

List of Faculty
Tokyo Institute of Technology International Graduate Program (C)
Commencing in September 2022

School of Materials and Chemical Technology

Dept. of Materials Science and Engineering

Academic Supervisor		Research Field	Remarks	Graduate Major
Professor	INAMURA, Tomonari	Shape Memory Alloy, Crystallography of Phase Transformation		Materials Science and Engineering Energy Science and Engineering
Professor	ONAKA, Susumu	Mechanical Properties of Materials		Materials Science and Engineering
Professor	TADA, Eiji	Corrosion and Environmental Degradation of Materials		Materials Science and Engineering
Professor	FUJII, Toshiyuki	Crystallography of Microstructures		Materials Science and Engineering
Professor	HOSODA, Hideki	Materials Design, Shape Memory Alloys, Intermetallic Compounds		Materials Science and Engineering Human Centered Science and Biomedical Engineering Energy Science and Engineering
Associate Professor	KAWAMURA, Kenichi	High Temperature Physical Chemistry, Solid State Ionics		Materials Science and Engineering
Associate Professor	GOHDA, Yoshihiro	Electron Theory of Magnetic Materials and Surface Nanostructures		Materials Science and Engineering
Associate Professor	KOBAYASHI, Equo	Physical Metallurgy of Non-ferrous Metals and Intermetallics, Design and Evaluation of Biomedical Materials		Materials Science and Engineering Human Centered Science and Biomedical Engineering
Associate Professor	KOBAYASHI, Satoru	Phase diagrams and phase transformations in alloys, Physical metallurgy of ferrous alloys, Heat resistant steels and alloys		Materials Science and Engineering
Associate Professor	SANNOMIYA, Takumi	Plasmonic Materials, Electron Microscopy		Materials Science and Engineering Human Centered Science and Biomedical Engineering Energy Science and Engineering
Associate Professor	TAHARA, Masaki	Functional metal material, Diffusionless phase transformation, Metallography, Biomedical Ti alloy		Materials Science and Engineering Human Centered Science and Biomedical Engineering
Associate Professor	TERADA, Yoshihiro	Microstructure Control, Mechanical Properties, Heat-Resistant Materials		Materials Science and Engineering
Associate Professor	NAKADA, Nobuo	Microstructure and Mechanical Properties of Iron and Steels		Materials Science and Engineering

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Associate Professor	NAKATSUJI, Kan	Surface and Interface Physics		Materials Science and Engineering
Associate Professor	MURAIISHI, Shinji	Micromechanics, Nanostructured Material, Crystal Defects		Materials Science and Engineering
Professor	KIMURA, Yoshisato	Materials Design based on Phase Diagrams and Microstructure Control, Intermetallics, Thermoelectric Materials, Heat Resistant Alloys		Energy Science and Engineering Materials Science and Engineering
Professor	SHI, Ji	Physical Properties of Metals, Magnetic Thin Films		Energy Science and Engineering Materials Science and Engineering
Associate Professor	UEDA, Mitsutoshi	High Temperature Oxidation of Metals, Defect Chemistry in Oxides, Physical Chemistry at High Temperature		Energy Science and Engineering Materials Science and Engineering
Professor	HAYASHI, Miyuki	Thermophysical Properties of Materials, High Temperature Process Control		Energy Science and Engineering Materials Science and Engineering
Professor	SONE, Masato	Material Fabrication and Evaluation for IC & MEMS		Human Centered Science and Biomedical Engineering Materials Science and Engineering
Associate Professor	CHANG, Tso-Fu Mark	Electrodeposition, Metal-based Catalyst, Metal/Metal Oxide Composite Photocatalyst, Metal/Polymer Flexible Functional Materials		Human Centered Science and Biomedical Engineering Materials Science and Engineering
Professor	KOBAYASHI, Yoshinao	Metal Refining and Recycling, Safety Metallurgy for Nuclear Reactors, Phase Stability, Degradation of Materials in Reactors, Waste Management		Nuclear Engineering Materials Science and Engineering
Professor	OUGIZAWA, Toshiaki	Physical Chemistry of Polymeric Materials		Materials Science and Engineering
Professor	HAYAKAWA, Teruaki	Polymer Synthesis, Polymer Thin Films, Self-Organizing Organic and Polymeric Materials		Materials Science and Engineering
Professor	VACHA, Martin	Optical Properties of Organic Materials		Materials Science and Engineering Energy Science and Engineering
Associate Professor	ASAI, Shigeo	Physical Properties of Organic Materials, Polymer Composites		Materials Science and Engineering
Associate Professor	SHIOYA, Masatoshi	Structure and Mechanical Properties of Carbon Materials, Fibers and Composite Materials		Materials Science and Engineering

