

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

公益財団法人高輝度光科学研究センター  
利用推進部

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

[http://www.spring8.or.jp/ja/science/publication\\_database/](http://www.spring8.or.jp/ja/science/publication_database/)

このデータベースに登録された原著論文の内、平成27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 2015 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   | 8     | Acta Crystallographica Section F         | 4     |
| Journal of Applied Physics  | 7     | Chemical Communications                  | 4     |
| Scientific Reports  | 6     | Chemistry - A European Journal           | 4     |
| Applied Physics Letters   | 5     | The Journal of Physical Chemistry B      | 4     |
| Macromolecules  | 5     | The Journal of Physical Chemistry C      | 4     |
| Proceedings of the 9th Pacific Rim International Conference on Modeling of Casting and Solidification Processes | 5     | Journal of the Physical Society of Japan | 4     |
|   |       | Materials Transactions                   | 4     |
| Acta Crystallographica Section D  | 4     | PLoS One                                 | 4     |

他全 140 誌、計 238 報

課題の成果として登録された論文

Journal of Applied Physics

| 研究成果番号    | 主著者             | 雑誌情報                 | 課題番号      | ビームライン | 実験責任者 | タイトル  |
|-----------|-----------------|----------------------|-----------|--------|-------|---|
| 28697     | Tetsuya Koide   | 117 (2015)<br>17E503 | 2010A1149 | BL08W  | 岩瀬 彰宏 | Magnetic Modification at Sub-Surface of FeRh Bulk by Energetic Ion Beam Irradiation   |
|           |                 |                      | 2011B1228 | BL08W  | 岩瀬 彰宏 |   |
| 28721     | Ko Mibu         | 117 (2015)<br>17E126 | 2012B3514 | BL11XU | 壬生 攻  | Attempt to Measure Magnetic Hyperfine Fields in Metallic Thin Wires under Spin Hall Conditions Using Synchrotron-Radiation Mössbauer Spectroscopy   |
|           |                 |                      | 2012B0086 | BL09XU | 瀬戸 誠  |   |
|           |                 |                      | 2013A3501 | BL11XU | 三井 隆也 |   |
|           |                 |                      | 2013A0086 | BL09XU | 瀬戸 誠  |   |
| 28725     | Makoto Matsuura | 117 (2015)<br>17A324 | 2013A1641 | BL14B2 | 松浦 真  | Evolution of fcc Cu Clusters and their Structure Changes in the Soft Magnetic Fe <sub>85.2</sub> Si <sub>9</sub> B <sub>9</sub> P <sub>4</sub> Cu <sub>0.8</sub> (NANOMET) and FINEMET Alloys Observed by X-ray Absorption Fine Structure |
|           |                 |                      | 2013A1642 | BL19B2 | 松浦 真  |   |
|           |                 |                      | 2013B1715 | BL14B2 | 松浦 真  |   |
|           |                 |                      | 2013B1716 | BL19B2 | 松浦 真  |   |
| 2014A1705 | BL14B2          | 松浦 真                 |           |        |       |   |
| 28765     | Bochong Wang    | 117 (2015)<br>17C709 | 2013A1909 | BL25SU | 中村 哲也 | Investigation of Magnetic Anisotropy and Magnetic Moments of Tetragonal Distorted Fe <sub>1-x</sub> Co <sub>x</sub> Films on L1 <sub>0</sub> FePt Underlayer  |
| 28852     | Keiji Iwata     | 117 (2015)<br>17A910 | 2007A3772 | BL22XU | 葛蒲 敬久 | Internal Stress Distribution for Generating Closure Domains in Laser-Irradiated Fe-3%Si(110) Steels   |
|           |                 |                      | 2007B1816 | BL19B2 | 今福 宗行 |   |
| 29041     | Eika Tsunemi    | 117 (2015)<br>234902 | 2012A1031 | BL46XU | 中嶋 敦  | Hard X-ray Photoelectron Spectroscopy using an Environmental Cell with Silicon Nitride Membrane Windows   |
|           |                 |                      | 2012A1819 | BL46XU | 渡辺 義夫 |   |
|           |                 |                      | 2012B1829 | BL46XU | 中嶋 敦  |   |
|           |                 |                      | 2013A1724 | BL46XU | 渡辺 義夫 |   |
| 2013A1870 | BL46XU          | 渡辺 義夫                |           |        |       |   |
| 29069     | Keita Ito       | 117 (2015)<br>193906 | 2010A3877 | BL23SU | 木村 昭夫 | Local Electronic States of Fe <sub>4</sub> N Films Revealed by X-ray Absorption Spectroscopy and X-ray Magnetic Circular Dichroism  |
|           |                 |                      | 2010B3876 | BL23SU | 木村 昭夫 |   |

Physical Review B

|           |                    |                        |           |        |       |   |
|-----------|--------------------|------------------------|-----------|--------|-------|---|
| 28691     | Akihiko Ikeda      | 91 (2015)<br>155402    | 2011B1188 | BL09XU | 岡野 達雄 | Nuclear Resonant Scattering of Synchrotron Radiation by Physisorbed Kr on TiO <sub>2</sub> (110) Surfaces in Multilayer and Monolayer Regimes               |
|           |                    |                        | 2011B1695 | BL09XU | 池田 暁彦 |   |
|           |                    |                        | 2012A1560 | BL09XU | 池田 暁彦 |   |
|           |                    |                        | 2012B1699 | BL09XU | 池田 暁彦 |   |
| 2013A1717 | BL09XU             | 池田 暁彦                  |           |        |       |   |
| 28707     | Takehito Nakano    | 91 (2015)<br>140101(R) | 2011B1054 | BL09XU | 中野 岳仁 | Synchrotron-Radiation-Based Mössbauer Spectroscopy of <sup>40</sup> K in Antiferromagnetic Potassium Nanoclusters in Sodalite                               |
|           |                    |                        | 2012B1238 | BL09XU | 中野 岳仁 |   |
| 28730     | Kazuki Sumida      | 91 (2015)<br>134417    | 2013B4910 | BL15XU | 木村 昭夫 | Spectroscopic Evidence of Band Jahn-Teller Distortion upon Martensitic Phase Transition in Heusler-type Ni-Fe(Co)-Ga Ferromagnetic Shape-memory Alloy Films |
|           |                    |                        | 2014A4903 | BL15XU | 木村 昭夫 |   |
|           |                    |                        | 2013B3880 | BL23SU | 木村 昭夫 |   |
|           |                    |                        | 2014A3880 | BL23SU | 木村 昭夫 |   |
| 28841     | Kenta Kuroda       | 91 (2015)<br>205306    | 2012B4908 | BL15XU | 木村 昭夫 | Tunable Spin Current Due to Bulk Insulating Property in the Topological Insulator Tl <sub>1-x</sub> Bi <sub>1+x</sub> Se <sub>2-δ</sub>                     |
| 28877     | Hisao Kobayashi    | 91 (2015)<br>195148    | 2010B1517 | BL10XU | 小林 寿夫 | Pressure-Induced Unusual Metallic State in EuNiO <sub>3</sub>   |
|           |                    |                        | 2008A1460 | BL09XU | 小林 寿夫 |   |
|           |                    |                        | 2007A1450 | BL09XU | 小林 寿夫 |   |
| 28922     | Tomoaki Yamada     | 91 (2015)<br>214101    | 2010A1522 | BL13XU | 山田 智明 | Phase Transitions Associated with Competing Order Parameters in Compressively Strained SrTiO <sub>3</sub> Thin Films  |
|           |                    |                        | 2014A1499 | BL13XU | 山田 智明 |   |
| 29027     | Shin-ichi Fujimori | 91 (2015)<br>174503    | 2007A3833 | BL23SU | 藤森 伸一 | Electronic Structures of Ferromagnetic Superconductors UGe <sub>2</sub> and UCoGe Studies by Angle-Resolved Photoelectron Spectroscopy                      |
|           |                    |                        | 2010B3824 | BL23SU | 藤森 伸一 |   |

Scientific Reports-1

|       |                  |                   |           |        |        |   |
|-------|------------------|-------------------|-----------|--------|--------|---|
| 28692 | Masanari Izumi   | 5 (2015)<br>9477  | 2013B1145 | BL02B2 | 久保園 芳博 | Emergence of Double-Dome Superconductivity in Ammoniated Metal-Doped FeSe   |
|       |                  |                   | 2014A1102 | BL02B2 | 久保園 芳博 |   |
| 28824 | Takayuki Shibata | 5 (2015)<br>9006  | 2013A1649 | BL02B2 | 守友 浩   | Fast Discharge Process of Layered Cobalt Oxides Due to High Na <sup>+</sup> Diffusion   |
|       |                  |                   | 2014A1056 | BL02B2 | 小林 航   |   |
| 28853 | Kei Hirai        | 5 (2015)<br>7894  | 2013A1184 | BL09XU | 菅 大介   | Strain-Induced Significant Increase in Metal-Insulator Transition Temperature in Oxygen-Deficient Fe Oxide Epitaxial Thin Films |
| 28972 | Hirokazu Masai   | 5 (2015)<br>11224 | 2011B1193 | BL01B1 | 正井 博和  | Tin-Doped Inorganic Amorphous Films for Use as Transparent Monolithic Phosphors   |
|       |                  |                   | 2014B1500 | BL01B1 | 正井 博和  |   |

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  |
|--------|-----------------|-------------------|-----------|--------|-------|---|
| 29039  | Tomoko Sugiyama | 5 (2015)<br>10672 | 2013B1728 | BL37XU | 宇尾 基弘 | Detection of Trace Metallic Elements in Oral Lichenoid Contact Lesions using SR-XRF, PIXE, and XAFS |
| 29067  | Syuusaku Harada | 5 (2015)<br>8520  | 2010B1419 | BL38B1 | 中村 昇太 | Structural Basis for PPAR $\gamma$ Transactivation by Endocrine-Disrupting Organotin Compounds      |
|        |                 |                   | 2011B1259 | BL38B1 | 中村 昇太 |   |
|        |                 |                   | 2012A1379 | BL38B1 | 中村 昇太 |   |
|        |                 |                   | 2012B1217 | BL38B1 | 中村 昇太 |   |

Applied Physics Letters

|       |                       |                      |           |        |       |   |
|-------|-----------------------|----------------------|-----------|--------|-------|---|
| 28728 | Ikuya Yamada          | 106 (2015)<br>151901 | 2012A1619 | BL02B2 | 山田 幾也 | Room-Temperature Zero Thermal Expansion in a Cubic Perovskite Oxide SrCu <sub>3</sub> Fe <sub>4-x</sub> Mn <sub>x</sub> O <sub>12</sub> |
|       |                       |                      | 2014B1129 | BL02B2 | 山田 幾也 |   |
| 28800 | Shinichi Ike          | 106 (2015)<br>182104 | 2013A1682 | BL13XU | 中塚 理  | Characterization of Locally Strained Ge <sub>1-x</sub> Sn <sub>x</sub> /Ge Fine Structures by Synchrotron X-ray Microdiffraction        |
|       |                       |                      | 2013B1779 | BL13XU | 中塚 理  |   |
| 28811 | Shinya Aikawa         | 106 (2015)<br>192103 | 2014B1806 | BL27SU | 塚越 一仁 | Suppression of Excess Oxygen for Environmentally Stable Amorphous In-Si-O Thin-Film Transistors   |
| 28847 | Thantip Krasienapibal | 106 (2015)<br>202402 | 2012B1387 | BL09XU | 福村 知昭 | Observation of Magnetic Domain Structure in Anatase (Ti,Co)O <sub>2</sub> Thin Film at Room Temperature                                 |
| 28878 | Kentaro Toyoki        | 106 (2015)<br>162404 | 2014A0079 | BL25SU | 白土 優  | Magnetoelectric Switching of Perpendicular Exchange Bias in Pt/Co/ $\alpha$ -Cr <sub>2</sub> O <sub>3</sub> /Pt Stacked Films           |
|       |                       |                      | 2014B0079 | BL25SU | 白土 優  |   |

Macromolecules

|       |                    |                        |           |        |       |  |
|-------|--------------------|------------------------|-----------|--------|-------|--|
| 28719 | Yuko Ikeda         | 48 (2015)<br>462-475   | 2009A1929 | BL14B2 | 池田 裕子 | Dinuclear Bridging Bidentate Zinc/Stearate Complex in Sulfur Cross-Linking of Rubber   |
|       |                    |                        | 2009B2044 | BL14B2 | 池田 裕子 |  |
|       |                    |                        | 2010A1778 | BL14B2 | 池田 裕子 |  |
|       |                    |                        | 2010B1928 | BL14B2 | 池田 裕子 |  |
|       |                    |                        | 2012A1419 | BL14B2 | 池田 裕子 |  |
|       |                    |                        | 2012B1891 | BL14B2 | 池田 裕子 |  |
|       |                    |                        | 2013A1828 | BL14B2 | 池田 裕子 |  |
| 28766 | Tomoya Higashihara | 48 (2015)<br>245-255   | 2014B1590 | BL46XU | 東原 知哉 | Synthesis and Characterization of ABC-Type Asymmetric Star Polymers Comprised of Poly(3-hexylthiophene), Polystyrene, and Poly(2-vinylpyridine) Segments |
|       |                    |                        | 2013A1196 | BL46XU | 東原 知哉 |  |
| 28889 | Joseph Scavuzzo    | 48 (2015)<br>1077-1086 | 2011B1884 | BL40B2 | 櫻井 伸一 | Supramolecular Elastomers: Self-Assembling Star-Blocks of Soft Polyisobutylene and Hard Oligo( $\beta$ -alanine) Segments                                |
|       |                    |                        | 2013A1358 | BL45XU | 櫻井 伸一 |  |
| 29061 | Yang Wang          | 48 (2015)<br>4012-4023 | 2014B1103 | BL45XU | 松本 英俊 | New Semiconducting Polymers Based on Benzobisthiadiazole Analogues: Tuning of Charge Polarity in Thin Film Transistors via Heteroatom Substitution       |
| 29074 | Tomohiko Matsuura  | 48 (2015)<br>3337-3343 | 2012B1123 | BL40XU | 金谷 利治 | Microbeam Wide-Angle X-ray Scattering Study on Precursor of Shish Kebab. Effects of Shear Rate and Annealing on Inner Structure                          |
|       |                    |                        | 2013B1404 | BL40B2 | 金谷 利治 |  |

Proceedings of the 9th Pacific Rim International Conference on Modeling of Casting and Solidification Processes

|       |                    |                   |           |        |       |   |
|-------|--------------------|-------------------|-----------|--------|-------|---|
| 28989 | Shugo Morita       | (2014)<br>269-272 | 2013B1242 | BL20XU | 柳楽 知也 | A Macroscopic Model of Semisolid Deformation Including Rearrangement of Solid Grains  |
| 28990 | Kohki Sugimura     | (2014)<br>154-157 | 2012A1269 | BL20XU | 安田 秀幸 | Driving Force at $\delta/\gamma$ Interface in Massive-like Transformation Following the $\delta$ Solidification in Fe-C Alloys            |
|       |                    |                   | 2014A1379 | BL20B2 | 安田 秀幸 |   |
| 28991 | Iori Uwabe         | (2014)<br>234-237 | 2012B1541 | BL20XU | 安田 秀幸 | A Preliminary Study for In-situ Measurement of Solute-Partition for Ni-based Alloys by using X-ray Imaging and Fluorescent X-ray Analysis |
|       |                    |                   | 2013A1015 | BL20XU | 安田 秀幸 |   |
|       |                    |                   | 2013B1472 | BL20B2 | 安田 秀幸 |   |
| 28993 | Tomohiro Nishimura | (2014)<br>238-241 | 2012A1269 | BL20XU | 安田 秀幸 | Interface Morphology in the Massive-like Transformation Following Solidification in Fe-C Alloys   |
|       |                    |                   | 2014A1379 | BL20B2 | 安田 秀幸 |   |
| 28995 | Ryota Ozaki        | (2014)<br>215-217 | 2012B1211 | BL37XU | 安田 秀幸 | Distribution of Modifier Elements in Hypereutectic Al-Si Alloy and a Suggestion of the Mechanism of Modification                          |
|       |                    |                   | 2014A1360 | BL37XU | 安田 秀幸 |   |

