JSPS Postdoctoral Fellowship for Overseas Researcher

FY 2019 Engineering sciences

Name(Nationality)	Research Subject	Host Institute Host Researcher	Period	Region Prefecture
MAKKI ALAMDARI, M. AUSTRALIA	Multi-Way Tensor Analysis for Bridge Damage Identification Using Responses of a Moving Vehicle	Kyoto University KIM, Chul-woo Professor Graduate School of Engineering	Sep 28, 2019～ Sep 27, 2021	Kinki Kyoto
MANOHARAN, R. AUSTRALIA	Flow characterization in the High Enthalpy Shock Tunnel using tunable diode laser absorption spectroscopy	Japan Aerospace Exploration Agency TANNO, Hideyuki Senior Researcher Research and Development Directorate, Research Unit IV	Nov 17, 2019～ Nov 16, 2021	Tohoku Miyagi
CAO, X. CHINA	Innovation of a Coupled Bioelectrochemical System to Restore Contaminated Sea Bottom Sediment	Tohoku University NISHIMURA, Osamu Professor Graduate School of Engineering	Apr 1, 2019～ Mar 31, 2021	Tohoku Miyagi
CUI, Y. CHINA	Mechanism Clarification for Creation of Functional Nanostructures through Control of Stress Fields	Nagoya University JU, Yang Professor Graduate school of engineering	Oct 1, 2019～ Sep 30, 2021	Chubu Aichi
DOU, J. CHINA	Cognitive modeling for dynamic long-term landslide assessment associated with extreme events	Nagaoka University of Technology IKEDA, Takaaki Professor Graduate School of Engineering	Apr 1, 2019～ Mar 31, 2021	Chubu Niigata
GE, J. CHINA	Three-dimensional profile reconstruction of a natural SCC colony through electromagnetic NDT methods	Tohoku University YUSA, Noritaka Associate Professor Graduate School of Engineering	Jul 9, 2019～ Jul 8, 2021	Tohoku Miyagi
GUAN, K. CHINA	Study on microstructures and mechanical properties of wrought Mg-RE-based alloys	The University of Tokyo ABE, Eiji Professor Graduate School of Engineering	Nov 1, 2019～ Oct 31, 2021	Kanto Tokyo
GUO, Y. CHINA	Quantum mechanical modeling of phonon transport at nanoscale	The University of Tokyo NOMURA, Masahiro Associate Professor Institute of Industrial Science	Oct 1, 2019～ Sep 30, 2021	Kanto Tokyo

HU, L. CHINA	Investigation of metal-insulator transition and negative thermal expansion in layered ruthenates	Tokyo Institute of Technology AZUMA, Masaki Professor Institute of Innovative Research	Sep 25, 2019～ Sep 24, 2021	Kanto Kanagawa
HU, Y. CHINA	Integrating AnDMBR and Membrane-enhanced Anammox for Wastewater Treatment and Bioenergy Recovery	Tohoku University LI, Yu-You Professor Graduate School of Engineering	Oct 4, 2019～ Oct 3, 2021	Tohoku Miyagi
JIANG, B. CHINA	New Functional Ceramic Membranes Using Nanoporous Noble Metals	National Institute for Materials Science SAKKA, Yoshio Senior Scientist Research Center for Functional Materials	Apr 1, 2019～ Mar 31, 2021	Kanto Ibaraki
LI, B. CHINA	Modification on Microstructure and mechanical properties of Mg-Gd-Zn-Zr alloys	Tohoku University UEDA, Shigeru Associate Professor Institute of Multidisciplinary Research for Advanced Materials	Nov 24, 2019～ Nov 23, 2021	Tohoku Miyagi
LI, S. CHINA	A 10 nm Scale Nanobiosensing Platform	The University of Tokyo FUJII, Teruo Professor Institute of Industrial Science	Oct 5, 2019～ Oct 4, 2021	Kanto Tokyo
LIU, C. CHINA	Unraveling the complexity of methane dehydroaromatization for novel catalysts design	Hokkaido University SHIMIZU, Kenichi Professor Institute for Catalysis	Apr 1, 2019～ Mar 31, 2021	Hokkaido Hokkaido
LIU, Y. CHINA	Combination of AE and Ultrasonic techniques for the early-age quality control of concrete structure	Kyoto University SHIOTANI, Tomoki Program-Specific Professor Graduate School of Engineering	Jul 16, 2019～ Jul 15, 2021	Kinki Kyoto
QI, L. CHINA	Seismic assessment of low-rise irregular steel buildings considering nonstructural component	Kyoto University KURATA, Masahiro Associate Professor Disaster Prevention Research Institute	Sep 1, 2019～ Aug 31, 2021	Kinki Kyoto
SONG, X. CHINA	Failure Mechanism of Seismically Isolated High-rise Buildings Under Extreme Earthquakes	Tohoku Institute of Technology XUE, Songtao Professor Faculty of Engineering	Oct 2, 2019～ Oct 1, 2021	Tohoku Miyagi

