



Professor Profiles 2023

School of Materials and Chemical Technology

Tokyo Institute of Technology

Creating Future Society with the Power of Materials and Chemistry

Tokyo Tech boasts a world-class research team in the fields of materials and applied chemistry, and has achieved outstanding results to date. The School of Materials and Chemical Technology contributes to creating future society through developing novel materials useful in solving society's problems related to the environment, resources, energy, and health and medicine, as well as improving the quality of our lives. In particular, we aim to realize a carbon-neutral society, which is important for the Sustainable Development Goals (SDGs). The School is composed of the Department of Materials Science and Engineering, which focuses on studying solid materials, and the Department of Chemical Science and Engineering, which focuses on molecules and chemistry, and covers a wide range of subjects from atoms and electrons to devices and plants. We also promote innovative material development integrated with information science. Through such cutting-edge research, we foster global researchers and engineers who can lead the development of materials in the future.



Message from the Dean

The School of Materials Science and Engineering, as its name suggests, focuses on "materials" in its research and education. The difference in the way we approach materials is a distinctive feature of our two departments. In the Department of Materials Science and Engineering, we make sure the materials we create have optimized required properties. In the Department of Chemical Science and Engineering, materials are created through chemical reactions and processes that take advantage of the characteristics of raw materials. Both fields cover aspects such as micro to macro scales, and atoms and electrons to devices and plants. Recently, many research projects integrating information science are also being conducted. Through the cutting-edge research at our school, we are fostering researchers and engineers who can lead in the development of materials in the future. We live surrounded by materials and therefore must live in harmony with them. As they vary widely — some beneficial, some harmless, and some harmful —, we must have a firm grasp of their characteristics when creating materials and handle them with a solid sense of ethics. Based on this attitude, we are "Creating Future Society with the Power of Materials and Chemistry" — this is the concept of the School of Materials Science and Engineering.

Hidetoshi SEKIGUCHI

Department of Materials Science and Engineering

Vision

Create new materials and engineering technologies that contribute to industrial development and cultivate individuals who make a difference to society


Materials. They play an important role in forming, molding, and advancing societies. They are responsible for the considerable transformations in our daily lives. After all, they are what give shape to science and technology. At the Department of Materials Science and Engineering, we work to continuously progress the field of materials science. Our students are trained to use the advanced and specialized knowledge of materials they acquire to carry out original and challenging research and development. They learn to find creative solutions to materials-related problems on their own, and furthermore, to conceive of ways to implement these solutions in the real world. The curriculum is designed to allow students to acquire a broad range of fundamental knowledge in materials science, from metallic materials and organic materials to inorganic materials. Through our courses, students also gain the knowledge and develop the creativity necessary to bring new, innovative industrial materials into existence. Our students will become the leading scientists and engineers in the field of materials science that are sought by the industrial world.


Message from the Department Chair


Materials science is the oldest and strongest field of study at Tokyo Institute of Technology. To uphold this long-standing reputation, we strive to always be at the cutting edge of the field in terms of research and education. This department includes all areas of materials science; metallurgy, organic and polymeric materials, and inorganic materials. Students are presented with opportunities not only to comprehensively learn fundamentals, but also to cultivate their creativity and originality to develop new materials. Our team of faculty and staff members serve as helpful guides on the path towards advanced skills and knowledge. Welcome to the innovative field of materials science and engineering for sustainable societies and a sustainable world.


Materials Science and Engineering


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	Yasutaka Anraku
	Associate Professor
	anraku.y.aa●m.titech.ac.jp
	Campus Ookayama
Major	Materials Science and Engineering
Research Field	Biomaterials / Drug delivery system / Inorganic-organic hybrid materials
Lab URL	http://www.bio.ceram.titech.ac.jp/english/index.html
Lab Movie	

	Shigeo Asai
	Associate Professor
	asai.s.aa●m.titech.ac.jp
	Campus Ookayama
Major	Materials Science and Engineering
Research Field	Structure and properties of polymers and polymer composites
Lab URL	http://www.op.titech.ac.jp/lab/asai/index.html
Lab Movie	https://www.youtube.com/watch?v=2A4lob1hoGA


	Masaki Azuma
	Professor
	azuma.m.ab●m.titech.ac.jp
	Campus Suzukakedai
Major	Materials Science and Engineering
Research Field	Solid state chemistry / Transition metal oxides / Precise structural analysis / Functional materials
Lab URL	https://www.msl.titech.ac.jp/~azumalab/English.html
Lab Movie	https://www.youtube.com/watch?v=nSgJcUZDmiA

	Tso-Fu Mark Chang
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	Campus Suzukakedai
Major	Human Centered Science and Biomedical Engineering / Materials Science and Engineering
Research Field	Electrodeposition / Chemical Sensors / Photocatalyst / Nanostructured Heterogeneous Materials
Lab URL	http://www.ames.pi.titech.ac.jp/english/
Lab Movie	https://www.youtube.com/watch?v=UX2KheE6uZU

	Cross Jeffrey Scott
	Professor
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	Campus Ookayama
Major	Materials Science and Engineering
Research Field	Bio / Energy Policy / AI in Education / Waste Transformation
Lab URL	https://www.clab-tokyotech.org/
Lab Movie	


	Toshiyuki Fujii
	Professor
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	Campus Ookayama
Major	Materials Science and Engineering
Research Field	Microstructure in metals / Mechanical properties of materials / High conductivity and high strength copper alloys / Fatigue of metals
Lab URL	http://kamonohashi.iem.titech.ac.jp/fujii/english/
Lab Movie	https://www.youtube.com/watch?v=bYknugqC56k


	Hiroshi Funakubo
	Professor
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	Campus Suzukakedai
Major	Materials Science and Engineering
Research Field	Functional inorganic films / Ferroelectric materials / CVD / Inorganic
Lab URL	https://f-lab.iem.titech.ac.jp/homeen/
Lab Movie	https://www.youtube.com/watch?v=8EWiAMAQJuc


	Yoshihiro Gohda
	Associate Professor
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	Campus Suzukakedai
Major	Materials Science and Engineering
Research Field	Condensed matter theory / Computational materials science / Magnetic metals / Nano-interfaces
Lab URL	http://www.cms.materia.titech.ac.jp/index_en.html
Lab Movie	https://www.youtube.com/watch?v=6UriR2LLhS0


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	Michikazu Hara
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	Campus Suzukakedai
Major	Materials Science and Engineering / Energy Science and Engineering
Research Field	Catalyst / Chemical reaction / Inorganic / Heterogeneous catalysis
Lab URL	http://www.msl.titech.ac.jp/~hara/index-e.html
Lab Movie	https://www.youtube.com/watch?v=97T8O8BQbeQ

	Teruaki Hayakawa
	Professor
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	Campus Ookayama
Major	Materials Science and Engineering
Research Field	Block copolymers / Self-assembly / Soft materials / Nanofabrication
Lab URL	http://www.hayakawa.op.titech.ac.jp/eng/index_en.html
Lab Movie	https://www.youtube.com/watch?v=oZ6UDW7cK8M

	Yuhei Hayamizu
	Associate Professor
	hayamizu.y.aa●m.titech.ac.jp
	Campus Ookayama
Major	Materials Science and Engineering / Human Centered Science and Biomedical Engineering
Research Field	Bioelectronics / Bio-Nano Interface / Nanomaterials / Biomaterials
Lab URL	http://hayamizu.op.titech.ac.jp/index.html
Lab Movie	https://www.youtube.com/watch?v=sc9DisXtrMk