Acta Crystallographica Section D-1

|       |             |                        |           |        |       |   |
|-------|-------------|------------------------|-----------|--------|-------|---|
| 28881 | AikHong Teh | 71 (2015)<br>1392-1399 | 2007B1348 | BL38B1 | 熊坂 崇  | Structure of the RsbX Phosphatase Involved in the General Stress Response of <i>Bacillus subtilis</i> |
|       |             |                        | 2008A1233 | BL41XU | 清水 伸隆 |   |

## Acta Crystallographica Section D-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  |
|--------|-----------------|------------------------|-----------|--------|------------------|---|
| 28898  | Chung-De Chen   | 70 (2014)<br>2331-2343 | 2011A4017 | BL12B2 | Chen Chun Jung   | Direct Phase Selection of Initial Phases from Single-Wavelength Anomalous Dispersion (SAD) for the Improvement of Electron Density and <i>ab initio</i> Structure Determination       |
|        |                 |                        | 2011A4002 | BL12B2 | Chen Chun Jung   |   |
|        |                 |                        | 2011B4012 | BL12B2 | Chen Chun Jung   |   |
|        |                 |                        | 2011B4004 | BL12B2 | Chen Chun Jung   |   |
|        |                 |                        | 2012A4009 | BL12B2 | Chen Chun Jung   |   |
| 28899  | Chien Chih Lin  | 71 (2015)<br>1006-1021 | 2012A4009 | BL12B2 | Chen Chun Jung   | Structures of the Hydrolase Domain of Zebrafish 10-formyltetrahydrofolate Dehydrogenase and its Complexes Reveal a Complete Set of Key Residues for Hydrolysis and Product Inhibition |
|        |                 |                        | 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   |   |
| 29020  | Nobutaka Numoto | 70 (2014)<br>1823-1831 | 2009B1215 | BL41XU | 三木 邦夫            | The Structure of a Deoxygenated 400 kDa Haemoglobin Reveals Ternary- and Quaternary-Structural Changes of Giant Haemoglobins  |
|        |                 |                        | 2008B6829 | BL44XU | 三木 邦夫            |   |
|        |                 |                        | 2009A6936 | BL44XU | 三木 邦夫            |   |
|        |                 |                        | 2009B6936 | BL44XU | 三木 邦夫            |   |

## Acta Crystallographica Section F

|       |                   |                        |           |        |                |   |
|-------|-------------------|------------------------|-----------|--------|----------------|---|
| 28782 | Hiroki Takayanagi | 71 (2015)<br>175-183   | 2014A6962 | BL44XU | 湯澤 聡           | Structural Basis for the Recognition of the Scaffold Protein Frmpd4/Preso1 by the TPR Domain of the Adaptor Protein LGN   |
|       |                   |                        | 2014B6962 | BL44XU | 湯澤 聡           |   |
| 28882 | Tsutomu Nakamura  | 71 (2015)<br>657-662   | 2013B1273 | BL38B1 | 中村 努           | Multiple Crystal Forms of <i>N,N</i> -diacetylchitobiose Deacetylase from <i>Pyrococcus furiosus</i>  |
|       |                   |                        | 2014B1325 | BL38B1 | 中村 努           |   |
|       |                   |                        | 2014A6906 | BL44XU | 上垣 浩一          |   |
| 28897 | Yin-cheng Hsieh   | 70 (2014)<br>1228-1231 | 2011A4002 | BL12B2 | Chen Chun Jung | Purification, Crystallization and Preliminary X-ray Crystallographic Analysis of Glycosyltransferase-1 from <i>Bacillus cereus</i>  |
|       |                   |                        | 2012B6760 | BL44XU | Chen Chun Jung |   |
| 29066 | Kazuki Kawahara   | 71 (2015)<br>663-667   | 2012A1379 | BL38B1 | 中村 昇太          | Cloning, Expression, Purification, Crystallization and X-ray Crystallographic Analysis of CofB, the Minor Pilin Subunit of CFA/III from Human Enterotoxigenic <i>Escherichia coli</i> |
|       |                   |                        | 2012B1217 | BL38B1 | 中村 昇太          |   |
|       |                   |                        | 2013A1251 | BL38B1 | 中村 昇太          |   |

## Chemical Communications

|       |                    |                          |           |        |        |  |
|-------|--------------------|--------------------------|-----------|--------|--------|--|
| 28689 | Yota Fukuda        | 51 (2015)<br>6532-6535   | 2013B1704 | BL38B1 | 福田 庸太  | High-Temperature and High-Resolution Crystallography of Thermostable Copper Nitrite Reductase  |
|       |                    |                          | 2013A1592 | BL38B1 | 福田 庸太  |  |
| 28784 | Ran Tao            | 51 (2015)<br>8233-8236   | 2014B1616 | BL46XU | 小金澤 智之 | A Single <i>cis</i> -2 Regioisomer of Ethylene-Tethered Indene Dimer-Fullerene Adduct as an Electron-Acceptor in Polymer Solar Cells |
|       |                    |                          | 2014B1596 | BL46XU | 梅山 有和  |  |
| 28816 | Takayuki Shibata   | 50 (2014)<br>12941-12943 | 2012A1094 | BL02B2 | 守友 浩   | Ultrafast Cation Intercalation in Nanoporous Nickel Hexacyanoferrate   |
|       |                    |                          | 2013B1332 | BL02B2 | 守友 浩   |  |
| 29032 | Katsumasa Nakahara | 50 (2014)<br>5342-5344   | 2012B1245 | BL02B1 | 竹谷 純一  | Furan Fused V-shaped Organic Semiconducting Materials with High Emission and High Mobility   |

## Chemistry - A European Journal

|       |                 |                          |           |        |      |  |
|-------|-----------------|--------------------------|-----------|--------|------|--|
| 28761 | Takahiro Araki  | 21 (2015)<br>6257-6264   | 2011A1426 | BL02B2 | 近藤 篤 | Ordered Microporous Layered Lanthanide 1,3,5-Benzenetriphosphates Pillared with Cationic Organic Molecules   |
|       |                 |                          | 2011B1874 | BL02B2 | 近藤 篤 |  |
| 28860 | Vijay Patel     | 21 (2015)<br>5742-5749   | 2014B1203 | BL02B1 | 山子 茂 | Practical Synthesis of $[n]$ Cycloparaphenylenes ( $n=5, 7-12$ ) by $H_2$ SnCl <sub>2</sub> -Mediated Aromatization of 1,4-Dihydroxycyclo-2,5-diene Precursors |
| 28938 | Hakim Siddiki   | 19 (2013)<br>14416-14419 | 2011B1137 | BL01B1 | 多井 豊 | General and Selective C-3 Alkylation of Indoles with Primary Alcohols by Reusable Pt Nanocluster Catalyst  |
| 28942 | Kenichi Shimizu | 18 (2012)<br>2226-2229   | 2011B1137 | BL01B1 | 多井 豊 | Surface Oxygen-Assisted Pd Nanoparticle Catalysis for Selective Oxidation of Silanes to Silanols   |

**The Journal of Physical Chemistry B**

| 研究成果番号    | 主著者             | 雑誌情報                      | 課題番号      | ビームライン | 実験責任者 | タイトル  |
|-----------|-----------------|---------------------------|-----------|--------|-------|---|
| 28705     | Yuki Noguchi    | 119 (2015)<br>7219-7230   | 2011A1216 | BL10XU | 関 修平  | Pressure Modulation of Backbone Conformation and Intermolecular Distance of Conjugated Polymers Toward Understanding the Dynamism of $\pi$ -Figuration of their Conjugated System |
|           |                 |                           | 2013A1002 | BL10XU | 関 修平  |   |
|           |                 |                           | 2013B1015 | BL10XU | 関 修平  |   |
|           |                 |                           | 2014B1005 | BL10XU | 関 修平  |   |
| 28798     | Yusuke Sanada   | 118 (2014)<br>10373-10379 | 2012A1177 | BL40B2 | 櫻井 和朗 | X-ray Scattering from Immunostimulatory Tetrapod-Shaped DNA in Aqueous Solution To Explore Its Biological Activity-Conformation Relationship                                      |
|           |                 |                           | 2012B1252 | BL40B2 | 櫻井 和朗 |   |
|           |                 |                           | 2012A1218 | BL40B2 | 櫻井 和朗 |   |
|           |                 |                           | 2013A1207 | BL40B2 | 櫻井 和朗 |   |
| 2013A1564 | BL40B2          | 櫻井 和朗                     |           |        |       |   |
| 28809     | Hisashi Hayashi | 119 (2015)<br>5609-5623   | 2014B4252 | BL12XU | 林 久史  | Accurate Measurements of Dielectric and Optical Functions of Liquid Water and Liquid Benzene in the VUV Region (1–100 eV) Using Small-Angle Inelastic X-ray Scattering            |
| 29001     | Kazu Hirose     | 119 (2015)<br>6262-6270   | 2012A1571 | BL04B2 | 土井 寛之 | Microscopic Solvation Structure of Glucose in 1-Ethyl-3-methylimidazolium Methylphosphonate Ionic Liquid  |

**The Journal of Physical Chemistry C**

|           |                 |                         |           |        |        |   |
|-----------|-----------------|-------------------------|-----------|--------|--------|---|
| 28750     | Daisuke Kajiya  | 119 (2015)<br>7987-7995 | 2014B1629 | BL19B2 | 齋藤 健一  | Enhancement of Out-of-plane Mobility in P3HT Film by Rubbing: Aggregation and Planarity Enhanced with Low Regioregularity   |
|           |                 |                         | 2013B1588 | BL19B2 | 齋藤 健一  |   |
| 28769     | Takanori Itoh   | 119 (2015)<br>8447-8458 | 2008B1877 | BL19B2 | 伊藤 孝憲  | Effect of Annealing on Crystal and Local Structures of Doped Zirconia Using Experimental and Computational Methods  |
| 28787     | Takashi Toyao   | 119 (2015)<br>8131-8137 | 2014A1380 | BL01B1 | 堀内 悠   | Immobilization of Cu Complex into Zr-Based MOF with Bipyridine Units for Heterogeneous Selective Oxidation  |
| 28872     | Daiko Takamatsu | 119 (2015)<br>9791-9797 | 2010B1027 | BL01B1 | 小久見 善八 | Effect of an Electrolyte Additive of Vinylene Carbonate on the Electronic Structure at the Surface of a Lithium Cobalt Oxide Electrode under Battery Operating Conditions |
|           |                 |                         | 2011A1011 | BL01B1 | 小久見 善八 |   |
|           |                 |                         | 2011B1019 | BL47XU | 小久見 善八 |   |
|           |                 |                         | 2011B1023 | BL37B1 | 小久見 善八 |   |
|           |                 |                         | 2011B1033 | BL46XU | 小久見 善八 |   |
|           |                 |                         | 2011B1037 | BL01B1 | 小久見 善八 |   |
|           |                 |                         | 2012A1028 | BL47XU | 小久見 善八 |   |
|           |                 |                         | 2012A1029 | BL39XU | 小久見 善八 |   |
|           |                 |                         | 2012A1030 | BL46XU | 小久見 善八 |   |
| 2012A7600 | BL28XU          | 小久見 善八                  |           |        |        |   |
| 2012B7600 | BL28XU          | 小久見 善八                  |           |        |        |   |

**Materials Transactions**

|           |                    |                        |           |        |       |  |
|-----------|--------------------|------------------------|-----------|--------|-------|--|
| 28759     | Satoshi Kameoka    | 56 (2015)<br>490-494   | 2012A4500 | BL15XU | 許 亜   | Formation of Amorphous Pt Oxides: Characterization and Their Catalysis   |
|           |                    |                        | 2012B4502 | BL15XU | 許 亜   |  |
|           |                    |                        | 2013A4900 | BL15XU | 亀岡 聡  |  |
|           |                    |                        | 2013A4902 | BL15XU | 亀岡 聡  |  |
|           |                    |                        | 2013B4901 | BL15XU | 亀岡 聡  |  |
| 2013B4903 | BL15XU             | 亀岡 聡                   |           |        |       |  |
| 28806     | Hiroshi Okuda      | 56 (2015)<br>774-776   | 2011B1437 | BL13XU | 奥田 浩司 | A Trial on Detecting Fluctuations in Bulk Metallic Glass Beams by Strain Contrast Variation Method-Use of High Energy Small-Angle Scattering                         |
|           |                    |                        | 2011B1441 | BL04B2 | 奥田 浩司 |  |
|           |                    |                        | 2012A1183 | BL04B2 | 奥田 浩司 |  |
|           |                    |                        | 2012B1559 | BL40B2 | 奥田 浩司 |  |
| 28807     | Hiroshi Okuda      | 56 (2015)<br>906-909   | 2013B1391 | BL40B2 | 奥田 浩司 | Stability of Long-Period Stacking Ordered Structures at Elevated Temperatures Examined by Multicolor Synchrotron Radiation X-ray Scattering/Diffraction Measurements |
|           |                    |                        | 2014A1022 | BL04B2 | 奥田 浩司 |  |
|           |                    |                        | 2014B1101 | BL04B2 | 奥田 浩司 |  |
| 28923     | Hidetoshi Miyazaki | 55 (2014)<br>1209-1214 | 2011A1626 | BL27SU | 曾田 一雄 | Electronic and Local Crystal Structures of the ZrNiSn Half-Heusler Thermoelectric Material   |
|           |                    |                        | 2011B1745 | BL27SU | 宮崎 秀俊 |  |
|           |                    |                        | 2012A1056 | BL27SU | 曾田 一雄 |  |
|           |                    |                        | 2012B1768 | BL02B2 | 宮崎 秀俊 |  |
| 2013A1515 | BL02B2             | 宮崎 秀俊                  |           |        |       |  |

**PLoS One-1**

|       |               |                       |           |        |      |  |
|-------|---------------|-----------------------|-----------|--------|------|--|
| 28711 | Satoshi Nagao | 10 (2015)<br>e0123653 | 2010B1041 | BL38B1 | 廣田 俊 | Domain-Swapped Dimer of <i>Pseudomonas aeruginosa</i> Cytochrome $c_{551}$ : Structural Insights into Domain Swapping of Cytochrome <i>c</i> Family Proteins |
|-------|---------------|-----------------------|-----------|--------|------|--|