WANG, B. CHINA	High-resilient rocking wall-frame structural systems with hybrid damping devices for earthquake load	Kyoto University NISHIYAMA, Minehiro Professor Department of Architecture and Architectural Engineering, Faculty of Engineering	Jun 28, 2019～ Jun 27, 2021	Kinki Kyoto
WANG, C. CHINA	Three-Dimensional Biodegradable Nanofibers for Multifunctional Cardiac Patch	The University of Tokyo SOMEYA, Takao Professor Graduate School of Engineering	Nov 2, 2019～ Nov 1, 2021	Kanto Tokyo
XU, F. CHINA	Development of Modular Steel Construction to Promote Reclaiming and Reusing Structural Steel	Hokkaido University OKAZAKI, Taichiro Professor Faculty of Engineering	Nov 28, 2019～ Nov 27, 2021	Hokkaido Hokkaido
XU, K. CHINA	Research on Synthesized Decoupling Networks for Array Antennas	Tohoku University CHEN, Qiang Professor Graduate School of Engineering	Nov 29, 2019～ Nov 28, 2021	Tohoku Miyagi
YANG, J. CHINA	Innovative anti-seismic technology based on magnetorheological materials for building protection	Tohoku University NAKANO, Masami Professor New Industry Creation Hatchery Center	Apr 1, 2019～ Mar 31, 2021	Tohoku Miyagi
YANG, K. CHINA	Ultra-high Cycle Fatigue Characterization and Ultra-slow Crack Growth of Titanium Alloys	Kyushu University CHEN, Qiang Professor Faculty of Engineering	May 16, 2019～ May 15, 2021	Kyushu Fukuoka
YUAN, D. CHINA	Exploitation of the intelligent image-activated cell sorting technology for diverse biomedical applications	The University of Tokyo GODA, Keisuke Professor School of Science	May 30, 2019～ May 29, 2021	Kanto Tokyo
ZHAN, Y. CHINA	Hydrogels Formed by 3D Polymer Networks with Ultimate Structural Regularity and Tunability	RIKEN ISHIDA, Yasuhiro Team Leader Center for Emergent Matter Science	Oct 15, 2019～ Oct 14, 2021	Kanto Saitama
ZHANG, Y. CHINA	Phonon transport properties of thermoelectric oxide films and superlattices	Hokkaido University OHTA, Hiromichi Professor Research Institute for Electronic Science	Apr 15, 2019～ Apr 14, 2021	Hokkaido Hokkaido

