

Proposal for a Postdoctoral Fellow (List of Projects)

Mathematical Sciences:

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| 1 | OHSUGI Hidefumi | Computational commutative algebra and combinatorics |
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Physics and Astronomy:

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| 2 | OKAMURA Takashi | Gravitation and Cosmology |
| 3 | MATSUURA Shuji | Study of cosmic evolution based on the observation of the cosmic infrared radiation |

Chemistry:

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| 4 | SHIGETO Shinsuke | Single-cell analysis of microbes using molecular spectroscopy and AI technologies |
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Nanotechnology for Sustainable Energy:

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| 5 | OHYA Masayoshi | Development of high-temperature superconducting device cooled by liquid hydrogen |
| 6 | OGURA Teppei | Development of Analytical Basis with Surface Reaction Mechanism toward Catalyst Design |
| 7 | YOSHIKAWA Hirofumi | Development of high-performance organic rechargeable batteries |
| 8 | WAKABAYASHI Katsunori | Theoretical studies on electronic and optical properties of quantum materials |

Computer Science

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| 9 | NAGATA Noriko | Data science for Kansei/affective value creation |
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Biosciences:

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| 10 | FUJIWARA Shinsuke | Adaptation mechanism of extremophilic microorganisms |
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Biomedical Sciences:

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| 11 | OKIYONEDA Tsukasa | Identification of novel therapeutic targets for cystic fibrosis and COPD |
| 12 | YAO Ikuko | Analysis of regulatory mechanisms of neuronal activity with molecular imaging techniques |

Applied Chemistry for Environment:

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| 13 | TANIMIZU Masaharu | Determination of natural isotopic variation among heavy elements in the earth surface |
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