	Miyuki Hayashi
	Professor
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	Campus Ookayama
Major	Energy Science and Engineering / Materials Science and Engineering
Research Field	Physical Chemistry of Materials / High Temperature Processes / Resources and energy
Lab URL	http://www.susalab.mtl.titech.ac.jp/english/
Lab Movie	https://www.youtube.com/watch?v=C2otekQSyFo

	Tomohiro Hayashi
	Associate Professor
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	Campus Suzukakedai
Major	Human Centered Science and Biomedical Engineering / Materials Science and Engineering
Research Field	Biointerfaces / Surface & interface science / Scanning probe microscopy / Nanophotonics
Lab URL	http://lab.spm.jp/
Lab Movie	https://www.youtube.com/watch?v=0gbyL6UWewY


	Hidenori Hiramatsu
	Professor
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	Campus Suzukakedai
Major	Materials Science and Engineering
Research Field	Thin film growth / Optoelectronic properties / Superconductivity / Optoelectronic devices
Lab URL	https://www.msl.titech.ac.jp/~hiramatsu/#5
Lab Movie	https://www.youtube.com/watch?v=AhQ9dp8BV8E


	Takuya Hoshina
	Associate Professor
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	Campus Ookayama
Major	Materials Science and Engineering
Research Field	Dielectric and ferroelectric material / Electroceramics / Phonon analysis
Lab URL	http://nanophononics.ceram.titech.ac.jp/
Lab Movie	https://www.youtube.com/watch?v=QKz621HAYks


	Hideki Hosoda
	Professor
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	Campus Suzukakedai
Major	Materials Science and Engineering / Energy Science and Engineering / Human Centered Science and Biomedical Engineering
Research Field	Materials science and engineering / Metallurgy / Functional materials / Energy and biomedical applications
Lab URL	http://www.mater.pi.titech.ac.jp/
Lab Movie	https://www.youtube.com/watch?v=22eS5fwjLug


Materials Science and Engineering


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	Toshiyuki Ikoma
	Professor
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	Campus Ookayama
Major	Human Centered Science and Biomedical Engineering / Materials Science and Engineering
Research Field	Nanomedicine / Biosensing / Regenerative medicine / Inorganic material
Lab URL	http://www.bio.ceram.titech.ac.jp/english/index.html
Lab Movie	https://www.youtube.com/watch?v=Dx8seFFY_KU


	Tomonari Inamura
	Professor
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	Campus Suzukakedai
Major	Materials Science and Engineering / Energy Science and Engineering
Research Field	Phase transformation in metals / Crystallography / Metallography / Shape memory alloy
Lab URL	http://www.mrst.first.iir.titech.ac.jp/inamura_tit/english/
Lab Movie	https://www.youtube.com/watch?v=TYo-Tkr-V4


	Ken Ishikawa
	Associate Professor
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	Campus Ookayama
Major	Materials Science and Engineering / Energy Science and Engineering
Research Field	Organic solar cells / Organic transistors / Liquid crystals / Structural color materials
Lab URL	http://www.op.titech.ac.jp/lab/Take-Ishi/
Lab Movie	

	Toshihiro Isobe
	Associate Professor
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	Campus Ookayama
Major	Materials Science and Engineering
Research Field	Inorganic materials / Environment metal material / Ceramics processing / Interface and colloid science
Lab URL	http://www.rmat.ceram.titech.ac.jp/index_e.html
Lab Movie	https://www.youtube.com/watch?v=hcBCUDF4ySU

	Seiichiro Izawa
	Associate Professor
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	Campus Suzukakedai
Major	Materials Science and Engineering
Research Field	Organic optoelectronic device / Organic solar cell / Organic light-emitting diode / Organic semiconductor material
Lab URL	https://majima-tokyotech.material.jp/top/en/
Lab Movie	

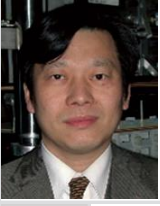
	Keigo Kamata
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	Campus Suzukakedai
Major	Materials Science and Engineering / Energy Science and Engineering
Research Field	Catalyst / Chemical reaction / Inorganic / Heterogeneous catalysis
Lab URL	https://www.msl.titech.ac.jp/~kamata/en/index.html
Lab Movie	https://www.youtube.com/watch?v=97T8O8BQbeQ


	Toshio Kamiya
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	Campus Suzukakedai
Major	Materials Science and Engineering
Research Field	Materials science / Semiconductor devices / Simulation / Electronic structure and carrier transport
Lab URL	http://www.msl.titech.ac.jp/~tkamiya/index-e.html
Lab Movie	https://www.youtube.com/watch?v=947d_GTfi9o


	Takayoshi Katase
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	Campus Suzukakedai
Major	Materials Science and Engineering
Research Field	Oxide electronics / Energy device / Energy harvesting / Thin film
Lab URL	http://www.msl.titech.ac.jp/~tkamiya/index-e.html
Lab Movie	https://www.youtube.com/watch?v=947d_GTfi9o

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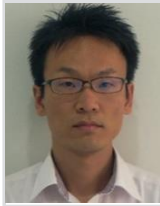
	Hitoshi Kawaji
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	Campus Suzukakedai
Major	Materials Science and Engineering
Research Field	Inorganic / Solid state physics / Functional materials / Thermal properties
Lab URL	http://www.msl.titech.ac.jp/~kawaji/
Lab Movie	https://www.youtube.com/watch?v=AA273xsq0Gs


	Kenichi Kawamura
	Associate Professor
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	Campus Ookayama
Major	Materials Science and Engineering
Research Field	Solid chemistry / High temperature oxidation of metals / Electrochemistry in solid
Lab URL	http://www.mkg.mtl.titech.ac.jp/index-e.html
Lab Movie	https://www.youtube.com/watch?v=9jig8fSqHAA

	Yoshisato Kimura
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	Campus Suzukakedai
Major	Energy Science and Engineering / Materials Science and Engineering
Research Field	Thermoelectric materials / Heat resistant alloys / Crystal structure and microstructure control / Metallurgy
Lab URL	http://j3www.materia.titech.ac.jp/mishima-kimura/index
Lab Movie	https://www.youtube.com/watch?v=GSVfSBytP44


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	Campus Ookayama
Major	Materials Science and Engineering
Research Field	Glass material / Applied optics
Lab URL	http://garaken.com/
Lab Movie	


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	Campus Suzukakedai
Major	Human Centered Science and Biomedical Engineering / Materials Science and Engineering
Research Field	Magnetic materials and devices / Biomaterials and biodevices / Nanomaterials and nanodevices
Lab URL	http://www.kitamoto.iem.titech.ac.jp
Lab Movie	https://www.youtube.com/watch?v=nzEZEns-XsA


	Masaaki Kitano
	Professor
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	Campus Suzukakedai
Major	Materials Science and Engineering
Research Field	Catalysis / Synthesis of inorganic material / Ammonia synthesis / Acid and base catalyst
Lab URL	https://www.mces.titech.ac.jp/authors/kitano/index.html
Lab Movie	https://www.youtube.com/watch?v=dOgm1EMh9UI


	Equo Kobayashi
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	Campus Ookayama
Major	Materials Science and Engineering / Human Centered Science and Biomedical Engineering
Research Field	Non-ferrous metals / Biomedical materials / Functional materials / Standardization of medical devices
Lab URL	http://www.satokobayashi.mtl.titech.ac.jp/english/
Lab Movie	https://www.youtube.com/watch?v=K1ae3RJ2SXs