**PLoS One-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   |
|--------|-------------------|-----------------------|-----------|--------|-----------|--|
| 28774  | Aya Toma          | 10 (2015)<br>e0120887 | 2012B1275 | BL41XU | 深井 周也     | Structural Basis for Ubiquitin Recognition by Ubiquitin-Binding Zinc Finger of FAAP20  |
|        |                   |                       | 2013A1231 | BL41XU | 深井 周也     |  |
|        |                   |                       | 2013B1252 | BL41XU | 深井 周也     |  |
| 28836  | Marcus J. Kitchen | 9 (2014)<br>e93391    | 2011A0022 | BL20B2 | Lewis Rob | Changes in Positive End-Expiratory Pressure Alter the Distribution of Ventilation within the Lung Immediately after Birth in Newborn Rabbits |
| 29042  | Midori Murakami   | 10 (2015)<br>e0126970 | 2012B1406 | BL38B1 | 神山 勉      | Crystallographic Study of the LUMI Intermediate of Squid Rhodopsin   |
|        |                   |                       | 2013A1340 | BL38B1 | 神山 勉      |  |
|        |                   |                       | 2013B1366 | BL38B1 | 神山 勉      |  |
|        |                   |                       | 2014A1500 | BL38B1 | 神山 勉      |  |

**Applied Physics Express**

|       |                  |                    |           |        |      |  |
|-------|------------------|--------------------|-----------|--------|------|--|
| 28814 | Takayuki Shibata | 7 (2014)<br>067101 | 2013A1649 | BL02B2 | 守友 浩 | Sodium Ion Diffusion in Layered Na <sub>x</sub> MnO <sub>2</sub> (0.49 ≤ x ≤ 0.75): Comparison with Na <sub>x</sub> CoO <sub>2</sub>             |
| 28821 | Takayuki Shibata | 8 (2015)<br>029201 | 2013A1649 | BL02B2 | 守友 浩 | Sodium Ion Diffusion in Layered Na <sub>x</sub> CoO <sub>2</sub>   |
| 28823 | Takayuki Shibata | 8 (2015)<br>029202 | 2013A1649 | BL02B2 | 守友 浩 | Erratum: "Sodium Ion Diffusion in Layered Na <sub>x</sub> MnO <sub>2</sub> (0.49 ≤ x ≤ 0.75): Comparison with Na <sub>x</sub> CoO <sub>2</sub> " |

**Journal of Alloys and Compounds**

|           |                  |                       |           |        |       |  |
|-----------|------------------|-----------------------|-----------|--------|-------|--|
| 28825     | Kazuo Soda       | 643 (2015)<br>195-200 | 2012A1042 | BL47XU | 曾田 一雄 | Angle-Dependent Hard X-ray Photoemission Study of Nb Hydride Formation in High-Pressure Supercritical Water  |
|           |                  |                       | 2012A1355 | BL47XU | 池永 英司 |  |
|           |                  |                       | 2012A1001 | BL47XU | 曾田 一雄 |  |
|           |                  |                       | 2011A1617 | BL47XU | 曾田 一雄 |  |
| 28827     | Norihiko Okamoto | 644 (2015)<br>287-296 | 2012B1145 | BL02B1 | 乾 晴行  | Crystal Structure Determination of the Γ <sub>2</sub> Phase in the Fe-Zn-Al System by Single-Crystal Synchrotron X-ray Diffraction Combined with Scanning Transmission Electron Microscopy |
|           |                  |                       | 2013A1394 | BL02B1 | 乾 晴行  |  |
|           |                  |                       | 2014B1228 | BL02B1 | 乾 晴行  |  |
| 28888     | Kouichi Kifune   | 645 (2015)<br>382-387 | 2011B1328 | BL02B2 | 松永 利之 | Boundaries of the Homologous Phases in Sb-Te and Bi-Te Binary Alloy Systems  |
|           |                  |                       | 2011B1901 | BL04B2 | 松永 利之 |  |
|           |                  |                       | 2012A1630 | BL02B2 | 松永 利之 |  |
|           |                  |                       | 2012B1796 | BL02B2 | 木船 弘一 |  |
|           |                  |                       | 2013A1707 | BL02B2 | 木船 弘一 |  |
| 2013B0084 | BL02B2           | 久保田 佳基                |           |        |       |  |

**Journal of Physics D: Applied Physics**

|       |                     |                     |           |        |                |  |
|-------|---------------------|---------------------|-----------|--------|----------------|--|
| 28716 | Roman Fetzer        | 48 (2015)<br>164002 | 2011A4901 | BL15XU | Fecher Gerhard | Spin-Resolved Low-Energy and Hard X-ray Photoelectron Spectroscopy of Off-Stoichiometric Co <sub>2</sub> MnSi Heusler Thin Films Exhibiting a Record TMR |
|       |                     |                     | 2011B4906 | BL15XU | Fecher Gerhard |  |
|       |                     |                     | 2013A4907 | BL15XU | Fecher Gerhard |  |
| 28717 | Siham Ouardi        | 48 (2015)<br>164007 | 2012B0043 | BL47XU | Felser Claudia | Magnetic Dichroism Study on Mn <sub>1.8</sub> Co <sub>1.2</sub> Ga Thin Film using a Combination of X-ray Absorption and Photoemission Spectroscopy      |
|       |                     |                     | 2014A0043 | BL47XU | Felser Claudia |  |
|       |                     |                     | 2013A1909 | BL25SU | 中村 哲也          |  |
| 28718 | Olga Meshcheriakova | 48 (2015)<br>164008 | 2012B0043 | BL47XU | Felser Claudia | Structural, Electronic, and Magnetic Properties of Perpendicularly Magnetised Mn <sub>2</sub> RhSn Thin Films  |
|       |                     |                     | 2011B4906 | BL15XU | Fecher Gerhard |  |
|       |                     |                     | 2013A4907 | BL15XU | Fecher Gerhard |  |

**Journal of Physics: Conference Series**

|       |                |                      |           |        |       |  |
|-------|----------------|----------------------|-----------|--------|-------|--|
| 28734 | M. Y. Kimura   | 592 (2015)<br>012003 | 2008B1450 | BL25SU | 関山 明  | Soft X-ray Angle-Resolved and Resonance Photoemission Study of CeCu <sub>2</sub> Ge <sub>2</sub> and LaCu <sub>2</sub> Ge <sub>2</sub> |
|       |                |                      | 2009A1005 | BL25SU | 関山 明  |  |
|       |                |                      | 2009B1014 | BL25SU | 関山 明  |  |
|       |                |                      | 2011B1348 | BL25SU | 関山 明  |  |
|       |                |                      | 2010B3834 | BL23SU | 関山 明  |  |
|       |                |                      | 2011A3833 | BL23SU | 関山 明  |  |
| 28744 | Kazuhei Wakiya | 592 (2015)<br>012024 | 2012A1506 | BL35XU | 鬼丸 孝博 | Interplay between Low-Energy Optical Phonon Modes and Structural Transition in PrT <sub>2</sub> Zn <sub>20</sub> (T=Ru and Ir)         |
|       |                |                      | 2012B1596 | BL35XU | 鬼丸 孝博 |  |
|       |                |                      | 2014A1678 | BL35XU | 脇倉 和平 |  |
| 28953 | Kozo Shinoda   | 502 (2014)<br>012025 | 2009A1777 | BL19B2 | 篠田 弘造 | Particle Size Dependence in Thermal Disorder/Order Transformation of FeCo Alloy  |

Journal of Synchrotron Radiation

| 研究成果番号 | 主著者               | 雑誌情報                 | 課題番号      | ビームライン | 実験責任者 | タイトル   |
|--------|-------------------|----------------------|-----------|--------|-------|--|
| 28746  | Yuji Saitoh       | 19 (2012)<br>388-393 | 2011A3835 | BL23SU | 岡根 哲夫 | Performance Upgrade in the JAEA Actinide Science Beamline BL23SU at SPring-8 with a New Twin-Helical Undulator       |
| 28783  | Hidenori Fujiwara | 22 (2015)<br>776-780 | 2011B1348 | BL25SU | 関山 明  | Soft X-ray Angle-Resolved Photoemission with Micro-Positioning Techniques for Metallic V <sub>2</sub> O <sub>3</sub> |
|        |                   |                      | 2012A1486 | BL25SU | 藤原 秀紀 |  |
|        |                   |                      | 2013A1089 | BL25SU | 藤原 秀紀 |  |
| 28790  | Yasumasa Joti     | 22 (2015)<br>571-576 | 2012B8053 | BL3    | 城地 保昌 | Data Acquisition System for X-ray Free-Electron Laser Experiments at SACLA   |
|        |                   |                      | 2013A8062 | BL3    | 城地 保昌 |  |
|        |                   |                      | 2013B8069 | BL3    | 城地 保昌 |  |
|        |                   |                      | 2014B8072 | BL3    | 城地 保昌 |  |
|        |                   |                      | 2014A8052 | BL3    | 城地 保昌 |  |

Journal of the Physical Society of Japan

|       |                |                     |           |         |        |   |
|-------|----------------|---------------------|-----------|---------|--------|---|
| 28693 | Keisuke Kurita | 84 (2015)<br>043201 | 2012A7432 | BL07LSU | 関場 大一郎 | Multi-Phonon EXcitations in Fe 2p RIXS on Mg <sub>2</sub> FeH <sub>6</sub>  |
|       |                |                     | 2012B7440 | BL07LSU | 関場 大一郎 |   |
| 28735 | Takeo Mori     | 83 (2014)<br>123702 | 2014A1149 | BL19LXU | 関山 明   | Probing Strongly Correlated 4f-Orbital Symmetry of the Ground State in Yb Compounds by Linear Dichroism in Core-Level Photoemission |
| 29040 | Yuina Kanai    | 84 (2015)<br>073705 | 2014A1149 | BL19LXU | 関山 明   | Evidence for $\Gamma_8$ Ground-State Symmetry of Cubic YbB <sub>12</sub> Probed by Linear Dichroism in Core-Level Photoemission     |
|       |                |                     | 2014B1305 | BL19LXU | 関山 明   |   |

Nature Communications

|           |                  |                  |           |        |                |  |
|-----------|------------------|------------------|-----------|--------|----------------|--|
| 28699     | Yongchan Lee     | 6 (2015)<br>6112 | 2014A1116 | BL32XU | 西澤 知宏          | Structural Basis for the Facilitative Diffusion Mechanism by SemiSWEET Transporter   |
| 28776     | Atsushi Yamagata | 6 (2015)<br>6926 | 2011A1396 | BL32XU | 山形 敦史          | Mechanisms of Splicing-Dependent <i>trans</i> -synaptic Adhesion by PTP $\delta$ -IL1RAPL1/IL-1RAcP for Synaptic Differentiation |
|           |                  |                  | 2011A1052 | BL41XU | 深井 周也          |  |
|           |                  |                  | 2011B1237 | BL41XU | 山形 敦史          |  |
|           |                  |                  | 2011B1160 | BL41XU | 深井 周也          |  |
|           |                  |                  | 2011B1170 | BL41XU | 深井 周也          |  |
|           |                  |                  | 2012A1398 | BL41XU | 深井 周也          |  |
|           |                  |                  | 2012B1275 | BL41XU | 深井 周也          |  |
|           |                  |                  | 2013A1231 | BL41XU | 深井 周也          |  |
| 2013B1252 | BL41XU           | 深井 周也            |           |        |                |  |
| 29019     | Sophie Canton    | 6 (2015)<br>6359 | 2012A8049 | BL3    | Nielsen Martin | Visualizing the Non-equilibrium Dynamics of Photoinduced Intramolecular Electron Transfer with Femtosecond X-ray Pulses          |

Transactions of the Materials Research Society of Japan

|       |                 |                      |           |        |       |  |
|-------|-----------------|----------------------|-----------|--------|-------|--|
| 28703 | Yasuhiro Yoneda | 40 (2015)<br>29-32   | 2011A1069 | BL04B2 | 米田 安宏 | Local Structure Analysis of BaTiO <sub>3</sub> Modulated by Mn Substitution  |
|       |                 |                      | 2011B1129 | BL04B2 | 米田 安宏 |  |
|       |                 |                      | 2012A3607 | BL14B1 | 米田 安宏 |  |
|       |                 |                      | 2012B3608 | BL14B1 | 米田 安宏 |  |
| 28704 | Yasuhiro Yoneda | 39 (2014)<br>455-458 | 2012A1116 | BL04B2 | 米田 安宏 | Local Structure Analysis of Nb-related Perovskite Materials  |
|       |                 |                      | 2012B1133 | BL04B2 | 米田 安宏 |  |
|       |                 |                      | 2012A3607 | BL14B1 | 米田 安宏 |  |
|       |                 |                      | 2013A3608 | BL14B1 | 米田 安宏 |  |
| 29055 | Yasuhiro Yoneda | 39 (2014)<br>247-250 | 2010A1068 | BL04B2 | 米田 安宏 | Local Structure Analysis of Li-substituted (Bi <sub>0.5</sub> Na <sub>0.5</sub> )TiO <sub>3</sub> and NaNbO <sub>3</sub> |
|       |                 |                      | 2009B1084 | BL04B2 | 米田 安宏 |  |
|       |                 |                      | 2010B3607 | BL14B1 | 米田 安宏 |  |
|       |                 |                      | 2009B3616 | BL14B1 | 米田 安宏 |  |
|       |                 |                      | 2013A3608 | BL14B1 | 米田 安宏 |  |

ACS Applied Materials & Interfaces

|       |                |                       |           |        |      |   |
|-------|----------------|-----------------------|-----------|--------|------|---|
| 28875 | Keisuke Fugane | 7 (2015)<br>2698-2707 | 2012A4610 | BL15XU | 森 利之 | Defect Structure Analysis of Heterointerface between Pt and CeO <sub>x</sub> Promoter on Pt Electro-Catalyst                                  |
| 28887 | Tsubasa Mikie  | 7 (2015)<br>8915-8922 | 2014B1915 | BL46XU | 尾坂 格 | Stereochemistry of Spiro-Acetalized [60]Fullerenes: How the <i>Exo</i> and <i>Endo</i> Stereoisomers Influence Organic Solar Cell Performance |

### Advanced Materials

| 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  |
|--------|-------------------|------------------------|-----------|--------|-------|---|
| 29030  | Toshihiro Okamoto | 25 (2013)<br>6392-6397 | 2012A1685 | BL02B1 | 竹谷 純一 | V-Shaped Organic Semiconductors With Solution Processability, High Mobility, and High Thermal Durability      |
| 29033  | Chikako Mitsui    | 26 (2014)<br>4546-4551 | 2012B1245 | BL02B1 | 竹谷 純一 | High-Performance Solution-Processable N-Shaped Organic Semiconducting Materials with Stabilized Crystal Phase |

### Biophysical Journal

|       |                 |                         |           |        |       |   |
|-------|-----------------|-------------------------|-----------|--------|-------|---|
| 29038 | Shiori Toba     | 108 (2015)<br>2843-2853 | 2005B0331 | BL45XU | 大岩 和弘 | X-Ray Fiber Diffraction Recordings from Oriented Demembrated <i>Chlamydomonas</i> Flagellar Axonemes          |
|       |                 |                         | 2006A1329 | BL45XU | 大岩 和弘 |   |
|       |                 |                         | 2006B1418 | BL45XU | 榊原 齊  |   |
| 29043 | Tsutomu Kouyama | 108 (2015)<br>2680-2690 | 2012B1498 | BL38B1 | 神山 勉  | Crystal Structures of the L <sub>1</sub> , L <sub>2</sub> , N, and O States of <i>pharaonis</i> Halorhodopsin |
|       |                 |                         | 2013A1454 | BL38B1 | 神山 勉  |   |
|       |                 |                         | 2014A1391 | BL38B1 | 神山 勉  |   |
|       |                 |                         | 2014B1392 | BL38B1 | 神山 勉  |   |

