectron Spectroscopy                             |
|       |                     |                      | 2015A4907 | BL15XU | 木村 昭夫 |   |
|       |                     |                      | 2014A4902 | BL15XU | 木村 昭夫 |   |

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|       |                    |                         |           |        |        |   |
|-------|--------------------|-------------------------|-----------|--------|--------|---|
| 30976 | Meicheng Wen       | 3 (2015)<br>14134-14141 | 2014A1045 | BL01B1 | 森 浩亮   | Synthesis of Ce Ions Doped Metal-Organic Frameworks for Promoting Catalytic H <sub>2</sub> Production from Ammonia Borane under Visible Light Irradiation |
| 30979 | Priyanka Verma     | 3 (2015)<br>18889-18897 | 2015A1149 | BL01B1 | 森 浩亮   | Synthesis and Characterization of a Pd/Ag Bimetallic Nanocatalysts on SBA-15 Mesoporous Silica as a Plasmonic Catalyst                                    |
| 31136 | Keiji Shimoda      | 4 (2016)<br>5909-5916   | 2013B7600 | BL28XU | 小久見 善八 | Oxidation Behaviour of Lattice Oxygen in Li-Rich Manganese-Based Layered Oxide Studied by Hard X-ray Photoelectron Spectroscopy                           |
|       |                    |                         | 2014B7600 | BL28XU | 小久見 善八 |   |
|       |                    |                         | 2015A7600 | BL28XU | 小久見 善八 |   |
| 31400 | Yoshinari Makimura | 4 (2016)<br>8350-8358   | 2014A7008 | BL33XU | 野中 敬正  | Factors Affecting Cycling Life of LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> for Lithium-Ion Batteries                      |
|       |                    |                         | 2014B7008 | BL33XU | 野中 敬正  |   |

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|           |                   |                     |           |     |                |   |
|-----------|-------------------|---------------------|-----------|-----|----------------|---|
| 30892     | Ian Robinson      | 48 (2015)<br>244007 | 2015A8029 | BL3 | Robinson Ian   | Towards Single Particle Imaging of Human Chromosomes at SACLA   |
| 31008     | Tomotaka Oroguchi | 48 (2015)<br>184003 | 2012B8037 | BL3 | 中迫 雅由          | Cryogenic Coherent X-ray Diffraction Imaging for Biological Non-crystalline Particles using the KOTOBUKI-1 Diffraction Apparatus at SACLA |
|           |                   |                     | 2013A8043 | BL3 | 中迫 雅由          |   |
|           |                   |                     | 2013B8049 | BL3 | 中迫 雅由          |   |
| 31414     | Jong Goo Kim      | 48 (2015)<br>244005 | 2012A8030 | BL3 | 足立 伸一          | Rotational Dephasing of a Gold Complex Probed by Anisotropic Femtosecond X-ray Solution Scattering using an X-ray Free-Electron Laser     |
|           |                   |                     | 2012A8038 | BL3 | Ihee Hyotcherl |   |
|           |                   |                     | 2012B8029 | BL3 | Ihee Hyotcherl |   |
|           |                   |                     | 2012B8043 | BL3 | 足立 伸一          |   |
|           |                   |                     | 2013A8053 | BL3 | 足立 伸一          |   |
|           |                   |                     | 2013B8036 | BL3 | Ihee Hyotcherl |   |
|           |                   |                     | 2013B8059 | BL3 | 足立 伸一          |   |
|           |                   |                     | 2014A8042 | BL3 | 足立 伸一          |   |
| 2014A8022 | BL3               | Ihee Hyotcherl      |           |     |                |   |

## Journal of Physics B: Atomic, Molecular and Optical Physics-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   |
|--------|--------------|---------------------|-----------|--------|----------------|--|
| 31442  | Daewoong Nam | 49 (2016)<br>034008 | 2012B8023 | BL3    | Song Changyong | Fixed Target Single-Shot Imaging of Nanostructures using Thin Solid Membranes at SACLA |
|        |              |                     | 2013A8028 | BL3    | Song Changyong |  |
|        |              |                     | 2013B8034 | BL3    | Song Changyong |  |
|        |              |                     | 2014A8020 | BL3    | Song Changyong |  |
|        |              |                     | 2014B8041 | BL3    | Song Changyong |  |

## Nature Communications

|       |                            |                   |           |         |       |  |
|-------|----------------------------|-------------------|-----------|---------|-------|--|
| 31097 | Benoit Mortemard de Boisse | 7 (2016)<br>11397 | 2013A1665 | BL02B2  | 西村 真一 | Intermediate Honeycomb Ordering to Trigger Oxygen Redox Chemistry in Layered Battery Electrode                         |
|       |                            |                   | 2014A1196 | BL02B2  | 西村 真一 |  |
|       |                            |                   | 2015A1503 | BL02B2  | 西村 真一 |  |
|       |                            |                   | 2015B1471 | BL27SU  | 原田 慈久 |  |
|       |                            |                   | 2015A7403 | BL07LSU | 原田 慈久 |  |
| 31201 | Akihiko Hirata             | 7 (2016)<br>11591 | 2013B1541 | BL04B2  | 平田 秋彦 | Atomic-Scale Disproportionation in Amorphous Silicon Monoxide  |
| 31368 | Yasunori Watanabe          | 6 (2015)<br>7922  | 2014A1169 | BL38B1  | 渡邊 康紀 | Structural and Mechanistic Insights into Phospholipid Transfer by Ups1-Mdm35 in Mitochondria                           |
|       |                            |                   | 2014B1364 | BL41XU  | 渡邊 康紀 |  |
| 31664 | Tetsuya Saito              | 7 (2016)<br>12030 | 2014A6952 | BL44XU  | 水島 恒裕 | p62/Sqstm1 Promotes Malignancy of HCV-positive Hepatocellular Carcinoma through Nrf2-dependent Metabolic Reprogramming |
|       |                            |                   | 2014B6952 | BL44XU  | 水島 恒裕 |  |

## Review of Scientific Instruments

|       |                 |                     |           |        |        |  |
|-------|-----------------|---------------------|-----------|--------|--------|--|
| 31155 | Ryuichi Nomura  | 87 (2016)<br>046105 | 2015A1640 | BL47XU | 野村 龍一  | High-pressure <i>in situ</i> X-ray Laminography using Diamond Anvil Cell   |
| 31183 | Amane Kobayashi | 87 (2016)<br>053109 | 2014A8033 | BL3    | 中迫 雅由  | TAKASAGO-6 Apparatus for Cryogenic Coherent X-ray Diffraction Imaging of Biological Non-crystalline Particles using X-ray Free Electron Laser at SACLA |
|       |                 |                     | 2015A8051 | BL3    | 中迫 雅由  |  |
| 31401 | Takayuki Ishii  | 87 (2016)<br>024501 | 2015A1359 | BL04B1 | 桂 智男   | Generation of Pressures over 40 GPa using Kawai-Type Multi-Anvil Press with Tungsten Carbide Anvils  |
|       |                 |                     | 2015B1196 | BL04B1 | 桂 智男   |  |
| 31438 | Ayana Sato      | 87 (2016)<br>063707 | 2015B1265 | BL39XU | 佐々木 裕次 | Development of an X-ray Fluorescence Holographic Measurement System for Protein Crystals   |
|       |                 |                     | 2015B1086 | BL39XU | 中村 照也  |  |
|       |                 |                     | 2015B1274 | BL39XU | 久保 稔   |  |

## Applied Physics Express

|       |                  |                    |           |        |       |   |
|-------|------------------|--------------------|-----------|--------|-------|---|
| 30897 | Hirotaka Kojima  | 8 (2015)<br>121301 | 2014A1590 | BL19B2 | 中村 雅一 | Giant Seebeck Effect in Pure Fullerene Thin Films   |
|       |                  |                    | 2015A1843 | BL19B2 | 阿部 竜  |   |
| 31153 | Ryohei Tanuma    | 7 (2014)<br>121303 | 2011B3321 | BL08B2 | 土田 秀一 | Three-Dimensional Imaging and Tilt-Angle Analysis of Dislocations in 4H-SiC by Two-Photon-Excited Band-Edge Photoluminescence |
|       |                  |                    | 2012A3321 | BL08B2 | 土田 秀一 |   |
|       |                  |                    | 2012B3321 | BL08B2 | 土田 秀一 |   |
|       |                  |                    | 2013A3321 | BL08B2 | 土田 秀一 |   |
|       |                  |                    | 2013B3321 | BL08B2 | 土田 秀一 |   |
|       |                  |                    | 2014A3321 | BL08B2 | 土田 秀一 |   |
| 31186 | Atsuhiko Nishida | 8 (2015)<br>111801 | 2015A1441 | BL02B2 | 水口 佳一 | High Thermoelectric Performance and Low Thermal Conductivity of Densified LaOBiSSe  |

## Biochemical and Biophysical Research Communications

|       |               |                       |           |        |       |   |
|-------|---------------|-----------------------|-----------|--------|-------|---|
| 30871 | Yota Fukuda   | 464 (2015)<br>622-628 | 2013A1866 | BL38B1 | 門 祐示  | Insights into Unknown Foreign Ligand in Copper Nitrite Reductase  |
|       |               |                       | 2013A1592 | BL38B1 | 福田 庸太 |   |
| 30984 | Takuya Uemura | 469 (2016)<br>158-163 | 2014A1855 | BL26B2 | 森本 幸生 | The Catalytic Mechanism of Decarboxylative Hydroxylation of Salicylate Hydroxylase Revealed by Crystal Structure Analysis at 2.5 Å Resolution |
|       |               |                       | 2013A6856 | BL44XU | 森本 幸生 |   |
|       |               |                       | 2013B6856 | BL44XU | 森本 幸生 |   |
|       |               |                       | 2014A6956 | BL44XU | 森本 幸生 |   |
| 31084 | Yuri Sogabe   | 473 (2016)<br>476-481 | 2014B6920 | BL44XU | 木下 誉富 | A Crucial Role of Cys218 in Configuring an Unprecedented Auto-Inhibition Form of MAP2K7   |
|       |               |                       | 2014B6700 | BL44XU | 大野 美恵 |   |

## Biochemistry-1

|       |                    |                        |           |        |       |  |
|-------|--------------------|------------------------|-----------|--------|-------|--|
| 31015 | Masayoshi Nakasako | 49 (2010)<br>6953-6962 | 2005B0380 | BL40B2 | 加藤 晃一 | Redox-Dependent Domain Rearrangement of Protein Disulfide Isomerase from a Thermophilic Fungus |
|-------|--------------------|------------------------|-----------|--------|-------|--|

## Biochemistry-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   |
|--------|-----------------------|------------------------|-----------|--------|-----------------------|--|
| 31077  | Yoshihiko Furuike     | 55 (2016)<br>1801-1812 | 2012B1203 | BL38B1 | 神谷 信夫                 | ADP-Ribose Pyrophosphatase Reaction in Crystalline State Conducted by Consecutive Binding of Two Manganese(II) Ions as Cofactors |
|        |                       |                        | 2013A1611 | BL38B1 | 古池 美彦                 |  |
|        |                       |                        | 2011B1482 | BL38B1 | 神谷 信夫                 |  |
| 31239  | Jeyakanthan Jeyaraman | 49 (2010)<br>2687-2696 | 2009A4000 | BL12B2 | Jeyaraman Jeyakanthan | Substrate Specificity Determinants of the Methanogen Homoacnitase Enzyme: Structure and Function of the Small Subunit            |
|        |                       |                        | 2009B4010 | BL12B2 | Jeyaraman Jeyakanthan |  |

## Bulletin of the Chemical Society of Japan

|       |                  |                        |           |        |       |   |
|-------|------------------|------------------------|-----------|--------|-------|---|
| 30873 | Shohei Yamashita | 88 (2015)<br>1629-1635 | 2013B1420 | BL28B2 | 稲田 康宏 | Kinetic Study on Solid-Phase Reduction of Silica-Supported Nickel Oxide Species   |
| 30916 | Hikaru Takaya    | 88 (2015)<br>410-418   | 2013B1717 | BL14B2 | 磯崎 勝弘 | Investigation of Organoiron Catalysis in Kumada-Tamao-Corriu-Type Cross-Coupling Reaction Assisted by Solution-Phase X-ray Absorption Spectroscopy      |
|       |                  |                        | 2014A1565 | BL14B2 | 磯崎 勝弘 |   |
|       |                  |                        | 2014B1654 | BL14B2 | 磯崎 勝弘 |   |
| 31062 | Munenori Numata  | 88 (2015)<br>471-479   | 2014B1133 | BL40B2 | 沼田 宗典 | Synchronized Activation of $\pi$ -Conjugated Molecules toward Self-Assembly: Precise Controlling the Hysteresis of the Metastable State along Microflow |

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|       |                    |                        |           |        |       |  |
|-------|--------------------|------------------------|-----------|--------|-------|--|
| 31039 | Shinichi Nishimura | 28 (2016)<br>2393-2399 | 2014A1196 | BL02B2 | 西村 真一 | High-Temperature Neutron and X-ray Diffraction Study of Fast Sodium Transport in Alluaudite-type Sodium Iron Sulfate   |
|       |                    |                        | 2015A1503 | BL02B2 | 西村 真一 |  |
| 31369 | Toyoki Okumura     | 27 (2015)<br>2839-2847 | 2013B1587 | BL19B2 | 奥村 豊旗 | Structural Changes in $\text{Li}_2\text{CoPO}_4\text{F}$ during Lithium-Ion Battery Reactions  |
|       |                    |                        | 2014A1461 | BL01B1 | 奥村 豊旗 |  |
| 31352 | Zhigang Hu         | 28 (2016)<br>2659-2667 | 2015B1546 | BL02B2 | 堀毛 悟史 | Direct Synthesis of Hierarchically Porous Metal–Organic Frameworks with High Stability and Strong Brønsted Acidity: The Decisive Role of Hafnium in Efficient and Selective Fructose Dehydration |

## Journal of Alloys and Compounds

|       |              |                       |           |        |                |   |
|-------|--------------|-----------------------|-----------|--------|----------------|---|
| 31140 | Yusuke Onuki | 653 (2015)<br>195-201 | 2014A1515 | BL28B2 | 藤枝 俊           | Local Stress Development in Polycrystalline Fe-17mol%Ga Alloy under Tensile Loading - In situ Measurement using Synchrotron X-ray Micro-Beam  |
| 31225 | Phuoc Huu Le | 679 (2016)<br>350-357 | 2012B4128 | BL12B2 | Jian Sheng-Rui | Nanomechanical, Structural, and Transport Properties of $\text{Bi}_3\text{Se}_2\text{Te}$ Thin Films  |
| 31422 | Guang Zeng   | 685 (2016)<br>471-482 | 2012B1440 | BL37XU | 野北 和宏          | The Influence of Ageing on the Stabilisation of Interfacial $(\text{Cu,Ni})_6(\text{Sn,Zn})_5$ and $(\text{Cu,Au,Ni})_6\text{Sn}_5$ Intermetallics in Pb-free Ball Grid Array (BGA) Solder Joints |
|       |              |                       | 2013B1524 | BL37XU | 野北 和宏          |   |

## Journal of Medicinal Chemistry

|       |                        |                        |           |        |           |  |
|-------|------------------------|------------------------|-----------|--------|-----------|--|
| 30966 | Yi-Hui Peng            | 59 (2016)<br>282-293   | 2013A4012 | BL12B2 | Wu Suying | Important Hydrogen Bond Networks in Indoleamine 2,3-Dioxygenase 1 (IDO1) Inhibitor Design Revealed by Crystal Structures of Imidazoleisoindole Derivatives with IDO1 |
| 30969 | Chih Hsiang Tu         | 59 (2016)<br>3906-3919 | 2013A4012 | BL12B2 | Wu Suying | Pyrazolylamine Derivatives Reveal the Conformational Switching between Type I and Type II Binding Modes of Anaplastic Lymphoma Kinase (ALK)                          |
| 31246 | Mohane Selvaraj Coumar | 53 (2010)<br>4980-4988 | 2008A4016 | BL12B2 | Wu Suying | Fast-Forwarding Hit to Lead: Aurora and Epidermal Growth Factor Receptor Kinase Inhibitor Lead Identification  |
|       |                        |                        | 2008B4008 | BL12B2 | Wu Suying |  |
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## The Journal of Physical Chemistry B-1

|       |                  |                           |           |        |       |   |
|-------|------------------|---------------------------|-----------|--------|-------|---|
| 31005 | Daisuke Matsuoka | 114 (2010)<br>4652-4663   | 1999A0240 | BL41XU | 中迫 雅由 | Prediction of Hydration Structures around Hydrophilic Surfaces of Proteins by Using the Empirical Hydration Distribution Functions from a Database Analysis |
|       |                  |                           | 1999B0056 | BL45XU | 中迫 雅由 |   |
|       |                  |                           | 2001A0349 | BL40B2 | 中迫 雅由 |   |
| 31006 | Daisuke Matsuoka | 113 (2009)<br>11274-11292 | 1999A0240 | BL41XU | 中迫 雅由 | Probability Distributions of Hydration Water Molecules around Polar Protein Atoms Obtained by a Database Analysis   |
|       |                  |                           | 1999B0056 | BL45XU | 中迫 雅由 |   |
|       |                  |                           | 2001A0349 | BL40B2 | 中迫 雅由 |   |
|       |                  |                           | 2003B0979 | BL38B1 | 中迫 雅由 |   |