	Satoru Kobayashi
	Associate Professor
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	Campus Ookayama
Major	Materials Science and Engineering
Research Field	Heat resistant alloys/Steels / Microstructure control / Intermetallic alloys / Ferrous materials
Lab URL	http://steel.mtl.titech.ac.jp/en/index.html
Lab Movie	https://www.youtube.com/watch?v=zsZxD7o3Np8


	Yoshinao Kobayashi
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	kobayashi.y.at●m.titech.ac.jp
	Campus Ookayama
Major	Nuclear Engineering / Materials Science and Engineering
Research Field	Safety metallurgy for nuclear reactor / Metal smelting and refining / Metal recycle / Iron and steel making
Lab URL	http://www.lane.iir.titech.ac.jp/~ykobayashi/en/
Lab Movie	https://www.youtube.com/watch?v=eQQcHmpxgGg


	Xiaowen Lei
	Associate Professor
	lei.x.ac●m.titech.ac.jp
	Campus Ookayama
Major	Materials Science and Engineering
Research Field	Computational mechanics / Material mechanics / Lattice defect / Function design of nanoscale systems
Lab URL	http://kamonohashi.iem.titech.ac.jp/fujii/english/
Lab Movie	


	Yutaka Majima
	Professor
	majima.y.aa●m.titech.ac.jp
	Campus Suzukakedai
Major	Materials Science and Engineering
Research Field	Single nanoscale electronic materials / Ultrafast transistors / Gas sensors / DNA sequencers
Lab URL	https://majima-tokyotech.material.jp/top/en/
Lab Movie	https://www.youtube.com/watch?v=Y7HvezphwJc

	Akifumi Matsuda
	Associate Professor
	matsuda.a.aa●m.titech.ac.jp
	Campus Suzukakedai
Major	Energy Science and Engineering / Materials Science and Engineering
Research Field	Electronic and energy materials / Inorganic thin films and nanomaterials / Atomic-scale material processing / New materials development
Lab URL	http://www.yoshimoto.iem.titech.ac.jp/english.html
Lab Movie	https://www.youtube.com/watch?v=a72R04GQaLQ

	Hidetoshi Matsumoto
	Professor
	matsumoto.h.ac●m.titech.ac.jp
	Campus Ookayama
Major	Energy Science and Engineering / Materials Science and Engineering
Research Field	Physical chemistry of organic materials / Nanofibers and nanomaterials / Polymer membranes and thin films / Energy conversion and storage
Lab URL	http://www.researcherid.com/rid/C-6863-2011
Lab Movie	https://www.youtube.com/watch?v=HldDHgeFL2o


	Nobuhiro Matsushita
	Professor
	matsushita.n.ab●m.titech.ac.jp
	Campus Ookayama
Major	Materials Science and Engineering
Research Field	Low environmental load processes / Functional ceramics / Sensor materials / Energy/Bio applications
Lab URL	http://intelligent-processes-tokyo.tech/?lang=en
Lab Movie	https://www.youtube.com/watch?v=vJFcjzEKKo


	Sachiko Matsushita
	Associate Professor
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	Campus Suzukakedai
Major	Materials Science and Engineering / Energy Science and Engineering
Research Field	Energy / Thermoelectric generator / Colloid / Inorganic material
Lab URL	http://sachiko.mat.mac.titech.ac.jp/
Lab Movie	https://www.youtube.com/watch?v=hcBCUDF4ySU

	Tsuyoshi Michinobu
	Professor
	michinobu.t.aa●m.titech.ac.jp
	Campus Ookayama
Major	Materials Science and Engineering
Research Field	Organic material / Polymer synthesis / Semiconducting polymer / Organic electronics
Lab URL	http://www.op.titech.ac.jp/lab/michinobu/en/index.html
Lab Movie	https://www.youtube.com/watch?v=it5b2it_pPw


Materials Science and Engineering


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	Masahiro Miyauchi
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Major	Energy Science and Engineering / Materials Science and Engineering
Research Field	Photo-energy conversion materials / Photocatalysis / Solar cell / Solution based synthesis of ceramics
Lab URL	http://www.eim.ceram.titech.ac.jp/HomeE.html
Lab Movie	https://www.youtube.com/watch?v=nNaOQ95s99A


	Junko Morikawa
	Professor
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	Campus Ookayama
Major	Human Centered Science and Biomedical Engineering / Materials Science and Engineering
Research Field	Thermal properties of organic materials / Temperature wave analysis / Visual thermal analysis by IR camera / Polymer processing
Lab URL	http://www.morikawa.op.titech.ac.jp/english/
Lab Movie	https://www.youtube.com/watch?v=XpGQ1BX6ACE


	Shinji Muraishi
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	Campus Ookayama
Major	Materials Science and Engineering
Research Field	Light metals and alloys / Advanced casting process / Dissimilar metal joining / Fatigue and fracture
Lab URL	http://www.kumai.mtl.titech.ac.jp/english/
Lab Movie	https://www.youtube.com/watch?v=OxEcCmn3r0Q

	Yuta Nabae
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	Campus Ookayama
Major	Energy Science and Engineering / Materials Science and Engineering
Research Field	Catalysis / Synthesis of organic and polymeric materials / Fuel cells / Electrochemistry
Lab URL	http://www.hayakawa.op.titech.ac.jp/nabae/
Lab Movie	https://www.youtube.com/watch?v=C4DV8nH3gjQ

	Nobuo Nakada
	Professor
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	Campus Suzukakedai
Major	Materials Science and Engineering
Research Field	Metals and alloys / Iron and steel / Metallurgy / Mechanical property
Lab URL	http://kamonohashi.iem.titech.ac.jp/nakada/top.html
Lab Movie	https://www.youtube.com/watch?v=F2S6xsl0rvY

	Akira Nakajima
	Professor
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	Campus Ookayama
Major	Materials Science and Engineering
Research Field	Inorganic environmental materials / Surface wettability control / Ceramics processing / Inorganic
Lab URL	http://www.rmat.ceram.titech.ac.jp/index_e.html
Lab Movie	https://www.youtube.com/watch?v=hcBCUDF4ySU

	Kazutaka Nakamura
	Associate Professor
	nakamura.k.ai●m.titech.ac.jp
	Campus Suzukakedai
Major	Materials Science and Engineering
Research Field	Solid state physics with laser / Laser science / Ultrafast phenomena / Inorganic materials science
Lab URL	http://www.knlab.msl.titech.ac.jp/english/
Lab Movie	https://www.youtube.com/watch?v=No7QQq6LUuY


	Kan Nakatsuji
	Associate Professor
	nakatsuji.k.aa●m.titech.ac.jp
	Campus Suzukakedai
Major	Materials Science and Engineering
Research Field	Surface and interface physics / Physics at metal surfaces / Nano-structures / Photoelectron spectroscopy
Lab URL	http://nakatsuji.mat.mac.titech.ac.jp/en/
Lab Movie	https://www.youtube.com/watch?v=uGhnP6o7dhE

Materials Science and Engineering


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	Fumiyasu Oba
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	Campus Suzukakedai
Major	Materials Science and Engineering
Research Field	Computational materials science / Materials informatics / Electronic materials / Energy materials
Lab URL	https://www.cms-mi.msl.titech.ac.jp/
Lab Movie	https://www.youtube.com/watch?v=kxzN4KoXDuc