Academic Supervisor		Research Field	Remarks	Graduate Major
Associate Professor	HAYAMIZU, Yuhei	Bio-interface, Nano Materials		Materials Science and Engineering Human Centered Science and Biomedical Engineering
Associate Professor	MICHINOBU, Tsuyoshi	Polymer Synthesis, Semiconducting Polymers		Materials Science and Engineering
Associate Professor	SAGARA, Yoshimitsu	Organic Supramolecules, Stimuli-responsive Luminescent Materials, Mechanophore		Materials Science and Engineering
Professor	MATSUMOTO, Hidetoshi	Functional Nanomaterials, Polymer Membranes and Thin Films, Energy-Related Materials		Materials Science and Engineering Energy Science and Engineering
Professor	MORIKAWA, Junko	Polymer Processing, Thermal Properties of Polymers		Materials Science and Engineering Human Centered Science and Biomedical Engineering
Professor	AZUMA, Masaki	Solid State Chemistry		Materials Science and Engineering
Professor	IKOMA, Toshiyuki	Bioceramics, Biosensing, Nanomedicine, Tissue Engineering		Human Centered Science and Biomedical Engineering Materials Science and Engineering
Professor	OBA, Fumiyasu	Computational Design of Electronic and Energy Materials		Materials Science and Engineering
Professor	KAMIYA, Toshio	Semiconductors, Optoelectronic Devices, Computer simulation		Materials Science and Engineering
Professor	KAWAJI, Hitoshi	Physical Chemistry of Materials, Phase Transition		Materials Science and Engineering
Professor	KITAMOTO, Yoshitaka	Nanoparticles, Magnetic Materials and Devices, Biomedical Devices, Biosensors		Human Centered Science and Biomedical Engineering
Professor	NAKAJIMA, Akira	Environmental Ceramics, Surface Functional Materials		Materials Science and Engineering
Professor	HARA, Michikazu	Catalysis, Surface Science		Materials Science and Engineering Energy Science and Engineering
Professor	HIRAMATSU, Hidenori	Superconducting Materials and Devices		Materials Science and Engineering
Professor	FUNAKUBO, Hiroshi	Materials Science, Thin Film Devices		Materials Science and Engineering

Academic Supervisor		Research Field	Remarks	Graduate Major
Professor	MAJIMA, Yutaka	Single Nanoscale Electronic Materials and Devices, Electroless Au Plating, Molecular Transistor, Single-Electron Transistor, Scanning Probe Microscopy		Materials Science and Engineering
Professor	MATSUSHITA, Nobuhiro	Novel Material Processes for Energy and Environmental, Biomedical, Electronic Applications		Materials Science and Engineering
Professor	MIYAUCHI, Masahiro	Photocatalysis, Artificial Photosynthesis, Green House Gas Conversion, Hydrogen Carrier, Chemical Synthesis of Nanoparticles		Energy Science and Engineering Materials Science and Engineering
Professor	YANO, Tetsuji	Ion-Dynamics in glass for mechanical and electrochemical use, Optical properties for devices, Glasses for environmental problems		Materials Science and Engineering
Associate Professor	ISOBE, Toshihiro	Environmental Ceramics, Porous ceramics, Membrane, Functional ceramics		Materials Science and Engineering
Associate Professor	KATASE, Takayoshi	Oxide electronics, Energy materials, Thin film device		Materials Science and Engineering
Associate Professor	KAMATA, Keigo	Catalytic Chemistry, Environment-Friendly Chemical Process		Materials Science and Engineering Energy Science and Engineering
Associate Professor	KITANO, Masaaki	Heterogeneous Catalyst, Ammonia Synthesis, Acid Base Catalyst		Materials Science and Engineering
Associate Professor	KUMAGAI, Yu	Development and application of first-principles calculations for semiconductor material sciences		Materials Science and Engineering
Associate Professor	SASAGAWA, Takao	Strongly Correlated Electron Systems		Materials Science and Engineering Energy Science and Engineering
Associate Professor	TSUGE, Takeharu	Biodegradable Plastics		Materials Science and Engineering Human Centered Science and Biomedical Engineering
Associate Professor	NAKAMURA, Kazutaka	Laser Spectroscopy		Materials Science and Engineering
Associate Professor	HAYASHI, Tomohiro	Nanobio science, Biointerface & Biomaterials, Materials Informatics		Human Centered Science and Biomedical Engineering
Associate Professor	HOSHINA, Takuya	Dielectric and Ferroelectric Materials, Phonon Analysis		Materials Science and Engineering

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Associate Professor	MATSUISHI, Satoru	Synthesis and Characterization of Superconducting and Electro-Active Materials		Materials Science and Engineering
Associate Professor	MATSUSHITA, Sachiko	Sensitized Thermal Cell, Plasmonics, Fabrication of Nanostructures		Materials Science and Engineering Energy Science and Engineering
Associate Professor	YAMAMOTO, Takafumi	Solid state chemistry, functional inorganic materials (magnetism, superconductivity, photofunctionality, catalytic property, etc)		Materials Science and Engineering
Associate Professor	YOSHIDA, Katsumi	Severe environment resistant materials, Materials for nuclear and fusion applications, Ceramic-based composites, High performance porous ceramics		Nuclear Engineering
Associate Professor (Lecturer)	MATSUDA, Akifumi	Atomic-scale Materials Engineering, Materials for Electronics and Energy Applications		Materials Science and Engineering Energy Science and Engineering
Assistant Professor (Tenure Track)	YAMAGUCHI, Akira	electrocatalysts, hydrothermal electrochemistry		Energy Science and Engineering Materials Science and Engineering
Institute Professor	HOSONO, Hideo	Exploring novel electronic & photonic materials (Superconductor, Transparent-semiconductors, Fluorescent and Catalytic Materials)		Materials Science and Engineering
Specially Appointed Professor	SAKATA, Osami	Materials Analysis using Synchrotron Radiation, Functional Thin Films, Surfaces, Nano-particles		Materials Science and Engineering