### Bulletin of the Chemical Society of Japan

|       |                  |                      |           |        |        |  |
|-------|------------------|----------------------|-----------|--------|--------|--|
| 28793 | Wenjing Li       | 86 (2013)<br>651-656 | 2012A1177 | BL40B2 | 櫻井 和朗  | Structural Transition of Lipopolysaccharide and Reduction in the Biological Activity by Amphiphilic Lipid with Cationic Amino Acid   |
|       |                  |                      | 2012A1218 | BL40B2 | 櫻井 和朗  |  |
|       |                  |                      | 2012B1252 | BL40B2 | 櫻井 和朗  |  |
| 28873 | Yoshiteru Hosaka | 88 (2015)<br>657-661 | 2012A1588 | BL02B2 | 山田 まりな | Ca <sub>2</sub> FeMnO <sub>6</sub> : A Layered Double Perovskite with Unusual High-Valence Fe <sup>4+</sup> in a Layered Arrangement |
|       |                  |                      | 2012B1712 | BL02B2 | 山田 まりな |  |
|       |                  |                      | 2014B1770 | BL02B2 | 保坂 祥輝  |  |

### Catalysis Science & Technology

|       |                   |                       |           |        |      |  |
|-------|-------------------|-----------------------|-----------|--------|------|--|
| 28927 | Kenichi Kon       | 4 (2014)<br>3227-3234 | 2012A1734 | BL14B2 | 多井 豊 | Selective Hydrogenation of Levulinic Acid to Valeric Acid and Valeric Biofuels by Pt/HMFI Catalyst   |
| 28936 | Chandan Chaudhari | 4 (2014)<br>1064-1069 | 2012A1734 | BL14B2 | 多井 豊 | C-3 Alkylation of Oxindole with Alcohols by Pt/CeO <sub>2</sub> Catalyst in Additive-free Conditions |

### Clay Science

|       |                 |                     |           |        |       |   |
|-------|-----------------|---------------------|-----------|--------|-------|---|
| 29022 | Takuya Tsuji    | 18 (2014)<br>93-97  | 2012B3610 | BL14B1 | 松村 大樹 | Local Structure around Cesium in Montmorillonite, Vermiculite and Zeolite under Wet Condition               |
|       |                 |                     | 2013A3609 | BL14B1 | 松村 大樹 |   |
|       |                 |                     | 2013B3609 | BL14B1 | 松村 大樹 |   |
| 29062 | Daiju Matsumura | 18 (2014)<br>99-105 | 2012B3610 | BL14B1 | 松村 大樹 | Real-Time-Resolved X-ray Absorption Fine Structure Spectroscopy for Cesium Adsorption on Some Clay Minerals |
|       |                 |                     | 2013A3609 | BL14B1 | 松村 大樹 |   |

### Earth and Planetary Science Letters

|       |                     |                     |           |        |       |  |
|-------|---------------------|---------------------|-----------|--------|-------|--|
| 28770 | Toshihiro Yoshimura | 421 (2015)<br>68-74 | 2011B1993 | BL27SU | 為則 雄祐 | Mg Coordination in Biogenic Carbonates Constrained by Theoretical and Experimental XANES |
|       |                     |                     | 2011B1202 | BL27SU | 為則 雄祐 |  |
|       |                     |                     | 2012A1556 | BL27SU | 吉村 寿紘 |  |
| 28846 | Shigehiko Tateno    | 418 (2015)<br>11-19 | 2011B0087 | BL10XU | 廣瀬 敬  | The Structure of Fe-Si Alloy in Earth's Inner Core                                       |
|       |                     |                     | 2011B1405 | BL10XU | 桑山 靖弘 |  |
|       |                     |                     | 2012A0087 | BL10XU | 廣瀬 敬  |  |
|       |                     |                     | 2012B1212 | BL10XU | 桑山 靖弘 |  |
|       |                     |                     | 2013B0087 | BL10XU | 廣瀬 敬  |  |

### ECS Transactions

|       |                  |                      |           |        |       |   |
|-------|------------------|----------------------|-----------|--------|-------|---|
| 28934 | Akinobu Teramoto | 66 (2015)<br>151-159 | 2012B1725 | BL46XU | 本谷 宗  | Effect of Hydrogen on Silicon Nitrides Formation by Microwave Excited Plasma Enhanced Chemical Vapor Deposition |
| 29072 | Koji Amezawa     | 66 (2015)<br>129-135 | 2011B1705 | BL37XU | 雨澤 浩史 | Determination of Effective Reaction Area in a Mixed-Conducting SOFC Cathode                                     |
|       |                  |                      | 2012A1455 | BL37XU | 雨澤 浩史 |   |
|       |                  |                      | 2012B1492 | BL37XU | 雨澤 浩史 |   |
|       |                  |                      | 2013A1456 | BL37XU | 雨澤 浩史 |   |

### Japanese Journal of Applied Physics-1

|       |               |                     |           |        |       |   |
|-------|---------------|---------------------|-----------|--------|-------|---|
| 28842 | Atsuko Kosuga | 54 (2015)<br>061801 | 2014B1334 | BL02B2 | 小菅 厚子 | High-temperature Thermoelectric Properties and Thermal Stability in Air of Copper Zinc Tin Sulfide for the p-type Leg of Thermoelectric Devices |
|       |               |                     | 2014A1206 | BL02B2 | 山田 幾也 |   |



**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   |
|--------|--------------------|----------------------|-----------|--------|-------|--|
| 29029  | Katsumasa Nakahara | 52 (2013)<br>05DC-10 | 2012A1685 | BL02B1 | 竹谷 純一 | Investigation of Hole Transporting Properties in Thin-Film and Single-Crystal Organic Field-Effect Transistor Based on Dinaphtho[2,1-b:1',2'-d]thiophene |

**Journal of Power Sources**

|       |                 |                       |           |        |        |   |
|-------|-----------------|-----------------------|-----------|--------|--------|---|
| 28709 | Shinji Yamamoto | 278 (2015)<br>76-86   | 2013A5390 | BL16B2 | 高橋 伊久磨 | Improvement of Cycling Performance in Ti Substituted 0.5Li <sub>2</sub> MnO <sub>3</sub> -0.5LiNi <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>2</sub> through Suppressing Metal Dissolution |
|       |                 |                       | 2013B5390 | BL16B2 | 高橋 伊久磨 |   |
|       |                 |                       | 2014A5390 | BL16B2 | 高橋 伊久磨 |   |
| 28760 | Yung-Han Huang  | 281 (2015)<br>138-145 | 2012A4500 | BL15XU | 許 亜    | Catalysts Prepared from Copper-Nickel Ferrites for the Steam Reforming of Methanol  |
|       |                 |                       | 2012B4502 | BL15XU | 許 亜    |   |
|       |                 |                       | 2013A4900 | BL15XU | 亀岡 聡   |   |
|       |                 |                       | 2013A4902 | BL15XU | 亀岡 聡   |   |
|       |                 |                       | 2013B4901 | BL15XU | 亀岡 聡   |   |
|       |                 |                       | 2013B4903 | BL15XU | 亀岡 聡   |   |

**Langmuir**

|       |             |                        |           |        |       |   |
|-------|-------------|------------------------|-----------|--------|-------|---|
| 28748 | Ryo Iida    | 31 (2015)<br>4054-4062 | 2012A8034 | BL3    | 西野 吉則 | Synthesis of Janus-Like Gold Nanoparticles with Hydrophilic/Hydrophobic Faces by Surface Ligand Exchange and Their Self-Assemblies in Water |
|       |             |                        | 2012B8039 | BL3    | 西野 吉則 |   |
|       |             |                        | 2013A8046 | BL3    | 西野 吉則 |   |
|       |             |                        | 2013B8051 | BL3    | 西野 吉則 |   |
| 28794 | Keita Nakai | 29 (2013)<br>9651-9661 | 2012A1177 | BL40B2 | 櫻井 和朗 | Preparation and Characterization of Polyion Complex Micelles with Phosphobetaine Shells   |
|       |             |                        | 2012A1218 | BL40B2 | 櫻井 和朗 |   |
|       |             |                        | 2012B1252 | BL40B2 | 櫻井 和朗 |   |
|       |             |                        |           |        |       |   |

**Materials Science and Technology**

|       |                 |                      |           |        |                 |  |
|-------|-----------------|----------------------|-----------|--------|-----------------|--|
| 28772 | Chiradeep Gupta | 31 (2015)<br>603-626 | 2011B1164 | BL20XU | Gupta Chiradeep | 3D Creep Cavitation Characteristics and Residual Life Assessment in High Temperature Steels: a Critical Review |
|       |                 |                      | 2012A1049 | BL20XU | Gupta Chiradeep |  |
| 28773 | Chiradeep Gupta | 31 (2015)<br>513-515 | 2011B1164 | BL20XU | Gupta Chiradeep | Cavitation Studies in Materials: New Insights from Modern Techniques in 2D/3D/4D Characterisation              |
|       |                 |                      | 2012A1049 | BL20XU | Gupta Chiradeep |  |

**Nature**

|       |                |                       |           |        |          |   |
|-------|----------------|-----------------------|-----------|--------|----------|---|
| 28756 | Hiroaki Tanabe | 520 (2015)<br>312-316 | 2012A1332 | BL32XU | 保坂 俊彰    | Crystal Structures of the Human Adiponectin Receptors                     |
|       |                |                       | 2012B1453 | BL32XU | 保坂 俊彰    |   |
|       |                |                       | 2013B1034 | BL32XU | 保坂 俊彰    |   |
|       |                |                       | 2014A1186 | BL32XU | 藤井 佳史    |   |
| 28777 | Dandan Zhang   | 520 (2015)<br>317-321 | 2014A1094 | BL41XU | Wu Beili | Two Disparate Ligand-Binding Sites in the Human P2Y <sub>1</sub> Receptor |
|       |                |                       | 2014B1056 | BL41XU | Wu Beili |   |

**Organic Letters**

|       |               |                        |           |        |       |   |
|-------|---------------|------------------------|-----------|--------|-------|---|
| 28843 | Hiroshi Danjo | 17 (2015)<br>2154-2157 | 2014A1214 | BL26B2 | 檀上 博史 | Nestable Tetrakis(spiroborate) Nanocycles                 |
|       |               |                        | 2014B1423 | BL38B1 | 檀上 博史 |   |
| 28844 | Hiroshi Danjo | 17 (2015)<br>2466-2469 | 2014B1423 | BL38B1 | 檀上 博史 | Multilayered Inclusion Nanocycles of Anionic Spiroborates |

**Physica Status Solidi B**

|       |                 |                         |           |        |        |   |
|-------|-----------------|-------------------------|-----------|--------|--------|---|
| 28810 | Takuji Arauchi  | 252 (2015)<br>1149-1154 | 2013A1663 | BL13XU | 酒井 朗   | Crystalline Property Analysis of Semipolar (20-21) GaN on (22-43) Patterned Sapphire Substrate by X-ray Microdiffraction and Transmission Electron Microscopy |
|       |                 |                         | 2013B1773 | BL13XU | 竹内 正太郎 |   |
| 28879 | Shinya Hosokawa | 252 (2015)<br>1225-1229 | 2009B4139 | BL12B2 | 細川 伸也  | Structural Studies on TlInSe <sub>2</sub> Thermoelectric Material by X-ray Fluorescence Holography, XAFS, and X-ray Diffraction                               |
|       |                 |                         | 2010A4130 | BL12B2 | 細川 伸也  |   |
|       |                 |                         | 2011B4125 | BL12B2 | 細川 伸也  |   |

**Physical Review Letters-1**

|       |              |                      |           |       |       |  |
|-------|--------------|----------------------|-----------|-------|-------|--|
| 28786 | Junpei Okada | 114 (2015)<br>177401 | 2007B1235 | BL08W | 岡田 純平 | Visualizing the Mixed Bonding Properties of Liquid Boron with High-Resolution X-Ray Compton Scattering |
|-------|--------------|----------------------|-----------|-------|-------|--|

## Physical Review Letters-2

| 研究成果番号 | 主著者          | 雑誌情報                 | 課題番号      | ビームライン | 実験責任者 | タイトル   |
|--------|--------------|----------------------|-----------|--------|-------|--|
| 29037  | Jobu Matsuno | 114 (2015)<br>247209 | 2013B3784 | BL22XU | 和達 大樹 | Engineering a Spin-Orbital Magnetic Insulator by Tailoring Superlattices |
|        |              |                      | 2011A1624 | BL47XU | 和達 大樹 |  |
|        |              |                      | 2011B1710 | BL47XU | 和達 大樹 |  |
|        |              |                      | 2012A1624 | BL47XU | 和達 大樹 |  |
|        |              |                      | 2012B1757 | BL47XU | 和達 大樹 |  |

## Polymer

|       |              |                      |           |        |      |   |
|-------|--------------|----------------------|-----------|--------|------|---|
| 28901 | Xinyue Jiang | 68 (2015)<br>221-226 | 2012A1059 | BL40B2 | 寺尾 憲 | Chain Dimensions and Intermolecular Interactions of Polysilanes Bearing Alkyl Side Groups over the UV Thermochromic Temperature |
|       |              |                      | 2012B1050 | BL40B2 | 寺尾 憲 |   |
|       |              |                      | 2013A1046 | BL40B2 | 寺尾 憲 |   |
|       |              |                      | 2013B1515 | BL19B2 | 寺尾 憲 |   |
| 28929 | Di Tao       | 60 (2015)<br>284-291 | 2011B1320 | BL43IR | 高原 淳 | Chain Orientation in Poly(glycolic acid)/halloysite Nanotube Hybrid Electrospun Fibers  |
|       |              |                      | 2011B1433 | BL40XU | 高原 淳 |   |

## Polymer Journal

|       |                   |                      |           |        |       |   |
|-------|-------------------|----------------------|-----------|--------|-------|---|
| 28768 | Seijiro Fukuta    | 47 (2015)<br>513-521 | 2014B1590 | BL46XU | 東原 知哉 | Synthesis of 1,3,4-thiadiazole-based Donor-Acceptor Alternating Copolymers for Polymer Solar Cells with High Open-Circuit Voltage |
| 28795 | Shunsuke Sakamoto | 25 (2014)<br>617-622 | 2013A1564 | BL40B2 | 櫻井 和朗 | Chain-Length Dependence of Polyion Complex Architecture Bearing Phosphobetaine Block Explored using SAXS and FFF-MALS             |
|       |                   |                      | 2013A1207 | BL40B2 | 櫻井 和朗 |   |
|       |                   |                      | 2013B1203 | BL40B2 | 櫻井 和朗 |   |
|       |                   |                      | 2013A1594 | BL40B2 | 坂本 俊介 |   |

## Review of Scientific Instruments

|       |               |                     |           |        |       |  |
|-------|---------------|---------------------|-----------|--------|-------|--|
| 28855 | Yoshio Suzuki | 86 (2015)<br>043701 | 2012B1302 | BL20XU | 鈴木 芳生 | Interaction between Periodic Structures of Object and X-ray Standing Wave Generated by Wavefront-Division Interferometer |
|       |               |                     | 2013B1255 | BL20XU | 鈴木 芳生 |  |
| 28933 | Takeshi Sakai | 86 (2015)<br>033905 | 2013A1314 | BL10XU | 境 毅   | High-Pressure Generation using Double Stage Micro-Paired Diamond Anvils Shaped by Focused Ion Beam                       |
|       |               |                     | 2014A1189 | BL10XU | 境 毅   |  |