	Susumu Onaka
	Professor
	onaka.s.aa●m.titech.ac.jp
	Campus Suzukakedai
Major	Materials Science and Engineering
Research Field	Metals and alloys / Deformation and fracture / Strength / Materials science
Lab URL	http://kamonohashi.iem.titech.ac.jp/onaka_folder/onaka/index_E.html
Lab Movie	


	Yukio Ouchi
	Professor
	ouchi.y.ab●m.titech.ac.jp
	Campus Ookayama
Major	Materials Science and Engineering
Research Field	Physical chemistry / Spectroscopy for materials science and engineering / Ionic liquids / Organic
Lab URL	http://www.op.titech.ac.jp/lab/ouchi/eng/index.html
Lab Movie	

	Toshiaki Ougizawa
	Professor
	ougizawa.t.aa●m.titech.ac.jp
	Campus Ookayama
Major	Materials Science and Engineering
Research Field	Physical properties of organic materials / Polymer alloys / Composites / Interfacial adhesion
Lab URL	https://ougizawalabhp.wixsite.com/website/english-page
Lab Movie	https://www.youtube.com/watch?v=-TwLRs4dWDU

	Yoshimitsu Sagara
	Associate Professor
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	Campus Ookayama
Major	Materials Science and Engineering
Research Field	Stimuli-responsive luminescent material / Mechanophore / Supramolecular material / Molecular assembly
Lab URL	https://sagara.mat.mac.titech.ac.jp/homeen/
Lab Movie	https://www.youtube.com/watch?v=ptbiF7wHHDk


	Takumi Sannomiya
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	Campus Suzukakedai
Major	Materials Science and Engineering / Energy Science and Engineering / Human Centered Science and Biomedical Engineering
Research Field	Transmission electron microscopy / Nanooptical materials / Plasmonics / Biosensors
Lab URL	http://www.sannomiya.iem.titech.ac.jp/HomeEn.htm
Lab Movie	https://www.youtube.com/watch?v=-SZ500wZO7Js

	Takao Sasagawa
	Associate Professor
	sasagawa.t.aa●m.titech.ac.jp
	Campus Suzukakedai
Major	Materials Science and Engineering / Energy Science and Engineering
Research Field	Inorganic electronic material / Superconductivity / Spintronics / Novel nanomaterial
Lab URL	http://www.msl.titech.ac.jp/~sasagawa/index_e.html
Lab Movie	https://www.youtube.com/watch?v=DPKC_yWiJDo


	Hiroyo Segawa
	Specially Appointed Professor
	segawa.h.aa●m.titech.ac.jp
	Campus Ookayama
Major	Materials Science and Engineering
Research Field	Glass / Organic-inorganic hybrid materials / Anodization
Lab URL	https://samurai.nims.go.jp/profiles/segawa_hiroyo?locale=en
Lab Movie	


Materials Science and Engineering


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	Ji Shi
	Professor
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	Campus Ookayama
Major	Energy Science and Engineering / Materials Science and Engineering
Research Field	Metal physics / Thin film technology / Magnetic thin films / Nanohetero structures
Lab URL	http://www.nakamura-shi.mtl.titech.ac.jp/english/
Lab Movie	https://www.youtube.com/watch?v=nV8rQ12X5QI


	Slavakis Konstantino
	Professor
	slavakis.k.aa●m.titech.ac.jp
	Campus Suzukakedai
Major	Human Centered Science and Biomedical Engineering
Research Field	Signal processing / Machine learning / Biomedical imaging / Reinforcement learning
Lab URL	http://www.slavakislab.ict.e.titech.ac.jp/
Lab Movie	


	Masato Sone
	Professor
	sone.m.aa●m.titech.ac.jp
	Campus Suzukakedai
Major	Human Centered Science and Biomedical Engineering / Energy Science and Engineering / Materials Science and Engineering
Research Field	Medical device materials / Electroplating / Electrochemistry / Material evaluation
Lab URL	http://www.ames.pi.titech.ac.jp/english/
Lab Movie	https://www.youtube.com/watch?v=UX2KheE6uZU


	Eiji Tada
	Professor
	tada.e.aa●m.titech.ac.jp
	Campus Ookayama
Major	Materials Science and Engineering
Research Field	Electrochemistry / Corrosion science / Surface treatment / Metallurgy
Lab URL	http://www.elechemcorr.mtl.titech.ac.jp/index-e.html
Lab Movie	https://www.youtube.com/watch?v=yGKuHFXf8oE


	Masaki Tahara
	Associate Professor
	tahara.m.aa●m.titech.ac.jp
	Campus Suzukakedai
Major	Materials Science and Engineering / Human Centered Science and Biomedical Engineering
Research Field	Metallurgy / Shape memory alloys / Titanium alloys / Martensitic transformation
Lab URL	http://www.mater.pi.titech.ac.jp/index.html
Lab Movie	https://www.youtube.com/watch?v=22eS5fwjLug


	Yoshihiro Terada
	Associate Professor
	terada.y.ab●m.titech.ac.jp
	Campus Suzukakedai
Major	Materials Science and Engineering
Research Field	Advanced heat-resistant magnesium alloys / Wrought Ni-based superalloys / High-temperature strength / The theory of internal stress
Lab URL	https://researchmap.jp/read0172187?lang=en
Lab Movie	https://www.youtube.com/watch?v=3BC9zDvvbNs

	Takeharu Tsuge
	Associate Professor
	tsuge.t.aa●m.titech.ac.jp
	Campus Suzukakedai
Major	Human Centered Science and Biomedical Engineering / Materials Science and Engineering
Research Field	Bio-based plastic / Biodegradable polymer / Bioprocess / Chemolithotrophic bacteria
Lab URL	http://www.tsuge.iem.titech.ac.jp/
Lab Movie	https://www.youtube.com/watch?v=4ujhSHukIPE


	Mitsutoshi Ueda
	Associate Professor
	ueda.m.ac●m.titech.ac.jp
	Campus Ookayama
Major	Energy Science and Engineering / Materials Science and Engineering
Research Field	High temperature oxidation of metallic materials / Physical chemistry at high temperature
Lab URL	http://www.mkg.mtl.titech.ac.jp/mem-e.html
Lab Movie	https://www.youtube.com/watch?v=fE9T09ZwhiY


	Martin Vacha
	Professor
	vacha.m.aa●m.titech.ac.jp
	Campus Ookayama
Major	Materials Science and Engineering / Energy Science and Engineering
Research Field	Optical properties of organic materials / Photophysics of organic molecules / Single-molecule spectroscopy
Lab URL	http://www.op.titech.ac.jp/lab/vacha/index-e.html
Lab Movie	https://www.youtube.com/watch?v=l781vIDoJbs