ZHAO, K. CHINA	Fault-Tolerant Control Method for Demagnetization of Permanent Magnet Synchronous Motors	Tokyo University of Technology SHE, Jinhua Professor School of Engineering	Apr 10, 2019～ Apr 9, 2021	Kanto Tokyo
ZHOU, C. CHINA	Solidification/stabilization of heavy metals using cementitious materials based on industrial wastes	Kyushu University SASAKI, Keiko Professor Faculty of Engineering	Mar 25, 2020～ Mar 24, 2022	Kyushu Fukuoka
ZHU, B. CHINA	Topology optimization of compliant constant-force mechanisms	Kyoto University NISHIWAKI, Shinji Professor Graduate School of Engineering	Nov 29, 2019～ Nov 28, 2020	Kinki Kyoto
SCHIMMEL, S. C. GERMANY	Ammonothermal growth of low dislocation density, high purity bulk GaN for power electronic devices	Nagoya University AMANO, Hiroshi Professor Institute of Materials and Systems for Sustainability	May 31, 2019～ Aug 30, 2020	Chubu Aichi
ALKALLA, M. I. EGYPT	Quantum dot and lanthanide photocatalyst as a novel technology for emerging micropollutant removal	Tokyo Institute of Technology FUJII, Manabu Specially Appointed Associate Professor School of Environment and Society	Nov 4, 2019～ Nov 3, 2021	Kanto Tokyo
BARAKAT, A. T. EGYPT	Compact WPT system for concurrent transfer of data and power using metamaterial diplexer receiver	Kyushu University POKHAREL, Ramesh Professor Faculty of Information Science and Electrical Engineering	Apr 1, 2019～ Mar 31, 2021	Kyushu Fukuoka
ELSAMADONY, M. M. EGYPT	Adsorption treatment using carbon nanocomposite for removal of persistent organic micropollutants	Tokyo Institute of Technology FUJII, Manabu Specially Appointed Associate Professor School of Environment and Society	May 7, 2019～ May 6, 2021	Kanto Tokyo
EMRAN, M. Y. EGYPT	Low-power energy, portable nano-sensor chipset devices as early-stage diagnoses of neuronal diseases	National Institute for Materials Science EL-SAFTY, Sherif Managing Researcher Research Center for Functional Materials	May 1, 2019～ Apr 30, 2021	Kanto Ibaraki
CANTON VITORIA, R. SPAIN	Development and application of a healing method for atomic layers	Nagoya University KITAURA, Ryo Associate Professor Chemistry	Oct 16, 2019～ Oct 15, 2021	Chubu Aichi

MARTIN VILARDELL, A. SPAIN	Deposition and characterization of TiC-based cermet powders by additive manufacturing	Nagoya University KOBASHI, Makoto Professor Graduate School of Engineering	Nov 1, 2019～ Apr 30, 2021	Chubu Aichi
BLOYET, C. FRANCE	Development of Nontoxic Biomarkers Adapted for Multiphoton Excitation Toward Cancer Theranostics.	National Institute for Materials Science SHIRAHATA, Naoto Associate Principal Investigator International Center for Materials Nanoarchitectonics	May 7, 2019～ May 6, 2021	Kanto Ibaraki
BONFANTE, G. FRANCE	A Novel Fabrication of Dissoluble Microneedle Patch for Bio-Medical Applications and Monitoring	The University of Tokyo KIM, Beomjoon Professor Institute of Industrial Science	Apr 1, 2019～ Mar 31, 2021	Kanto Tokyo
de CLERMONT-GALLERANDE, J. FRANCE	Development of Novel Tellurite-Based Glasses with Superiorly High Nonlinear Optical Properties	Nagoya Institute of Technology HAYAKAWA, Tomokatsu Professor Graduate School of Engineering	Nov 18, 2019～ Nov 17, 2021	Chubu Aichi
AMRILLAH, T. INDONESIA	Topological and magnetic state engineering in rare earth monoxide	Tohoku University FUKUMURA, Tomoteru Professor Advanced Institute for Materials Research	Nov 21, 2019～ Nov 20, 2021	Tohoku Miyagi
TRISNANTO, S. INDONESIA	Analysis of magnetization dynamics of magnetic nanoparticles for new diagnostic imaging technology	Yokohama National University TAKEMURA, Yasushi Professor Faculty of Engineering	Apr 1, 2019～ Mar 31, 2021	Kanto Kanagawa
ALLAM, S. R. INDIA	Versatile structured light sources based on nonlinear optics	Chiba University OMATSU, Takashige Professor Graduate School of Engineering	Oct 17, 2019～ Oct 16, 2021	Kanto Chiba
ANNAMALAI, P. INDIA	Piezoelectric Soft Materials Based on Magnetically Oriented Cellulose Nanocrystals	RIKEN ISHIDA, Yasuhiro Team Leader Center for Emergent Matter Science	Jul 14, 2019～ Jul 13, 2021	Kanto Saitama
BASU, T. S. INDIA	Vertical spin transistors with organic molecules as quantum dots: Futuristic spintronics device	National Institute for Materials Science HAYAKAWA, Ryoma Senior researcher International Center for Materials Nanoarchitectonics	Apr 1, 2019～ Mar 31, 2021	Kanto Ibaraki