## Soft Matter

|       |                    |                        |           |        |       |   |
|-------|--------------------|------------------------|-----------|--------|-------|---|
| 28850 | Kazuhiro Shikinaka | 11 (2015)<br>3869-3874 | 2011B1407 | BL45XU | 敷中 一洋 | Helical Alignment Inversion of Microtubules in Accordance with a Structural Change in Their Lattice |
| 28900 | Hirosugu Kikuchi   | 11 (2015)<br>4572-4575 | 2011B1727 | BL40B2 | 菊池 裕嗣 | A Giant Polymer Lattice in a Polymer-stabilized Blue Phase Liquid Crystal                           |
|       |                    |                        | 2007B1750 | BL40B2 | 菊池 裕嗣 |   |
|       |                    |                        | 2007A2000 | BL40B2 | 菊池 裕嗣 |   |

## Synlett

|       |                 |                        |           |        |       |   |
|-------|-----------------|------------------------|-----------|--------|-------|---|
| 28963 | Eiichi Kayahara | 26 (2015)<br>1615-1619 | 2015A1919 | BL02B1 | 山子 茂  | Selective and Gram-Scale Synthesis of [6] Cycloparaphenylene  |
| 29054 | Ichiro Hisaki   | 26 (2015)<br>1601-1605 | 2009B1969 | BL38B1 | 久木 一朗 | Synthesis of Chiral Assembly from Achiral Octahydrotribenzo[14]annulene Derivative by Using Twofold Helical Hydrogen-Bonding Template |
|       |                 |                        | 2014A1252 | BL38B1 | 久木 一朗 |   |

## X線分析の進歩 (Advances in X-ray Chemical Analysis, Japan)

|       |                  |                      |           |        |       |  |
|-------|------------------|----------------------|-----------|--------|-------|--|
| 28931 | Shuuichi Morooka | 46 (2015)<br>293-308 | 2012B1576 | BL37XU | 中井 泉  | Cs-adsorption Behavior of Soil Samples Collected in Fukushima Prefecture   |
| 28932 | Naochika Kon     | 46 (2015)<br>277-292 | 2009A1919 | BL19B2 | 大坂 恵一 | Construction of Forensic Soil Database of the Tohoku Region in Japan by Using Synchrotron Radiation X-Ray Analysis and Development of a Provenance Estimation Method of the Soil Samples |
|       |                  |                      | 2011A1729 | BL19B2 | 大坂 恵一 |  |
|       |                  |                      | 2011B1833 | BL19B2 | 大坂 恵一 |  |
|       |                  |                      | 2012B1400 | BL19B2 | 大坂 恵一 |  |
|       |                  |                      | 2013A1329 | BL19B2 | 大坂 恵一 |  |
|       |                  |                      | 2013B1565 | BL19B2 | 大坂 恵一 |  |
|       |                  |                      | 2014A1781 | BL19B2 | 大坂 恵一 |  |
|       |                  |                      | 2010A1374 | BL08W  | 大坂 恵一 |  |
|       |                  |                      | 2011B1401 | BL08W  | 大坂 恵一 |  |
|       |                  |                      | 2012A1343 | BL08W  | 大坂 恵一 |  |
|       |                  |                      | 2013A1331 | BL08W  | 大坂 恵一 |  |
|       |                  |                      | 2013B1564 | BL08W  | 大坂 恵一 |  |

**鑄造工学 (Journal of Japanese Foundry Engineering Society)**

| 研究成果番号 | 主著者             | 雑誌情報                 | 課題番号      | ビームライン | 実験責任者 | タイトル   |
|--------|-----------------|----------------------|-----------|--------|-------|--|
| 28986  | Koshiro Yamane  | 85 (2013)<br>760-770 | 2012A1302 | BL20XU | 杉山 明  | Time-resolved and in-situ Observation of Solidification in Hypereutectic Fe-3.8C-3.1Si Alloys with Mg Addition |
|        |                 |                      | 2012B1293 | BL20XU | 杉山 明  |  |
| 28987  | Hideyuki Yasuda | 86 (2014)<br>461-470 | 2012A1302 | BL20XU | 杉山 明  | Influence of Mg Content on Graphite Growth in Hypereutectic Cast Iron and Crystallographic Feature of Graphite |
|        |                 |                      | 2012B1293 | BL20XU | 杉山 明  |  |

**分析化学 (Bunseki Kagaku)**

|       |                    |                      |           |        |       |   |
|-------|--------------------|----------------------|-----------|--------|-------|---|
| 28743 | Toshiyuki Takamuku | 64 (2015)<br>203-210 | 2012A3614 | BL14B1 | 高椋 利幸 | Structure of Aqueous Calcium Chloride Solutions by Energy-Dispersive X-ray Diffraction under High Temperatures and High Pressures |
|       |                    |                      | 2012B3621 | BL14B1 | 高椋 利幸 |   |
| 28876 | Koji Yoshida       | 64 (2015)<br>283-293 | 2011B1349 | BL35XU | 吉田 亨次 | Investigation of Protein Hydration with Quantum Beams   |
|       |                    |                      | 2011A1075 | BL35XU | 吉田 亨次 |   |

**ACS Catalysis**

|       |                 |                     |           |        |      |  |
|-------|-----------------|---------------------|-----------|--------|------|--|
| 28940 | Kenichi Shimizu | 3 (2013)<br>112-117 | 2011B1137 | BL01B1 | 多井 豊 | Heterogeneous Ni Catalyst for Direct Synthesis of Primary Amines from Alcohols and Ammonia |
|-------|-----------------|---------------------|-----------|--------|------|--|

**Acta Materialia**

|       |               |                        |           |        |                     |  |
|-------|---------------|------------------------|-----------|--------|---------------------|--|
| 28956 | Joana Fonseca | 61 (2013)<br>4169-4179 | 2011A1209 | BL20B2 | Gourlay Christopher | In situ Study of Granular Micromechanics in Semi-Solid Carbon Steels |
|-------|---------------|------------------------|-----------|--------|---------------------|--|

**Adsorption Science & Technology**

|       |               |                    |           |        |       |   |
|-------|---------------|--------------------|-----------|--------|-------|---|
| 28726 | Koki Takenaka | 33 (2015)<br>63-70 | 2011B1165 | BL02B2 | 加納 博文 | Effects of Hydrophobic Nanospaces on Structures of Lysozyme |
|       |               |                    | 2012B1351 | BL02B2 | 加納 博文 |   |

**Advanced Energy Materials**

|       |            |                     |           |        |       |   |
|-------|------------|---------------------|-----------|--------|-------|---|
| 28870 | Yoonho Kim | 5 (2015)<br>1401942 | 2012A3604 | BL14B1 | 福田 竜生 | Novel Electrothermodynamic Power Generation |
|       |            |                     | 2012B3612 | BL14B1 | 福田 竜生 |   |
|       |            |                     | 2013A3612 | BL14B1 | 福田 竜生 |   |
|       |            |                     | 2013B3612 | BL14B1 | 福田 竜生 |   |

**Advances in Condensed Matter Physics**

|       |                 |                       |           |        |      |   |
|-------|-----------------|-----------------------|-----------|--------|------|---|
| 28812 | Yutaka Moritomo | 2013 (2013)<br>539620 | 2012A1094 | BL02B2 | 守友 浩 | Alkali Cation Potential and Functionality in the Nanoporous Prussian Blue Analogues |
|-------|-----------------|-----------------------|-----------|--------|------|---|

**American Mineralogist**

|       |                |                     |           |        |      |  |
|-------|----------------|---------------------|-----------|--------|------|--|
| 28737 | Takayuki Ishii | 100 (2015)<br>59-65 | 2012A1658 | BL02B2 | 森 大輔 | High-Pressure High-Temperature Transitions in MgCr <sub>2</sub> O <sub>4</sub> and Crystal Structures of New Mg <sub>2</sub> Cr <sub>2</sub> O <sub>5</sub> and Post-Spinel MgCr <sub>2</sub> O <sub>4</sub> Phases with Implications for Ultrahigh-Pressure Chromitites in Ophiolites |
|-------|----------------|---------------------|-----------|--------|------|--|

**Analytical Chemistry**

|       |               |                        |           |        |      |   |
|-------|---------------|------------------------|-----------|--------|------|---|
| 28930 | Yoshinari Abe | 86 (2014)<br>8521-8525 | 2013A1392 | BL37XU | 中井 泉 | Detection of Uranium and Chemical State Analysis of Individual Radioactive Microparticles Emitted from the Fukushima Nuclear Accident Using Multiple Synchrotron Radiation X-ray Analyses |
|       |               |                        | 2013B1309 | BL37XU | 中井 泉 |   |

**Biochemical and Biophysical Research Communications**

|       |                 |                       |           |        |       |  |
|-------|-----------------|-----------------------|-----------|--------|-------|--|
| 29056 | Junya Kobayashi | 463 (2015)<br>309-314 | 2011B1083 | BL41XU | 松浦 能行 | Crystal Structure of the Karyopherin Kap121p Bound to the Extreme C-terminus of the Protein Phosphatase Cdc14p |
|-------|-----------------|-----------------------|-----------|--------|-------|--|

**Biochimica et Biophysica Acta - Biomembranes**

|       |                |                          |           |        |       |  |
|-------|----------------|--------------------------|-----------|--------|-------|--|
| 28740 | Daisuke Horita | 1848 (2015)<br>1196-1202 | 2012B1255 | BL40B2 | 堀田 大介 | Molecular Mechanisms of Action of Different Concentrations of Ethanol in Water on Ordered Structures of Intercellular Lipids and Soft Keratin in the Stratum Corneum |
|-------|----------------|--------------------------|-----------|--------|-------|--|

**Bioorganic & Medicinal Chemistry**

| 研究成果番号 | 著者               | 雑誌情報                   | 課題番号      | チームライン | 実験責任者 | タイトル  |
|--------|------------------|------------------------|-----------|--------|-------|---|
| 28796  | Mizuha Sakashita | 22 (2014)<br>5212-5219 | 2013A1207 | BL40B2 | 櫻井 和朗 | Hepatocyte-Targeting Gene Delivery using a Lipoplex |
|        |                  |                        | 2013A1564 | BL40B2 | 櫻井 和朗 | Composed of Galactose-Modified Aromatic Lipid       |
|        |                  |                        | 2013B1203 | BL40B2 | 櫻井 和朗 | Synthesized with Click Chemistry                    |

**Catalysis Today**

| 研究成果番号 | 著者              | 雑誌情報                  | 課題番号      | チームライン | 実験責任者 | タイトル   |
|--------|-----------------|-----------------------|-----------|--------|-------|--|
| 28935  | Kenichi Shimizu | 232 (2014)<br>134-138 | 2011B1137 | BL01B1 | 多井 豊  | N-Alkylation of Ammonia and Amines with Alcohols Catalyzed by Ni-loaded CaSiO <sub>3</sub> |

**ChemCatChem**

| 研究成果番号 | 著者           | 雑誌情報                  | 課題番号      | チームライン | 実験責任者 | タイトル   |
|--------|--------------|-----------------------|-----------|--------|-------|--|
| 28967  | Jun Maruyama | 6 (2014)<br>2197-2200 | 2013B1025 | BL14B2 | 内本 喜晴 | Carbonaceous Hydrogen-Evolution Catalyst Containing Cobalt Surrounded by a Tuned Local Structure |
|        |              |                       | 2013A1013 | BL14B2 | 内本 喜晴 |  |
|        |              |                       | 2012B1028 | BL14B2 | 内本 喜晴 |  |

**Chemistry Letters**

| 研究成果番号 | 著者                 | 雑誌情報                 | 課題番号      | チームライン | 実験責任者 | タイトル  |
|--------|--------------------|----------------------|-----------|--------|-------|---|
| 29028  | Katsumasa Nakahara | 42 (2013)<br>654-656 | 2012A1685 | BL02B1 | 竹谷 純一 | Single-crystal Field-effect Transistors with a Furan-containing Organic Semiconductor Having a Twisted $\pi$ -Electronic System |

**Chemistry of Materials**

| 研究成果番号 | 著者       | 雑誌情報                   | 課題番号      | チームライン | 実験責任者 | タイトル   |
|--------|----------|------------------------|-----------|--------|-------|--|
| 28980  | Yue Wang | 26 (2014)<br>7209-7213 | 2013B4703 | BL15XU | 戸田 喜丈 | SnAs with the NaCl-type Structure: Type-I Superconductivity and Single Valance State of Sn |
|        |          |                        | 2014A4700 | BL15XU | 戸田 喜丈 |  |

**ChemPhysChem**

| 研究成果番号 | 著者           | 雑誌情報                   | 課題番号      | チームライン | 実験責任者 | タイトル   |
|--------|--------------|------------------------|-----------|--------|-------|--|
| 28710  | Kazu Okumura | 16 (2015)<br>1719-1726 | 2012B1121 | BL01B1 | 奥村 和  | Suzuki Coupling Reactions Catalyzed by PdO Dispersed on Dealuminated Y Zeolite in Air under Ambient Conditions |
|        |              |                        | 2013B1067 | BL01B1 | 奥村 和  |  |
|        |              |                        | 2014A1098 | BL01B1 | 奥村 和  |  |

**ChemSusChem**

| 研究成果番号 | 著者              | 雑誌情報                  | 課題番号      | チームライン | 実験責任者 | タイトル  |
|--------|-----------------|-----------------------|-----------|--------|-------|---|
| 28713  | Yasuyuki Takeda | 8 (2015)<br>1170-1178 | 2013A1048 | BL01B1 | 奥村 和  | Selective Hydrogenation of Lactic Acid to 1,2-Propanediol over Highly Active Ruthenium-Molybdenum Oxide Catalysts |
|        |                 |                       | 2013B1067 | BL01B1 | 奥村 和  |   |

**Dalton Transactions**

| 研究成果番号 | 著者               | 雑誌情報  | 課題番号      | チームライン | 実験責任者 | タイトル  |
|--------|------------------|---|-----------|--------|-------|---|
| 28999  | Tomomi Koshiyama | (2015)<br>published<br>online 29 Apr.<br>2015 | 2012A1289 | BL37XU | 大場 正昭 | Regulation of Cerium(IV)-driven O <sub>2</sub> Evolution Reaction using Composites of Liposome and Lipophilic Ruthenium Complexes |

**ECS Journal of Solid State Science and Technology**

| 研究成果番号 | 著者           | 雑誌情報                | 課題番号      | チームライン | 実験責任者 | タイトル   |
|--------|--------------|---------------------|-----------|--------|-------|--|
| 29051  | Kohki Nagata | 4 (2015)<br>N96-N98 | 2012A1597 | BL46XU | 小椋 厚志 | Structural Analyses of Thin SiO <sub>2</sub> Films Formed by Thermal Oxidation of Atomically Flat Si Surface by Using Synchrotron Radiation X-Ray Characterization |