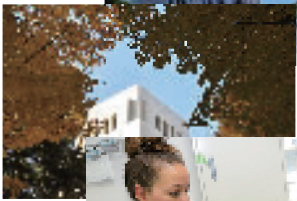
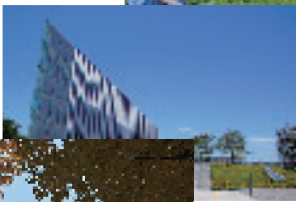
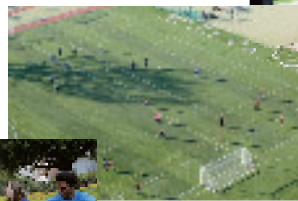
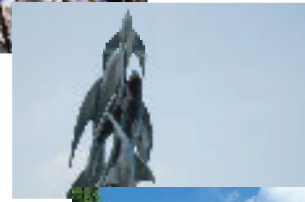
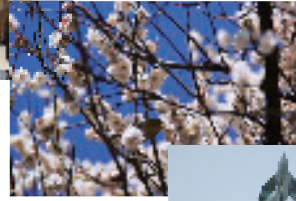
	Takafumi Yamamoto
	Associate Professor
	yamamoto.t.br●m.titech.ac.jp
	Campus Suzukakedai
Major	Materials Science and Engineering
Research Field	New compounds / Functional ceramics / Topochemical reaction / Crystal structure
Lab URL	https://sites.google.com/view/takafumis-homepage/english-page
Lab Movie	https://www.youtube.com/watch?v=nSgJcUZDmiA

	Tetsuji Yano
	Professor
	yano.t.aa●m.titech.ac.jp
	Campus Ookayama
Major	Materials Science and Engineering
Research Field	Inorganic glass materials / Photonic materials / High-temperature chemistry / Ion dynamics in materials
Lab URL	http://garaken.com/
Lab Movie	https://www.youtube.com/watch?v=XUHjEzF2yPQ

	Hiroko Yokota
	Professor
	yokota.h.ae●m.titech.ac.jp
	Campus Suzukakedai
Major	Materials Science and Engineering
Research Field	Nonlinear optics / Functional materials / Ferroelectrics / Condensed matter physics
Lab URL	https://researchmap.jp/hiroko_yokota
Lab Movie	

	Katsumi Yoshida
	Associate Professor
	yoshida.k.ai●m.titech.ac.jp
	Campus Ookayama
Major	Nuclear Engineering / Materials Science and Engineering
Research Field	Inorganic materials / Severe environment resistant materials / Materials for nuclear and fusion applications / Ceramic-based composites
Lab URL	http://www.zc.iir.titech.ac.jp/~k-yoshida/index_eng.html
Lab Movie	https://www.youtube.com/watch?v=sWsKGwblj_s

	Mamoru Yoshimoto
	Professor
	yoshimoto.m.aa●m.titech.ac.jp
	Campus Suzukakedai
Major	Materials Science and Engineering / Energy Science and Engineering
Research Field	Solar cells / Inorganic thermoelectric materials / Surface nano-functionalization / Superconducting/Magnetic materials
Lab URL	http://www.yoshimoto.iem.titech.ac.jp/english.html
Lab Movie	





Department of Chemical Science and Engineering


Vision


Creating a future with no bounds using expertise in chemistry


The study of chemistry is for clarifying the laws of material conversion, for synthesizing unknown compounds, and for clarifying the mechanisms of manifestations of physical properties. In the Department of Chemical Science and Engineering, our aim is to deeply understand the basic properties and the responsiveness of substances at an atomic and molecular level, and to study the most advanced chemical technology systems. In the curriculum, study and education goals are set in order to develop individuals who are capable of pioneer chemical technologies that are essential for sustaining a rich society. Our aim is to produce scientists, engineers, and researchers who can take responsibility for society and the environment in the 21st century, and expert professionals who open new industries and civilizations.

Message from the Department Chair

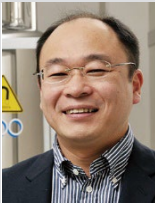
We live surrounded by a multitude of chemically processed materials, such as clothes, plastics, computers and mobile phones, medicine, and fuel. The goal of the Department of Chemical Science and Engineering is to deeply understand chemical phenomena in all their forms, from research on atomic and molecular interactions to studies on global dynamics. We endeavor to offer a leading-edge education to aspiring scientists and engineers who will build a better tomorrow.


	Shinji Ando
	Professor
	ando.s.aa●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering
Research Field	Polymer functional materials / Polymer spectroscopy / Polymers for optical application / Polymer inorganic hybrid materials
Lab URL	http://www.ando-cap.mac.titech.ac.jp/Eng/
Lab Movie	https://www.youtube.com/watch?v=dmZ_nTI16s


	Saiko Aoki
	Associate Professor
	aoki.s.aa●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering / Energy Science and Engineering
Research Field	Tribology / Lubricant chemistry / Surface modification / Surface chemistry
Lab URL	http://www.chemeng.titech.ac.jp/~aokilab/index.html
Lab Movie	https://www.youtube.com/watch?v=g-p9I9IVAv4


	Hajime Arai
	Professor
	arai.h.af●m.titech.ac.jp
	Campus Suzukakedai
Major	Energy Science and Engineering / Chemical Science and Engineering
Research Field	Electrochemistry / Material science / Energy storage device / Rechargeable battery
Lab URL	http://www.arai-cap.mac.titech.ac.jp/pages/top/index-en
Lab Movie	https://www.youtube.com/watch?v=KLahGezuqAo


	Tetsuo Fuchino
	Associate Professor
	fuchino.t.aa●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering
Research Field	Process Systems Engineering / Process Safety Engineering and Management
Lab URL	http://www.chemeng.titech.ac.jp/english/faculty/fuchino/profile.html
Lab Movie	https://www.youtube.com/watch?v=HXvbRxWsWRA


	Takanori Fukushima
	Professor
	fukushima.t.ac●m.titech.ac.jp
	Campus Suzukakedai
Major	Chemical Science and Engineering
Research Field	Organic electronic and optoelectronic materials / Functional polymer materials / Functional molecular assembly / Organic thin-film engineering
Lab URL	http://fuku.res.titech.ac.jp/english/
Lab Movie	https://www.youtube.com/watch?v=xLUPL1dkb88

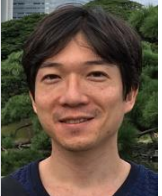
	Hidemine Furuya
	Associate Professor
	furuya.h.aa●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering
Research Field	Polymer structure / Polymer property / Molecular simulation
Lab URL	http://www.furuya-cap.mac.titech.ac.jp/en/
Lab Movie	https://www.youtube.com/watch?v=IKyGI4HQyWY


	Takuya Harada
	Associate Professor
	harada.t.an●m.titech.ac.jp
	Campus Ookayama
Major	Nuclear Engineering / Chemical Science and Engineering
Research Field	Inorganic materials / Chemical process engineering / CO2 capture & utilization / Low-carbon energy system
Lab URL	http://www.lane.iir.titech.ac.jp/~t_harada/engtop.html
Lab Movie	https://www.youtube.com/watch?v=eciVFs-aBvY

	Masaaki Hirayama
	Professor
	hirayama.m.aa●m.titech.ac.jp
	Campus Suzukakedai
Major	Energy Science and Engineering / Chemical Science and Engineering
Research Field	Solid state chemistry / Energy conversion materials / Lithium ion batteries / Design of electrochemical interface
Lab URL	http://www.hirayama-cap.mac.titech.ac.jp/en/
Lab Movie	https://www.youtube.com/watch?v=d9GyKv0kwM0

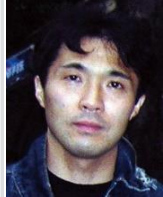
	Manabu Ihara
	Professor
	ihara.m.aa●m.titech.ac.jp
	Campus Ookayama
Major	Energy Science and Engineering / Chemical Science and Engineering
Research Field	Solid oxide fuel cells / Plasmonic solar cells / Direct carbon fuel cells / Design of energy system
Lab URL	http://www.chemeng.titech.ac.jp/~iharalab/index.html
Lab Movie	https://www.youtube.com/watch?v=4NQAolQr1vw


