



# **Professor Profiles 2024**

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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	<b>Yasutaka Anraku</b>
	Associate Professor
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	Campus Ookayama
Major	Materials Science and Engineering
Research Field	Biomaterials / Drug delivery system / Inorganic-organic hybrid materials
Lab URL	<a href="http://www.bio.ceram.titech.ac.jp/english/index.html">http://www.bio.ceram.titech.ac.jp/english/index.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=y0186U4LXlc">https://www.youtube.com/watch?v=y0186U4LXlc</a>


	<b>Shigeo Asai</b>
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Major	Materials Science and Engineering
Research Field	Structure and properties of polymers and polymer composites
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Lab Movie	<a href="https://www.youtube.com/watch?v=2A4lob1hoGA">https://www.youtube.com/watch?v=2A4lob1hoGA</a>


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

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Major	Human Centered Science and Biomedical Engineering / Materials Science and Engineering
Research Field	Electrodeposition / Chemical Sensors / Photocatalyst / Nanostructured Heterogeneous Materials
Lab URL	<a href="http://www.ames.pi.titech.ac.jp/english/">http://www.ames.pi.titech.ac.jp/english/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=UX2KheE6uZU">https://www.youtube.com/watch?v=UX2KheE6uZU</a>

	<b>Chun-Yi Chen</b>
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Research Field	Materials Electrochemistry / Functional Energy Conversion Materials / Hetero-Nanostructures
Lab URL	<a href="http://researchmap.jp/chunyichen">http://researchmap.jp/chunyichen</a>
Lab Movie	

	<b>Wan-Ting Chiu</b>
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Major	Materials Science and Engineering
Research Field	Physical metallurgy / Electrochemistry / Phase diagram / Composite materials / Interface
Lab URL	<a href="https://sites.google.com/view/q-research">https://sites.google.com/view/q-research</a>
Lab Movie	


	<b>Cross Jeffrey Scott</b>
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Research Field	Bio / Energy Policy / AI in Education / Waste Transformation
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Lab Movie	


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Lab Movie	<a href="https://www.youtube.com/watch?v=bYknugqC56k">https://www.youtube.com/watch?v=bYknugqC56k</a>

# Materials Science and Engineering


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Research Field	Functional inorganic films / Ferroelectric materials / CVD / Inorganic
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Lab Movie	<a href="https://www.youtube.com/watch?v=8EWiAMAQJuc">https://www.youtube.com/watch?v=8EWiAMAQJuc</a>


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Research Field	Condensed matter theory / Computational materials science / Magnetic metals / Nano-interfaces
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Lab Movie	<a href="https://www.youtube.com/watch?v=6UriR2LLhS0">https://www.youtube.com/watch?v=6UriR2LLhS0</a>


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Lab Movie	<a href="https://www.youtube.com/watch?v=97T8O8BQbeQ">https://www.youtube.com/watch?v=97T8O8BQbeQ</a>

	<b>Takashi Harumoto</b>
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Major	Materials Science and Engineering
Research Field	Metal physics / Nitrides / Hydrogen sensor / Reactive sputtering
Lab URL	<a href="http://www.shi-harumoto.mtl.titech.ac.jp/en/index.html">http://www.shi-harumoto.mtl.titech.ac.jp/en/index.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=nV8rQ12X5QI">https://www.youtube.com/watch?v=nV8rQ12X5QI</a>

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Research Field	Block copolymers / Self-assembly / Soft materials / Nanofabrication
Lab URL	<a href="http://www.hayakawa.op.titech.ac.jp/eng/index_en.html">http://www.hayakawa.op.titech.ac.jp/eng/index_en.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=oZ6UDW7cK8M">https://www.youtube.com/watch?v=oZ6UDW7cK8M</a>

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Lab URL	<a href="http://hayamizu.op.titech.ac.jp/index.html">http://hayamizu.op.titech.ac.jp/index.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=sc9DisXtrMk">https://www.youtube.com/watch?v=sc9DisXtrMk</a>

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Lab URL	<a href="http://www.susalab.mtl.titech.ac.jp/english/">http://www.susalab.mtl.titech.ac.jp/english/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=C2otekQSyFo">https://www.youtube.com/watch?v=C2otekQSyFo</a>

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Lab URL	<a href="http://lab.spm.jp/">http://lab.spm.jp/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=0gbyL6UWewY">https://www.youtube.com/watch?v=0gbyL6UWewY</a>