The Journal of Physical Chemistry 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  |
|--------|-------------|-------------------------|-----------|--------|-------|---|
| 31306  | Soshi Saito | 120 (2016)<br>3378-3387 | 2011A1373 | BL35XU | 梅林 泰宏 | Li <sup>+</sup> Local Structure in Hydrofluoroether Diluted Li-Glyme Solvate Ionic Liquid |
|        |             |                         | 2012A1571 | BL04B2 | 土井 寛之 |   |
|        |             |                         | 2012A1669 | BL04B2 | 梅林 泰宏 |   |
|        |             |                         | 2012A1682 | BL04B2 | 上野 和英 |   |
|        |             |                         | 2012B1709 | BL04B2 | 土井 寛之 |   |

Journal of Physics: Condensed Matter

|       |                    |                     |           |        |                   |   |
|-------|--------------------|---------------------|-----------|--------|-------------------|---|
| 30799 | Shin-ichi Fujimori | 28 (2016)<br>153002 | 2009B3821 | BL23SU | 川崎 郁斗             | Band Structures of 4f and 5f Materials Studied by Angle-Resolved Photoelectron Spectroscopy   |
|       |                    |                     | 2010B3831 | BL23SU | 保井 晃              |   |
|       |                    |                     | 2011A3821 | BL23SU | 川崎 郁斗             |   |
|       |                    |                     | 2011B3831 | BL23SU | 保井 晃              |   |
| 30879 | Kirill Mitrofanov  | 26 (2014)<br>475502 | 2013B1271 | BL01B1 | Kolobov Alexander | Study of Band Inversion in the Pb <sub>x</sub> Sn <sub>1-x</sub> Te Class of Topological Crystalline Insulators using X-ray Absorption Spectroscopy               |
| 31393 | Shogo Kawaguchi    | 28 (2016)<br>296001 | 2014B1759 | BL02B2 | 河口 彰吾             | Suppression of Phase Transitions at Low Temperature by Chromium Substitution in Vanadium Spinel Fe(V <sub>1-x</sub> Cr <sub>x</sub> ) <sub>2</sub> O <sub>4</sub> |
|       |                    |                     | 2014A1645 | BL02B2 | 河口 彰吾             |   |
|       |                    |                     | 2015A1434 | BL02B2 | 河口 彰吾             |   |

Journal of Structural Biology

|       |                         |                       |           |        |                       |   |
|-------|-------------------------|-----------------------|-----------|--------|-----------------------|---|
| 31254 | Kuo-Wei Hung            | 170 (2010)<br>501-512 | 2008B4001 | BL12B2 | Hsiao Chwan Deng      | Structural Fold, Conservation and Fe(II) Binding of the Intracellular Domain of Prokaryote FeoB   |
| 31257 | Veerendra Kumar         | 176 (2011)<br>409-413 | 2010A4000 | BL12B2 | Jeyaraman Jeyakanthan | Structural Characterization of BVU_3255, a Methyltransferase from Human Intestine Antibiotic Resistant Pathogen <i>Bacteroides vulgatus</i>                                   |
|       |                         |                       | 2009B4010 | BL12B2 | Jeyaraman Jeyakanthan |   |
| 31268 | Vikramjeet Singh Tadwal | 180 (2012)<br>509-518 | 2009B4010 | BL12B2 | Jeyaraman Jeyakanthan | Relevance of the Conserved Histidine and Asparagine Residues in the Phosphate-Binding Loop of the Nucleotide Binding Subunit B of A <sub>1</sub> A <sub>0</sub> ATP Synthases |

Journal of Synchrotron Radiation

|       |                |                      |           |        |                |  |
|-------|----------------|----------------------|-----------|--------|----------------|--|
| 30919 | Kenji Tamasaku | 23 (2016)<br>331-333 | 2014A8004 | BL3    | 玉作 賢治          | Inline Spectrometer for Shot-by-Shot Determination of Pulse Energies of a Two-Color X-ray Free-Electron Laser                      |
| 31009 | Yuki Sekiguchi | 23 (2016)<br>312-323 | 2013A8043 | BL3    | 中迫 雅由          | Classification and Assessment of Retrieved Electron Density Maps in Coherent X-ray Diffraction Imaging using Multivariate Analysis |
|       |                |                      | 2013B8049 | BL3    | 中迫 雅由          |  |
|       |                |                      | 2014A8033 | BL3    | 中迫 雅由          |  |
| 31193 | Yi-Wei Tsai    | 23 (2016)<br>658-664 | 2015A4263 | BL12XU | Chang Shih Lin | Sapphire Hard X-ray Fabry-Perot Resonators for Synchrotron Experiments   |

Materials Transactions

|       |                 |  |           |        |       |   |
|-------|-----------------|--|-----------|--------|-------|---|
| 31091 | Hiroki Adachi   | (2016) online publication 15 Apr. 2016 | 2013A1243 | BL46XU | 足立 大樹 | Elastic and Plastic Deformation Behavior Studied by <i>In-Situ</i> Synchrotron X-ray Diffraction in Nanocrystalline   |
|       |                 |  | 2014B1019 | BL46XU | 足立 大樹 |   |
|       |                 |  | 2012B1863 | BL46XU | 足立 大樹 |   |
| 31309 | Nobuhiro Yasuda | 57 (2016)<br>1010-1013                 | 2012B1007 | BL40XU | 相澤 一也 | Measurement of Thermal Expansion Coefficient of 18R-Synchronized Long-Period Stacking Ordered Magnesium Alloy   |
|       |                 |  | 2013A1004 | BL40XU | 相澤 一也 |   |
|       |                 |  | 2013A1052 | BL40XU | 安田 伸広 |   |
|       |                 |  | 2013B1003 | BL40XU | 相澤 一也 |   |
|       |                 |  | 2013B1087 | BL40XU | 安田 伸広 |   |
|       |                 |  | 2014A1006 | BL40XU | 相澤 一也 |   |
|       |                 |  | 2014A1177 | BL40XU | 安田 伸広 |   |
|       |                 |  | 2014B1012 | BL40XU | 相澤 一也 |   |
|       |                 |  | 2014B1562 | BL40XU | 安田 伸広 |   |
|       |                 |  | 2015A1335 | BL40XU | 木村 滋  |   |
| 31310 | Kazuo Soda      | 57 (2016)<br>1040-1044                 | 2007B3872 | BL23SU | 曾田 一雄 | Angle-resolved Photoemission Analysis of Electronic Structures for Thermoelectric Properties of Off-stoichiometric Fe <sub>2-x</sub> V <sub>1+x</sub> Al Alloys |
|       |                 |  | 2008A3874 | BL23SU | 曾田 一雄 |   |
|       |                 |  | 2009B3877 | BL23SU | 曾田 一雄 |   |
|       |                 |  | 2010A3873 | BL23SU | 曾田 一雄 |   |

**Polymer 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   |
|-----------|-------------------|----------------------|-----------|--------|-------|--|
| 30867     | Itsuki Saito      | 48 (2016)<br>399-406 | 2014A7214 | BL03XU | 宮崎 司  | Orientation and Relaxation Behaviors of Lamellar Microdomains of Poly(methyl methacrylate)- <i>b</i> -poly( <i>n</i> -butyl acrylate) Thin Films as Revealed by Grazing-Incidence Small-Angle X-ray Scattering |
|           |                   |                      | 2014B7264 | BL03XU | 宮崎 司  |  |
|           |                   |                      | 2015A7214 | BL03XU | 宮崎 司  |  |
| 31360     | Ryosuke Nakanishi | 48 (2016)<br>801-806 | 2013A1277 | BL40B2 | 秋葉 勇  | Anomalous Small-Angle X-ray Scattering Study on the Spatial Distribution of Hydrophobic Molecules in Polymer Micelles  |
|           |                   |                      | 2014B1419 | BL40B2 | 秋葉 勇  |  |
|           |                   |                      | 2012B1528 | BL40B2 | 秋葉 勇  |  |
|           |                   |                      | 2013B1683 | BL40B2 | 木下 雅貴 |  |
| 2015A1791 | BL40B2            | 中西 亮輔                |           |        |       |  |
| 31385     | Keita Kuroiwa     | 48 (2016)<br>729-739 | 2015B1071 | BL40B2 | 櫻井 伸一 | Morphological Control of Hybrid Amphiphilic Poly(N-isopropylacrylamide)/metal Cyanide Complexes  |

**Transactions of the Materials Research Society of Japan**

|           |                 |                      |           |        |        |   |
|-----------|-----------------|----------------------|-----------|--------|--------|---|
| 31093     | Takashi Go      | 41 (2016)<br>109-112 | 2013A0089 | BL43IR | 岡村 英一  | Pressure Dependence of Far-Infrared Reflectance Spectra in Layered Iron Oxide $\text{LuFe}_2\text{O}_4$   |
|           |                 |                      | 2013A1056 | BL43IR | 溝口 幸司  |   |
| 31421     | Eiji Nishibori  | 40 (2015)<br>165-168 | 2009A0084 | BL02B2 | 久保田 佳基 | Element-Selective Visualization for Materials Science using Synchrotron X-ray Two-Wavelength Anomalous Powder Diffraction Data  |
| 31437     | Yasuhiro Yoneda | 41 (2016)<br>197-200 | 2014B3607 | BL14B1 | 米田 安宏  | Local Structure Analysis of $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$ , $\text{Bi}_{0.5}\text{Na}_{0.4}\text{Li}_{0.1}\text{TiO}_3$ , and $0.95\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3 \cdot 0.05\text{BaMn}_{1/3}\text{V}_{2/3}\text{O}_3$ |
|           |                 |                      | 2015A3620 | BL14B1 | 小舟 正文  |   |
|           |                 |                      | 2010A1068 | BL04B2 | 米田 安宏  |   |
|           |                 |                      | 2009B1084 | BL04B2 | 米田 安宏  |   |
| 2008A3602 | BL14B1          | 米田 安宏                |           |        |        |   |

**Advanced Materials**

|       |                   |                        |           |        |       |  |
|-------|-------------------|------------------------|-----------|--------|-------|--|
| 30981 | Hefeng Cheng      | 27 (2015)<br>4616-4621 | 2015A1149 | BL01B1 | 森 浩亮  | A Plasmonic Molybdenum Oxide Hybrid with Reversible Tunability for Visible-Light-Enhanced Catalytic Reactions                      |
| 31105 | Takuji Hatakeyama | 28 (2016)<br>2777-2781 | 2014B1815 | BL40XU | 高谷 光  | Ultrapure Blue Thermally Activated Delayed Fluorescence Molecules: Efficient HOMO-LUMO Separation by the Multiple Resonance Effect |
|       |                   |                        | 2015A1320 | BL40XU | 畠山 琢次 |  |

**AIP Conference Proceedings**

|       |                  |                        |           |        |                  |   |
|-------|------------------|------------------------|-----------|--------|------------------|---|
| 31083 | Martin Donnelley | 1696 (2016)<br>020011  | 2013A1706 | BL20XU | Donnelley Martin | Non-Invasive Airway Health Measurement Using Synchrotron X-Ray Microscopy of High Refractive Index Glass Microbeads |
|       |                  |                        | 2013B1734 | BL20XU | Donnelley Martin |   |
| 31292 | Haruo Mizutani   | 1365 (2011)<br>399-402 | 2009B1662 | BL47XU | 水谷 治央            | Nano-Resolution X-ray Tomography for Deciphering Wiring Diagram of Mammalian Brain                                  |
|       |                  |                        | 2010A1008 | BL47XU | 水谷 治央            |   |

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|       |                    |                         |           |        |       |  |
|-------|--------------------|-------------------------|-----------|--------|-------|--|
| 31100 | Kyoko N. Matsukage | 100 (2015)<br>1856-1865 | 2011B1365 | BL04B1 | 松影 香子 | Elastic Wave Velocity Anomalies of Anorthite in a Subducting Plate: In situ Experiments            |
| 31187 | Yuki Shibazaki     | 101 (2016)<br>1150-1160 | 2014A1472 | BL04B1 | 柴崎 裕樹 | Compressional and Shear Wave Velocities for Polycrystalline <i>bcc</i> -Fe up to 6.3 GPa and 800 K |
|       |                    |                         | 2014B1378 | BL04B1 | 柴崎 裕樹 |  |

**Applied Physics Letters**

|           |                 |                      |           |        |        |   |
|-----------|-----------------|----------------------|-----------|--------|--------|---|
| 31176     | Ichiro Fujii    | 108 (2016)<br>172903 | 2016A0074 | BL02B2 | 森吉 千佳子 | Electric Field Induced Lattice Strain in Pseudocubic $\text{Bi}(\text{Mg}_{1/2}\text{Ti}_{1/2})\text{O}_3$ -modified $\text{BaTiO}_3$ - $\text{BiFeO}_3$ Piezoelectric Ceramics |
|           |                 |                      | 2015A0074 | BL02B2 | 森吉 千佳子 |   |
|           |                 |                      | 2015B0074 | BL02B2 | 森吉 千佳子 |   |
| 31439     | Yoshitaka Ehara | 108 (2016)<br>212901 | 2005B0189 | BL13XU | 舟窪 浩   | Large Irreversible Non-180° Domain Switching after Poling Treatment in $\text{Pb}(\text{Zr}, \text{Ti})\text{O}_3$ Films  |
|           |                 |                      | 2006A1370 | BL13XU | 坂田 修身  |   |
|           |                 |                      | 2007A1349 | BL13XU | 舟窪 浩   |   |
|           |                 |                      | 2009A1356 | BL13XU | 舟窪 浩   |   |
|           |                 |                      | 2012A1309 | BL13XU | 舟窪 浩   |   |
| 2012B4904 | BL15XU          | 舟窪 浩                 |           |        |        |   |

**Catalysis Science & Technology-1**

|       |            |                       |           |        |        |   |
|-------|------------|-----------------------|-----------|--------|--------|---|
| 30918 | Zheng Wang | 6 (2016)<br>1025-1032 | 2014B1323 | BL01B1 | 寺村 謙太郎 | Tuning the Selectivity toward CO Evolution in the Photocatalytic Conversion of $\text{CO}_2$ with $\text{H}_2\text{O}$ through the Modification of Ag-Loaded $\text{Ga}_2\text{O}_3$ with a $\text{ZnGa}_2\text{O}_4$ Layer |
|-------|------------|-----------------------|-----------|--------|--------|---|

### Catalysis Science & Technology-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   |
|--------|-------------------|---------------------|-----------|--------|-------|--|
| 30975  | M. Navlani-Garcia | 5 (2015)<br>364-371 | 2013B1041 | BL01B1 | 森 浩亮  | Investigation of Pd Nanoparticles Supported on Zeolites for Hydrogen Production from Formic Acid Dehydrogenation |

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|       |                    |                       |           |        |       |   |
|-------|--------------------|-----------------------|-----------|--------|-------|---|
| 30888 | Toshihiko Fujimori | 649 (2016)<br>53-59   | 2013B1265 | BL02B2 | 藤森 利彦 | Red-emitting $\pi$ -conjugated Oligomers Infused Single-wall Carbon Nanotube Sheets   |
| 31288 | Koya Inagaki       | 618 (2015)<br>203-207 | 2013A6500 | BL44XU | 山下 栄樹 | Redox-dependent Conformational Transition of Catalytic Domain of Protein Disulfide Isomerase Indicated by Crystal Structure-based Molecular Dynamics Simulation |

### Clay Science

|       |           |                    |           |        |      |   |
|-------|-----------|--------------------|-----------|--------|------|---|
| 31407 | Ryo Sasai | 19 (2015)<br>67-71 | 2010A1287 | BL02B2 | 笹井 亮 | Thermodynamic Features of Anion-Exchange and Anion-Selectivity of Aluminum/Lithium-Layered Double Hydroxide                             |
|       |           |                    | 2010B1279 | BL02B2 | 笹井 亮 |   |
|       |           |                    | 2011B1703 | BL02B2 | 笹井 亮 |   |
|       |           |                    | 2012B1770 | BL02B2 | 笹井 亮 |   |
|       |           |                    | 2014A1715 | BL02B2 | 笹井 亮 |   |
| 31408 | Ryo Sasai | 19 (2015)<br>1-4   | 2010A1287 | BL02B2 | 笹井 亮 | Methanol Effect of Anion Exchange Properties of Layered Double Hydroxides Consisting of Magnesium and Aluminum (Magnesium/Aluminum = 2) |
|       |           |                    | 2010B1279 | BL02B2 | 笹井 亮 |   |
|       |           |                    | 2011B1703 | BL02B2 | 笹井 亮 |   |
|       |           |                    | 2012B1770 | BL02B2 | 笹井 亮 |   |

### Crystal Growth & Design

|       |                 |                        |           |        |                |  |
|-------|-----------------|------------------------|-----------|--------|----------------|--|
| 31172 | Masafumi Harada | 16 (2016)<br>2860-2873 | 2011B1338 | BL45XU | 原田 雅史          | In Situ Quick X-ray Absorption Fine Structure and Small-Angle X-ray Scattering Study of Metal Nanoparticle Growth in Water-in-Oil Microemulsions during Photoreduction |
| 31258 | Jou-Yin Fang    | 11 (2011)<br>2127-2134 | 2010A4004 | BL12B2 | Chen Chun Jung | Crystallization of Adenylylsulfate Reductase from <i>Desulfovibrio gigas</i> : A Strategy Based on Controlled Protein Oligomerization                                  |
|       |                 |                        | 2009B4002 | BL12B2 | Chen Chun Jung |  |

