生命科学・化学専攻
Department of Life Science and Chemistry

生命工学創薬領域
Medicinal Chemistry and Biotechnology Division

As of April 1, 2019

役職 Title	教員名 Name	教育・研究分野 Educational and Research Area	
		名称 Specialization	内容 Theme
Professor	Masato Ikeda	Biomolecular Chemistry	Education and research on nanobiotechnology based on molecular machinery and supramolecular materials
Professor	Hiroshi Ueda	Medical molecular engineering	Education and research on cellular response mechanisms through biological membranes
Professor	Hiroshi Takemori	Therapeutic Science	Education and research for understanding of disease mechanisms and energy metabolism
Professor	Kyoji Furuta	Biofunctional molecule chemistry	Education and research on molecular design and synthesis of bioactive substances
Professor	Yoko Morita	Biochemistry of Signal Transduction	Education and research on the molecular mechanisms of intracellular signal transduction in the development and aging of the central nervous system
Professor	Takashi Yokogawa	Gene expression engineering	Education and research on the engineering of the protein synthesis systems
Associate Professor	Satoshi Ohno	Gene expression engineering	Education and research on development of methods for the synthesis of novel proteins
Associate Professor	Kentaro Oh-hashi	Biochemistry of signal transduction	Education and research on cellular stress responses and signal transduction
Associate Professor	Hiroko Koyama	Bioorganic chemistry	Education and research on design and synthesis of functional *in vivo* molecular probe
Assistant Professor	Yoshiaki Kitamura	Biomolecular Chemistry	Education and research on development of new methodologies in organic synthesis for drug discovery and chemical biology
Assistant Professor	Aya Shibata	Biomolecular Chemistry	Education and research of the development of functional molecule using nucleic acids

生命工学化学領域
Applied Chemistry and Biotechnology Division

役職 Title	教員名 Name	教育・研究分野 Educational and Research Area	
		名称 Specialization	内容 Theme
Professor	Kaori Ando	Organic Reaction Chemistry	Education and research on development of new synthetic methods and the reaction mechanism
Professor	Toyohide Takeuchi	Separation analytical chemistry	Education and research on design of novel separation analytical systems and their application
Professor	Tetsuro Fujisawa	Structural Biophysics	Education and research on protein dynamics probed by synchrotron radiation
Professor	Toshiaki Murai	Synthetic Organic Chemistry	Education and research of syntheses of valuable organic compounds and development of synthetic reactions
Professor	Toyokazu Yoshida	Bioprocess engineering	Education and research on functional analysis of novel enzymes and application to the synthesis of useful compounds
Professor	Lee Wah Lim	Instrumental and separation chemistry	Education and research on optimization and application of separation and instrumental analytical systems/devices
Associate Professor	Natsuhisa Oka	Design of functional molecules	Education and research on design, synthesis, and applications of functional organic molecules
Associate Professor	Keiichi Kameyama	Biophysical Chemistry	Education and research on characterization of biologically related supramolecular assemblies
Associate Professor	Fumitoshi Shibahara	Design of Transformation in Organic Synthesis	Education and research on design of transformations for organic synthesis of valuable compounds
Associate Professor	Koichi Mitsukura	Biocatalysis and green chemistry	Education and research on chemo-biocatalytic synthesis of useful compounds and on screening for novel enzymes and thier applications
Associate Professor	Hidekazu Miyaji	Supramolecular Chemistry	Education and research on molecular recognition and artificial construction of biological functions by supramolecules