	Takane Imaoka
	Associate Professor
	imaoka.t.aa●m.titech.ac.jp
	Campus Suzukakedai
Major	Chemical Science and Engineering
Research Field	Physical chemistry / Coordination chemistry / Advanced material chemistry / Nanoparticle / Cluster science
Lab URL	http://www.res.titech.ac.jp/~inorg/yamamoto/e/
Lab Movie	https://www.youtube.com/watch?v=7DzgrbAU4q8


	Shinsuke Inagi
	Professor
	inagi.s.aa●m.titech.ac.jp
	Campus Suzukakedai
Major	Energy Science and Engineering / Chemical Science and Engineering
Research Field	Organic electrosynthesis / Functional polymer / Polymer synthesis / Electrochemical device
Lab URL	http://www.echem.titech.ac.jp/~inagi/e-index.html
Lab Movie	https://www.youtube.com/watch?v=fKV5QAnJ-wl


	Ryohei Ishige
	Associate Professor
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	Campus Ookayama
Major	Chemical Science and Engineering
Research Field	Polymer functional materials / Polymer inorganic hybrid materials / Liquid crystalline polymers / X-ray structure analysis
Lab URL	http://www.ando-cap.mac.titech.ac.jp/Eng/
Lab Movie	https://www.youtube.com/watch?v=dmZ_nTI16s


	Takashi Ishizone
	Professor
	ishizone.t.aa●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering
Research Field	Polymer synthesis / Organic chemistry
Lab URL	http://www.ishizone-cap.mac.titech.ac.jp/
Lab Movie	https://www.youtube.com/watch?v=gowHW4EBfAA


	Shigekazu Ito
	Associate Professor
	ito.s.ao●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering
Research Field	Functional organic radicals / Homogeneous gold catalysis / Quantum computer / Application of subatomic particle
Lab URL	http://www.sito-cap.mac.titech.ac.jp/index-e.html
Lab Movie	https://www.youtube.com/watch?v=I4DDTGguYkc


	Yukitaka Kato
	Professor
	kato.y.aa●m.titech.ac.jp
	Campus Ookayama
Major	Nuclear Engineering / Chemical Science and Engineering
Research Field	Energy storage and conversion / Carbon recycling energy system / Energy carrier / Nuclear energy system
Lab URL	http://www.zc.iir.titech.ac.jp/~yukitaka/en/
Lab Movie	https://www.youtube.com/watch?v=VVXV4lphz2I


	Gen-ichi Konishi
	Associate Professor
	konishi.g.aa●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering
Research Field	Polymer science / Photochemistry / Optical materials / Physiology
Lab URL	http://www.konishi-cap.mac.titech.ac.jp/en/
Lab Movie	https://www.youtube.com/watch?v=nB-GT_-bpQ


	Shoichi Kubo
	Associate Professor
	kubo.s.aa●m.titech.ac.jp
	Campus Suzukakedai
Major	Chemical Science and Engineering / Energy Science and Engineering
Research Field	Polymer / Hybrid material / Photonics / Liquid crystal
Lab URL	http://www.polymer.res.titech.ac.jp/english/
Lab Movie	https://www.youtube.com/watch?v=qocnm8rZMkA


	Masatoshi Kubouchi
	Professor
	kubouchi.m.aa●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering
Research Field	Materials for chemical equipment / Composites / Epoxy resin / Smart structure
Lab URL	http://www.chemeng.titech.ac.jp/~tklab/index-e.html
Lab Movie	https://www.youtube.com/watch?v=-AZ5p6KKe_w


	Hidenori Kuroki
	Associate Professor
	kuroki.h.aa●m.titech.ac.jp
	Campus Suzukakedai
Major	Chemical Science and Engineering
Research Field	Energy materials and devices / Chemical engineering / Electrocatalysts / Functionalized membranes
Lab URL	http://www.res.titech.ac.jp/~zairyosys/yamaguchilab/e/
Lab Movie	


	Sergei Manzhos
	Associate Professor
	manzhos.s.aa●m.titech.ac.jp
	Campus Ookayama
Major	Energy Science and Engineering / Chemical Science and Engineering
Research Field	Energy conversion and storage / Materials modeling / Machine learning / Computational method development
Lab URL	https://scholar.google.com.sg/citations?user=Kj3DwhUAAAAJ&hl=en
Lab Movie	https://www.youtube.com/watch?v=4NQAolQr1vw


	Hideyuki Matsumoto
	Associate Professor
	matsumoto.h.ae●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering / Energy Science and Engineering
Research Field	Process Systems Engineering / Process Intensification / Intelligent Systems
Lab URL	http://www.chemeng.titech.ac.jp/~cps/hm/index-en.html
Lab Movie	https://www.youtube.com/watch?v=QGNVZHt76s0


	Shinsuke Mori
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	mori.s.aa●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering / Energy Science and Engineering
Research Field	Plasma engineering / Plasma chemistry / Chemical engineering / Combustion engineering
Lab URL	http://www.chemeng.titech.ac.jp/~morilab/index-e.html
Lab Movie	https://www.youtube.com/watch?v=TQOZTSZShI4


	Tetsuro Murahashi
	Professor
	murahashi.t.aa●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering
Research Field	Organometallic chemistry / Coordination chemistry / Catalysis / Inorganic chemistry
Lab URL	http://www.tmurahashi-cap.mac.titech.ac.jp/english.html
Lab Movie	https://www.youtube.com/watch?v=wu0dde8380g


	Ken Nakajima
	Professor
	nakajima.k.aa●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering
Research Field	Polymer nanomechanics / Polymer physics / Rubber/elastomer materials
Lab URL	http://nanomech.polymer.titech.ac.jp/en/
Lab Movie	https://www.youtube.com/watch?v=zDEuyOyBamk

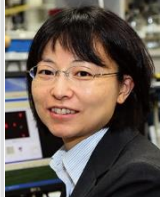
	Yumiko Nakajima
	Professor
	nakajima.y.ap●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering
Research Field	Organometallic chemistry / Coordination chemistry / Silicon chemistry / Catalytic chemistry
Lab URL	http://www.ynakajima-cap.mac.titech.ac.jp/
Lab Movie	

	Ryuhei Nakamura
	Professor
	nakamura.r.am●m.titech.ac.jp
	Campus Ookayama
Major	Earth-Life Science / Chemical Science and Engineering
Research Field	Origin of life / Electrochemistry / Chemical energy conversion / Biomimicry
Lab URL	https://sites.google.com/elsi.jp/ryuheinakamura
Lab Movie	https://www.youtube.com/watch?v=KE90Alry2UE


	Kazuko Nakazono
	Associate Professor
	nakazono.k.aa●m.titech.ac.jp
	Campus Suzukakedai
Major	Energy Science and Engineering / Chemical Science and Engineering
Research Field	Supramolecular chemistry / Polymer synthesis / Structural organic chemistry / Functional materials chemistry
Lab URL	http://nakazono-cap.mac.titech.ac.jp/home-en/
Lab Movie	https://www.youtube.com/watch?v=2fzkvEEhVbw