**Electrochimica Acta**

| 研究成果番号 | 著者              | 雑誌情報                | 課題番号      | チームライン | 実験責任者  | タイトル   |
|--------|-----------------|---------------------|-----------|--------|--------|--|
| 28700  | Akiyoshi Nakata | 166 (2015)<br>82-87 | 2012A1027 | BL47XU | 小久見 善八 | Transformation of Leaf-like Zinc Dendrite in Oxidation and Reduction Cycle |
|        |                 |                     | 2012A7602 | BL28XU | 小久見 善八 |  |

**Electronics**

| 研究成果番号 | 著者             | 雑誌情報                | 課題番号      | チームライン | 実験責任者 | タイトル   |
|--------|----------------|---------------------|-----------|--------|-------|--|
| 29034  | Ken-ichi Sakai | 3 (2014)<br>255-265 | 2013A1678 | BL02B1 | 竹谷 純一 | Anomalous Response in Heteroacene-Based Organic Field Effect Transistors under High Pressure |

**The EMBO Journal**

| 研究成果番号 | 著者               | 雑誌情報                   | 課題番号      | チームライン | 実験責任者 | タイトル   |
|--------|------------------|------------------------|-----------|--------|-------|--|
| 29007  | Manatsu Morikawa | 34 (2015)<br>1270-1286 | 2012B1375 | BL41XU | 仁田 亮  | X-ray and Cryo-EM Structures Reveal Mutual Conformational Changes of Kinesin and GTP-state Microtubules upon Binding |
|        |                  |                        | 2013A1079 | BL41XU | 仁田 亮  |  |
|        |                  |                        | 2011A1883 | BL41XU | 廣川 信隆 |  |

**European Journal of Medicinal Chemistry**

| 研究成果番号 | 著者             | 雑誌情報                 | 課題番号      | チームライン | 実験責任者 | タイトル  |
|--------|----------------|----------------------|-----------|--------|-------|---|
| 28763  | Isao Nakanishi | 96 (2015)<br>396-404 | 2011B6617 | BL44XU | 木下 誉富 | Identification of Protein Kinase CK2 Inhibitors using Solvent Dipole Ordering Virtual Screening |
|        |                |                      | 2012A6717 | BL44XU | 木下 誉富 |   |

**European Journal of Radiology**

| 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   |
|--------|-------------------|----------------------|-----------|--------|-----------|--|
| 28830  | Marcus J. Kitchen | 68 (2008)<br>S49-S53 | 2007A0002 | BL20B2 | Lewis Rob | Simultaneous Acquisition of Dual Analyser-Based Phase Contrast X-ray Images for Small Animal Imaging |

**Europhysics Letters**

|       |                |                     |           |        |       |   |
|-------|----------------|---------------------|-----------|--------|-------|---|
| 28978 | Hideaki Takagi | 110 (2015)<br>48003 | 2011B1157 | BL40B2 | 山本 勝宏 | Ordered-Bicontinuous-Double-Diamond Structure in Block Copolymer/Homopolymer Blends |
|       |                |                     | 2012B1139 | BL40B2 | 山本 勝宏 |   |

**FEBS Letters**

|       |              |                         |           |        |       |   |
|-------|--------------|-------------------------|-----------|--------|-------|---|
| 28886 | Junso Fujita | 588 (2014)<br>1879-1885 | 2012A6640 | BL44XU | 松村 浩由 | Crystal Structure of FtsA from <i>Staphylococcus aureus</i> |
|       |              |                         | 2013A6848 | BL44XU | 松村 浩由 |   |

**Frontiers in Earth Science**

|       |             |             |           |        |        |   |
|-------|-------------|-------------|-----------|--------|--------|---|
| 28984 | Hiroto Kubo | 3 (2015) 31 | 2012A1323 | BL17SU | 中村 教博  | Striped Domains of Coarse-Grained Magnetite Observed by X-ray Photoemission Electron Microscopy as a Source of the High Remanence of Granites in the Vredefort Dome |
|       |             |             | 2011A1194 | BL17SU | 寺田 健太郎 |   |

**Frontiers in Physics**

|       |                |             |           |        |       |  |
|-------|----------------|-------------|-----------|--------|-------|--|
| 28840 | L. Andrew Wray | 3 (2015) 32 | 2007A3502 | BL11XU | 石井 賢司 | Extending Resonant Inelastic X-ray Scattering to the Extreme Ultraviolet |
|       |                |             | 2007B3502 | BL11XU | 石井 賢司 |  |

**Green Chemistry**

|       |                 |                      |           |        |      |  |
|-------|-----------------|----------------------|-----------|--------|------|--|
| 28939 | Kenichi Shimizu | 15 (2013)<br>418-424 | 2012A1734 | BL14B2 | 多井 豊 | Heterogeneous Cobalt Catalyst for Accepterless Dehydrogenation of Alcohols |
|-------|-----------------|----------------------|-----------|--------|------|--|

**Inorganic Chemistry**

|       |                 |                        |           |        |        |  |
|-------|-----------------|------------------------|-----------|--------|--------|--|
| 28946 | Keishi Kawamura | 54 (2015)<br>3896-3904 | 2013B1718 | BL19B2 | 伊藤 孝憲  | Structural Origin of the Anisotropic and Isotropic Thermal Expansion of $K_2NiF_4$ -Type $LaSrAlO_4$ and $Sr_2TiO_4$ |
|       |                 |                        | 2014B1660 | BL19B2 | 藤井 孝太郎 |  |

**International Conference on the Regeneration and Conservation of Concrete Structures**

|       |                   |        |           |        |       |   |
|-------|-------------------|--------|-----------|--------|-------|---|
| 28906 | Takafumi Sugiyama | (2015) | 2012B1282 | BL28B2 | 杉山 隆文 | Investigation on Cracked Cement Paste Subjected to Water Flow by Non-destructive Integrated CT-XRD Method |
|       |                   |        | 2013B1511 | BL28B2 | 杉山 隆文 |   |
|       |                   |        | 2014A1559 | BL28B2 | 杉山 隆文 |   |
|       |                   |        | 2014A1512 | BL28B2 | 人見 尚  |   |
|       |                   |        | 2014B1010 | BL28B2 | 杉山 隆文 |   |

**International Journal of Hydrogen Energy**

|       |       |                          |           |        |      |  |
|-------|-------|--------------------------|-----------|--------|------|--|
| 29002 | Ya Xu | 39 (2014)<br>13156-13163 | 2012B4502 | BL15XU | 許 亜  | Catalytic Performance of Ni-Al Nanoparticles Fabricated by Arc Plasma Evaporation for Methanol Decomposition |
|       |       |                          | 2012A4500 | BL15XU | 許 亜  |  |
|       |       |                          | 2011A4501 | BL15XU | 許 亜  |  |
|       |       |                          | 2010B4500 | BL15XU | 許 亜  |  |
|       |       |                          | 2013A4900 | BL15XU | 亀岡 聡 |  |

**IOP Conference Series: Materials Science and Engineering**

|           |               |                     |           |        |                     |   |
|-----------|---------------|---------------------|-----------|--------|---------------------|---|
| 28976     | Tomoya Nagira | 84 (2015)<br>012078 | 2009A0014 | BL20B2 | 安田 秀幸               | Localization of Shear Strain and Shear Band Formation Induced by Deformation in Semi-Solid Al-Cu Alloys |
|           |               |                     | 2009B0014 | BL20B2 | 安田 秀幸               |   |
|           |               |                     | 2010A1420 | BL20B2 | 柳楽 知也               |   |
|           |               |                     | 2011A1209 | BL20B2 | Gourlay Christopher |   |
|           |               |                     | 2011B1096 | BL20XU | 柳楽 知也               |   |
|           |               |                     | 2012A1109 | BL20XU | 柳楽 知也               |   |
|           |               |                     | 2012A1110 | BL20XU | 柳楽 知也               |   |
|           |               |                     | 2012B1173 | BL20XU | 柳楽 知也               |   |
|           |               |                     | 2013B1242 | BL20XU | 柳楽 知也               |   |
| 2014B1090 | BL20XU        | 柳楽 知也               |           |        |                     |   |

**ISIJ International**

|       |                   |                        |           |        |       |  |
|-------|-------------------|------------------------|-----------|--------|-------|--|
| 29060 | Noriyuki Tsuchida | 53 (2013)<br>1260-1267 | 2011A3616 | BL14B1 | 菫浦 敬久 | Static Tensile Deformation Behavior of a Lean Duplex Stainless Steel Studied by In Situ Neutron Diffraction and Synchrotron Radiation White X-rays |
|-------|-------------------|------------------------|-----------|--------|-------|--|

**JOM**

| 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  |
|--------|---------------------|------------------------|-----------|--------|---------------------|---|
| 28957  | Christopher Gourlay | 66 (2014)<br>1415-1424 | 2011A1209 | BL20B2 | Gourlay Christopher | Synchrotron Radiography Studies of Shear-Induced Dilation in Semisolid Al Alloys and Steels |
|        |                     |                        | 2008A1428 | BL20B2 | Gourlay Christopher |   |

**Journal of Applied Physiology**

|       |                   |                       |           |        |               |  |
|-------|-------------------|-----------------------|-----------|--------|---------------|--|
| 28837 | Justin A. R. Lang | 117 (2014)<br>535-543 | 2012A1314 | BL20B2 | Hooper Stuart | Ventilation/Perfusion Mismatch during Lung Aeration at Birth |
|-------|-------------------|-----------------------|-----------|--------|---------------|--|

**Journal of Applied Toxicology**

|       |              |   |           |        |       |  |
|-------|--------------|---|-----------|--------|-------|--|
| 28924 | Shino Takeda | (2015)<br>published<br>online 13 Mar.<br>2015 | 2010A1680 | BL37XU | 武田 志乃 | Cellular Localization of Uranium in the Renal Proximal Tubules during Acute Renal Uranium Toxicity |
|       |              |   | 2010B1750 | BL37XU | 武田 志乃 |  |
|       |              |   | 2011B1731 | BL37XU | 武田 志乃 |  |
|       |              |   | 2012A1667 | BL37XU | 武田 志乃 |  |
|       |              |   | 2012B1792 | BL37XU | 武田 志乃 |  |

**Journal of Bacteriology**

|       |               |                         |           |        |                |   |
|-------|---------------|-------------------------|-----------|--------|----------------|---|
| 28894 | Chung-De Chen | 194 (2012)<br>6206-6216 | 2012A4009 | BL12B2 | Chen Chun Jung | Crystal Structures of Complexes of the Branched-Chain Aminotransferase from <i>Deinococcus radiodurans</i> with $\alpha$ -Ketoisocaproate and L-Glutamate Suggest the Radiation Resistance of This Enzyme for Catalysis |
|       |               |                         | 2007A4014 | BL12B2 | Chen Chun Jung |   |

**The Journal of Biological Chemistry**

|       |                 |                           |           |        |                  |   |
|-------|-----------------|---------------------------|-----------|--------|------------------|---|
| 28903 | Yin-cheng Hsieh | 288 (2013)<br>30645-30658 | 2012A6600 | BL44XU | Hsiao Chwan Deng | Crystal Structures of Vertebrate Dihydropyrimidinase and Complexes from <i>Tetraodon nigroviridis</i> with Lysine Carbamylation |
|       |                 |                           | 2012A4009 | BL12B2 | Chen Chun Jung   |   |
|       |                 |                           | 2012A6760 | BL44XU | Chen Chun Jung   |   |
|       |                 |                           | 2012B4012 | BL12B2 | Chen Chun Jung   |   |
|       |                 |                           | 2012B6600 | BL44XU | Hsiao Chwan Deng |   |
|       |                 |                           | 2012B6760 | BL44XU | Chen Chun Jung   |   |
|       |                 |                           | 2012B4002 | BL12B2 | Chen Chun Jung   |   |
|       |                 |                           | 2013A4011 | BL12B2 | Chen Chun Jung   |   |
|       |                 |                           | 2013A6600 | BL44XU | Hsiao Chwan Deng |   |

**The Journal of Cell Biology**

|       |                |                       |           |        |      |  |
|-------|----------------|-----------------------|-----------|--------|------|--|
| 29006 | Hiroaki Yajima | 198 (2012)<br>315-322 | 2011B1070 | BL41XU | 仁田 亮 | Conformational Changes in Tubulin in GMPCPP and GDP-taxol Microtubules Observed by Cryoelectron Microscopy |
|-------|----------------|-----------------------|-----------|--------|------|--|

**The Journal of Chemical Physics**

|       |                          |                      |           |         |       |   |
|-------|--------------------------|----------------------|-----------|---------|-------|---|
| 28694 | Jonas Alexander Sellberg | 142 (2015)<br>044505 | 2012B7403 | BL07LSU | 原田 慈久 | X-ray Emission Spectroscopy of Bulk Liquid Water in "No-man's Land" |
|-------|--------------------------|----------------------|-----------|---------|-------|---|

**Journal of Geophysical Research**

|       |                 |                         |           |        |      |  |
|-------|-----------------|-------------------------|-----------|--------|------|--|
| 28802 | Satoshi Okumura | 120 (2015)<br>2974-2987 | 2012B1280 | BL20B2 | 奥村 聡 | Rheological Transitions in High-temperature Volcanic Fault Zones |
|       |                 |                         | 2013B1181 | BL20B2 | 奥村 聡 |  |

**Journal of Inorganic Biochemistry**

|       |                   |   |           |        |                  |   |
|-------|-------------------|---|-----------|--------|------------------|---|
| 28902 | Kelvin H.-C. Chen | (2015)<br>Available online<br>9 Apr. 2015 | 2012A6600 | BL44XU | Hsiao Chwan Deng | The Bacteriohemerythrin from <i>Methylococcus capsulatus</i> (Bath): Crystal Structures Reveal that Leu114 Regulates a Water Tunnel |
|       |                   |   | 2012B6760 | BL44XU | Chen Chun Jung   |   |
|       |                   |   | 2012B6600 | BL44XU | Hsiao Chwan Deng |   |
|       |                   |   | 2012A6760 | BL44XU | Chen Chun Jung   |   |
|       |                   |   | 2012A4009 | BL12B2 | Chen Chun Jung   |   |
|       |                   |   | 2012B4012 | BL12B2 | Chen Chun Jung   |   |
|       |                   |   | 2013A4011 | BL12B2 | Chen Chun Jung   |   |
|       |                   |   | 2013B4000 | BL12B2 | Chen Chun Jung   |   |
|       |                   |   | 2014A6600 | BL44XU | Chen Chun Jung   |   |
|       |                   |   | 2014A6965 | BL44XU | Chen Chun Jung   |   |

**Journal of Instrumentation**

|       |                  |                     |           |        |       |  |
|-------|------------------|---------------------|-----------|--------|-------|--|
| 28920 | Shunji Kishimoto | 10 (2015)<br>C05030 | 2013A1174 | BL09XU | 岸本 俊二 | Silicon Avalanche Photodiode Linear-Array Detector with Multichannel Scaling System for Pulsed Synchrotron X-ray Experiments |
|-------|------------------|---------------------|-----------|--------|-------|--|

**Journal of Materials Chemistry A**

| 研究成果番号 | 主著者          | 雑誌情報                    | 課題番号      | ビームライン | 実験責任者  | タイトル   |
|--------|--------------|-------------------------|-----------|--------|--------|--|
| 28947  | Kotaro Fujii | 3 (2015)<br>11985-11990 | 2014A1510 | BL19B2 | 伊藤 孝憲  | Improved Oxide-Ion Conductivity of NdBaInO <sub>4</sub> by Sr Doping |
|        |              |                         | 2013B1718 | BL19B2 | 伊藤 孝憲  |  |
|        |              |                         | 2014B1660 | BL19B2 | 藤井 孝太郎 |  |
|        |              |                         | 2014B1922 | BL19B2 | 藤井 孝太郎 |  |