環境社会基盤工学専攻
Department of Civil and Environmental Engineering

環境領域
Environmental Studies Division

As of April 1, 2019

役職 Title	教員名 Name	教育・研究分野 Educational and Research Area	
		名称 Specialization	内容 Theme
Professor	Tomoyuki Ohtani	Engineering Geology	Geothermal resource geology and fault rock study of active fault
Professor	Kohji Kamiya	Groundwater engineering	Education and research for groundwater resources management
Professor	Koichi Kobayashi	Maintenance Engineering	Education and research on evaluation of materials and their deterioration for building infrastructure maintenance systems
Professor	Seirou Shinoda	Water environmental system dynamics	Education and research work on a system dynamics for the transfer and circulation of water and substance in the water environment
Professor	Akiyoshi Takagi	Regional Planning	Education and research on regional planning based on socio-economic evaluation of safety, comfort and convenience
Professor	Ichiro Tamagawa	Hydrometeorology	Energy and water exchange betweem land and atmosphere and atmospheric boundary layer
Professor	Fusheng Li	Environmental and water quality engineering	Water quality; Water and wastewater treatment; Pollution control; Solid waste treatment and reuse
Associate Professor	Toshiharu Kojima	Hydrology	Education and investigation of rainfall-runoff process and related various phenomena with remote sensing and GIS
Associate Professor	Yoshifumi Demura	Urban History, Landscape Planning	Spatial and Historical Study of Urban and Humanized Landscape, Landscape Design
Associate Professor	Kayako Hirooka	environmental sanitary engineering	Research and Education on recovery of energy and material from wastewater and solid waste, and Energy-saving wastewater treatment technology
Associate Professor	Toshiro Yamada	Environmental and Sanitary Engineering	Evaluation and control of diffuse water pollution, source water quality control and management for safe drinking water
Assistant Professor	Yuki Kojima	Environmental Soil Physics	Education and research relevant to coupled heat, water, and chemical transfer in vadose zone

防災領域
Disaster Reduction Studies Division

役職 Title	教員名 Name	教育・研究分野 Educational and Research Area	
		名称 Specialization	内容 Theme
Professor	Yuichi Uchida	Concrete structures	Education and research on the behavior of reinforced concrete elements and of structures
Professor	Minoru Kunieda	Construction Materials	Advanced construction materials and structures for resilient infrastructures
Professor	Fumitaka Kurauchi	Transport System Design	Research and education on planning, designing and evaluating transport system for improving its efficiency, safety and sustainability
Professor	Satoru Kojima	Engineering Geology	Education and research on geological process and natural hazard characteristic of mobile belt like Japanese Islands
Professor	Kazuhide Sawada	Geotechnical Engineering	Engineering technique and information for prevention or reduction of geo-disaster
Professor	Nobuoto Nojima	Earthquake Engineering	Seismic Hazard and Risk Assessment and its Application to Earthquake Disaster Prevention and Mitigation
Professor	Shigeyuki Murakami	Bridge Engineering	Education and Study on Satability, Ductility and Maintainance of Bridge Structures
Professor	Atsushi Yashima	Geo-Hazard Mitigation	Education & Research on Mitigation of Geo-Hazard
Associate Professor	Koji Kinoshita	Steel Structural Engineering, Fracture Mechanics, Earthquake Engineering	Seismic performance and fatigue performance of bridges: linear and nonlinear analytical techniques for bridges subject to dynamic loads, earthquake and aging protective systems, and experimental large-scale bridges testing
Associate Professor	Masumitsu Kuse	earthquake engineering	Prediction of ground motion, Estimation of the fault model based on the strong motion records
Associate Professor	Maki Koyama	Disaster Risk Reduction, Earthquake Engineering	Mechanism of human casualties and building disaster resilient communities
Associate Professor	Morihiro Harada	River Engineering	River basin management harmonized with disaster prevention and environmental conservation
Assistant Professor	Keisuke Ohashi	River Engineering	Computational Grain Sizing, Discharge measurement, and Surface Water-Groundwater Interaction