### FEBS Letters

|       |                    |                         |           |        |       |  |
|-------|--------------------|-------------------------|-----------|--------|-------|--|
| 31094 | Takenori Shibahara | 589 (2015)<br>1754-1760 | 2013A6844 | BL44XU | 平野 良憲 | Structure of the Free Form of the N-terminal VH1 Domain of Monomeric $\alpha$ -catenin   |
|       |                    |                         | 2013B6844 | BL44XU | 平野 良憲 |  |
|       |                    |                         | 2013B1288 | BL41XU | 平野 良憲 |  |
| 30874 | Masahiro Watanabe  | 589 (2015)<br>1200-1206 | 2014A6903 | BL44XU | 渡邊 真宏 | Crystal Structure of an Acetylsterase from <i>Talaromyces cellulolyticus</i> and the Importance of a Disulfide Bond Near the Active Site |

### High Pressure Research

|       |                   |                      |           |        |       |  |
|-------|-------------------|----------------------|-----------|--------|-------|--|
| 31189 | Yu Nishihara      | 36 (2016)<br>121-139 | 2015A0075 | BL04B1 | 入船 徹男 | Determination of Pressure Effect on Thermocouple Electromotive Force using Multi-Anvil Apparatus               |
| 31163 | Takehiro Kunimoto | 36 (2016)<br>97-104  | 2010B2063 | BL04B1 | 國本 健広 | Pressure Generation to 50 GPa in Kawai-type Multianvil Apparatus using Newly Developed Tungsten Carbide Anvils |
|       |                   |                      | 2011B2096 | BL04B1 | 國本 健広 |  |
|       |                   |                      | 2013A1364 | BL04B1 | 國本 健広 |  |
|       |                   |                      | 2012A1080 | BL04B1 | 國本 健広 |  |
|       |                   |                      | 2015A2064 | BL04B1 | 丹下 慶範 |  |

### Hyperfine Interactions

|       |              |               |           |        |       |   |
|-------|--------------|---------------|-----------|--------|-------|---|
| 30887 | Makina Saito | 237 (2016) 22 | 2014B1061 | BL09XU | 瀬戸 誠  | Slow Dynamics in Glycerol: Collective de Gennes Narrowing and Independent Angstrom Motion                                       |
| 30917 | Rie Haruki   | 237 (2016) 71 | 2013B1348 | BL09XU | 岸本 俊二 | Dynamics of Iodine Anions in KI and LiI Aqueous Solutions Studied by $^{127}\text{I}$ Nuclear Resonant Quasi-Elastic Scattering |

### IEEE Transactions on Magnetics

|       |                  |                      |           |        |       |  |
|-------|------------------|----------------------|-----------|--------|-------|--|
| 30949 | Yuki Matsumoto   | 51 (2015)<br>2100704 | 2014B1270 | BL39XU | 岡本 聡  | Large Negative Magnetic Anisotropy of W/Fe/W (001) Epitaxial Trilayers                                     |
| 31104 | Takashi Hasegawa | 50 (2014)<br>2302004 | 2013A1646 | BL39XU | 石尾 俊二 | Nanoscale Composition Control Applied on $L1_0$ FePtRh Film for Dot Patterning Using Magnetic Phase Change |



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   |
|--------|---------------|---------------------|-----------|--------|--------------|--|
| 30911  | Ian Robinson  | 2 (2015)<br>477-478 | 2015A8029 | BL3    | Robinson Ian | Coherent Three-dimensional X-ray Cryo-imaging  |
| 31171  | Ryohei Ishige | 3 (2016)<br>211-218 | 2013B1440 | BL40B2 | 高原 淳         | <i>In situ</i> Ultra-Small-Angle X-ray Scattering Study under Uniaxial Stretching of Colloidal Crystals Prepared by Silica Nanoparticles Bearing Hydrogen-Bonding Polymer Grafts |
|        |               |                     | 2013B1529 | BL19B2 | 高原 淳         |  |

The Journal of Chemical Physics

|       |                  |                      |           |        |       |  |
|-------|------------------|----------------------|-----------|--------|-------|--|
| 30850 | Koji Yoshida     | 144 (2016)<br>134505 | 2011A1075 | BL35XU | 吉田 亨次 | Structure and Collective Dynamics of Hydrated Anti-freeze Protein Type III from 180 K to 298 K by X-ray Diffraction and Inelastic X-ray Scattering |
|       |                  |                      | 2011B1349 | BL35XU | 吉田 亨次 |  |
| 31121 | Hiroyuki Shimada | 142 (2015)<br>175102 | 2013A3810 | BL23SU | 横谷 明德 | Nitrogen K-edge X-ray Absorption Near Edge Structure of Pyrimidine-Containing Nucleotides in Aqueous Solution                                      |
|       |                  |                      | 2012B3810 | BL23SU | 横谷 明德 |  |

Journal of Electron Spectroscopy and Related Phenomena

|       |                    |                     |           |        |       |  |
|-------|--------------------|---------------------|-----------|--------|-------|--|
| 30988 | Hidetoshi Miyazaki | 206 (2016)<br>18-23 | 2014A1485 | BL27SU | 宮崎 秀俊 | Electronic and Crystal Structures of Thermoelectric CaMgSi Intermetallic Compound  |
|       |                    |                     | 2014A1160 | BL47XU | 曾田 一雄 |  |
|       |                    |                     | 2013B1783 | BL02B2 | 宮崎 秀俊 |  |
|       |                    |                     | 2014A1494 | BL02B2 | 宮崎 秀俊 |  |
| 31291 | Xeniya Kozina      | 211 (2016)<br>12-18 | 2012A1803 | BL09XU | 池永 英司 | Development of Hard X-ray Photoelectron SPLEED-based Spectrometer Applicable for Probing of Buried Magnetic Layer Valence States |

Journal of Hazardous Materials

|       |                  |                       |           |        |       |   |
|-------|------------------|-----------------------|-----------|--------|-------|---|
| 31345 | Takashi Fujimori | 311 (2016)<br>43-50   | 2012B1046 | BL01B1 | 藤森 崇  | Synergetic Inhibition of Thermochemical Formation of Chlorinated Aromatics by Sulfur and Nitrogen Derived from Thiourea: Multielement Characterizations |
|       |                  |                       | 2012B1192 | BL01B1 | 藤森 崇  |   |
|       |                  |                       | 2012B1359 | BL01B1 | 高岡 昌輝 |   |
| 31635 | Satoshi Takeuchi | 317 (2016)<br>602-607 | 2014B1320 | BL37XU | 橋本 洋平 | Chemical Speciation and Enzymatic Impact of Silver in Antimicrobial Fabric Buried in Soil   |
|       |                  |                       | 2015B1131 | BL37XU | 橋本 洋平 |   |

Journal of Solid State Chemistry

|       |                  |                       |           |        |              |  |
|-------|------------------|-----------------------|-----------|--------|--------------|--|
| 31173 | Yoshiro Kususe   | 239 (2016)<br>192-199 | 2015A1551 | BL02B2 | 藤田 晃司        | Structural Phase Transitions in EuNbO <sub>3</sub> Perovskite  |
| 31574 | Kazunari Yamaura | 236 (2016)<br>45-54   | 2015B1267 | BL02B2 | 藤田 晃司        | Short Review of High-Pressure Crystal Growth and Magnetic and Electrical Properties of Solid-State Osmium Oxides |
|       |                  |                       | 2012B4506 | BL15XU | 山浦 一成        |  |
|       |                  |                       | 2013A4504 | BL15XU | 山浦 一成        |  |
|       |                  |                       | 2013B4503 | BL15XU | 山浦 一成        |  |
|       |                  |                       | 2014A4504 | BL15XU | 辻本 吉廣        |  |
|       |                  |                       | 2014B4501 | BL15XU | 山浦 一成        |  |
|       |                  |                       | 2015A4502 | BL15XU | Belik Alexei |  |

Journal of the Electrochemical Society

|       |                            |                           |           |        |       |  |
|-------|----------------------------|---------------------------|-----------|--------|-------|--|
| 31399 | Yoshinari Makimura         | 163 (2016)<br>A1450-A1456 | 2013A7008 | BL33XU | 野中 敬正 | Studying the Charging Process of a Lithium-Ion Battery toward 10 V by In Situ X-ray Absorption and Diffraction: Lithium Insertion/Extraction with Side Reactions at Positive and Negative Electrodes |
|       |                            |                           | 2013B7008 | BL33XU | 野中 敬正 |  |
|       |                            |                           | 2014A7008 | BL33XU | 野中 敬正 |  |
| 31200 | Benoit Mortemard de Boisse | 163 (2016)<br>A1469-A1473 | 2015A1503 | BL02B2 | 西村 真一 | Alkaline Excess Strategy to NASICON-Type Compounds towards Higher-Capacity Battery Electrodes  |

Macromolecules

|       |                   |                        |           |        |        |   |
|-------|-------------------|------------------------|-----------|--------|--------|---|
| 30864 | Masanao Sato      | 49 (2016)<br>2071-2076 | 2013B1171 | BL40B2 | 高原 淳   | Precise Synthesis of Poly(methyl methacrylate) Brush with Well-Controlled Stereoregularity Using a Surface-Initiated Living Anionic Polymerization Method |
|       |                   |                        | 2014A1228 | BL02B2 | 高原 淳   |   |
|       |                   |                        | 2014A1222 | BL40B2 | 高原 淳   |   |
|       |                   |                        | 2014B1286 | BL40B2 | 高原 淳   |   |
| 31150 | Rintaro Takahashi | 49 (2016)<br>3091-3099 | 2014B1715 | BL40B2 | 高橋 倫太郎 | Reversible Vesicle-Spherical Micelle Transition in a Polyion Complex Micellar System Induced by Changing the Mixing Ratio of Copolymer Components         |
|       |                   |                        | 2015A1804 | BL40B2 | 高橋 倫太郎 |   |
|       |                   |                        | 2015B1674 | BL40B2 | 高橋 倫太郎 |   |

### Materials Research 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  |
|--------|----------------|--------------------|-----------|--------|--------|---|
| 31157  | Yasukata Tsuda | 3 (2016)<br>035014 | 2015A3870 | BL23SU | 岡田 美智雄 | Surface Temperature Dependence of Oxidation of Cu <sub>3</sub> Au(111) by an Energetic Oxygen Molecule    |
|        |                |                    | 2014B3870 | BL23SU | 岡田 美智雄 |   |
|        |                |                    | 2014A3870 | BL23SU | 岡田 美智雄 |   |
| 31403  | Seiya Shimono  | 3 (2016)<br>066101 | 2014A1429 | BL02B2 | 久保田 佳基 | Phase Transitions and Off-Stoichiometric Effects of Vanadium Spinel Oxide CoV <sub>2</sub> O <sub>4</sub> |
|        |                |                    | 2014B1521 | BL02B2 | 久保田 佳基 |   |
|        |                |                    | 2014B1759 | BL02B2 | 河口 彰吾  |   |

### Molecular Microbiology

|       |                            |   |           |        |       |   |
|-------|----------------------------|---|-----------|--------|-------|---|
| 30893 | Emmanuel Oluwadare Balogun | 94 (2014)<br>1315-1329                            | 2013A6843 | BL44XU | 原田 繁春 | Molecular Basis for the Reverse Reaction of African Human Trypanosomes Glycerol Kinase  |
|       |                            |   | 2013B6843 | BL44XU | 原田 繁春 |   |
| 31212 | Miki Kinoshita             | (2016)<br>Accepted manuscript online: 13 May 2016 | 2011B1604 | BL41XU | 今田 勝巳 | Rearrangements of $\alpha$ -helical Structures of FlgN Chaperone Control the Binding Affinity for its Cognate Substrates during Flagellar Type III Export |
|       |                            |   | 2013B1305 | BL41XU | 今田 勝巳 |   |

### Nature

|           |            |                       |           |        |       |  |
|-----------|------------|-----------------------|-----------|--------|-------|--|
| 31374     | Kenji Ohta | 534 (2016)<br>95-98   | 2012B1131 | BL10XU | 太田 健二 | Experimental Determination of the Electrical Resistivity of Iron at Earth's Core Condition |
|           |            |                       | 2012B1212 | BL10XU | 桑山 靖弘 |  |
|           |            |                       | 2009A0087 | BL10XU | 廣瀬 敬  |  |
|           |            |                       | 2014A0080 | BL10XU | 廣瀬 敬  |  |
| 31489     | Yuu Hirano | 534 (2016)<br>281-284 | 2015B1041 | BL41XU | 竹田 一旗 | Charge-Density Analysis of an Iron-Sulfur Protein at an Ultra-High Resolution of 0.48 Å    |
|           |            |                       | 2014B1975 | BL26B1 | 竹田 一旗 |  |
|           |            |                       | 2010B1284 | BL41XU | 竹田 一旗 |  |
|           |            |                       | 2010A1237 | BL41XU | 竹田 一旗 |  |
|           |            |                       | 2009A1264 | BL41XU | 竹田 一旗 |  |
|           |            |                       | 2008B1337 | BL41XU | 竹田 一旗 |  |
|           |            |                       | 2008A1449 | BL41XU | 竹田 一旗 |  |
|           |            |                       | 2007B2047 | BL41XU | 竹田 一旗 |  |
| 2015B1037 | BL41XU     | 竹田 一旗                 |           |        |       |  |

### Physica Status Solidi B

|       |                     |                         |           |        |                     |   |
|-------|---------------------|-------------------------|-----------|--------|---------------------|---|
| 31090 | Charith Jayathilaka | 253 (2016)<br>765-769   | 2013B1207 | BL04B2 | Kumara Rosantha     | Annealing Effects of the Untreated and Sulfur-Treated Electrodeposited n-type and p-type Cuprous Oxide Thin Films |
|       |                     |                         | 2014A1321 | BL04B2 | 坂田 修身               |   |
|       |                     |                         | 2014B1434 | BL04B2 | Jayathilaka Charith |   |
| 31417 | Jens Stelhorn       | 253 (2016)<br>1038-1045 | 2014A1624 | BL13XU | Stelhorn Jens       | Short- and Intermediate-Range Order in Amorphous GeTe   |
|       |                     |                         | 2014B1733 | BL13XU | Stelhorn Jens       |   |

### Physical Chemistry Chemical Physics

|       |                 |                          |           |        |       |  |
|-------|-----------------|--------------------------|-----------|--------|-------|--|
| 30982 | Kohsuke Mori    | 17 (2015)<br>24086-24091 | 2013B1041 | BL01B1 | 森 浩亮  | Nickel-Supported Carbon Nitride Photocatalyst Combined with Organic Dye for Visible-Light-Driven Hydrogen Evolution from Water |
|       |                 |                          | 2014A1045 | BL01B1 | 森 浩亮  |  |
| 31107 | Katsuro Hayashi | 18 (2016)<br>8186-8195   | 2013A4710 | BL15XU | 大橋 直樹 | Green Apatites: Hydride Ions, Electrons and Their Interconversion in the Crystallographic Channel                              |

### Physics and Chemistry of Minerals

|       |                 |                      |           |        |                 |  |
|-------|-----------------|----------------------|-----------|--------|-----------------|--|
| 30811 | Ayako Shinozaki | 43 (2016)<br>277-285 | 2014A1038 | BL43IR | 篠崎 彩子           | Preferential Dissolution of SiO <sub>2</sub> from Enstatite to H <sub>2</sub> Fluid under High Pressure and Temperature                    |
| 31180 | Shuangmeng Zhai | 43 (2016)<br>307-314 | 2013B1257 | BL04B1 | Zhai Shuangmeng | High-Pressure X-ray Diffraction and Raman Spectroscopy of CaFe <sub>2</sub> O <sub>4</sub> -type $\beta$ -CaCr <sub>2</sub> O <sub>4</sub> |
|       |                 |                      | 2014A1736 | BL04B1 | Zhai Shuangmeng |  |

### Structural Dynamics-1

|       |                 |                    |           |        |       |   |
|-------|-----------------|--------------------|-----------|--------|-------|---|
| 31359 | Tetsuo Katayama | 3 (2016)<br>034301 | 2014B8071 | BL3    | 片山 哲夫 | A Beam Branching Method for Timing and Spectral Characterization of Hard X-ray Free-Electron Lasers |
|       |                 |                    | 2014A8053 | BL3    | 片山 哲夫 |   |
|       |                 |                    | 2013B8072 | BL3    | 片山 哲夫 |   |
|       |                 |                    | 理研        | BL29XU |       |   |

### Structural Dynamics-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   |
|-----------|----------------|--------------------|-----------|--------|----------------|--|
| 31415     | Kyung Hwan Kim | 3 (2016)<br>043209 | 2013A8053 | BL3    | 足立 伸一          | Femtosecond X-ray Solution Scattering Reveals that Bond Formation Mechanism of a Gold Trimer Complex is Independent of Excitation Wavelength |
|           |                |                    | 2013B8036 | BL3    | Ihee Hyotcherl |  |
|           |                |                    | 2013B8059 | BL3    | 足立 伸一          |  |
|           |                |                    | 2014A8042 | BL3    | 足立 伸一          |  |
|           |                |                    | 2014A8022 | BL3    | Ihee Hyotcherl |  |
|           |                |                    | 2015A8058 | BL3    | 足立 伸一          |  |
| 2015B8055 | BL3            | 足立 伸一              |           |        |                |  |