**Journal of Materials Chemistry C**

|       |                    |                       |           |        |      |  |
|-------|--------------------|-----------------------|-----------|--------|------|--|
| 28771 | Yoshitaka Murakami | 3 (2015)<br>4490-4499 | 2014A1708 | BL04B2 | 李 金望 | Solution Processing of Highly Conductive Ruthenium and Ruthenium Oxide Thin Films from Ruthenium–Amine Complexes |
|-------|--------------------|-----------------------|-----------|--------|------|--|

**Journal of Medicinal Chemistry**

|       |                        |                        |           |        |                |  |
|-------|------------------------|------------------------|-----------|--------|----------------|--|
| 28896 | Phimonphan Chuankhayan | 56 (2013)<br>7625-7635 | 2011A4017 | BL12B2 | Chen Chun Jung | Structural Insights into the Hydrolysis and Polymorphism of Methotrexate Polyglutamate by Zebrafish $\gamma$ -Glutamyl Hydrolase |
|       |                        |                        | 2011A4002 | BL12B2 | Chen Chun Jung |  |
|       |                        |                        | 2011B4012 | BL12B2 | Chen Chun Jung |  |
|       |                        |                        | 2011B4004 | BL12B2 | Chen Chun Jung |  |
|       |                        |                        | 2012A4009 | BL12B2 | Chen Chun Jung |  |
|       |                        |                        | 2012A6760 | BL44XU | Chen Chun Jung |  |

**Journal of Molecular Catalysis A: Chemical**

|       |                 |                     |           |        |      |  |
|-------|-----------------|---------------------|-----------|--------|------|--|
| 28941 | Kenichi Shimizu | 365 (2012)<br>50-54 | 2011B1137 | BL01B1 | 多井 豊 | Heterogeneous Nickel Catalyst for Selective Hydration of Silanes to Silanols |
|-------|-----------------|---------------------|-----------|--------|------|--|

**Journal of Pediatrics**

|       |              |                       |           |        |           |   |
|-------|--------------|-----------------------|-----------|--------|-----------|---|
| 28828 | Arjan Te Pas | 152 (2008)<br>607-611 | 2007A0002 | BL20B2 | Lewis Rob | From Liquid to Air: Breathing after Birth |
|-------|--------------|-----------------------|-----------|--------|-----------|---|

**The Journal of Physical Chemistry Letters**

|       |               |                       |           |        |       |   |
|-------|---------------|-----------------------|-----------|--------|-------|---|
| 28861 | Shinobu Takao | 6 (2015)<br>2121-2126 | 2013A7803 | BL36XU | 岩澤 康裕 | Same-View Nano-XAFS/STEM-EDS Imagings of Pt Chemical Species in Pt/C Cathode Catalyst Layers of a Polymer Electrolyte Fuel Cell |
|       |               |                       | 2013B7803 | BL36XU | 岩澤 康裕 |   |
|       |               |                       | 2014A7802 | BL36XU | 岩澤 康裕 |   |
|       |               |                       | 2014A7806 | BL36XU | 岩澤 康裕 |   |
|       |               |                       | 2014B7802 | BL36XU | 岩澤 康裕 |   |
|       |               |                       | 2014B7804 | BL36XU | 岩澤 康裕 |   |

**Journal of Physics: Condensed Matter**

|       |                 |                     |           |        |       |  |
|-------|-----------------|---------------------|-----------|--------|-------|--|
| 28779 | Shinya Hosokawa | 27 (2015)<br>194104 | 2009B1074 | BL35XU | 細川 伸也 | Transverse Excitations in Liquid Fe, Cu and Zn |
|       |                 |                     | 2012B1277 | BL35XU | 細川 伸也 |  |

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

|       |                 |                      |           |        |      |   |
|-------|-----------------|----------------------|-----------|--------|------|---|
| 28767 | Minh Anh Truong | 53 (2015)<br>875-887 | 2012B1728 | BL19B2 | 尾坂 格 | Synthesis, Characterization, and Application to Polymer Solar Cells of Polythiophene Derivatives with Ester- or Ketone-substituted Phenyl Side Groups |
|-------|-----------------|----------------------|-----------|--------|------|---|

**Journal of Solution Chemistry**

|       |             |                        |           |        |       |   |
|-------|-------------|------------------------|-----------|--------|-------|---|
| 28789 | Kenta Fujii | 43 (2014)<br>1655-1668 | 2012A1669 | BL04B2 | 梅林 泰宏 | High-Energy X-ray Diffraction and MD Simulation Study on the Ion-Ion Interactions in 1-Ethyl-3-methylimidazolium Bis(fluorosulfonyl)amide |
|       |             |                        | 2010A1527 | BL04B2 | 藤井 健太 |   |

**Journal of Structural Biology**

|       |                      |                     |           |        |                       |   |
|-------|----------------------|---------------------|-----------|--------|-----------------------|---|
| 29076 | Kavyashree Manjunath | 191 (2015)<br>22-31 | 2011B6653 | BL44XU | Jeyaraman Jeyakanthan | Catalytic Pathway, Substrate Binding and Stability in SAICAR Synthetase: A Structure and Molecular Dynamics Study |
|-------|----------------------|---------------------|-----------|--------|-----------------------|---|

**Journal of the Royal Society Interface**

|       |               |                       |           |        |           |   |
|-------|---------------|-----------------------|-----------|--------|-----------|---|
| 28833 | Stephen Dubsy | 9 (2012)<br>2213-2224 | 2010B0022 | BL20B2 | Lewis Rob | Synchrotron-based Dynamic Computed Tomography of Tissue Motion for Regional Lung Function Measurement |
|       |               |                       | 2009B0022 | BL20B2 | Lewis Rob |   |

**Nanoscale**

|       |              |                       |           |        |       |   |
|-------|--------------|-----------------------|-----------|--------|-------|---|
| 28729 | Naoki Fukata | 7 (2015)<br>7246-7251 | 2013A1153 | BL43IR | 深田 直樹 | Bonding and Electronic States of Boron in Silicon Nanowires Characterized by an Infrared Synchrotron Radiation Beam |
|-------|--------------|-----------------------|-----------|--------|-------|---|

## Nanoscale Research Letters

| 研究成果番号 | 主著者            | 雑誌情報             | 課題番号      | ビームライン | 実験責任者 | タイトル  |
|--------|----------------|------------------|-----------|--------|-------|---|
| 28745  | Yusuke Hiraike | 10 (2015)<br>179 | 2011B1736 | BL47XU | 原田 慈久 | Active Site Formation Mechanism of Carbon-Based Oxygen Reduction Catalysts Derived from a Hyperbranched Iron Phthalocyanine Polymer |
|        |                |                  | 2010B1891 | BL46XU | 尾嶋 正治 |   |

## Nature Materials

|       |               |                      |           |        |        |  |
|-------|---------------|----------------------|-----------|--------|--------|--|
| 28801 | Kazuya Otsubo | 10 (2011)<br>291-295 | 2010B1975 | BL01B1 | 宇留賀 朋哉 | Bottom-up Realization of a Porous Metal-organic Nanotubular Assembly |
|-------|---------------|----------------------|-----------|--------|--------|--|

## Neonatology

|       |                        |                       |           |        |               |   |
|-------|------------------------|-----------------------|-----------|--------|---------------|---|
| 28835 | Jeroen J. Van Vonderen | 105 (2014)<br>230-242 | 2012A1314 | BL20B2 | Hooper Stuart | Measuring Physiological Changes during the Transition to Life after Birth |
|-------|------------------------|-----------------------|-----------|--------|---------------|---|

## NeoReviews

|       |               |                        |           |        |           |  |
|-------|---------------|------------------------|-----------|--------|-----------|--|
| 28832 | Stuart Hooper | 11 (2010)<br>e474-e483 | 2009A0022 | BL20B2 | Lewis Rob | Establishing Functional Residual Capacity at Birth |
|-------|---------------|------------------------|-----------|--------|-----------|--|

## NPG Asia Materials

|       |          |                 |           |        |        |  |
|-------|----------|-----------------|-----------|--------|--------|--|
| 28885 | Jie Zhan | 6 (2014)<br>e92 | 2012A7228 | BL03XU | 小池 淳一郎 | Green Solid Films with Tunable Mechanical Properties Made from Deoxyribonucleic Acid |
|       |          |                 | 2011B7279 | BL03XU | 小池 淳一郎 |  |
|       |          |                 | 2011B7280 | BL03XU | 小池 淳一郎 |  |

## Nucleic Acid Research

|       |              |                        |           |        |       |  |
|-------|--------------|------------------------|-----------|--------|-------|--|
| 29057 | Nozomi Asano | 43 (2015)<br>4746-4757 | 2012A1494 | BL41XU | 田中 勲  | Structural and Functional Analysis of the Rpf2-Rrs1 Complex in Ribosome Biogenesis |
|       |              |                        | 2012B1411 | BL41XU | 薦田 圭介 |  |
|       |              |                        | 2014B1033 | BL41XU | 姚 閔   |  |

## Optics Express

|       |            |                         |           |        |                |  |
|-------|------------|-------------------------|-----------|--------|----------------|--|
| 28762 | Yu-Hsin Wu | 23 (2015)<br>9994-10001 | 2010A4257 | BL12XU | Chang Shih Lin | Inclined-incidence Hard-X-ray Resonator with Ultrahigh Efficiency and Resolution |
|       |            |                         | 2012B4263 | BL12XU | Chang Shih Lin |  |
|       |            |                         | 2012B4266 | BL12XU | Chang Shih Lin |  |
|       |            |                         | 2013A4261 | BL12XU | Chang Shih Lin |  |
|       |            |                         | 2013B4259 | BL12XU | Chang Shih Lin |  |
|       |            |                         | 2014B4265 | BL12XU | Chang Shih Lin |  |
|       |            |                         | 2014A4250 | BL12XU | Chang Shih Lin |  |

## Organic &amp; Biomolecular Chemistry

|       |                |                        |           |        |       |   |
|-------|----------------|------------------------|-----------|--------|-------|---|
| 28792 | Tsutomu Ishi-i | 13 (2015)<br>1818-1828 | 2013A1207 | BL40B2 | 櫻井 和朗 | Amphiphilic Benzothiadiazole-triphenylamine-based Aggregates that Emit Red Light in Water |
|       |                |                        | 2013A1564 | BL40B2 | 櫻井 和朗 |   |
|       |                |                        | 2013B1203 | BL40B2 | 櫻井 和朗 |   |
|       |                |                        | 2014A1268 | BL40B2 | 櫻井 和朗 |   |

## Organic Chemistry

|       |                 |                     |           |        |       |  |
|-------|-----------------|---------------------|-----------|--------|-------|--|
| 28791 | Zhenzhong Zhang | 2 (2015)<br>654-660 | 2012A1454 | BL14B2 | 大橋 弘範 | Aerobic Oxidation of Cyclohexanones to Phenols and Aryl Ethers over Supported Pd Catalysts |
|       |                 |                     | 2012B1075 | BL14B2 | 大橋 弘範 |  |
|       |                 |                     | 2014B1832 | BL14B2 | 大橋 弘範 |  |

## Physica Status Solidi C

|       |              |                      |           |        |       |  |
|-------|--------------|----------------------|-----------|--------|-------|--|
| 28977 | Kenji Yoshii | 12 (2015)<br>841-844 | 2012A3605 | BL14B1 | 吉井 賢資 | Elemental Substitution Effects in Multiferroic $R$ Fe <sub>2</sub> O <sub>4</sub> ( $R$ : Rare Earths) |
|       |              |                      | 2013A3611 | BL14B1 | 吉井 賢資 |  |

## Physical Review A

|       |             |                     |           |        |             |   |
|-------|-------------|---------------------|-----------|--------|-------------|---|
| 28723 | Dongdong Ni | 91 (2015)<br>042501 | 2013A4260 | BL12XU | Zhu Lin Fan | Squared Form Factors for the $A^1\Pi$ and $B^1\Sigma^+$ Vibronic Bands of Carbon Monoxide Studied by High-resolution Inelastic X-ray Scattering |
|       |             |                     | 2014A4261 | BL12XU | Zhu Lin Fan |   |

## Physical Review E

|       |            |                     |           |        |       |  |
|-------|------------|---------------------|-----------|--------|-------|--|
| 28925 | Koji Fukao | 91 (2015)<br>052605 | 2013A1173 | BL40B2 | 深尾 浩次 | Dielectric Relaxation of Thin Films of Polyamide Random Copolymers |
|       |            |                     | 2014A1230 | BL40B2 | 深尾 浩次 |  |



**Physics and Chemistry of Minerals**

| 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   |
|--------|-----------------------|----------------------|-----------|--------|-------|--|
| 28752  | Daisuke Nishio-Hamane | 42 (2015)<br>385-392 | 2011B1449 | BL10XU | 浜根 大輔 | Theoretical and Experimental Evidence for the Post-Cotunnite Phase Transition in Zirconia at High Pressure |
|        |                       |                      | 2012B1344 | BL10XU | 瀬戸 雄介 |  |
|        |                       |                      | 2013B1141 | BL10XU | 浜根 大輔 |  |

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

|       |               |                           |           |        |      |   |
|-------|---------------|---------------------------|-----------|--------|------|---|
| 28781 | Satoru Yuzawa | 108 (2011)<br>19210-19215 | 2011A1899 | BL32XU | 湯澤 聡 | Structural Basis for Interaction between the Conserved Cell Polarity Proteins Inscuteable and Leu-Gly-Asn Repeat-Enriched Protein (LGN) |
|-------|---------------|---------------------------|-----------|--------|------|---|

**Retrovirology**

|           |               |                 |           |        |       |  |
|-----------|---------------|-----------------|-----------|--------|-------|--|
| 28775     | Chungyong Han | 11 (2014)<br>38 | 2011A1396 | BL32XU | 山形 敦史 | Switching and Emergence of CTL Epitopes in HIV-1 Infection |
|           |               |                 | 2011A1052 | BL41XU | 深井 周也 |  |
|           |               |                 | 2011B1237 | BL41XU | 山形 敦史 |  |
|           |               |                 | 2011B1160 | BL41XU | 深井 周也 |  |
|           |               |                 | 2011B1170 | BL41XU | 深井 周也 |  |
|           |               |                 | 2012A1235 | BL41XU | 山形 敦史 |  |
|           |               |                 | 2012A1398 | BL41XU | 深井 周也 |  |
|           |               |                 | 2012B1275 | BL41XU | 深井 周也 |  |
|           |               |                 | 2013A1231 | BL41XU | 深井 周也 |  |
| 2013B1252 | BL41XU        | 深井 周也           |           |        |       |  |

**SAE International Journal of Alternative Powertrains**

|           |                |                          |           |        |       |  |
|-----------|----------------|--------------------------|-----------|--------|-------|--|
| 28884     | Hiroto Maeyama | 4 (2015)<br>2015-01-1193 | 2011B4510 | BL15XU | 小林 清  | Degradation Analysis of Pouch Cell Using High-Energy Cathode Material for Advanced Lithium-ion Battery |
|           |                |                          | 2012A4509 | BL15XU | 小林 清  |  |
|           |                |                          | 2012B4500 | BL15XU | 小林 清  |  |
|           |                |                          | 2013A4502 | BL15XU | 小林 清  |  |
|           |                |                          | 2013B4500 | BL15XU | 小林 清  |  |
|           |                |                          | 2011B4509 | BL15XU | 寺部 一弥 |  |
|           |                |                          | 2012A4510 | BL15XU | 寺部 一弥 |  |
|           |                |                          | 2012B4501 | BL15XU | 寺部 一弥 |  |
|           |                |                          | 2013A4503 | BL15XU | 寺部 一弥 |  |
| 2013B4501 | BL15XU         | 寺部 一弥                    |           |        |       |  |