物質・ものづくり工学専攻
Department of Materials Science and Processing

物質化学領域
Materials Chemistry Division

As of April 1, 2019

役職 Title	教員名 Name	教育・研究分野 Educational and Research Area	
		名称 Specialization	内容 Theme
Professor	Shigeyuki Uemiya	Reaction and separation engineering	Research and education on reaction and separation materials for environmentally-friendly chemical reaction processes
Professor	Masahiro Ebihara	Physicochemical Properties of Coordination Compounds	Structure and physicochemical properties of coordination compounds and their assembled ones
Professor	Yutaka Ohya	Inorganic Materials Chemistry and Engineering	Education and researches on processing and properties of ceramics
Professor	Shoichi Kutsumizu	Soft Matter Chemistry	Development of self-assembled materials such as liquid-crystalline and polymeric materials and elucidation of their structure-property relationship
Professor	Mamoru Koketsu	Functional Organic Molecular Chemistry	Study on preparation, analysis and characterization of functional organic molecule
Professor	Osamu Sakurada	Processing of Inorganic Materials	Study and education on processing, characterization and analysis of inorganic materials
Professor	Mutsuhiro Shima	Materials Science	Materials science with particular focus on investigating structure-property relationships in functional magnetic nanomaterials and composites
Professor	Takashi Sugiura	Photoelectrochemistry	Synthesis and characterization of semiconductors for photoelectrochemical application
Professor	Akiyoshi Takeno	Functional polymer materials	Education and research on the functional polymer materials covering structure-property relationship and control
Professor	Takayuki Ban	Inorganic Materials Chemistry	Education and research on the syntheses of ceramic nanomaterials by solution processes and their characterization methods
Professor	Kazumasa Funabiki	Design of Functional Organic Molecule	Study and education on the synthesis of useful organic molecules and evalution of their properties
Associate Professor	Kazuhiro Uemura	Coordination Chemistry	Education and Studies on the Synthesis and Physical Properties of Novel Assembled Coordination Compounds
Associate Professor	Yasunori Oumi	Separation materials and engineering	Development of the design method and function elucidation of separated materials for realizing low environmental load process
Associate Professor	Hiroshi Kimura	Polymer&Surface Chemistry	Education and research relevant to behavior and functional development of surface in polymeric system
Associate Professor	Kenichi Komura	Materials for Catalyst & Catalysis Chemistry	Education and research on catalyst design for environmental benign chemical process.
Associate Professor	Yuji Naruse	Structual organic chemistry	Research and education on design of molecules and reactions and their applications for materials
Associate Professor	Kazuhiro Manseki	Materials science for photoenergy conversion	Development of solar cells and photocatalysts using organic-inorganic hybrid systems
Associate Professor	Manabu Miyamoto	Reaction and Separation Engineering	Catalysis, adsorption and membrane separation using porous materials
Associate Professor	Yohei Miwa	Chemistry in Molecular Assembly	Research and Education in Field of Self-Assemble Polymers and Liquid Crystals
Assistant Professor	Toshiyasu Inuzuka	Natural Product Chemistry	Isolation, structure elucidation and biological activity evaluation of novel natural products
Assistant Professor	Taro Udagawa	Quantum and computational chemistry	Development of computational methods for quantum mechanics and its applications
Assistant Professor	Yasuhiro Kubota	Organic Functional Chemistry	Molecular design and synthesis of functional dyes
Assistant Professor	Chika Takai	Design of Functional Inorganic Nanoparticles	Research and Education on Design of Functional Inorganic Nanoparticles and Control of their Dispersibility
Assistant Professor	Shinya Takahashi	Synthesis and properties of functionalized interface materials	Education and research on molecular design of polymeric materials with functionalized interface and its control of functionality
Assistant Professor	Keisuke Yamada	Spintronics	Education and research on fabrication of nano magnetic materials and evaluation of these physical properties
Assistant Professor	Michiyuki Yoshida	Ceramic Materials	Education and research for structural and material design based on powder technology

設計生産領域
Materials Processing Division

役職 Title	教員名 Name	教育・研究分野 Educational and Research Area	
		名称 Specialization	内容 Theme
Professor	Yoshihiko Uematsu	Strength and Fracture of Materials	Research and education for the understanding of fracture mechanisms of engineering materials, improvement of structural reliability and fracture prevention.
Professor	Hiroyuki Kousaka	Functional Surface Manufactureing	Resrach and education on functional surface manufacturing focusing on tribology and plasma technologies
Professor	Asami Nakai	Engineering of Composites	Education and research on basic theory on molding, structure, properties, and functions of composite materials and its application
Professor	Kisaragi Yashiro	Computational Materials Science	Research and education on various computational approaches for deformation and fracture of solid materials
Professor	Minoru Yamashita	Plasticity engineering	Research and education of elastic plastic deformation and plastic forming process of solid materials, and their numerical simulation
Professor	Zhigang Wang	Combined forming processes	Development of combined forming processes to make precise products with complicated shapes
Associate Professor	Yoshihiro Inoue	Complex Turbulent Shear Flow	Research and education of instrumentation system development and data analysis for turbulent structures in complex shear flows
Associate Professor	Toshifumi Kakiuchi	Strength and Fracture of Materials	Education and study on evaluation of strength in materials used for machine structures.
Associate Professor	Makoto Niikawa	Processing engineering	Research and education on various processing phenomena focusing on die and mold
Associate Professor	Yoshinori Yoshida	Advanced Structural Materials	Study on engineering stractural materials and its control deformation processing technology