### Structure

|       |               |                      |           |        |       |  |
|-------|---------------|----------------------|-----------|--------|-------|--|
| 31053 | Kazuki Kato   | 23 (2015)<br>843-850 | 2014B1150 | BL41XU | 石井 亮平 | Structural Basis for the Catalytic Mechanism of DncV, Bacterial Homolog of Cyclic GMP-AMP Synthase |
| 31284 | Tadashi Satoh | 22 (2014)<br>731-743 | 2011B6500 | BL44XU | 山下 栄樹 | Structural Basis for Proteasome Formation Controlled by an Assembly Chaperone Nas2                 |

### The Journal of Chemical Physics

|       |                  |                      |           |        |       |   |
|-------|------------------|----------------------|-----------|--------|-------|---|
| 30850 | Koji Yoshida     | 144 (2016)<br>134505 | 2011A1075 | BL35XU | 吉田 亨次 | Structure and Collective Dynamics of Hydrated Antifreeze Protein Type III from 180 K to 298 K by X-ray Diffraction and Inelastic X-ray Scattering |
|       |                  |                      | 2011B1349 | BL35XU | 吉田 亨次 |   |
| 31121 | Hiroyuki Shimada | 142 (2015)<br>175102 | 2013A3810 | BL23SU | 横谷 明德 | Nitrogen K-edge X-ray Absorption Near Edge Structure of Pyrimidine-Containing Nucleotides in Aqueous Solution                                     |
|       |                  |                      | 2012B3810 | BL23SU | 横谷 明德 |   |

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

|       |                    |                    |           |        |       |  |
|-------|--------------------|--------------------|-----------|--------|-------|--|
| 31147 | Kazuhiro Fuchizaki | 58 (2016)<br>42-47 | 2015A3785 | BL22XU | 淵崎 員弘 | Second Critical Phenomena Expected in Tin Tetraiodide                                      |
| 31427 | Ayano Chiba        | 58 (2016)<br>48-53 | 2014B1425 | BL04B2 | 千葉 文野 | Intermediate-Range Order in Structurally Disordered Systems: Voids and Pressure Dependence |
|       |                    |                    | 2010A1382 | BL10XU | 千葉 文野 |  |
|       |                    |                    | 2010B1428 | BL10XU | 千葉 文野 |  |

### 炭素 (Tanso)

|       |                    |                       |           |        |       |  |
|-------|--------------------|-----------------------|-----------|--------|-------|--|
| 31164 | Tomonori Ohba      | 2014 (2014)<br>91-103 | 2013A1030 | BL04B2 | 大場 友則 | Water and Hydrate Structures in Carbon Nanopores   |
|       |                    |                       | 2012B1070 | BL04B2 | 大場 友則 |  |
|       |                    |                       | 2012A1152 | BL02B2 | 大場 友則 |  |
| 31630 | Toshihiko Fujimori | 273 (2016)<br>89-95   | 2012B1064 | BL02B2 | 藤森 利彦 | Carbon Nanotube-Template Synthesis of Artificial One-dimensional Conductors using Chalcogen Elements |

### ACS Central Science

|       |              |                     |           |        |       |   |
|-------|--------------|---------------------|-----------|--------|-------|---|
| 31056 | Selvan Demir | 2 (2016)<br>253-265 | 2012B3613 | BL14B1 | 矢板 毅  | Extraction of Lanthanide and Actinide Ions from Aqueous Mixtures Using a Carboxylic Acid-Functionalized Porous Aromatic Framework |
|       |              |                     | 2013B3504 | BL11XU | 塩飽 秀啓 |   |
|       |              |                     | 2013B3613 | BL14B1 | 矢板 毅  |   |

### ACS Nano

|       |                  |                        |           |        |       |   |
|-------|------------------|------------------------|-----------|--------|-------|---|
| 30901 | Takashi Tsuchiya | 10 (2016)<br>1655-1661 | 2014B4601 | BL15XU | 土屋 敬志 | <i>In Situ</i> Tuning of Magnetization and Magnetoresistance in Fe <sub>3</sub> O <sub>4</sub> Thin Film Achieved with All-Solid-State Redox Device |
|-------|------------------|------------------------|-----------|--------|-------|---|

### Acta Biomaterialia

|       |             |                      |           |        |       |   |
|-------|-------------|----------------------|-----------|--------|-------|---|
| 31115 | Manami Mori | 28 (2015)<br>215-224 | 2014A3781 | BL22XU | 佐藤 成男 | Strengthening of Biomedical Ni-free Co-Cr-Mo Alloy by Multipass "Low-Strain-per-Pass" Thermomechanical Processing |
|-------|-------------|----------------------|-----------|--------|-------|---|

### Acta Crystallographica Section A

|       |               |                      |           |     |       |   |
|-------|---------------|----------------------|-----------|-----|-------|---|
| 30815 | Yuki Takayama | 72 (2016)<br>179-189 | 2012A8010 | BL3 | 米倉 功治 | Cryogenic Coherent X-ray Diffraction Imaging of Biological Samples at SACLA: A Correlative Approach with Cryo-Electron and Light Microscopy |
|       |               |                      | 2012B8037 | BL3 | 中迫 雅由 |   |
|       |               |                      | 2013A8043 | BL3 | 中迫 雅由 |   |
|       |               |                      | 2013B8049 | BL3 | 中迫 雅由 |   |
|       |               |                      | 2014A8033 | BL3 | 中迫 雅由 |   |
|       |               |                      | 2014B8052 | BL3 | 中迫 雅由 |   |

**Acta Crystallographica Section 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  |
|--------|-----------------|------------------------|-----------|--------|--------|---|
| 30914  | Takanori Nakane | 71 (2015)<br>2519-2525 | 2013B8045 | BL3    | 岩田 想   | Native Sulfur/Chlorine SAD Phasing for Serial Femtosecond Crystallography |
|        |                 |                        | 2014A8032 | BL3    | 岩田 想   |   |
|        |                 |                        | 2014B8050 | BL3    | 岩田 想   |   |
|        |                 |                        | 2014B8051 | BL3    | 南後 恵理子 |   |

**Acta Materialia**

| 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   |
|--------|---------------|-----------------------|-----------|--------|-------|--|
| 30856  | Hiroyuki Toda | 107 (2016)<br>310-324 | 2015A0076 | BL20XU | 戸田 裕之 | Diffraction-Amalgamated Grain Boundary Tracking for Mapping 3D Crystallographic Orientation and Strain Fields during Plastic Deformation |
|        |               |                       | 2014B1156 | BL20XU | 戸田 裕之 |  |
|        |               |                       | 2011B1116 | BL20XU | 戸田 裕之 |  |

**Advanced Electronic 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  |
|--------|-------------------|-----------------------|-----------|--------|------------|---|
| 30848  | Margaret Cosgriff | 2 (2016)<br>201500204 | 2012B1551 | BL13XU | Evans Paul | Nanosecond Phase Transition Dynamics in Compressively Strained Epitaxial BiFeO <sub>3</sub> |
|        |                   |                       | 2012A1105 | BL13XU | Evans Paul |   |

**Advances in Materials Science and Engineering**

| 研究成果番号 | 主著者            | 雑誌情報                   | 課題番号      | ビームライン | 実験責任者 | タイトル  |
|--------|----------------|------------------------|-----------|--------|-------|---|
| 31114  | Hiroshi Suzuki | 2016 (2016)<br>8936084 | 2013B3724 | BL22XU | 鈴木 裕士 | Nanostructural Deformation Analysis of Calcium Silicate Hydrate in Portland Cement Paste by Atomic Pair Distribution Function |
|        |                |                        | 2014A3724 | BL22XU | 鈴木 裕士 |   |
|        |                |                        | 2014B3724 | BL22XU | 鈴木 裕士 |   |

**Analytical Sciences**

| 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   |
|--------|-------------------|----------------------|-----------|--------|-------|--|
| 31031  | Atsushi Funatsuki | 32 (2016)<br>207-213 | 2013A1733 | BL01B1 | 船附 淳志 | Forensic Identification of Automobile Window Glass Manufacturers in Japan Based on the Refractive Index, X-ray Fluorescence, and X-ray Absorption Fine Structure |
|        |                   |                      | 2012B1108 | BL14B2 | 船附 淳志 |  |

**Angewandte Chemie**

| 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   |
|--------|-------------|-----------------------|-----------|--------|-------------|--|
| 31256  | Hsing-Ju Wu | 122 (2010)<br>347-350 | 2009A4003 | BL12B2 | Wang Andrew | Structural Basis of $\alpha$ -Fucosidase Inhibition by Iminocyclitols with $K_i$ Values in the Micro- to Picomolar Range |
|        |             |                       | 2009B4009 | BL12B2 | Wang Andrew |  |

**Antiviral Research**

| 研究成果番号 | 主著者            | 雑誌情報                | 課題番号      | ビームライン | 実験責任者            | タイトル  |
|--------|----------------|---------------------|-----------|--------|------------------|---|
| 31270  | Chung-ke Chang | 103 (2014)<br>39-50 | 2008B4001 | BL12B2 | Hsiao Chwan Deng | The SARS Coronavirus Nucleocapsid Protein - Forms and Functions |

**Annual Review of Plant Biology**

| 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   |
|--------|---------------|--------------------|-----------|--------|-------|--|
| 31380  | Jian-Ren Shen | 66 (2015)<br>23-48 | 2012A1245 | BL41XU | 沈 建仁  | The Structure of Photosystem II and the Mechanism of Water Oxidation in Photosynthesis |
|        |               |                    | 2012B1399 | BL41XU | 沈 建仁  |  |
|        |               |                    | 2013A1166 | BL41XU | 沈 建仁  |  |
|        |               |                    | 2013B1259 | BL41XU | 沈 建仁  |  |
|        |               |                    | 2014A1243 | BL41XU | 沈 建仁  |  |
|        |               |                    | 2014B1281 | BL41XU | 沈 建仁  |  |
|        |               |                    | 2014B8048 | BL3    | 沈 建仁  |  |

**Applied Microbiology and Biotechnology**

| 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   |
|--------|-------------|------------------------|-----------|--------|-------|--|
| 31479  | Yukari Ohta | 98 (2014)<br>6667-6677 | 2011A1881 | BL26B2 | 殿塚 隆史 | Enhancing Thermostability and the Structural Characterization of <i>Microbacterium saccharophilum</i> K-1, $\beta$ -fructofuranosidase |

**Applied 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  |
|--------|----------------|-----------------------|-----------|--------|-----------------|---|
| 31264  | Hong-Ying Chen | 338 (2015)<br>113-119 | 2013A4132 | BL12B2 | Lee Jiann-Shing | Crednerite-CuMnO <sub>2</sub> Thin Films Prepared using Atmospheric Pressure Plasma Annealing |

**ASME Proceedings**

| 研究成果番号 | 主著者                | 雑誌情報                      | 課題番号      | ビームライン | 実験責任者 | タイトル   |
|--------|--------------------|---------------------------|-----------|--------|-------|--|
| 31641  | Hiroyuki Tsuritani | (2015)<br>IPACK2015-48553 | 2014A1521 | BL20XU | 岡本 佳之 | Nondestructive Observation of Thermal Fatigue Crack Propagation in FBGA and Die Attached Solder Joints by Synchrotron Radiation X-Ray Laminography |
|        |                    |                           | 2009B1134 | BL20XU | 釣谷 浩之 |  |
|        |                    |                           | 2011A1198 | BL20XU | 釣谷 浩之 |  |

### Biochimica et Biophysica Acta - Molecular Basis of Disease

| 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  |
|--------|-----------|--------------------------|-----------|--------|---------------|---|
| 31217  | Chun Chan | 1862 (2016)<br>1453-1458 | 2013A1109 | BL45XU | Ochala Julien | Myopathy-inducing Mutation H40Y in <i>ACTA1</i> Hampers Actin Filament Structure and Function |
|        |           |                          | 2013B1075 | BL45XU | Ochala Julien |   |
|        |           |                          | 2015A1145 | BL40XU | Ochala Julien |   |

### Biomacromolecules

|       |                |                        |           |        |       |  |
|-------|----------------|------------------------|-----------|--------|-------|--|
| 30851 | Taiyo Yoshioka | 17 (2016)<br>1437-1448 | 2014B1027 | BL40B2 | 吉岡 太陽 | Molecular Orientation Enhancement of Silk by the Hot-Stretching-Induced Transition from $\alpha$ -Helix-HFIP Complex to $\beta$ -Sheet |
|       |                |                        | 2015B1184 | BL40B2 | 吉岡 太陽 |  |

### Calphad

|       |                 |                   |           |        |       |  |
|-------|-----------------|-------------------|-----------|--------|-------|--|
| 30855 | Norbert Mattern | 52 (2016)<br>8-20 | 2014B1108 | BL04B2 | 水野 章敏 | Experimental and Thermodynamic Assessment of the La-Ti and La-Zr Systems |
|-------|-----------------|-------------------|-----------|--------|-------|--|

### Carbohydrate Polymers

|       |                  |                     |           |        |       |  |
|-------|------------------|---------------------|-----------|--------|-------|--|
| 31344 | Yoshiaki Yuguchi | 147 (2016)<br>69-78 | 2014A1816 | BL19B2 | 湯口 宜明 | Primary Structure, Conformation in Aqueous Solution, and Intestinal Immunomodulating Activity of Fucoidan from Two Brown Seaweed Species <i>Sargassum crassifolium</i> and <i>Padina australis</i> |
|-------|------------------|---------------------|-----------|--------|-------|--|

### Catalysis Letters

|       |                 |                         |           |        |       |   |
|-------|-----------------|-------------------------|-----------|--------|-------|---|
| 31492 | Satoshi Kameoka | 146 (2016)<br>1309-1316 | 2015B4900 | BL15XU | 亀岡 聡  | One-Step Synthesis of a High Performance Pt-Fe <sub>3</sub> O <sub>4</sub> Catalyst: Intermetallic Al <sub>13</sub> Fe <sub>4</sub> as a Platform and Precursor |
|       |                 |                         | 2015A4901 | BL15XU | 藤田 伸尚 |   |
|       |                 |                         | 2015A4900 | BL15XU | 小廣 和哉 |   |
|       |                 |                         | 2014B4901 | BL15XU | 亀岡 聡  |   |
|       |                 |                         | 2014A4900 | BL15XU | 小廣 和哉 |   |

### Cellulose

|       |                 |                        |           |        |       |  |
|-------|-----------------|------------------------|-----------|--------|-------|--|
| 31075 | Hitomi Miyamoto | 23 (2016)<br>2099-2115 | 2013B1073 | BL40B2 | 山根 千弘 | Structure of Cellulose/Direct Dye Complex Regenerated from Supercritical Water |
|       |                 |                        | 2013A1055 | BL40B2 | 山根 千弘 |  |

### Ceramics International

|       |               |                        |           |        |      |  |
|-------|---------------|------------------------|-----------|--------|------|--|
| 30857 | Koji Nagahara | 42 (2016)<br>7730-7741 | 2012B1750 | BL04B2 | 李 金望 | Rheology Printing of an Ultra-Fine Conductive Ru-La-O Line |
|       |               |                        | 2015A1875 | BL04B2 | 李 金望 |  |

### ChemElectroChem

|       |           |                     |           |        |       |   |
|-------|-----------|---------------------|-----------|--------|-------|---|
| 31608 | Nana Aoki | 3 (2016)<br>959-965 | 2013A4501 | BL15XU | 増田 卓也 | Structural Study of Electrochemically Lithiated Si(111) by using Soft X-ray Emission Spectroscopy Combined with Scanning Electron Microscopy and through X-ray Diffraction Measurements |
|       |           |                     | 2013B4502 | BL15XU | 増田 卓也 |   |
|       |           |                     | 2014A4500 | BL15XU | 魚崎 浩平 |   |
|       |           |                     | 2014B4503 | BL15XU | 近藤 敏啓 |   |
|       |           |                     | 2015A4500 | BL15XU | 近藤 敏啓 |   |
|       |           |                     | 2015B4500 | BL15XU | 近藤 敏啓 |   |

### Chemical Engineering Science

|       |                |                       |           |        |       |  |
|-------|----------------|-----------------------|-----------|--------|-------|--|
| 31127 | Kyuya Nakagawa | 143 (2016)<br>287-296 | 2014B1935 | BL19B2 | 中川 究也 | Structural Changes in Casein Aggregates under Frozen Conditions Affect the Entrapment of Hydrophobic Materials and the Digestibility of Aggregates |
|-------|----------------|-----------------------|-----------|--------|-------|--|

### Chemical Physics

|       |                  |                     |           |        |       |   |
|-------|------------------|---------------------|-----------|--------|-------|---|
| 31012 | Daisuke Matsuoka | 419 (2013)<br>59-64 | 1999A0240 | BL41XU | 中迫 雅由 | Application of Empirical Hydration Distribution Functions around Polar Atoms for Assessing Hydration Structures of Proteins |
|       |                  |                     | 1999B0056 | BL45XU | 中迫 雅由 |   |
|       |                  |                     | 2001A0349 | BL40B2 | 中迫 雅由 |   |
|       |                  |                     | 2003B0979 | BL38B1 | 中迫 雅由 |   |