	Akira Ohtomo
	Professor
	ohtomo.a.aa●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering / Materials Science and Engineering
Research Field	Inorganic solid-state chemistry / Crystal engineering / Oxide electronic
Lab URL	http://www.ohtomo.apc.titech.ac.jp/?lang=en
Lab Movie	https://www.youtube.com/watch?v=-U0LUpCi3Uc


	Toshihiro Okamoto
	Professor
	okamoto.t.ba●m.titech.ac.jp
	Campus Suzukakedai
Major	Energy Science and Engineering / Chemical Science and Engineering
Research Field	Organic chemistry / Structural organic chemistry / Supramolecular chemistry / Organic semiconductors / Organic functional materials / Organic electronics
Lab URL	https://researchmap.jp/tokamo?lang=en
Lab Movie	


	Mina Okochi
	Professor
	okochi.m.aa●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering / Human Centered Science and Biomedical Engineering / Earth-Life Science
Research Field	Biotechnology / Peptide technology / Bioelectronics / Biomedical engineering
Lab URL	http://www.chemeng.titech.ac.jp/~lab-okochi/index.html
Lab Movie	https://www.youtube.com/watch?v=8CVEO-YMni0


	Shinichi Ookawara
	Specially Appointed Professor
	ookawara.s.aa●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering
Research Field	Microreactor / Microfluidic device / Fluid engineering / CFD
Lab URL	http://www.chemeng.titech.ac.jp/english/faculty/okawar
Lab Movie	https://www.youtube.com/watch?v=AVp5gH6tcCc


	Hideyuki Otsuka
	Professor
	otsuka.h.ab●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering
Research Field	Polymer chemistry / Polymer reactions / Dynamic covalent chemistry / Chemistry of soft materials
Lab URL	http://www.otsuka-cap.mac.titech.ac.jp/english.html
Lab Movie	https://www.youtube.com/watch?v=Mz5cnOq5jnw


	Reiko Saito
	Associate Professor
	saito.r.aa●m.titech.ac.jp
	Campus Ookayama
Major	Energy Science and Engineering / Chemical Science and Engineering
Research Field	Polymer synthesis / Polymer reaction / Composites / Nano materials
Lab URL	http://www.saito-cap.mac.titech.ac.jp/index-e.html
Lab Movie	https://www.youtube.com/watch?v=XWZXvqMa1og

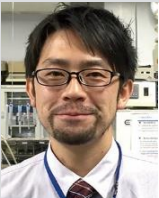
	Kotaro Satoh
	Professor
	satoh.k.ad●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering / Energy Science and Engineering
Research Field	Polymer Synthesis / Precision Polymerization / Living Polymerization / Bio-Based Polymers
Lab URL	http://www.satoh-cap.mac.titech.ac.jp/eng/e_index.html
Lab Movie	https://www.youtube.com/watch?v=z7orAyhcWYo


	Tomohisa Sawada
	Associate Professor
	sawada.t.ak●m.titech.ac.jp
	Campus Suzukakedai
Major	Chemical Science and Engineering
Research Field	Supramolecular chemistry / Peptide chemistry / Coordination chemistry / Topology
Lab URL	http://www.res.titech.ac.jp/~smart/nospace_e.html
Lab Movie	https://www.youtube.com/watch?v=n16J5iTzlgY


	Toshiki Sawada
	Associate Professor
	sawada.t.ab●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering
Research Field	Softmaterial / Biomacromolecule / Biotechnology / Bioorganic chemistry
Lab URL	http://www.serizawa-cap.mac.titech.ac.jp/index-e.html
Lab Movie	


	Hidetoshi Sekiguchi
	Professor
	sekiguchi.h.ab●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering / Energy Science and Engineering
Research Field	Plasma processing / Reaction engineering with high energy density field / Thermal energy engineering / Environmental chemical engineering
Lab URL	http://www.chemeng.titech.ac.jp/~labseki/index_j.php
Lab Movie	https://www.youtube.com/watch?v=1QXsNeyge-I


	Takeshi Serizawa
	Professor
	serizawa.t.ab●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering
Research Field	Biopolymer / Natural polymer / Polymer chemistry / Biotechnology
Lab URL	http://www.serizawa-cap.mac.titech.ac.jp/index-e.html
Lab Movie	https://www.youtube.com/watch?v=4_8r5Y60P3M

	Yusuke Shimoyama
	Professor
	shimoyama.y.aa●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering / Energy Science and Engineering
Research Field	Chemical engineering / Supercritical fluid / Nano-structured material / Material for separation
Lab URL	http://www.chemeng.titech.ac.jp/~yshimo/index.html
Lab Movie	https://www.youtube.com/watch?v=2nkWgHp8CCA


	Atsushi Shishido
	Professor
	shishido.a.aa●m.titech.ac.jp
	Campus Suzukakedai
Major	Chemical Science and Engineering / Energy Science and Engineering
Research Field	Polymer / Light / Liquid crystal / Material
Lab URL	http://www.polymer.res.titech.ac.jp/english/
Lab Movie	https://www.youtube.com/watch?v=qocnm8rZMkA


	Yoshiaki Shoji
	Associate Professor
	shoji.y.ac●m.titech.ac.jp
	Campus Suzukakedai
Major	Chemical Science and Engineering
Research Field	Organic synthesis / Organometallic chemistry / Functional molecular assembly / Organic thin-film engineering
Lab URL	http://fuku.res.titech.ac.jp/english/
Lab Movie	https://www.youtube.com/watch?v=xLUPL1dkb88

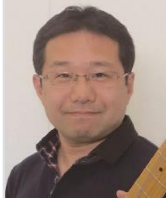
	Kota Suzuki
	Associate Professor
	suzuki.k.bf●m.titech.ac.jp
	Campus Suzukakedai
Major	Energy Science and Engineering / Chemical Science and Engineering
Research Field	Solid electrolytes / High capacity electrode materials / All-solid-state batteries / Interfacial reaction analysis
Lab URL	http://www.kannosuzuki.assb.iir.titech.ac.jp/english/
Lab Movie	https://www.youtube.com/watch?v=r94zVEsD2Jc


	Teruoki Tago
	Professor
	tago.t.aa●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering / Energy Science and Engineering
Research Field	Chemical engineering / Catalysis and reaction engineering / Petrochemical / Biomass
Lab URL	http://www.chemeng.titech.ac.jp/~tagolabo/english/index_e.html
Lab Movie	https://www.youtube.com/watch?v=R5mhVnDihC8

	Koichiro Takao
	Associate Professor
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	Campus Ookayama
Major	Nuclear Engineering / Chemical Science and Engineering
Research Field	Coordination chemistry of actinides / Ionic liquids / Nuclear fuel cycle / Treatment and disposal of radioactive wastes
Lab URL	http://www.zc.iir.titech.ac.jp/~ktakao/index_e.html
Lab Movie	https://www.youtube.com/watch?v=08-xy_W9XbA


	Toshiro Takao
	Associate Professor
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	Campus Ookayama
Major	Chemical Science and Engineering
Research Field	Organometallic chemistry / Coordination chemistry / Cluster chemistry / Chemistry of catalysis
Lab URL	http://www.ttakao-cap.mac.titech.ac.jp/index_e.html
Lab Movie	https://www.youtube.com/watch?v=acvt88aA4ol


	Hiroshi Tanaka
	Associate Professor
	tanaka.h.ae●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering
Research Field	Natural product chemistry / Synthetic organic chemistry / Chemical biology / Carbohydrate chemistry
Lab URL	http://www.htanaka-cap.mac.titech.ac.jp/
Lab Movie	https://www.youtube.com/watch?v=bQLUj9n8yQ8