知能理工学専攻
Department of Intelligence Science and Engineering

知能機械領域
Intelligent Mechanical Engineering Division

As of April 1, 2019

役職 Title	教員名 Name	教育・研究分野 Educational and Research Area	
		名称 Specialization	内容 Theme
Professor	Satoshi Ito	Engineering of intelligent control systems	Education and research on motor control systems of humans and robots
Professor	Minoru Sasaki	Electromechanical control engineering	Education and research on computer-controlled electromechanical systems, robotics engineering and modern control theory
Professor	Takeshi Miyasaka	Space Propulsion Engineering	Education and Research on plasma and physical gas dynamics of space propulsion systems
Professor	Takayoshi Yamada	Industrial Robotics and Mechatronics	Education and Research on Robotics, Mechatronics, and Robotic Assembly
Professor	Hironao Yamada	Computer Control Engineering	Education and research on computer control engineering, image processing, human support engineering
Professor	Hidehiko Yamamoto	Intelligent Production Engineering	Education and Reserach on Intelligent Systems Development for Factory's Design, Controls and Operations
Associate Professor	Kazuaki Ito	Motion control	Education and research on advanced motion control for mechatronic systems
Associate Professor	Takuya Kawamura	Human informatics	Education and Research on Perceptual information processing (Tactile sensor, Contact sensing processing), Experimental psychology (Tactile sensation, Sensitivity), Mechatronics
Associate Professor	Hirohisa Tamagawa	Polymeric materials	Education and Research on Fabrication of electroactive polymer, Elucidation of electric characteristics of hydrophillic polymer
Associate Professor	Gakuji Nagai	Computational Engineering	Education and Research on Strength of Materials, Finite Element Method for Smart Materials, High Performance Computing, Visualization
Associate Professor	Tetsuya Mouri	Intelligent Machanical Engineering	Education and Research on System Integration of Robotics and Virtual Reality
Associate Professor	Kojiro Matsushita	Human Assist Robotics	Education and research on motion & bio-signal analysis and autonomous robots for human assist

知能情報学領域
Informatics Division

役職 Title	教員名 Name	教育・研究分野 Educational and Research Area	
		名称 Specialization	内容 Theme
Professor	Hiroshi Kamabe	Information Theory and Coding Theory	Information Theory and Coding Theory for Input Constrained Channels and Application of Theory of Symbolic Dynamical System
Professor	Yoshihiro Kawase	Applications of numerical analysis	Discretization of large scale nonlinear equation and development of numerical algorism for finite element method and it's education and research
Professor	Keiichirou Kusakari	Program Theory	Research on computational models that are mathematical models and define the semantics of functional programs, and formal verification of functional programs
Professor	Fumihiko Saitoh	Image Engineering	Learning and research for image sensing system and image recognition algorithm
Professor	Masahiro Tanaka	Computer Simulation	Education and research on computational methods, numerical techniques, and algorithms in computer simulation
Professor	Satoru Hayamizu	Media Informatics	Education and research on media informatics
Professor	Takeshi Hara	Medical Image Analysis and Processing	Quantitative imaging and computerized analysis for medical images
Professor	Miwako Mishima	Discrete Mathematics and its Applications	Education and research on digital communications, cryptography, and their underlying algebra and combinatorics
Professor	Yasunari Yokota	Signal and Image Processing	Education and study related to processing and analysis for sound, biological signals, images, and videos.
Professor	Tadashi Yamaguchi	Numerical Analysis	Education and Research on Coupled Analysis between Recent Finite Element Method and Various Equations
Associate Professor	Kunihito Kato	Computer Vision	Image processing, Image recofnition, Computer Vision
Associate Professor	Yoshihiro Kaneko	Network Theory	Education and research based on graph-theoretic network system
Associate Professor	Ryugo Kijima	Human Computer Interaction	Human sensation and perception for interfacing to computer, especially for Virtual Reality.
Associate Professor	Motoki Shiga	Data Science	Theory of statistical data analysis and its applications on science and engineering
Associate Professor	Satoshi Tamura	Multimodal processing	Integration, application and information processing of multiple modalities such as audio and visual ones
Associate Professor	Yu Suzuki	Data Engineering	Education and research of data analysis based on data centric approach
Associate Professor	Kazunori Terada	Intelligent Interaction	Education and research on intelligent interaction between human-human and human-machine
Associate Professor	Michiko Harayama	Information networks	Computer network architechture of the Internet.
Associate Professor	Tadahiro Matsumoto	Natural Language Processing	Education and research on computer processing and representations of natural language
Associate Professor	Masami Mohri	Coding Theory and Network Security	Fundamental theory for improving security and reliability of media communications and its application to communication service
Assistant Professor	Xiangrong Zhou	High-dimensional medical image processing	Education and research on automatic recognition, extraction, modeling and application of human body information from high-dimensional medical images
Assistant Professor	Hidekazu Fukai	Biological Signal Processing	Studies on from systems biology to cognition by signal processing and statistical science
Assistant Professor	Shan Lu	Information theory and coding theory for multiuser communications	Research and education on the evaluation of the theoretical limits and encoding/decoding methods to approaching the theoretical limits for multiuser communications