### Chemistry - An Asian Journal

|       |                     |                      |           |        |       |  |
|-------|---------------------|----------------------|-----------|--------|-------|--|
| 30995 | Sireenart Surinwong | 11 (2016)<br>486-490 | 2015A1520 | BL02B2 | 吉成 信人 | An Extremely Porous Hydrogen-Bonded Framework Composed of D-Penicillaminato Co <sup>III</sup> Au <sub>3</sub> Complex Anions and Aqua Cobalt(II) Cations: Formation and Stepwise Structural Transformation |
|       |                     |                      | 2015A1506 | BL02B2 | 今野 巧  |  |
|       |                     |                      | 2014B1021 | BL02B1 | 今野 巧  |  |

## ChemMedChem

| 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  |
|--------|------------------------|---------------------|-----------|--------|-----------|---|
| 31249  | Mohane Selvaraj Coumar | 5 (2010)<br>255-267 | 2009A4002 | BL12B2 | Wu Suying | Identification, SAR Studies, and X-ray Co-crystallographic Analysis of a Novel Furanopyrimidine Aurora Kinase A Inhibitor |
|        |                        |                     | 2008B4008 | BL12B2 | Wu Suying |   |

## CrystEngComm

|       |            |                        |           |        |       |  |
|-------|------------|------------------------|-----------|--------|-------|--|
| 31101 | Zhigang Hu | 18 (2016)<br>2803-2807 | 2015B1546 | BL02B2 | 堀毛 悟史 | A pH-responsive Phase Transformation of a Sulfonated Metal–Organic Framework from Amorphous to Crystalline for Efficient CO <sub>2</sub> Capture |
|-------|------------|------------------------|-----------|--------|-------|--|

## Dalton Transactions

|       |                 |                        |           |        |              |  |
|-------|-----------------|------------------------|-----------|--------|--------------|--|
| 31362 | Lars Lauterbach | 45 (2016)<br>7215-7219 | 2014B1032 | BL09XU | Wang Hongxin | Characterization of the [3Fe–4S] <sup>0/1+</sup> Cluster from the D14C Variant of <i>Pyrococcus furiosus</i> Ferredoxin via Combined NRVS and DFT Analyses |
|-------|-----------------|------------------------|-----------|--------|--------------|--|

## Diamond &amp; Related Materials

|       |                |                      |           |     |       |   |
|-------|----------------|----------------------|-----------|-----|-------|---|
| 31454 | Hitoshi Sumiya | 58 (2015)<br>221-225 | 2014A8004 | BL3 | 玉作 賢治 | HPHT Synthesis and Crystalline Quality of Large High-Quality (001) and (111) Diamond Crystals |
|-------|----------------|----------------------|-----------|-----|-------|---|

## Earth, Planets and Space

|       |                  |                    |           |        |       |  |
|-------|------------------|--------------------|-----------|--------|-------|--|
| 30913 | Takashi Mikouchi | 66 (2014)<br>82-88 | 2010B1415 | BL37XU | 三河内 岳 | Mineralogy and Crystallography of Some Itokawa Particles Returned by the Hayabusa Asteroidal Sample Return Mission |
|-------|------------------|--------------------|-----------|--------|-------|--|

## Endocrinology

|       |               |                       |           |        |                |   |
|-------|---------------|-----------------------|-----------|--------|----------------|---|
| 30882 | Rajesh Katare | 157 (2016)<br>432-445 | 2014A1066 | BL28B2 | Schwenke Daryl | Ghrelin Promotes Functional Angiogenesis in a Mouse Model of Critical Limb Ischemia Through Activation of Proangiogenic MicroRNAs |
|-------|---------------|-----------------------|-----------|--------|----------------|---|

## European Polymer Journal

|       |                   |                                      |           |        |       |  |
|-------|-------------------|--------------------------------------|-----------|--------|-------|--|
| 31361 | Ryosuke Nakanishi | (2015) Available online 30 Dec. 2015 | 2012B1799 | BL40B2 | 秋葉 勇  | Spatial Distribution of Hydrophobic Compounds in Polymer Micelles as Explored by Anomalous Small-Angle X-ray Scattering Near Br K-edge |
|       |                   |                                      | 2014A1418 | BL40B2 | 秋葉 勇  |  |
|       |                   |                                      | 2013A1277 | BL40B2 | 秋葉 勇  |  |
|       |                   |                                      | 2015A1791 | BL40B2 | 中西 亮輔 |  |

## Experimental Eye Research

|       |               |                     |           |        |                     |  |
|-------|---------------|---------------------|-----------|--------|---------------------|--|
| 31047 | Mehdi Bahrami | 140 (2015)<br>19-27 | 2015A1864 | BL20B2 | Pierscionek Barbara | Refractive Index Degeneration in Older Lenses: A Potential Functional Correlate to Structural Changes that Underlie Cataract Formation |
|       |               |                     | 2014A1710 | BL20B2 | Pierscionek Barbara |  |
|       |               |                     | 2013A1651 | BL20B2 | Pierscionek Barbara |  |

## The FEBS Journal

|       |                   |                         |           |        |       |  |
|-------|-------------------|-------------------------|-----------|--------|-------|--|
| 30881 | Kazuhiko Ishikawa | 282 (2015)<br>2540-2552 | 2013A6803 | BL44XU | 石川 一彦 | Crystal Structure of $\beta$ -galactosidase from <i>Bacillus circulans</i> ATCC31382 (BgaD) and the Construction of the Thermophilic Mutants |
|       |                   |                         | 2013B6803 | BL44XU | 石川 一彦 |  |
|       |                   |                         | 2014A6903 | BL44XU | 渡邊 真宏 |  |
|       |                   |                         | 2014B6903 | BL44XU | 渡邊 真宏 |  |

## Ferroelectrics

|       |                 |                     |           |        |       |  |
|-------|-----------------|---------------------|-----------|--------|-------|--|
| 31356 | Yasuhiro Yoneda | 485 (2015)<br>34-41 | 2011B1129 | BL04B2 | 米田 安宏 | Local Structure Analysis of ATiO <sub>3</sub> (A = Sr, Ba, Pb) |
|       |                 |                     | 2012B3608 | BL14B1 | 米田 安宏 |  |

## Food Research International

|       |                       |                      |           |        |       |   |
|-------|-----------------------|----------------------|-----------|--------|-------|---|
| 31126 | Teeraya Jarunglumlert | 75 (2015)<br>166-173 | 2014B1935 | BL19B2 | 中川 究也 | Digestibility and Structural Parameters of Spray-Dried Casein Clusters under Simulated Gastric Conditions |
|-------|-----------------------|----------------------|-----------|--------|-------|---|

## Food Structure

|       |                       |                   |           |        |       |   |
|-------|-----------------------|-------------------|-----------|--------|-------|---|
| 31125 | Teeraya Jarunglumlert | 5 (2015)<br>42-50 | 2014A1223 | BL40B2 | 中川 究也 | Influence of Aggregate Structure of Casein on the Encapsulation Efficiency of $\beta$ -carotene Entrapped via Hydrophobic Interaction |
|-------|-----------------------|-------------------|-----------|--------|-------|---|

### Geobiology

| 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   |
|--------|----------------|----------------------|-----------|--------|--------|--|
| 30908  | Sakiko Kikuchi | 14 (2016)<br>374-389 | 2013A1613 | BL01B1 | 菊池 早希子 | Limited Reduction of Ferrihydrite Encrusted by Goethite in Freshwater Sediment |
|        |                |                      | 2012A1589 | BL01B1 | 菊池 早希子 |  |

### Geochemical Journal

|       |                  |                      |           |        |       |  |
|-------|------------------|----------------------|-----------|--------|-------|--|
| 30869 | Yoshio Takahashi | 49 (2015)<br>653-674 | 2013B1290 | BL01B1 | 高橋 嘉夫 | Transfer of Rare Earth Elements (REE) from Manganese Oxides to Phosphates during Early Diagenesis in Pelagic Sediments Inferred from REE Patterns, X-ray Absorption Spectroscopy, and Chemical Leaching Method |
|       |                  |                      | 2015B0118 | BL01B1 | 高橋 嘉夫 |  |

### Geochemistry Geophysics Geosystems

|       |                     |                     |           |        |        |  |
|-------|---------------------|---------------------|-----------|--------|--------|--|
| 31214 | Toshihiro Yoshimura | 17 (2016) 1383-1400 | 2015B1709 | BL27SU | 伊左治 雄太 | An X-ray Spectroscopic Perspective on Messinian Evaporite from Sicily: Sedimentary Fabrics, Element Distributions, and Chemical Environments of S and Mg |
|       |                     |                     | 2014B1721 | BL27SU | 伊左治 雄太 |  |

### Geophysical Research Letters

|       |             |                        |           |        |      |   |
|-------|-------------|------------------------|-----------|--------|------|---|
| 31199 | Shoh Tagawa | 43 (2016)<br>3686-3692 | 2014A0080 | BL10XU | 廣瀬 敬 | Compression of Fe-Si-H Alloys to Core Pressures |
|-------|-------------|------------------------|-----------|--------|------|---|

### Hydrogen- and Hydration-Sensitive Structural Biology

|       |                    |                   |           |        |       |   |
|-------|--------------------|-------------------|-----------|--------|-------|---|
| 31025 | Masayoshi Nakasako | (2006)<br>135-139 | 1999A0240 | BL41XU | 中迫 雅由 | Water-protein Interactions Studied by Cryogenic X-ray Crystallography |
|       |                    |                   | 1999B0056 | BL45XU | 中迫 雅由 |   |
|       |                    |                   | 2001A0349 | BL40B2 | 中迫 雅由 |   |

### Inorganic Chemistry Frontiers

|       |            |                     |           |        |       |  |
|-------|------------|---------------------|-----------|--------|-------|--|
| 30994 | Hal Suzuki | 3 (2016)<br>274-278 | 2015A1520 | BL02B2 | 吉成 信人 | A Terahertz Absorption Spectroscopy Study of Structural Changes in D-penicillaminato Cu <sub>2</sub> Fe <sub>14</sub> B Clusters Induced by Water Desorption |
|       |            |                     | 2015A1506 | BL02B2 | 今野 巧  |  |

### Intermetallics

|       |         |                    |           |        |       |   |
|-------|---------|--------------------|-----------|--------|-------|---|
| 31185 | J. Wang | 69 (2016)<br>42-46 | 2013B1640 | BL25SU | 矢野 正雄 | Mixed-valence State of Ce and its Individual Atomic Moments in Ce <sub>2</sub> Fe <sub>14</sub> B Studied by Soft X-ray Magnetic Circular Dichroism |
|-------|---------|--------------------|-----------|--------|-------|---|

### The International Journal of Biochemistry & Cell Biology

|       |                  |                    |           |        |      |  |
|-------|------------------|--------------------|-----------|--------|------|--|
| 31222 | Shigeru Sugiyama | 76 (2016)<br>87-97 | 2010A1537 | BL41XU | 杉山 成 | Molecular Mechanism Underlying Promiscuous Polyamine Recognition by Spermidine Acetyltransferase |
|       |                  |                    | 2010B1261 | BL38B1 | 杉山 成 |  |
|       |                  |                    | 2013A6827 | BL44XU | 杉山 成 |  |
|       |                  |                    | 2013B6827 | BL44XU | 杉山 成 |  |
|       |                  |                    | 2014A6928 | BL44XU | 杉山 成 |  |
|       |                  |                    | 2014B6928 | BL44XU | 杉山 成 |  |

### International Journal of Biological Macromolecules

|       |            |                      |           |        |       |   |
|-------|------------|----------------------|-----------|--------|-------|---|
| 31293 | Yusui Sato | 91 (2016)<br>151-157 | 2014A1153 | BL40XU | 織田 昌幸 | Structural Dynamics of a Single-chain Fv Antibody against (4-hydroxy-3-nitrophenyl)acetyl |
|       |            |                      | 2013A1171 | BL40XU | 織田 昌幸 |   |
|       |            |                      | 2013A1883 | BL40XU | 関口 博史 |   |
|       |            |                      | 2012B1199 | BL40XU | 織田 昌幸 |   |

### International Journal of Fracture

|       |                       |                     |           |        |       |  |
|-------|-----------------------|---------------------|-----------|--------|-------|--|
| 30858 | Md. Shahnewaz Bhuiyan | 200 (2016)<br>13-29 | 2011A1203 | BL20XU | 戸田 裕之 | Influences of Hydrogen on Deformation and Fracture Behaviors of High Zn <sub>7</sub> XXX Aluminum Alloys |
|       |                       |                     | 2013B1324 | BL20XU | 戸田 裕之 |  |
|       |                       |                     | 2012B1625 | BL20XU | 戸田 裕之 |  |
|       |                       |                     | 2014B1157 | BL20XU | 戸田 裕之 |  |
|       |                       |                     | 2014A1018 | BL20XU | 戸田 裕之 |  |
|       |                       |                     | 2015A0076 | BL20XU | 戸田 裕之 |  |

### International Journal of Molecular Sciences

|       |                   |                          |           |        |       |  |
|-------|-------------------|--------------------------|-----------|--------|-------|--|
| 30889 | Daniel Ken Inaoka | 16 (2015)<br>15287-15308 | 2013A6843 | BL44XU | 原田 繁春 | Structural Insights into the Molecular Design of Flutolanil Derivatives Targeted for Fumarate Respiration of Parasite Mitochondria |
|       |                   |                          | 2013B6843 | BL44XU | 原田 繁春 |  |

### International Journal of Obesity

| 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   |
|--------|---------------|----------------------|-----------|--------|----------------|--|
| 30878  | Crystal Diong | 40 (2016)<br>938-946 | 2013A1124 | BL28B2 | Schwenke Daryl | Sympathetic Hyper-Excitation in Obesity and Pulmonary Hypertension: Physiological Relevance to the 'Obesity Paradox' |
|        |               |                      | 2012B1233 | BL28B2 | Schwenke Daryl |  |

### ISIJ International

| 研究成果番号 | 主著者           | 雑誌情報                 | 課題番号      | ビームライン | 実験責任者 | タイトル   |
|--------|---------------|----------------------|-----------|--------|-------|--|
| 31216  | Hiroyuki Toda | 56 (2016)<br>883-892 | 2012B1595 | BL20XU | 戸田 裕之 | 3D Fracture Behaviours in Dual-phase Stainless Steel |
|        |               |                      | 2012B1629 | BL20XU | 東 昌史  |  |

### Journal of Astronomical Telescopes, Instruments, and Systems

| 研究成果番号 | 主著者            | 雑誌情報               | 課題番号      | ビームライン | 実験責任者 | タイトル  |
|--------|----------------|--------------------|-----------|--------|-------|---|
| 30902  | Satoshi Sugita | 1 (2015)<br>034003 | 2012B1085 | BL20B2 | 粟木 久光 | Studies of the Moisture Absorption of Thin Carbon Fiber Reinforced Plastic Substrates for X-ray Mirrors |
|        |                |                    | 2013A1483 | BL20B2 | 粟木 久光 |   |
|        |                |                    | 2013B1423 | BL20B2 | 粟木 久光 |   |
|        |                |                    | 2014B1191 | BL20B2 | 粟木 久光 |   |

### Journal of Bioenergetics and Biomembranes

| 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  |
|--------|---------------------------|----------------------|-----------|--------|-----------------------|---|
| 31238  | Asha Manikoth Balakrishna | 42 (2010)<br>311-320 | 2009A4000 | BL12B2 | Jeyaraman Jeyakanthan | Crystal and Solution Structure of the C-terminal Part of the <i>Methanocaldococcus jannaschii</i> A <sub>1</sub> A <sub>0</sub> ATP Synthase Subunit E Revealed by X-ray Diffraction and Small-Angle X-ray Scattering |
|        |                           |                      | 2009B4010 | BL12B2 | Jeyaraman Jeyakanthan |   |

### Journal of Biological 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   |
|--------|--------------------|----------------------|-----------|--------|-------|--|
| 31021  | Masayoshi Nakasako | 28 (2002)<br>129-137 | 1999B0056 | BL45XU | 中迫 雅由 | Structural Characteristics in Protein Hydration Investigated by Cryogenic X-ray Crystal Structure Analyses |
|        |                    |                      | 1999A0240 | BL41XU | 中迫 雅由 |  |
|        |                    |                      | 2001A0349 | BL40B2 | 中迫 雅由 |  |

### Journal of Biomedical 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  |
|--------|------------|--------------|-----------|--------|-----------------------|---|
| 31244  | Jack Cheng | 17 (2010) 34 | 2009A4000 | BL12B2 | Jeyaraman Jeyakanthan | A Biophysical Elucidation for Less Toxicity of Agglutinin than Abrin-a from the Seeds of <i>Abrus Precatorius</i> in Consequence of Crystal Structure |

### Journal of Ceramic 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   |
|--------|-----------------|-----------------------|-----------|--------|-------|--|
| 31402  | Yoshihiro Saito | 124 (2016)<br>717-720 | 2012B1460 | BL04B2 | 斎藤 吉広 | Structural Change of Na <sub>2</sub> O-doped SiO <sub>2</sub> Glasses by Melting |