**Science Advances**

|       |            |                      |           |        |                  |   |
|-------|------------|----------------------|-----------|--------|------------------|---|
| 28845 | Ruth Zadik | 1 (2015)<br>e1500059 | 2011B1383 | BL10XU | Prassides Kosmas | Optimized Unconventional Superconductivity in a Molecular Jahn-Teller Metal |
|       |            |                      | 2012A1337 | BL10XU | Prassides Kosmas |   |
|       |            |                      | 2012B1420 | BL10XU | Prassides Kosmas |   |
|       |            |                      | 2013A1194 | BL10XU | Prassides Kosmas |   |

**Solid State Communications**

|       |                |                     |           |        |        |   |
|-------|----------------|---------------------|-----------|--------|--------|---|
| 28684 | Tetsu Watanuki | 211 (2015)<br>19-22 | 2011B3701 | BL22XU | 綿貫 徹   | Thermal Expansion of a Au-Al-Yb Intermediate Valence Quasicrystal |
|       |                |                     | 2011B2092 | BL39XU | 水牧 仁一朗 |   |
|       |                |                     | 2012A3701 | BL22XU | 綿貫 徹   |   |
|       |                |                     | 2012B0046 | BL39XU | 渡辺 真仁  |   |

**Superconductor Science and Technology**

|       |              |                     |           |        |       |  |
|-------|--------------|---------------------|-----------|--------|-------|--|
| 28848 | Kozo Osamura | 27 (2014)<br>085005 | 2012B1435 | BL28B2 | 土屋 佳則 | Uniaxial Strain Dependence of the Critical Current of DI-BSCCO Tapes |
|-------|--------------|---------------------|-----------|--------|-------|--|

**Surface Science**

|       |                 |                     |           |        |       |   |
|-------|-----------------|---------------------|-----------|--------|-------|---|
| 28983 | Takayuki Kojima | 619 (2014)<br>44-48 | 2012A1604 | BL19B2 | 水口 将輝 | Significant Surface Flattening Effect by Au Addition for Cu Growth on Cu <sub>3</sub> Au(001) |
|-------|-----------------|---------------------|-----------|--------|-------|---|

**Tetrahedron Letters**

|       |                 |                        |           |        |      |   |
|-------|-----------------|------------------------|-----------|--------|------|---|
| 28937 | Kenichi Shimizu | 54 (2013)<br>6490-6493 | 2011B1137 | BL01B1 | 多井 豊 | Alkylation of 2-methylquinoline with Alcohols under Additive-Free Conditions by Al <sub>2</sub> O <sub>3</sub> -Supported Pt Catalyst |
|-------|-----------------|------------------------|-----------|--------|------|---|

**Thin Solid Films**

|       |                |                     |           |        |       |   |
|-------|----------------|---------------------|-----------|--------|-------|---|
| 29035 | Junichi Takeya | 554 (2014)<br>19-26 | 2013A1678 | BL02B1 | 竹谷 純一 | Materials and Devices with Applications in High-End Organic Transistors |
|-------|----------------|---------------------|-----------|--------|-------|---|

**高圧力の科学と技術 (The Review of High Pressure 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  |
|--------|----------------|--------------------|-----------|--------|-------|---|
| 28685  | Naomi Kawamura | 25 (2015)<br>38-48 | 2009B1959 | BL39XU | 河村 直己 | Study of Electronic and Magnetic States Probed by X-Ray Absorption Spectroscopy |
|        |                |                    | 2009B1401 | BL39XU | 湯本 博勝 |   |
|        |                |                    | 2009B1487 | BL39XU | 石松 直樹 |   |
|        |                |                    | 2009B2129 | BL39XU | 河村 直己 |   |
|        |                |                    | 2011B2094 | BL39XU | 河村 直己 |   |
|        |                |                    | 2011B2097 | BL39XU | 河村 直己 |   |
|        |                |                    | 2012A1843 | BL39XU | 河村 直己 |   |
|        |                |                    | 2012B0046 | BL39XU | 渡辺 真仁 |   |
|        |                |                    | 2012B1976 | BL39XU | 河村 直己 |   |

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

|       |                |                      |           |        |        |  |
|-------|----------------|----------------------|-----------|--------|--------|--|
| 28724 | Hirofumi Kishi | 46 (2015)<br>361-366 | 2011B1802 | BL47XU | 朝澤 浩一郎 | Development of Electrocatalysts for Platinum-free Liquid-feed Fuel Cells |
|       |                |                      | 2012A1774 | BL14B2 | 朝澤 浩一郎 |  |
|       |                |                      | 2012A1775 | BL46XU | 朝澤 浩一郎 |  |
|       |                |                      | 2012B1731 | BL46XU | 朝澤 浩一郎 |  |
|       |                |                      | 2013A1643 | BL14B2 | 朝澤 浩一郎 |  |
|       |                |                      | 2013A1644 | BL46XU | 朝澤 浩一郎 |  |

**日本原子力学会誌 (Journal of the Atomic Energy Society of Japan)**

|       |                |                      |           |        |      |   |
|-------|----------------|----------------------|-----------|--------|------|---|
| 29044 | Tsuyoshi Yaita | 56 (2014)<br>366-371 | 2012A3611 | BL14B1 | 矢板 毅 | Study on the Cs Sorption -Desorption Mechanism on Clay Minerals (I) |
|       |                |                      | 2011B3611 | BL14B1 | 矢板 毅 |   |

**日本土壌肥科学雑誌 (Journal of the Science of Soil and Manure, Japan)**

|       |                 |                      |           |        |       |  |
|-------|-----------------|----------------------|-----------|--------|-------|--|
| 28741 | Yohey Hashimoto | 86 (2015)<br>139-146 | 2011B1218 | BL01B1 | 山口 紀子 | History of Cadmium Contamination and Chemical Speciation in Paddy Soils in Japan (1970-2015) |
|       |                 |                      | 2012B1327 | BL01B1 | 橋本 洋平 |  |
|       |                 |                      | 2013B1068 | BL01B1 | 橋本 洋平 |  |

**波紋 (日本中性子科学会誌, Hamon)**

|       |               |                   |           |       |        |   |
|-------|---------------|-------------------|-----------|-------|--------|---|
| 28854 | Manako Tanaka | 25 (2015)<br>8-12 | 2012A1041 | BL08W | 田中 真奈子 | Nondestructive Study of Iron Artifacts using High-energy X-ray and Pulsed Neutron |
|       |               |                   | 2012B1468 | BL08W | 田中 真奈子 |   |
|       |               |                   | 2012B1493 | BL08W | 田中 真奈子 |   |

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

|       |                   |                      |           |         |       |  |
|-------|-------------------|----------------------|-----------|---------|-------|--|
| 28975 | Hirokazu Fukidome | 36 (2015)<br>303-308 | 2011A1646 | BL17SU  | 吹留 博一 | Highly Brilliant Synchrotron Radiation Operando Spectromicroscopy to Bridge a Gap between Material Electronic Properties and Device Performances of 2D Atomic Layers |
|       |                   |                      | 2011B1877 | BL17SU  | 吹留 博一 |  |
|       |                   |                      | 2012A1626 | BL17SU  | 吹留 博一 |  |
|       |                   |                      | 2012A7425 | BL07LSU | 吹留 博一 |  |
|       |                   |                      | 2012B7435 | BL07LSU | 吹留 博一 |  |
|       |                   |                      | 2013B7451 | BL07LSU | 吹留 博一 |  |
|       |                   |                      | 2013A7443 | BL07LSU | 吹留 博一 |  |
|       |                   |                      | 2014A1121 | BL17SU  | 吹留 博一 |  |
|       |                   |                      | 2014B7472 | BL07LSU | 吹留 博一 |  |
|       |                   |                      | 2014B1804 | BL25SU  | 吹留 博一 |  |

**有機合成化学協会誌 (Journal of Synthetic Organic Chemistry, Japan)**

|       |                |                       |           |        |      |  |
|-------|----------------|-----------------------|-----------|--------|------|--|
| 28859 | Shigeru Yamago | 72 (2014)<br>992-1005 | 2012B1790 | BL02B1 | 山子 茂 | New Organic Chemistry of Three-Dimensional $\pi$ -Conjugated Compounds |
|       |                |                       | 2013A1661 | BL02B1 | 山子 茂 |  |
|       |                |                       | 2013B1126 | BL02B1 | 山子 茂 |  |
|       |                |                       | 2014A1734 | BL02B1 | 山子 茂 |  |

**博士論文 (東京大学)**

|       |                    |        |           |        |       |   |
|-------|--------------------|--------|-----------|--------|-------|---|
| 28722 | Seiichiro Izawa    | (2015) | 2013A1634 | BL19B2 | 尾坂 格  | Nanostructure Control of Organic Semiconductor Films and Application for Photovoltaic Devices |
| 28871 | Kazuhiro Kashiwagi | (2014) | 2012A1335 | BL41XU | 伊藤 拓宏 | Structural Analysis of the Eukaryotic Translation Initiation Factors                          |

**博士論文 (National Hsinchu University of Education)**

|       |               |        |           |        |               |   |
|-------|---------------|--------|-----------|--------|---------------|---|
| 28960 | Chih Ming Lin | (2012) | 2012A4131 | BL12B2 | Lin Chih Ming | Properties of Silver Nanocrystals Under High Pressure |
|-------|---------------|--------|-----------|--------|---------------|---|

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

| 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   |
|--------|-------------------|--------|-----------|--------|--------|--|
| 28826  | Andrea Battistoni | (2014) | 2012B1467 | BL09XU | 齋藤 真器名 | Broad Band Acoustic Spectroscopy in Disordered Systems |

**博士論文 (大阪大学)**

|       |                |        |           |     |       |  |
|-------|----------------|--------|-----------|-----|-------|--|
| 28958 | Tomoki Matsuda | (2015) | 2012A8053 | BL3 | 佐野 智一 | Formation of High Density of Lattice Defects in Iron Using Femtosecond Laser-Driven Shock Wave and Its Effects on Surface Properties |
|       |                |        | 2012B8048 | BL3 | 佐野 智一 |  |

**博士論文 (東京工業大学)**

|       |             |        |           |        |       |   |
|-------|-------------|--------|-----------|--------|-------|---|
| 28780 | Saori Imada | (2015) | 2011B1336 | BL35XU | 廣瀬 敬  | Sound Velocity and Density of Liquid Fe-Ni-S Alloy at High Pressure |
|       |             |        | 2012A1237 | BL35XU | 廣瀬 敬  |   |
|       |             |        | 2012B1356 | BL35XU | 中島 陽一 |   |
|       |             |        | 2012B1159 | BL35XU | 廣瀬 敬  |   |
|       |             |        | 2013A1438 | BL35XU | 廣瀬 敬  |   |
|       |             |        | 2013A1541 | BL35XU | 中島 陽一 |   |
|       |             |        | 2013B1154 | BL35XU | 廣瀬 敬  |   |
|       |             |        | 2013B1407 | BL35XU | 中島 陽一 |   |
|       |             |        | 2014A1368 | BL35XU | 中島 陽一 |   |
|       |             |        | 2014B1271 | BL35XU | 廣瀬 敬  |   |
|       |             |        | 2014B1536 | BL35XU | 中島 陽一 |   |

**博士論文 (早稲田大学)**

|       |                 |        |           |        |       |  |
|-------|-----------------|--------|-----------|--------|-------|--|
| 28742 | Kazumasa Oshima | (2015) | 2013B1673 | BL27SU | 大島 一真 | Electric Field Effects on Catalytic Reactions for Low Temperature Methane Conversion |
|       |                 |        | 2014A1655 | BL02B2 | 大島 一真 |  |

**課題以外の成果として登録された論文**

**Advanced Materials**

| 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  |
|--------|---------------|------------------------|------|--------|---|
| 28829  | Pranab Mandal | 27 (2015)<br>2883-2889 | 理研   | BL44B2 | Morphotropic Phase Boundary in the Pb-Free(1-x)BiTi <sub>1/3</sub> Fe <sub>2/3</sub> Mg <sub>3/16</sub> O <sub>3-x</sub> CaTiO <sub>3</sub> System: Tetragonal Polarization and Enhanced Electromechanical Properties |

**Journal of the Physical Society of Japan**

|       |                     |                     |    |        |  |
|-------|---------------------|---------------------|----|--------|--|
| 29048 | Masamitsu Takahashi | 82 (2013)<br>021011 | 原研 | BL11XU | X-ray Diffraction Study of Crystal Growth Dynamics during Molecular-Beam Epitaxy of III-V Semiconductors |
|-------|---------------------|---------------------|----|--------|--|

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

|       |              |                       |      |         |  |
|-------|--------------|-----------------------|------|---------|--|
| 28695 | Iwao Matsuda | 767 (2014)<br>296-299 | 挿入光源 | BL07LSU | Development of an Electromagnetic Phase Shifter Using a Pair of Cut-Core Coils for a Cross Undulator |
|-------|--------------|-----------------------|------|---------|--|

**Physical Chemistry Chemical Physics**

|       |                   |                          |    |        |  |
|-------|-------------------|--------------------------|----|--------|--|
| 28764 | Takeshi Matsumoto | 17 (2015)<br>11359-11366 | 理研 | BL44B2 | Atomically Mixed Fe-group Nanoalloys: Catalyst Design for the Selective Electrooxidation of Ethylene Glycol to Oxalic Acid |
|-------|-------------------|--------------------------|----|--------|--|

**Physical Review B**

|       |                 |                     |    |        |  |
|-------|-----------------|---------------------|----|--------|--|
| 29068 | Yukio Takahashi | 91 (2015)<br>214114 | 理研 | BL29XU | Precession X-ray Ptychography with Multislice Approach |
|-------|-----------------|---------------------|----|--------|--|

**Physical Review Letters**

|       |               |                      |    |         |   |
|-------|---------------|----------------------|----|---------|---|
| 28708 | Samuel Tardif | 114 (2015)<br>147205 | 理研 | BL19LXU | All-In-All-Out Magnetic Domains: X-Ray Diffraction Imaging and Magnetic Field Control |
|-------|---------------|----------------------|----|---------|---|

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

|       |                  |                     |     |        |  |
|-------|------------------|---------------------|-----|--------|--|
| 28758 | Mitsuhiro Masaki | 18 (2015)<br>042802 | 加速器 | BL05SS | X-ray Fresnel Diffractometry for Ultralow Emittance Diagnostics of Next Generation Synchrotron Light Sources |
|-------|------------------|---------------------|-----|--------|--|

**Science**

|       |              |                         |    |        |   |
|-------|--------------|-------------------------|----|--------|---|
| 28926 | Noriya Seiki | 348 (2015)<br>1122-1126 | 理研 | BL44B2 | Rational Synthesis of Organic Thin Films with Exceptional Long-Range Structural Integrity |
|       |              |                         | 理研 | BL45XU |   |