応用数学物理領域
Applied Mathematics and Physics Division

役職 Title	教員名 Name	教育・研究分野 Educational and Research Area	
		名称 Specialization	内容 Theme
Professor	Masato Aoki	Computational Materials Science	Modeling and prediction of materials by theoretical and computational methods
Professor	Hiroyuki Usami	Differential equations	Asymptotic analysis of ordinary differential equations and partial differential equations
Professor	Atsushi Kameyama	Dynamical Systems	Mathematics of vector fields, discrete dynamical systems, and chaos
Professor	Shoji Shinmura	Theoretical Nuclear and Hadron Physics	Quantum physics, hypernuclear and strange-particle physics
Professor	Takamichi Terao	Computational science and engineering	Computational physics (colloids, soft materials, metamaterials), molecular simulations, high-performance computing
Associate Professor	Nobuo Kashiwagura	Materials science	Education and research on thin film semiconductor and functional ceramics
Associate Professor	Takako Kuzumaki Kobayashi	Number theory	Education and the study on classical algebraic number theory and analytic number theory
Associate Professor	Shintaro Kondo	Mathematical analysis	Education and research on mathematical analysis of nonlinear differential equations describing plasma phenomena and reaction diffusion equations
Associate Professor	Hideo Sakamoto	quantum many-body physics	Quantum many-body problems, nuclear structure, collective motions and particle interactions
Associate Professor	Okihiro Sawada	Partial Differential Equations	Research and Education on the mathematical analysis to the Navier-Stokes equations and related topics
Associate Professor	Hiroshi Takaba	Radio Astronomy	Study and education of Radio Astronomy and technical research on it
Associate Professor	Takahiro Nitta	Biophysics, Polymer physics	Research and education on soft materials and biomaterials
Associate Professor	Kouji Yamamuro	The theory of stochastic processes	Education and the study of mathematical theory of additive processes
Assistant Professor	Shota Ono	Theoretical condensed matter physics	A theoretical study of ultrafast phenomena in condensed matters, e.g., Nonequilibrium dynamics of elementary excitations, thermalization, etc./ A theoretical study of nanoscale physics, e.g., Nanocarbons, 2D materials, organic solar cells, etc.
Assistant Professor	Hiroshi Sudou	Radio astronomy	Astrometry, blackhole astronomy

エネルギー工学専攻
Department of Energy Engineering

エネルギー変換領域
Energy Conversion Division

As of April 1, 2019

役職 Title	教員名 Name	教育・研究分野 Educational and Research Area	
		名称 Specialization	内容 Theme
Professor	Hiroshi Asano	Energy systems engineering	System analysis and evaluation of energy systems including distributed energy resources and power systems
Professor	Yoshinori Itaya	Energy Process Engineering	Education and Research on environmental friend efficient energy process utilizing thermal equilibrium or thermodynamically non-equilibirum states
Professor	Shinji Kambara	Energy and Environmental Engineering	R&D of energy and environmental engineering by plasma chemistry and photochemistry.
Professor	Tomonao Kobayashi	Natural Energy	Evaluation and prediction of electric power generation of photovoltaic systems based on weather forecasting, and prediction of waves and physical processes in the ocean
Professor	Masaharu Komiyama	Thermal Engineering	Education and research on development of measuring method of thermal fluid including reactivity and investigation of real phenomena and its application
Professor	Shuhei Takahashi	Reacting Thermo-fluid Engineering	Education and research on thermo-fluid phenomena with chemical reaction
Professor	Tsuguhiko Nakagawa	Energy Systems Engineering	Education and research on innovative processes and energy systems integrated with mutual energy conversion of chemical energy, heat and electricity
Professor	Yuichi Matsumura	Vibration Engineering	Education and research on the elucidation and its application of the occurrence mechanism of acoustics and vibration
Associate Professor	Satoshi Kikuchi	Fluid Engineering	Education and research of investigations and control of fluid flow phenomena
Associate Professor	Nobusuke Kobayashi	Energy conversion process	Study and Education on High Efficiency Energy Conversion Process with Solid-Gas Reaction
Associate Professor	Yasushi Sobajima	Energy-Conversion Optoelectronic Engineering	Study on new process control technologies for high grade photovoltaic device preparation
Associate Professor	Satoshi Nishida	Light Energy Conversion Process Engineering	Analysis of chemical reactions and gas flow in plasma enhanced CVD process
Associate Professor	Kohei Furuya	Acoustics and Vibration engineering	Education and research on development of numerical method to predict vibration and acoustic phenomenon and its application.
Associate Professor	Norimitsu Yoshida	Energy-Conversion Optoelectronic Engineering	Education and rearch on optical and electronic properties of semiconductors for thin film solar cells
Associate Professor	Jun Yoshino	Natural Energy	Estimation, prediction, and control on natural energy and environment based on high-resolution meteorological and oceanographic models
Assistant Professor	Kazuhiro Kumabe	Integrated energy-recirculation system engineering	Education and research on developments of highly-efficient and environmentally-friendly energy system and reduction method of environmental pollutant