### Journal of Computer-Aided Molecular Design

| 研究成果番号 | 主著者                    | 雑誌情報                 | 課題番号      | ビームライン | 実験責任者          | タイトル  |
|--------|------------------------|----------------------|-----------|--------|----------------|---|
| 31272  | Warachai Praditwongwan | 28 (2014)<br>869-884 | 2012A4009 | BL12B2 | Chen Chun Jung | Crystal Structure of an Antiviral Ankyrin Targeting the HIV-1 Capsid and Molecular Modeling of the Ankyrin-Capsid Complex |
|        |                        |                      | 2012B4002 | BL12B2 | Chen Chun Jung |   |
|        |                        |                      | 2013A4011 | BL12B2 | Chen Chun Jung |   |
|        |                        |                      | 2013B4000 | BL12B2 | Chen Chun Jung |   |

### Journal of Electronic 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  |
|--------|-----------------------------|----------------------|-----------|--------|-------|---|
| 30960  | Mohd Arif Anuar Mohd Salleh | 45 (2016)<br>154-163 | 2014B1620 | BL20XU | 野北 和宏 | Effect of Ni on the Formation and Growth of Primary Cu <sub>6</sub> Sn <sub>5</sub> Intermetallics in Sn-0.7 wt.%Cu Solder Pastes on Cu Substrates During the Soldering Process |
|        |                             |                      | 2015A1675 | BL20XU | 野北 和宏 |   |

### Journal of Fiber Science and Technology

| 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  |
|--------|----------------|----------------------|-----------|--------|-------|---|
| 31617  | Toshiji Kanaya | 72 (2016)<br>126-131 | 2011B1166 | BL40B2 | 水池 敦子 | A Study on Polymerization-Induced Phase Separation (PIPS) of Epoxy Solution in Oligoethylene Glycol Aiming at Controlling the Characteristic Length |
|        |                |                      | 2012A1433 | BL40B2 | 水池 敦子 |   |

### Journal of Luminescence

| 研究成果番号 | 主著者         | 雑誌情報                  | 課題番号      | ビームライン | 実験責任者  | タイトル   |
|--------|-------------|-----------------------|-----------|--------|--------|--|
| 30883  | Mega Novita | 169 (2016)<br>594-600 | 2012B1898 | BL14B2 | 小笠原 一禎 | Study of Multiplet Structures of Mn <sup>4+</sup> Activated in Fluoride Crystals |
|        |             |                       | 2013B1723 | BL14B2 | 小笠原 一禎 |  |

### Journal of Materials 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  |
|--------|---------------|-----------------------|-----------|--------|-------|---|
| 31387  | Keita Kuroiwa | 3 (2015)<br>7779-7783 | 2013A1396 | BL40B2 | 櫻井 伸一 | Supramolecular Control of Reverse Spin Transitions in Cobalt(II) Terpyridine Complexes with Diblock Copolypeptide Amphiphiles |



**Journal of Nuclear 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  |
|--------|-------------------|-----------------------|-----------|--------|-------|---|
| 30854  | Yoshihiro Okamoto | 471 (2016)<br>110-115 | 2012B3504 | BL11XU | 塩飽 秀啓 | REDOX State Analysis of Platinoid Elements in Simulated High-Level Radioactive Waste Glass by Synchrotron Radiation Based EXAFS |
|        |                   |                       | 2013A3504 | BL11XU | 塩飽 秀啓 |   |
|        |                   |                       | 2013B3504 | BL11XU | 塩飽 秀啓 |   |

**The Journal of Physical Chemistry Letters**

|       |                            |                     |           |     |                |  |
|-------|----------------------------|---------------------|-----------|-----|----------------|--|
| 31349 | Jacques Philippe Colletier | 7 (2016)<br>882-887 | 2013B8046 | BL3 | Leonard Chavas | Serial Femtosecond Crystallography and Ultrafast Absorption Spectroscopy of the Photoswitchable Fluorescent Protein IrisFP |
|-------|----------------------------|---------------------|-----------|-----|----------------|--|

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

|       |                |                      |           |        |       |   |
|-------|----------------|----------------------|-----------|--------|-------|---|
| 30872 | Seijiro Fukuta | 54 (2016)<br>359-367 | 2014B1590 | BL46XU | 東原 知哉 | Synthesis and FET Characterization of Novel Ambipolar and Low-bandgap Naphthalene-diimide-based Semiconducting Polymers |
|-------|----------------|----------------------|-----------|--------|-------|---|

**Journal of Power Sources**

|       |                 |                     |           |        |       |  |
|-------|-----------------|---------------------|-----------|--------|-------|--|
| 31424 | Takamasa Nonaka | 325 (2016)<br>79-83 | 2011A7008 | BL33XU | 野中 敬正 | A Novel Surface-Sensitive X-ray Absorption Spectroscopic Detector to Study the Thermal Decomposition of Cathode Materials for Li-ion Batteries |
|       |                 |                     | 2011B7008 | BL33XU | 野中 敬正 |  |

**Journal of Structural and Functional Genomics**

|       |                    |                    |           |        |       |   |
|-------|--------------------|--------------------|-----------|--------|-------|---|
| 31178 | Kazuhiro Kashiwagi | 17 (2016)<br>33-38 | 2012A1335 | BL41XU | 伊藤 拓宏 | Expression, Purification, and Crystallization of <i>Schizosaccharomyces pombe</i> eIF2B |
|       |                    |                    | 2012B1572 | BL41XU | 伊藤 拓宏 |   |
|       |                    |                    | 理研        | BL32XU |       |   |

**Journal of the American Ceramic Society**

|       |                 |  |           |        |       |   |
|-------|-----------------|--|-----------|--------|-------|---|
| 31411 | Masanori Suzuki | 99 (2016) online published 3 Jun. 2016 | 2012B3359 | BL08B2 | 鈴木 賢紀 | Formation and Local Structure Analysis of High-Valence Chromium Ion in Dicalcium Silicate |
|       |                 |  | 2013B3248 | BL24XU | 鈴木 賢紀 |   |
|       |                 |  | 2014B1833 | BL14B2 | 鈴木 賢紀 |   |

**Journal of the Korean Physical Society**

|       |                 |                        |           |        |       |  |
|-------|-----------------|------------------------|-----------|--------|-------|--|
| 31357 | Yasuhiro Yoneda | 66 (2015)<br>1339-1343 | 2014B3607 | BL14B1 | 米田 安宏 | Local Structure Analysis of Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> |
|       |                 |                        | 2010A1068 | BL04B2 | 米田 安宏 |  |
|       |                 |                        | 2009B1084 | BL04B2 | 米田 安宏 |  |
|       |                 |                        | 2008A3602 | BL14B1 | 米田 安宏 |  |

**JPS Conference Proceedings**

|       |                |                    |           |        |        |   |
|-------|----------------|--------------------|-----------|--------|--------|---|
| 30817 | Akihiro Hanada | 1 (2014)<br>012089 | 2012B1459 | BL39XU | 木下 健太郎 | Analysis of Memory Effect Induced by Hydrogen Annealing |
|       |                |                    | 2012B1784 | BL13XU | 木下 健太郎 |   |

**Langmuir**

|       |                    |                        |           |        |       |  |
|-------|--------------------|------------------------|-----------|--------|-------|--|
| 31175 | Kazuhiro Shikinaka | 32 (2016)<br>3665-3669 | 2014B1084 | BL45XU | 敷中 一洋 | Chiral-Linkage-Induced Hierarchical Ordering of Colloidal Achiral Nanotubes in their Thixotropic Gel |
|-------|--------------------|------------------------|-----------|--------|-------|--|

**Light Sensing in Plants**

|       |                    |                 |           |        |       |   |
|-------|--------------------|-----------------|-----------|--------|-------|---|
| 31027 | Masayoshi Nakasako | (2005)<br>43-49 | 2002B0153 | BL40B2 | 中迫 雅由 | Tertiary and Quaternary Structures of Phytochrome A |
|       |                    |                 | 2003A0107 | BL40B2 | 中迫 雅由 |   |

**Mechanical Engineering Letters**

|       |                  |                      |           |        |      |   |
|-------|------------------|----------------------|-----------|--------|------|---|
| 31518 | Takashi Nakamura | 2 (2016)<br>16-00233 | 2013A1218 | BL20XU | 中村 孝 | Detection of Small Internal Fatigue Cracks in Ti-6Al-4V by using Synchrotron Radiation $\mu$ CT Imaging |
|-------|------------------|----------------------|-----------|--------|------|---|

**Molecular Biosystems**

|       |                 |                       |           |        |              |   |
|-------|-----------------|-----------------------|-----------|--------|--------------|---|
| 31265 | Hsiu-Chien Chan | 7 (2011)<br>1224-1231 | 2010A4011 | BL12B2 | Tsai MingDaw | Regioselective Deacetylation Based Teicoplanin-Complexed Orf2* Crystal Structures |
|       |                 |                       | 2010B4002 | BL12B2 | Tsai MingDaw |   |

**MRS Advances**

|       |             |  |           |        |       |  |
|-------|-------------|--|-----------|--------|-------|--|
| 31425 | Koji Ashida | (2016)<br>Published online 9 Jun. 2016 | 2015A1840 | BL13XU | 芦田 晃嗣 | Evaluation of Polishing-Induced Subsurface Damage of 4H-SiC (0001) by Cross-Sectional Electron Backscattered Diffraction and Synchrotron X-Ray Micro-Diffraction |
|       |             |  | 2015B1767 | BL13XU | 芦田 晃嗣 |  |

### Nature Chemical Biology

| 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   |
|--------|-------------|---------------------|-----------|--------|--------------|--|
| 31263  | Yu-Chen Liu | 7 (2011)<br>304-309 | 2010A4011 | BL12B2 | Tsai MingDaw | Interception of Teicoplanin Oxidation Intermediates Yields New Antimicrobial Scaffolds |
|        |             |                     | 2010B4002 | BL12B2 | Tsai MingDaw |  |

### Nature Energy

|       |           |                   |           |        |       |  |
|-------|-----------|-------------------|-----------|--------|-------|--|
| 31099 | Yuki Kato | 1 (2016)<br>16030 | 2014A1408 | BL02B2 | 菅野 了次 | High-Power All-Solid-State Batteries using Sulfide Superionic Conductors |
|-------|-----------|-------------------|-----------|--------|-------|--|

### Nature Materials

|       |           |                      |           |     |           |  |
|-------|-----------|----------------------|-----------|-----|-----------|--|
| 31211 | Mark Dean | 15 (2016)<br>601-605 | 2015B8023 | BL3 | Dean Mark | Ultrafast Energy- and Momentum-Resolved Dynamics of Magnetic Correlations in the Photo-Doped Mott Insulator Sr <sub>2</sub> IrO <sub>4</sub> |
|       |           |                      | 2014B8018 | BL3 | Hill John |  |

### Nature Structural and Molecular Biology

|       |                 |                      |           |        |       |   |
|-------|-----------------|----------------------|-----------|--------|-------|---|
| 31116 | Hironori Suzuki | 22 (2015)<br>572-580 | 2013B1005 | BL41XU | 山本 雅貴 | Structure of the Atg101-Atg13 Complex Reveals Essential Roles of Atg101 in Autophagy Initiation |
|-------|-----------------|----------------------|-----------|--------|-------|---|

### Nucleic Acids Research

|       |               |                        |           |        |                  |  |
|-------|---------------|------------------------|-----------|--------|------------------|--|
| 31277 | Yu-Yuan Hsiao | 40 (2012)<br>8144-8154 | 2011B6600 | BL44XU | Hsiao Chwan Deng | How an Exonuclease Decides where to Stop in Trimming of Nucleic Acids: Crystal Structures of RNase T-product Complexes |
|       |               |                        | 2011A6600 | BL44XU | Hsiao Chwan Deng |  |
|       |               |                        | 2010A6600 | BL44XU | Hsiao Chwan Deng |  |
|       |               |                        | 2010B6600 | BL44XU | Hsiao Chwan Deng |  |

### Oncotarget

|       |                     |                         |           |        |                     |   |
|-------|---------------------|-------------------------|-----------|--------|---------------------|---|
| 31048 | Barbara Pierscionek | 6 (2015)<br>30532-30544 | 2015A1864 | BL20B2 | Pierscionek Barbara | The Eye Lens: Age-Related Trends and Individual Variations in Refractive Index and Shape Parameters |
|       |                     |                         | 2014A1710 | BL20B2 | Pierscionek Barbara |   |
|       |                     |                         | 2013A1651 | BL20B2 | Pierscionek Barbara |   |
|       |                     |                         | 2012A1650 | BL20B2 | Pierscionek Barbara |   |

### Optical Materials Express

|       |                |                       |           |        |       |   |
|-------|----------------|-----------------------|-----------|--------|-------|---|
| 31209 | Hirokazu Masai | 6 (2016)<br>1827-1836 | 2011B1193 | BL01B1 | 正井 博和 | Photoluminescence of Sn <sup>2+</sup> -centre as Probe of Transient State of Supercooled Liquid |
|       |                |                       | 2014B1350 | BL04B2 | 正井 博和 |   |

### Optics Express

|       |                |                          |           |        |               |  |
|-------|----------------|--------------------------|-----------|--------|---------------|--|
| 31134 | Patrik Vagovic | 22 (2014)<br>21508-21520 | 2013A1530 | BL20XU | Korytar Dusan | X-ray Bragg Magnifier Microscope as a Linear Shift Invariant Imaging System: Image Formation and Phase Retrieval |
|-------|----------------|--------------------------|-----------|--------|---------------|--|

### Organic Electronics

|       |               |                     |           |         |       |  |
|-------|---------------|---------------------|-----------|---------|-------|--|
| 31003 | Kenichi Ozawa | 31 (2016)<br>98-103 | 2014A7463 | BL07LSU | 小澤 健一 | Capturing Transiently Charged States at the C <sub>60</sub> /TiO <sub>2</sub> (110) Interface by Time-Resolved Soft X-ray Photoelectron Spectroscopy |
|-------|---------------|---------------------|-----------|---------|-------|--|

### Oxidation of Metals

|       |                   |                      |           |        |      |   |
|-------|-------------------|----------------------|-----------|--------|------|---|
| 31519 | Shigenari Hayashi | 86 (2016)<br>151-164 | 2012B1523 | BL19B2 | 林 重成 | Metastable-Stable Phase Transformation Behavior of Al <sub>2</sub> O <sub>3</sub> Scale Formed on Fe-Ni-Al Alloys |
|-------|-------------------|----------------------|-----------|--------|------|---|

### Philosophical Magazine Letters

|       |                 |                      |           |        |      |  |
|-------|-----------------|----------------------|-----------|--------|------|--|
| 31441 | Masaharu Hatano | 96 (2016)<br>220-227 | 2012B1611 | BL02B1 | 森 茂生 | Presence of ε-martensite as an Intermediate Phase during the Strain-Induced Transformation of SUS304 Stainless Steel |
|-------|-----------------|----------------------|-----------|--------|------|--|

### Physica C

|       |                |                       |           |        |       |  |
|-------|----------------|-----------------------|-----------|--------|-------|--|
| 30980 | Takao Sasagawa | 470 (2010)<br>S51-S52 | 2005B0650 | BL35XU | 笹川 崇男 | Phonon Softening in La <sub>1.74</sub> Eu <sub>0.1</sub> Sr <sub>0.16</sub> CuO <sub>4</sub> Studied by Inelastic X-ray Scattering |
|       |                |                       | 2006A1379 | BL35XU | 笹川 崇男 |  |
|       |                |                       | 2007A1374 | BL35XU | 笹川 崇男 |  |

### Physica Scripta

| 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  |
|--------|----------------|---------------------|-----------|--------|--------|---|
| 31418  | Hidetaka Kasai | 91 (2016)<br>043009 | 2015A0074 | BL02B2 | 森吉 千佳子 | Multiple Powder Diffraction Data for an Accurate Charge Density Study using Synchrotron Radiation X-ray |

### Physical Review Letters

|       |                 |                     |           |        |                 |  |
|-------|-----------------|---------------------|-----------|--------|-----------------|--|
| 31227 | Hitoshi Yamaoka | 83 (2011)<br>104525 | 2009B4255 | BL12XU | Chang Lieh-Jeng | Electronic Structure of YbGa <sub>1.15</sub> Si <sub>0.85</sub> and YbGa <sub>x</sub> Ge <sub>2-x</sub> Probed by Resonant X-ray Emission and Photoelectron Spectroscopies |
|       |                 |                     | 理研        | BL17SU |                 |  |

### Plant and Cell Physiology

|       |               |                        |           |     |       |   |
|-------|---------------|------------------------|-----------|-----|-------|---|
| 31010 | Yuki Takayama | 56 (2015)<br>1272-1286 | 2013A8043 | BL3 | 中迫 雅由 | Coherent X-ray Diffraction Imaging of Chloroplasts from <i>Cyanidioschyzon merolae</i> by Using X-Ray Free Electron Laser |
|       |               |                        | 2013B8049 | BL3 | 中迫 雅由 |   |
|       |               |                        | 2014A8033 | BL3 | 中迫 雅由 |   |
|       |               |                        | 2012A8010 | BL3 | 米倉 功治 |   |
|       |               |                        | 2012B8037 | BL3 | 中迫 雅由 |   |

### The Plant Cell

|       |                |                      |           |        |             |   |
|-------|----------------|----------------------|-----------|--------|-------------|---|
| 31255 | Tao-Hsin Chang | 22 (2010)<br>454-467 | 2009A4003 | BL12B2 | Wang Andrew | Structure of a Heterotetrameric Geranyl Pyrophosphate Synthase from Mint ( <i>Mentha piperita</i> ) Reveals Intersubunit Regulation |
|       |                |                      | 2009B4009 | BL12B2 | Wang Andrew |   |