BHANJA, P. INDIA	Design and synthesis of novel mesoporous metal oxides and phosphates	National Institute for Materials Science YAMAUCHI, Yusuke Group Leader International Center for Materials Nanoarchitectonics (WPI-MANA)	Apr 1, 2019～ Mar 31, 2021	Kanto Ibaraki
CHANDEL, A. K. INDIA	Development of new injectable hydrogels with anti-adhesive, hemostatic, and antimicrobial properties	The University of Tokyo ITO, Taichi Associate Professor Graduate School of Medicine	Apr 8, 2019～ Apr 7, 2021	Kanto Tokyo
GANGANBOINA, A. B. INDIA	Signal-amplified two-way detection of virus using nanoparticles-embedded polymer nanovesicle	Shizuoka University PARK, Enoch y. Professor Reaearch Institute of Green Science and Technology	Aug 22, 2019～ Aug 21, 2021	Chubu Shizuoka
KUMAR, S. INDIA	Long-Range Periodic Assembly of Stable pi-Radical Ions and Its Charge and Spin Transporting Property	Kyoto University SEKI, Shuhei Professor Graduate School of Engineering	Nov 2, 2019～ Nov 1, 2021	Kinki Kyoto
LOGANATHAN, M. INDIA	Photo-electroporation: Massively Parallel Versatile Delivery Using Titanium-dioxide Nanotubes	Toyohashi University of Technology NAGAI, Moeto Lecturer Graduate School of Engineering	Nov 10, 2019～ Nov 9, 2021	Chubu Aichi
MAITI, D. INDIA	Development of nanocapsules loaded with scintillating particles for radiotherapy	The University of Tokyo MIYATA, Kanjiro Associate Professor Graduate School of Engineering	Jul 15, 2019～ Jul 14, 2021	Kanto Tokyo
MALLICK, A. INDIA	Creation of soft nanomaterials showing photon upconversion	Kyushu University YANAI, Nobuhiro Associate Professor Faculty of Engineering	May 8, 2019～ May 7, 2021	Kyushu Fukuoka
MANI, G. K. INDIA	Next Generation Implantable Nanosensor Technology for Monitoring Single Cell Metabolites	Tokai University TSUCHIYA, Kazuyoshi Professor School of Engineering	Apr 15, 2019～ Apr 14, 2021	Kanto Kanagawa
SRINIVASAN, B. INDIA	Exploiting the Refractory Rare-Earth Compounds for High Temperature Thermoelectrics	National Institute for Materials Science MORI, Takao Group Leader International Center for Materials Nanoarchitectonics (WPI-MANA)	Apr 1, 2019～ Mar 31, 2021	Kanto Ibaraki