電気エネルギー領域
Electrical and Energy System Engineering Division

役職 Title	教員名 Name	教育・研究分野 Educational and Research Area	
		名称 Specialization	内容 Theme
Professor	Hiroki Ishikawa	Power Electronics	Reseach and education on power conversion and the related applications.
Professor	Takashi Itoh	Electronic Materials Engineering	Study and education on evaluation of fundamental properties of electronic materials mainly semiconductors and their application to devices such as solar cells
Professor	Daohong Wang	Electric energy engineering	Lightning physics, Lightning protection, Photovoltaic power
Professor	Hiroshi Kimura	Information and Communication Technology	Education and research on microwave remote sensing including processing and analysis of radar signals, scattering of EM wave and measurement by EM wave technique
Professor	Tetsuji Kume	Solid State Physics and Engineering in High Pressure	Education and Investigation on Optical Properties in Functional Materials of Condensed Matter under High Pressure
Professor	Shigeo Sasaki	High Pressure Materials Science	Education and study of the exploration of novel phenomena for molecular solids and gas hydrate compounds by using high pressure generation technique and the estimation of their physical and electronic properties
Professor	Nobuyuki Takagi	High voltage engineering	High voltage testing and measurement, Lightning overvoltage, Protection against lightning
Professor	Makoto Nakamura	Integrated Circuit Engineering	Studies on optical-electrical interface circuits for optical communication systems
Professor	Chuzo Ninagawa	Smart Grid	Smart grid, Fast automated demand response, Virtual power plant, Building facilities, Machine Learning
Professor	Hiroyuki Fujiwara	Semiconductor Device Engineering	Fabrication of solar cells based on new materials and construction of solar cell device simulators
Professor	Hiroki Yoshida	Energy Generation and System	Laser engineering, fusion related quantum optics, renewable energy generation and system
Associate Professor	Hidehiro Ohwa	Dielectric Engineering	Education and research on basic characteristics and applications of electronic materials centering on dielectrics
Associate Professor	Yasuhiro Takahashi	VLSI design	Low-voltage and Low-power digital/analog design of cryptographic VLSI using adiabatic logic, and front-end ICs for optical communication
Associate Professor	Hirotaka Takano	Power Engineering	Energy Management Technologies for Electric Power Suppliers and Consumers
Associate Professor	Kazuyasu Hamada	System Engineering	System Engineering which investigates common principle among various kinds of real physical systems such as networked or computer controlled systems.
Associate Professor	Koji Hayashi	Semiconductor Electronics	Study on novel opto-electronic functional materials; Amorphous semiconductor materials, Nano crystals
Associate Professor	Shintaro Hisatake	Terahertz Photonics	Generation, manipulation, and detection of millimeter-wave and terahertz wave based on photonics technology
Associate Professor	Kyyoul YUN	Soft magnetic material science	Dissimilar metal bonding and soft magnetic material properties measurement & applications
Assistant Professor	Ting Wu	Atmospheric Electricity	Lightning physics, lightning observation technology, lightning protection technology
Assistant Professor	Daisuke Ito	Electrical engineering	Circuit designe and functional systems for high-speed optical communications
Assistant Professor	Fumitaka Ohashi	Semiconductor engineering	Education and research on characterizations of fundamental properties of novel materials and reliability of photovoltaic modules
Assistant Professor	Tatsuo Suzuki	System Theory	Mathematical System Theory which investigates common principles among various kinds of systems including signal/image processing or aerospace systems.