### The Plant Journal

|       |              |                      |           |        |       |   |
|-------|--------------|----------------------|-----------|--------|-------|---|
| 31647 | Masahiro Eda | 86 (2016)<br>300-307 | 2011B1499 | BL38B1 | 多田 俊治 | Structural and Functional Analysis of Tomato $\beta$ -Galactosidase 4: Insight into the Substrate Specificity of the Fruit Softening-Related Enzyme |
|       |              |                      | 2012A6725 | BL44XU | 多田 俊治 |   |

### Plant Morphology

|       |                  |                    |           |        |       |  |
|-------|------------------|--------------------|-----------|--------|-------|--|
| 31221 | Ichirou Karahara | 27 (2015)<br>21-26 | 2012B1119 | BL20B2 | 唐原 一郎 | Three-Dimensional Imaging of Plant Tissues using X-ray Micro-Computed Tomography |
|       |                  |                    | 2012B1158 | BL20B2 | 山内 大輔 |  |
|       |                  |                    | 2014A1265 | BL20XU | 峰雪 芳宣 |  |
|       |                  |                    | 2014A1306 | BL20B2 | 山内 大輔 |  |
|       |                  |                    | 2014B1225 | BL20B2 | 唐原 一郎 |  |
|       |                  |                    | 2011A1414 | BL20XU | 峰雪 芳宣 |  |
|       |                  |                    | 2011A1430 | BL20B2 | 唐原 一郎 |  |
|       |                  |                    | 2012A1364 | BL20B2 | 峰雪 芳宣 |  |
|       |                  |                    | 2010B1473 | BL20XU | 峰雪 芳宣 |  |
|       |                  |                    | 2009B1453 | BL20B2 | 山内 大輔 |  |
|       |                  |                    | 2009A1304 | BL20B2 | 唐原 一郎 |  |
|       |                  |                    | 2008A1211 | BL20B2 | 山内 大輔 |  |

### Plant Physiology

|       |               |                         |           |        |             |  |
|-------|---------------|-------------------------|-----------|--------|-------------|--|
| 31260 | Fu-Lien Hsieh | 155 (2011)<br>1079-1090 | 2009A4003 | BL12B2 | Wang Andrew | Structure and Mechanism of an Arabidopsis Medium/Long-Chain-Length Prenyl Pyrophosphate Synthase |
|       |               |                         | 2009B4009 | BL12B2 | Wang Andrew |  |
|       |               |                         | 2010A4001 | BL12B2 | Wang Andrew |  |

### PLoS Biology

|       |               |                       |           |        |                  |  |
|-------|---------------|-----------------------|-----------|--------|------------------|--|
| 31285 | Yu-Yuan Hsiao | 12 (2014)<br>e1001803 | 2011B6600 | BL44XU | Hsiao Chwan Deng | Structural Insights Into DNA Repair by RNase T—An Exonuclease Processing 3' End of Structured DNA in Repair Pathways |
|       |               |                       | 2012A6600 | BL44XU | Hsiao Chwan Deng |  |
|       |               |                       | 2012B6600 | BL44XU | Hsiao Chwan Deng |  |
|       |               |                       | 2013A6600 | BL44XU | Hsiao Chwan Deng |  |

### Polymer Bulletin

|       |                  |                      |           |        |       |   |
|-------|------------------|----------------------|-----------|--------|-------|---|
| 31384 | Nguyen-Dung Tien | 73 (2016)<br>399-408 | 2010B1109 | BL45XU | 櫻井 伸一 | Influence of High Pressure on Higher-Order Structures of Poly(oxyethylene) in its Blend with Poly( <i>d,l</i> -lactide) |
|-------|------------------|----------------------|-----------|--------|-------|---|

### Polymer International

|       |                  |   |           |        |       |   |
|-------|------------------|---|-----------|--------|-------|---|
| 31389 | Shinichi Sakurai | (2016) Version of Record online: 3 May 2016 | 2013A1396 | BL40B2 | 櫻井 伸一 | Recent Developments in Polymer Applications of Synchrotron Small-Angle X-ray Scattering |
|-------|------------------|---|-----------|--------|-------|---|

## Proceedings of Asia Steel International Conference

| 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   |
|--------|--------------|-------------------|-----------|--------|-------|--|
| 31139  | Shun Fujieda | (2015)<br>568-569 | 2013A1785 | BL14B2 | 藤枝 俊  | In situ Measurements of X-ray Absorption Spectra during Transformation of Green Rust in Aqueous Solution Containing Phosphate Ions |

## Proceedings of SPIE

|       |                |                       |           |        |      |   |
|-------|----------------|-----------------------|-----------|--------|------|---|
| 30915 | Kouichi Minami | 9783 (2016)<br>978355 | 2015B1002 | BL20B2 | 仁木 登 | Microstructure Analysis of the Pulmonary Acinus by a Synchrotron Radiation CT |
|-------|----------------|-----------------------|-----------|--------|------|---|

## Proceedings of the 14th Japan International SAMPE Symposium and Exhibition

|       |                 |                    |           |        |       |  |
|-------|-----------------|--------------------|-----------|--------|-------|--|
| 31080 | Hayato Nakatani | (2015)<br>No. 0055 | 2014A1523 | BL19B2 | 中谷 隼人 | Non-Destructive Damage Assessment in CFRP/Ti Laminates by Synchrotron Radiation Laminography |
|       |                 |                    | 2013A1212 | BL19B2 | 中谷 隼人 |  |

## Proceedings of the 15th International Symposium on Flavins and Flavoproteins

|       |                  |                   |           |        |       |  |
|-------|------------------|-------------------|-----------|--------|-------|--|
| 31024 | Daisuke Matsuoka | (2006)<br>557-567 | 2002B0152 | BL40B2 | 中迫 雅由 | LOV Photoreceptors in Plants; Molecular Structure, Photoreaction and Signal Transduction |
|       |                  |                   | 2003A0106 | BL40B2 | 中迫 雅由 |  |
|       |                  |                   | 2003B0141 | BL40B2 | 中迫 雅由 |  |
|       |                  |                   | 2004A0317 | BL40B2 | 中迫 雅由 |  |

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

|       |               |                         |           |        |             |   |
|-------|---------------|-------------------------|-----------|--------|-------------|---|
| 31242 | Yu-Ming Chang | 107 (2010)<br>8617-8622 | 2008B4007 | BL12B2 | Wang Andrew | Structural Study of TcaR and its Complexes with Multiple Antibiotics from <i>Staphylococcus epidermidis</i> |
|       |               |                         | 2009A4003 | BL12B2 | Wang Andrew |   |
|       |               |                         | 2009B4009 | BL12B2 | Wang Andrew |   |

## Protein Science

|       |             |  |           |        |       |   |
|-------|-------------|--|-----------|--------|-------|---|
| 31440 | Yoshito Abe | (2016)<br>Accepted manuscript online: 13 Jun. 2016 | 2011B1152 | BL38B1 | 阿部 義人 | Effect on Catalysis by Replacement of Catalytic Residue from Hen Egg White Lysozyme to <i>Venerupis philippinarum</i> Lysozyme* |
|       |             |  | 2012A1142 | BL38B1 | 阿部 義人 |   |
|       |             |  | 2012B1132 | BL38B1 | 阿部 義人 |   |
|       |             |  | 2013A1126 | BL38B1 | 阿部 義人 |   |
|       |             |  | 2013B1233 | BL38B1 | 阿部 義人 |   |

## Radiological Issues for Fukushima's Revitalized Future

|       |              |                |           |        |       |  |
|-------|--------------|----------------|-----------|--------|-------|--|
| 31297 | Yomei Tokuda | (2016)<br>3-11 | 2015A1662 | BL14B2 | 徳田 陽明 | Nuclear Magnetic Resonance Study of Cs Adsorption onto Clay Minerals |
|-------|--------------|----------------|-----------|--------|-------|--|

## Solar Energy Materials and Solar Cells

|       |              |                      |           |        |       |  |
|-------|--------------|----------------------|-----------|--------|-------|--|
| 31366 | Shogo Yamane | 151 (2016)<br>96-101 | 2015B1600 | BL46XU | 宮寺 哲彦 | Relationship between Photostability and Nanostructures in DTS(FBTTh <sub>2</sub> ) <sub>2</sub> -Fullerene Bulk-heterojunction Films |
|-------|--------------|----------------------|-----------|--------|-------|--|

## Surface Science

|       |            |                       |           |         |      |  |
|-------|------------|-----------------------|-----------|---------|------|--|
| 31001 | Ryu Yukawa | 641 (2015)<br>224-230 | 2014A7466 | BL07LSU | 松田 巖 | Anisotropic Effective Mass Approximation Model to Calculate Multiple Subband Structures at Wide-Gap Semiconductor Surfaces: Application to Accumulation Layers of SrTiO <sub>3</sub> and ZnO |
|-------|------------|-----------------------|-----------|---------|------|--|

## Synlett

|       |              |                        |           |        |      |   |
|-------|--------------|------------------------|-----------|--------|------|---|
| 30868 | Kazu Okumura | 27 (2016)<br>1223-1226 | 2014B1064 | BL01B1 | 奥村 和 | Formation and Catalysis of Gold Nanoparticles Generated through the Physical Mixing of AuCl(PPh <sub>3</sub> ) and Oxides |
|       |              |                        | 2015B1068 | BL01B1 | 奥村 和 |   |

## Topics in Catalysis

|       |                  |                      |           |         |      |  |
|-------|------------------|----------------------|-----------|---------|------|--|
| 31002 | Takanori Koitaya | 59 (2016)<br>526-531 | 2014B7479 | BL07LSU | 吉信 淳 | Real-Time Observation of Reaction Processes of CO <sub>2</sub> on Cu(997) by Ambient-Pressure X-ray Photoelectron Spectroscopy |
|       |                  |                      | 2015A7491 | BL02B2  | 吉信 淳 |  |

## Vacuum

|       |               |                     |           |        |                 |   |
|-------|---------------|---------------------|-----------|--------|-----------------|---|
| 31266 | Chin-Chung Yu | 102 (2014)<br>63-66 | 2012A4133 | BL12B2 | Lee Jiann-Shing | Preparation and Characterization of In <sub>2</sub> O <sub>3</sub> Films with (111) Preferred Orientation |
|       |               |                     | 2012B4127 | BL12B2 | Lee Jiann-Shing |   |

**Zeitschrift für Physikalische Chemie**

| 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   |
|--------|-------------------|-----------------------|-----------|--------|--------|--|
| 31179  | Tokujiro Yamamoto | 230 (2016)<br>509-517 | 2015B1081 | BL13XU | 山本 篤史郎 | X-ray Fluorescence Holography for a Ti-Nb Binary Alloy Consisting of the Martensite, Austenite and Omega Phase |
|        |                   |                       | 2010B1101 | BL39XU | 山本 篤史郎 |  |

**高分子論文集 (Japanese Journal of Polymer Science and Technology)**

|       |             |                      |           |        |      |  |
|-------|-------------|----------------------|-----------|--------|------|--|
| 31363 | Yuji Higaki | 73 (2016)<br>225-232 | 2012B1237 | BL40B2 | 高原 淳 | Surface Modification of Non-Woven Electrospun Fine Fiber Mats through Surface-Initiated Atom Transfer Radical Polymerization |
|-------|-------------|----------------------|-----------|--------|------|--|

**材料 (Journal of the Society of Materials Science, Japan)**

|       |                 |                    |           |        |       |  |
|-------|-----------------|--------------------|-----------|--------|-------|--|
| 31388 | Yoshihiro Tsuji | 64 (2015)<br>11-17 | 2003A0110 | BL40B2 | 櫻井 伸一 | Analyses of Higher-Order Structures in Poly(ethylene terephthalate) Fibers Prepared with High-Speed Melt Spinning by Conducting Small-Angle X-ray Scattering Measurements for Fibers Immersed in Non-Solvent of Which Electron Density was Matched to That of Fibers |
|-------|-----------------|--------------------|-----------|--------|-------|--|

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

|       |                |                    |           |        |       |   |
|-------|----------------|--------------------|-----------|--------|-------|---|
| 31124 | Kyuya Nakagawa | 15 (2014)<br>51-57 | 2013B1256 | BL40B2 | 中川 究也 | Microencapsulation of $\beta$ -Carotene by Self-Aggregated Caseinates |
|-------|----------------|--------------------|-----------|--------|-------|---|

**日本物理学会誌 (Butsuri)**

|       |                    |                      |           |     |       |  |
|-------|--------------------|----------------------|-----------|-----|-------|--|
| 31007 | Masayoshi Nakasako | 70 (2015)<br>702-712 | 2012B8037 | BL3 | 中迫 雅由 | Structure Analyses of Biological Molecules and Particles in Japan -Past, Present and Future- |
|       |                    |                      | 2013A8043 | BL3 | 中迫 雅由 |  |
|       |                    |                      | 2013B8049 | BL3 | 中迫 雅由 |  |
|       |                    |                      | 2014A8033 | BL3 | 中迫 雅由 |  |

**日本レオロジー学会誌 (Journal of the Society of Rheology, Japan)**

|       |               |                    |           |        |       |  |
|-------|---------------|--------------------|-----------|--------|-------|--|
| 31386 | Madoka Uozumi | 43 (2015)<br>77-83 | 2014A7201 | BL03XU | 坂本 直紀 | Changes in Microphase-Separated Structures and Properties of an Elastomeric Block Copolymer Film Upon Uniaxial Stretching As Analyzed by Conducting Simultaneous Measurements of Two-Dimensional Small-Angle X-Ray Scattering with Stress-Strain Tests |
|       |               |                    | 2014B7251 | BL03XU | 坂本 直紀 |  |
|       |               |                    | 2011B3306 | BL08B2 | 坂本 直紀 |  |
|       |               |                    | 2012A3306 | BL08B2 | 坂本 直紀 |  |

**表面科学 (Journal of the Surface Science Society of Japan)**

|       |                |                      |           |        |        |  |
|-------|----------------|----------------------|-----------|--------|--------|--|
| 30816 | Akihiro Hanada | 35 (2014)<br>356-360 | 2012B1784 | BL13XU | 木下 健太郎 | Generation Mechanism of Resistive Switching Effect Induced by Introduction of Hydrogen Ions into Perovskite-Type Oxide |
|       |                |                      | 2012B1459 | BL39XU | 木下 健太郎 |  |

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

|       |             |                      |           |        |       |   |
|-------|-------------|----------------------|-----------|--------|-------|---|
| 31098 | Guowei Zhao | 62 (2015)<br>543-547 | 2014A1408 | BL02B2 | 菅野 了次 | 新規 LiScO <sub>2</sub> 系リチウムイオン導電体の合成、結晶構造解析、イオン導電特性 |
|       |             |                      | 2014B1931 | BL19B2 | 菅野 了次 |   |
|       |             |                      | 2015A1778 | BL02B2 | 渡邊 明尋 |   |

**博士論文 (京都大学)**

|       |                    |        |           |        |       |  |
|-------|--------------------|--------|-----------|--------|-------|--|
| 30990 | Akira Yamamoto     | (2015) | 2013B1687 | BL01B1 | 山本 旭  | Studies on Low-temperature De-NO <sub>x</sub> System over TiO <sub>2</sub> -based Photocatalysts |
|       |                    |        | 2010B1676 | BL28B2 | 大山 順也 |  |
|       |                    |        | 2010A1604 | BL02B2 | 大山 順也 |  |
|       |                    |        | 2009B1713 | BL02B2 | 大山 順也 |  |
| 31433 | Tomohiro Fukushima | (2014) | 2012B1695 | BL02B2 | 福島 知宏 | Studies on Assemblage-Directed Functions of Porous Coordination Polymers                         |

**博士論文 (Durham University)**

|       |            |        |           |        |                  |  |
|-------|------------|--------|-----------|--------|------------------|--|
| 31066 | Havva Okur | (2016) | 2014A1307 | BL10XU | Prassides Kosmas | Experimental Investigations of Correlated Electron Systems: Alkali Fullerenes and Sesquioxides |
|-------|------------|--------|-----------|--------|------------------|--|

**博士論文 (Università degli Studi di Trieste)**

|       |                   |        |           |        |        |  |
|-------|-------------------|--------|-----------|--------|--------|--|
| 30998 | Andrea Battistoni | (2014) | 2013A1527 | BL35XU | 齋藤 真器名 | Broad Band Acoustic Spectroscopy in Disordered Systems |
|-------|-------------------|--------|-----------|--------|--------|--|

博士論文 (University of Wisconsin-Madison)

| 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  |
|--------|-------------------|--------|-----------|--------|------------|---|
| 30849  | Margaret Cosgriff | (2015) | 2012A1105 | BL13XU | Evans Paul | Electric Field Response of Strained BiFeO <sub>3</sub> and BaTiO <sub>3</sub> /CaTiO <sub>3</sub> Superlattices |
|        |                   |        | 2012B1551 | BL13XU | Evans Paul |   |

博士論文 (Okayama University)

| 研究成果番号 | 主著者        | 雑誌情報   | 課題番号      | ビームライン | 実験責任者 | タイトル   |
|--------|------------|--------|-----------|--------|-------|--|
| 31618  | Ryo Sakuma | (2015) | 2013A1599 | BL01B1 | 佐久間 諒 | 鉄酸化細菌由来酸化鉄のリチウムイオン電池負極材料としての充放電機構解明および特性向上への試み |