SUGALI, P. INDIA	Development of high field superconducting bulk magnet based on new iron-based superconductor	National Institute of Advanced Industrial Science and Technology OGINO, Hiraku Senior Researcher Electronics and Photonics Research Institute	Sep 1, 2019～ Aug 31, 2021	Kanto Ibaraki
SOLTANI, T. K. IRAN	Development of new dual cocatalyst deposited on titanate photocatalyst for carbon dioxide reduction	Kyoto University YOSHIDA, Hisao Professor Graduate School of Human and Environmental Studies	Nov 28, 2019～ Nov 27, 2021	Kinki Kyoto
IACOBUCCI, R. ITALY	Energy, environmental and economic impacts of shared autonomous electric vehicles on the smart grid	Kyoto University SCHMOECKER, Jan-Dirk Associate Professor Graduate School of Engineering	Nov 1, 2019～ Oct 31, 2021	Kinki Kyoto
MALTA, G. ITALY	CO2 hydrogenation using novel heterogeneous catalysts: in-situ identification of the active site	Hokkaido University SHIMIZU, Kenichi Professor Institute for Catalysis	Nov 1, 2019～ Oct 31, 2020	Hokkaido Hokkaido
ROSTI, M. ITALY	Large-scale numerical simulation of gas-solid-liquid flow in air-lift pump for deep-sea mining	The University of Tokyo TAKAGI, Shu Professor Graduate School of Engineering	Aug 1, 2019～ Dec 31, 2019	Kanto Tokyo
KIM, S. KOREA (REP. OF KOREA)	Development of Medical High-piezoelectric Materials using MPB and Ion's Off-centering Mechanism	University of Yamanashi WADA, Satoshi Professor Graduate Faculty of Interdisciplinary Research	Apr 1, 2019～ Jan 31, 2020	Chubu Yamanashi
BALCYTIS, A. LITHUANIA	Photonic crystal nanolaaser and its applications	Yokohama National University BABA, Toshihiko Professor Faculty of Engineering	Apr 1, 2019～ Mar 31, 2021	Kanto Kanagawa
SANCHEZ GONZALEZ, E. MEXICO	Porous soft materials with self-healing property	Kyoto University FURUKAWA, Shuhei Associate Professor Institute for Advanced Study	Nov 6, 2019～ Nov 5, 2021	Kinki Kyoto
VADIVELU, R. K. MALAYSIA	Reconstituting higher-order kidney organoids	The University of Tokyo SAKAI, Yasuyuki Professor Graduate School of Engineering	Nov 1, 2019～ Oct 31, 2021	Kanto Tokyo

ACHADU, O. J. NIGERIA	Electrochemical-SERS-based novel detection of infectious virus using MoO3 QDs-loaded nanogels	Shizuoka University PARK, Enoch y. Professor Research Institute of Green Science and Technology	Nov 1, 2019～ Oct 31, 2021	Chubu Shizuoka
TALCHABHADEL, R. NEPAL	Integrated modelling for sediment management in a watershed of dynamic land use	Kyoto University KAWAIKE, Kenji Associate Professor Disaster Prevention Research Institute	Apr 1, 2019～ Mar 31, 2021	Kinki Kyoto
CARVAJAL, T. M. PHILIPPINES	Genetic Inference of Flood-driven Population Expansion of Dengue Vector Mosquitoes in Urban Cities	Ehime University WATANABE, Kozo Professor Graduate School of Science and Engineering	Apr 1, 2019～ Mar 31, 2021	Shikoku Ehime
AMEN, T. W. PALESTINE	Double-stage anaerobic digestion of municipal sludge and the effects of nano-particles addition	The University of Kitakyushu YASUI, Hidenari Professor Faculty of Environmental Engineering	Oct 1, 2019～ Sep 30, 2021	Kyushu Fukuoka
LIM, P. SINGAPORE	Novel Infection Models for Development of Artificial Bone with Antibacterial and Osteogenic Efficacy	Meiji University AIZAWA, Mamoru Professor Department of Applied Chemistry, School of Science and Technology	Sep 1, 2019～ Aug 31, 2021	Kanto Kanagawa
KARAHAN, H. E. TURKEY	High-Performance Gas Separation Membranes by Guided-Assembly of Graphene-based Nanocomposites	Kyoto University SIVANIAH, Easan Professor Institute for Advanced Study, Institute for Integrated Cell-Material Sciences	Oct 31, 2019～ Oct 30, 2021	Kinki Kyoto
CHIU, W. TAIWAN	Enhancing stability and selectivity of self-powered gas sensors by nano-Au/ZnO decorated polyaniline	The University of Tokyo TOSHIYOSHI, Hiroshi Professor Institute of Industrial Science	Apr 1, 2019～ Jan 31, 2020	Kanto Tokyo
HO, T. TAIWAN	Development of Automated Fast and Accurate Tsunami Hazard Forecasting Algorithm	Kyoto University MORI, Nobuhito Professor Disaster Prevention Research Institute	Oct 1, 2019～ Sep 30, 2021	Kinki Kyoto
YU, Y. TAIWAN	Optical fiber sensor with high sensitivity for simultaneous multiple parameters and points detection	The University of Tokushima GOTO, Nobuo Professor Graduate School of Technology, Industrial and Social Sciences	Apr 1, 2019～ Mar 31, 2021	Shikoku Tokushima