	Katsunori Tanaka
	Professor
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	Campus Ookayama
Major	Human Centered Science and Biomedical Engineering / Chemical Science and Engineering
Research Field	In vivo synthetic chemistry / Natural products chemistry / Organic synthesis / Glycoscience
Lab URL	http://www.noritanaka-cap.mac.titech.ac.jp/
Lab Movie	https://www.youtube.com/watch?v=aLEfK5ypcJo


	Ken Tanaka
	Professor
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	Campus Ookayama
Major	Chemical Science and Engineering
Research Field	Organic synthesis / Organometallic chemistry / Asymmetric catalysis
Lab URL	http://www.ktanaka-cap.mac.titech.ac.jp/index-e.html
Lab Movie	https://www.youtube.com/watch?v=ubZILgnKb0


	Masayoshi Tanaka
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	Campus Suzukakedai
Major	Human Centered Science and Biomedical Engineering / Chemical Science and Engineering
Research Field	Microbiology / Nanotechnology / Proteomics / Genetic engineering
Lab URL	http://matanaka.cap.mac.titech.ac.jp/
Lab Movie	https://www.youtube.com/watch?v=RWZaeIT-WBk

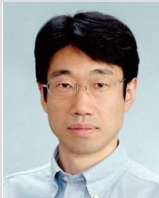
	Izumi Taniguchi
	Associate Professor
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	Campus Ookayama
Major	Chemical Science and Engineering / Energy Science and Engineering
Research Field	Nanostructure material processing / Energy storage device / Electrochemistry / Chemical engineering
Lab URL	http://www.chemeng.titech.ac.jp/~itlab/index.html
Lab Movie	https://www.youtube.com/watch?v=dxgNuKdhE_E

	Masatoshi Tokita
	Professor
	tokita.m.aa●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering
Research Field	Polymer structures / Polymer properties / Polymer liquid crystals / Soft materials
Lab URL	http://www.tokita-cap.mac.titech.ac.jp/
Lab Movie	https://www.youtube.com/watch?v=mywX2EkXP8g


	Ikuyoshi Tomita
	Professor
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	Campus Suzukakedai
Major	Chemical Science and Engineering / Energy Science and Engineering
Research Field	Polymer synthesis / Polymer reaction / Functional polymer / Organometallic chemistry
Lab URL	http://www.echem.titech.ac.jp/~tomita/tomita_e.html
Lab Movie	https://www.youtube.com/watch?v=berlupmgP6Q


	Sakae Toyoda
	Associate Professor
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	Campus Suzukakedai
Major	Chemical Science and Engineering / Energy Science and Engineering
Research Field	Atmospheric chemistry / Earth and environmental chemistry / Material cycle analysis / Analytical chemistry
Lab URL	http://silab.cap.mac.titech.ac.jp/index-e.html
Lab Movie	https://www.youtube.com/watch?v=v5C0IOe5-t4


	Takehiko Tsukahara
	Professor
	tsukahara.t.ab●m.titech.ac.jp
	Campus Ookayama
Major	Nuclear Engineering / Chemical Science and Engineering
Research Field	Nuclear fuel cycle / Nuclear waste management / Micro-nano analytical chemistry / Functional polymer chemistry
Lab URL	http://www.zc.iir.titech.ac.jp/~ptsuka/
Lab Movie	https://www.youtube.com/watch?v=zZ53EC_Gipl


	Hiroyuki Wada
	Associate Professor
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	Campus Suzukakedai
Major	Energy Science and Engineering / Chemical Science and Engineering / Human Centered Science and Biomedical
Research Field	Photofunctional chemistry / Nano material / Laser
Lab URL	http://www.wada.iem.titech.ac.jp/new/english/
Lab Movie	https://www.youtube.com/watch?v=Rx5mLPT0FpE


	Keiko Waki
	Associate Professor
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	Campus Suzukakedai
Major	Energy Science and Engineering / Chemical Science and Engineering
Research Field	Materials engineering / Chemical engineering / Electrochemistry / Battery
Lab URL	http://www.waki.mac.titech.ac.jp/index.html
Lab Movie	

	Keita Yamada
	Associate Professor
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	Campus Suzukakedai
Major	Chemical Science and Engineering / Energy Science and Engineering
Research Field	Isotopomics / Organic geochemistry / Environmental chemistry / Isotope geochemistry
Lab URL	http://silab.cap.mac.titech.ac.jp/index-e.html
Lab Movie	https://www.youtube.com/watch?v=Hx_IPj4N39Q


	Takeo Yamaguchi
	Professor
	yamaguchi.t.al●m.titech.ac.jp
	Campus Suzukakedai
Major	Chemical Science and Engineering / Energy Science and Engineering
Research Field	Chemical engineering / Systematic material design / Fuel cell / Bio-inspired materials
Lab URL	http://www.res.titech.ac.jp/~zairvosys/yamaguchilab/e/index.html
Lab Movie	https://www.youtube.com/watch?v=I34vR3NA3t8


	Kimihisa Yamamoto
	Professor
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	Campus Suzukakedai
Major	Chemical Science and Engineering
Research Field	Macromolecular chemistry / Inorganic chemistry / Nanoscience / nanotechnology / Atom hybridization
Lab URL	http://www.res.titech.ac.jp/~inorg/yamamoto/e/
Lab Movie	https://www.youtube.com/watch?v=7DzgrbAU4q8

	Ichiro Yamanaka
	Professor
	yamanaka.i.aa●m.titech.ac.jp
	Campus Ookayama
Major	Chemical Science and Engineering / Energy Science and Engineering
Research Field	Post-fuel cell / Energy conversion chemistry / Material conversion chemistry / Green chemistry
Lab URL	http://www.iyamanaka-cap.mac.titech.ac.jp/index.html
Lab Movie	https://www.youtube.com/watch?v=DQKnQhnH0HA

	Toshiyuki Yokoi
	Associate Professor
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	Campus Suzukakedai
Major	Chemical Science and Engineering
Research Field	Nanospace catalysis / Zeolites / Catalytic reaction chemistry / Green chemistry
Lab URL	http://www.nc.iir.titech.ac.jp/index_e.html
Lab Movie	https://www.youtube.com/watch?v=rva41QaxLHU

	Shiro Yoshikawa
	Associate Professor
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	Campus Ookayama
Major	Chemical Science and Engineering
Research Field	Transport phenomena / Membrane separation / Mixing operation
Lab URL	http://www.chemeng.titech.ac.jp/english/faculty/yoshikawa/profile.html
Lab Movie	https://www.youtube.com/watch?v=R1RQCrgl_gE

	Kohei Yoshimatsu
	Associate Professor
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	Campus Ookayama
Major	Chemical Science and Engineering
Research Field	Solid-state chemistry / Thin films / Electron spectroscopy / Computational materials science
Lab URL	https://sites.google.com/site/koheiyoshimatsuhpjp/topeng
Lab Movie	

	Michito Yoshizawa
	Professor
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	Campus Suzukakedai
Major	Chemical Science and Engineering
Research Field	Supramolecular chemistry / Nanospace chemistry / Material chemistry / Biosensor
Lab URL	http://www.res.titech.ac.jp/~smart/nospace_e.html
Lab Movie	https://www.youtube.com/watch?v=n16J5iTzlgY



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