博士論文 (Hiroshima University)

| 研究成果番号    | 主著者            | 雑誌情報   | 課題番号      | ビームライン | 実験責任者 | タイトル   |
|-----------|----------------|--------|-----------|--------|-------|--|
| 31194     | Kazuhei Wakiya | (2016) | 2012A1506 | BL35XU | 鬼丸 孝博 | Magnetic, Superconducting, and Phononic Properties in Caged Compounds $RT_2Zn_{20}$ ( $R$ : rare-earth, $T$ =Ru, Rh, Os, Ir) |
|           |                |        | 2012B1596 | BL35XU | 鬼丸 孝博 |  |
|           |                |        | 2013B1676 | BL35XU | 脇倉 和平 |  |
|           |                |        | 2014A1678 | BL35XU | 脇倉 和平 |  |
|           |                |        | 2014B1761 | BL35XU | 脇倉 和平 |  |
| 2015A1838 | BL35XU         | 脇倉 和平  |           |        |       |  |

課題以外の成果として登録された論文

Journal of Physics B: Atomic, Molecular and Optical Physics

| 研究成果番号 | 主著者             | 雑誌情報                | 課題番号 | ビームライン | タイトル   |
|--------|-----------------|---------------------|------|--------|--|
| 31321  | Takahiro Sato   | 46 (2013)<br>164006 | SCSS |        | Full-Coherent Free Electron Laser Seeded by 13th- and 15th-order Harmonics of Near-Infrared Femtosecond Laser Pulses       |
| 31322  | Tommaso Mazza   | 48 (2015)<br>234001 | SCSS |        | Coulomb Frustration of the Multiphoton Ionization of Metallic Clusters under Intense EUV FEL Evidenced by Ion Spectrometry |
| 31325  | Hiroto Motoyama | 48 (2015)<br>244002 | 光学系  |        | Two-Stage Reflective Optical System for Achromatic 10nm X-ray Focusing   |

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 | タイトル  |
|--------|-----------------|-------------------|------|--------|---|
| 31196  | M. Kriener      | 6 (2016)<br>25748 | 理研   | BL44B2 | Heat-Treatment-Induced Switching of Magnetic States in the Doped Polar Semiconductor Ge <sub>1-x</sub> Mn <sub>x</sub> Te                           |
| 31559  | Haruki Eguchi   | 5 (2015)<br>9194  | 理研   | BL32XU | A Magnetic Anti-Cancer Compound for Magnet-Guided Delivery and Magnetic Resonance Imaging   |
| 31666  | Hideaki Shimizu | 6 (2016)<br>26618 | 理研   | BL26B2 | Structure-based Site-directed Photo-crosslinking Analyses of Multimeric Cell-adhesive Interactions of Voltage-gated Sodium Channel $\beta$ Subunits |

Advances in Physics: X

| 研究成果番号 | 主著者             | 雑誌情報                | 装置 & 技術 | ビームライン | タイトル   |
|--------|-----------------|---------------------|---------|--------|--|
| 31143  | Kenichi Kato    | 1 (2016)<br>55-80   | 装置 & 技術 | BL02B2 | Visualizing Charge Densities and Electrostatic Potentials in Materials by Synchrotron X-ray Powder Diffraction |
|        |                 |                     | 理研      | BL44B2 |  |
| 31552  | Hiroyuki Ohsumi | 1 (2016)<br>128-145 | 装置 & 技術 |        | Novel Insight into Structural Magnetism by Polarized Synchrotron X-ray Scattering                              |

Biochemical and Biophysical Research Communications

| 研究成果番号 | 主著者              | 雑誌情報                  | 課題番号 | ビームライン | タイトル  |
|--------|------------------|-----------------------|------|--------|---|
| 31329  | Tomoyuki Tanaka  | 400 (2010)<br>258-264 | 理研   | BL26B1 | Crystal Structure of TTHA0061, an Uncharacterized Protein from <i>Thermus thermophilus</i> HB8, Reveals a Novel Fold  |
|        |                  |                       | 理研   | BL26B2 |   |
| 31331  | Ramya Sundaresan | 420 (2012)<br>692-697 | 理研   | BL26B2 | The Structure of Putative <i>N</i> -acetyl Glutamate Kinase from <i>Thermus thermophilus</i> Reveals an Intermediate Active Site Conformation of the Enzyme |

Biochemistry

| 研究成果番号 | 主著者           | 雑誌情報                   | 課題番号 | ビームライン | タイトル  |
|--------|---------------|------------------------|------|--------|---|
| 31004  | Rika Obata    | 49 (2010)<br>1963-1969 | 理研   | BL26B2 | Structural Basis for Inverting the Enantioselectivity of Arylmalonate Decarboxylase Revealed by the Structural Analysis of the Gly74Cys/Cys188Ser Mutant in the Liganded Form |
|        |               |                        | 理研   | BL44B2 |   |
| 31014  | Yuki Takayama | 50 (2011)<br>1174-1183 | 理研   | BL45XU | Light-induced Movement of the LOV2 Domain in an Asp720Asn Mutated LOV2-Kinase Fragment of <i>Arabidopsis</i> Phototropin 2  |

Journal of Electron Spectroscopy and Related Phenomena-1

| 研究成果番号 | 主著者          | 雑誌情報               | 装置 & 技術 | ビームライン | タイトル   |
|--------|--------------|--------------------|---------|--------|--|
| 31236  | Jonas Weinen | 198 (2015)<br>6-11 | 装置 & 技術 | BL12XU | Polarization Dependent Hard X-ray Photoemission Experiments for Solids: Efficiency and Limits for Unraveling the Orbital Character of the Valence Band |

**Journal of Electron Spectroscopy and Related Phenomena-2**

| 研究成果番号 | 主著者            | 雑誌情報                |         | ビームライン | タイトル   |
|--------|----------------|---------------------|---------|--------|--|
| 31237  | Fabio Strigari | 199 (2015)<br>56-63 | 装置 & 技術 | BL12XU | Quantitative Study of Valence and Configuration Interaction Parameters of the Kondo Semiconductors $CeM_2Al_{10}$ (M = Ru, Os and Fe) by Means of Bulk-Sensitive Hard X-ray Photoelectron Spectroscopy |

**Physical Review B**

|       |                  |                     |      |        |   |
|-------|------------------|---------------------|------|--------|---|
| 31158 | Hiroshi Nakajima | 93 (2016)<br>144116 | 理研   | BL17SU | Quadrupole Moments in Chiral Material $DyFe_3(BO_3)_4$ Observed by Resonant X-ray Diffraction |
|       |                  |                     | 理研   | BL29XU |   |
| 31455 | B. Barbiellini   | 92 (2015)<br>155119 | XFEL | 全般     | Explaining the X-ray Nonlinear Susceptibility of Diamond and Silicon Near Absorption Edges    |

**Physical Review E**

|       |                   |                     |    |  |  |
|-------|-------------------|---------------------|----|--|--|
| 31011 | Takashi Yoshidome | 92 (2015)<br>032710 | 理論 |  | Classification of Projection Images of Proteins with Structural Polymorphism by Manifold: A Simulation Study for X-ray Free-Electron Laser Diffraction Imaging   |
| 31013 | Wataru Kodama     | 84 (2011)<br>021902 | 理論 |  | Application of a Real-Space Three-Dimensional Image Reconstruction Method in the Structural Analysis of Noncrystalline Biological Macromolecules Enveloped by Water in Coherent X-ray Diffraction Microscopy |

**Physical Review Letters**

|       |            |                      |         |        |   |
|-------|------------|----------------------|---------|--------|---|
| 31234 | J. M. Kahn | 112 (2014)<br>117601 | 装置 & 技術 | BL12XU | Understanding the Electronic Structure of $IrO_2$ Using Hard-X-ray Photoelectron Spectroscopy and Density-Functional Theory |
| 31235 | P. Khuntia | 113 (2014)<br>216403 | 装置 & 技術 | BL12XU | Contiguous 3d and 4f Magnetism: Strongly Correlated 3d Electrons in $YbFe_2Al_{10}$   |

**Acta Crystallographica Section F**

|       |                    |                      |    |        |   |
|-------|--------------------|----------------------|----|--------|---|
| 31018 | Masayoshi Nakasako | 64 (2008)<br>610-613 | 理研 | BL44B2 | Crystallization and Preliminary X-ray Diffraction Experiments of Arylmalonate Decarboxylase from <i>Alcaligenes bronchisepticus</i> |
|       |                    |                      | 理研 | BL45XU |   |

**Applied Physics Letters**

|       |                 |                      |         |        |  |
|-------|-----------------|----------------------|---------|--------|--|
| 31229 | Alexander Nyrow | 104 (2014)<br>262408 | 装置 & 技術 | BL12XU | Pressure Induced Spin Transition Revealed by Iron $M_{2,3}$ -edge Spectroscopy |
|-------|-----------------|----------------------|---------|--------|--|

**Chemistry - An Asian Journal**

|       |              |                        |    |        |   |
|-------|--------------|------------------------|----|--------|---|
| 31317 | Kenichi Kato | 11 (2016)<br>1537-1541 | 理研 | BL44B2 | Superionic Conduction in Co-Vacant $P2-Na_xCoO_2$ Created by Hydrogen Reductive Elimination |
|-------|--------------|------------------------|----|--------|---|

**Contributions to Mineralogy and Petrology**

|       |                 |                    |         |        |   |
|-------|-----------------|--------------------|---------|--------|---|
| 31232 | Alexander Nyrow | 167 (2014)<br>1012 | 装置 & 技術 | BL12XU | Iron Speciation in Minerals and Glasses Probed by $M_{2,3}$ -edge X-ray Raman Scattering Spectroscopy |
|-------|-----------------|--------------------|---------|--------|---|

**Extremophiles**

|       |              |                      |    |        |  |
|-------|--------------|----------------------|----|--------|--|
| 31507 | Hitoshi Iino | 19 (2015)<br>643-656 | 理研 | BL45XU | Small-angle X-ray Scattering Analysis Reveals the ATP-bound Monomeric State of the ATPase Domain from the Homodimeric MutL Endonuclease, a GHKL Phosphotransferase Superfamily Protein |
|-------|--------------|----------------------|----|--------|--|

**High Power Laser Science and Engineering**

|       |                    |                 |         |  |  |
|-------|--------------------|-----------------|---------|--|--|
| 31323 | Hiromitsu Tomizawa | 3 (2015)<br>e14 | 装置 & 技術 |  | Stabilization of a High-Order Harmonic Generation Seeded Extreme Ultraviolet Free Electron Laser by Time-Synchronization Control with Electro-Optic Sampling |
|-------|--------------------|-----------------|---------|--|--|

**IUCrJ**

|       |              |                     |         |     |   |
|-------|--------------|---------------------|---------|-----|---|
| 31324 | Ichiro Inoue | 2 (2015)<br>620-626 | 装置 & 技術 | BL3 | Characterizing Transverse Coherence of an Ultra-Intense Focused X-ray Free-Electron Laser by an Extended Young's Experiment |
|-------|--------------|---------------------|---------|-----|---|

**Journal of Materials Chemistry C**

|       |                  |                       |    |        |  |
|-------|------------------|-----------------------|----|--------|--|
| 31343 | Tsuneaki Sakurai | 4 (2016)<br>1490-1496 | 理研 | BL44B2 | Preferential Formation of Columnar Mesophases <i>via</i> Peripheral Modification of Discotic $\pi$ -systems with Immiscible Side Chain Pairs |
|-------|------------------|-----------------------|----|--------|--|

### Journal of Molecular Biology

| 研究成果番号 | 主著者               | 雑誌情報                    |    | ビームライン | タイトル   |
|--------|-------------------|-------------------------|----|--------|--|
| 31376  | Hideyuki Miyatake | 428 (2016)<br>2744-2757 | 理研 | BL26B1 | Molecular Mechanism of HIV-1 Vpr for Binding to Importin- $\alpha$ |

### Journal of Photopolymer Science and Technology

|       |                |                      |    |        |   |
|-------|----------------|----------------------|----|--------|---|
| 31342 | Yusuke Tsutsui | 28 (2015)<br>583-587 | 理研 | BL44B2 | Side Chain-Directed Assembly of Large Discotic $\pi$ -Conjugated Molecules: Toward Tuning and Stabilization of Mesophases |
|-------|----------------|----------------------|----|--------|---|

### Journal of Porphyrins and Phthalocyanines

|       |               |                      |    |        |   |
|-------|---------------|----------------------|----|--------|---|
| 31340 | Satoru Yoneda | 19 (2015)<br>160-170 | 理研 | BL44B2 | Systematic Studies on Side-Chain Structures of Phthalocyaninato-Polysiloxanes: Polymerization and Self-Assembling Behaviors |
|-------|---------------|----------------------|----|--------|---|

### Molecular Cell

|       |        |                      |    |        |   |
|-------|--------|----------------------|----|--------|---|
| 31117 | Fan Wu | 60 (2015)<br>914-929 | 理研 | BL32XU | Structural Basis of the Differential Function of the Two <i>C. elegans</i> Atg8 Homologs, LGG-1 and LGG-2, in Autophagy |
|-------|--------|----------------------|----|--------|---|

### Nature

|       |           |                       |    |        |   |
|-------|-----------|-----------------------|----|--------|---|
| 31560 | Dong Deng | 526 (2015)<br>391-396 | 理研 | BL32XU | Molecular Basis of Ligand Recognition and Transport by Glucose Transporters |
|-------|-----------|-----------------------|----|--------|---|

### Nature Photonics

|       |                  |                      |      |  |  |
|-------|------------------|----------------------|------|--|--|
| 31330 | Mizuho Fushitani | 10 (2016)<br>102-105 | SCSS |  | Femtosecond Two-Photon Rabi Oscillations in Excited He Driven by Ultrashort Intense Laser Fields |
|-------|------------------|----------------------|------|--|--|

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

|       |                   |                       |       |        |   |
|-------|-------------------|-----------------------|-------|--------|---|
| 31326 | Hideaki Matsumura | 794 (2015)<br>255-259 | 装置&技術 |        | Improving Charge-Collection Efficiency of SOI Pixel Sensors for X-ray Astronomy |
|       |                   |                       | 理研    | BL29XU |   |

### Optics Express

|       |               |                    |    |        |  |
|-------|---------------|--------------------|----|--------|--|
| 31301 | Makoto Hirose | 24 (2016)<br>11917 | 理研 | BL29XU | Multiple Defocused Coherent Diffraction Imaging: Method for Simultaneously Reconstructing Objects and Probe using X-ray Free-Electron Lasers |
|-------|---------------|--------------------|----|--------|--|

### Optics Letters

|       |             |                      |       |     |  |
|-------|-------------|----------------------|-------|-----|--|
| 31354 | Yves Kayser | 41 (2016)<br>733-736 | 装置&技術 | BL3 | Shot-to-Shot Diagnostic of the Longitudinal Photon Source Position at the SPring-8 Angstrom Compact Free Electron Laser by Means of X-ray Grating Interferometry |
|-------|-------------|----------------------|-------|-----|--|

### Physical Chemistry Chemical Physics

|       |                |                        |    |        |  |
|-------|----------------|------------------------|----|--------|--|
| 31341 | Yusuke Tsutsui | 17 (2015)<br>9624-9628 | 理研 | BL44B2 | Evaluation of the Intrinsic Charge Carrier Transporting Properties of Linear- and Bent-shaped $\pi$ -extended Benzo-fused Thieno[3,2- <i>b</i> ]thiophenes |
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### Physical Review A

|       |                  |                     |      |    |  |
|-------|------------------|---------------------|------|----|--|
| 31476 | Kazunori Shibata | 92 (2015)<br>053806 | XFEL | 全般 | Intrinsic Formation of Electromagnetic Divergence and Rotation by Parabolic Focusing |
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### Physical Review Special Topics - Accelerators and Beams

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| 31353 | Toru Hara | 19 (2016)<br>020703 | 加速器 | BL3 | Pulse-by-Pulse Multi-Beam-Line Operation for X-ray Free-Electron Lasers |
|       |           |                     | 加速器 | BL2 |   |

### PLoS One

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| 31527 | Hirokichi Saino | 10 (2015)<br>e0145869 | 理研 | BL26B1 | Crystal Structure of OXA-58 with the Substrate-Binding Cleft in a Closed State: Insights into the Mobility and Stability of the OXA-58 Structure |
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### Polymer

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| 31367 | Taizo Kabe | 93 (2016)<br>181-188 | 理研 | BL45XU | Investigating Thermal Properties of and Melting-Induced Structural Changes in Cold-Drawn P(3HB) Films with $\alpha$ - and $\beta$ -structures using Real-Time X-ray Measurements and High-Speed DSC |
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| 31346  | Ichiro Inoue | 113 (2016)<br>1492-1497 | 装置&技術 | BL3    | Observation of Femtosecond X-ray Interactions with Matter using an X-ray-X-ray Pump-Probe Scheme |

**Radiation Protection Dosimetry**

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| 31320 | Toshiro Itoga | 146 (2011)<br>96-99 | 装置&技術 |  | Response Function of a Superheated Drop Neutron Monitor with Lead Shell in the Thermal to 400-MeV Energy Range |
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