# Materials Science and Engineering


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Research Field	Thin film growth / Optoelectronic properties / Superconductivity / Optoelectronic devices
Lab URL	<a href="https://www.msl.titech.ac.jp/~hiramatsu/#5">https://www.msl.titech.ac.jp/~hiramatsu/#5</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=AhQ9dp8BV8E">https://www.youtube.com/watch?v=AhQ9dp8BV8E</a>

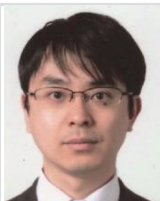
	<b>Takuya Hoshina</b>
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Major	Materials Science and Engineering
Research Field	Dielectric and ferroelectric material / Electroceramics / Phonon analysis
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Lab Movie	<a href="https://www.youtube.com/watch?v=QKz621HAYks">https://www.youtube.com/watch?v=QKz621HAYks</a>


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Lab URL	<a href="http://www.mater.pi.titech.ac.jp/home-en/">http://www.mater.pi.titech.ac.jp/home-en/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=22eS5fwjLug">https://www.youtube.com/watch?v=22eS5fwjLug</a>

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Lab Movie	<a href="https://www.youtube.com/watch?v=Dx8seFFY_KU">https://www.youtube.com/watch?v=Dx8seFFY_KU</a>

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Research Field	Phase transformation in metals / Crystallography / Metallography / Shape memory alloy
Lab URL	<a href="http://www.mrst.first.iir.titech.ac.jp/inamura_tit/english/">http://www.mrst.first.iir.titech.ac.jp/inamura_tit/english/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=TYo-Tkr-V4">https://www.youtube.com/watch?v=TYo-Tkr-V4</a>


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Research Field	Chemical reaction / Crystalline material / Heterogeneous catalysis
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Lab Movie	


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Research Field	Inorganic materials / Environment material / Ceramics processing / Interface and colloid science
Lab URL	<a href="http://www.rmat.ceram.titech.ac.jp/index_e.html">http://www.rmat.ceram.titech.ac.jp/index_e.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=hcBCUDF4ySU">https://www.youtube.com/watch?v=hcBCUDF4ySU</a>


	<b>Seiichiro Izawa</b>
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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	<a href="https://majima-tokyotech.material.jp/top/en/">https://majima-tokyotech.material.jp/top/en/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=M86XKhaJSkY">https://www.youtube.com/watch?v=M86XKhaJSkY</a>


# Materials Science and Engineering

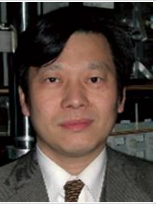
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	<b>Keigo Kamata</b>
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Major	Materials Science and Engineering / Energy Science and Informatics
Research Field	Catalyst / Chemical reaction / Inorganic / Heterogeneous catalysis
Lab URL	<a href="https://www.msl.titech.ac.jp/~kamata/en/index.html">https://www.m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


	<b>Toshio Kamiya</b>
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Lab Movie	<a href="https://www.youtube.com/watch?v=947d_GTfi9o">https://www.youtube.com/watch?v=947d_GTfi9o</a>


	<b>Satoshi Kaneko</b>
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Research Field	Physical chemistry / Single molecule science / Spectroscopy
Lab URL	<a href="https://t22.star.titech.ac.jp/cgi-bin/researcherinfo.cgi?g_researcher_content_number=CTT10051042">https://t22.star.titech.ac.jp/cgi-bin/researcherinfo.cgi?g_researcher_content_number=CTT10051042</a>
Lab Movie	

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Research Field	Oxide electronics / Energy device / Energy harvesting / Thin film
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Lab Movie	<a href="https://www.youtube.com/watch?v=947d_GTfi9o">https://www.youtube.com/watch?v=947d_GTfi9o</a>

	<b>Hitoshi Kawaji</b>
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Research Field	Inorganic / Solid state physics / Functional materials / Thermal properties
Lab URL	<a href="http://www.msl.titech.ac.jp/~kawaji/">http://www.msl.titech.ac.jp/~kawaji/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=AA273xsq0Gs">https://www.youtube.com/watch?v=AA273xsq0Gs</a>

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Major	Materials Science and Engineering / Energy Science and Informatics
Research Field	Solid chemistry / High temperature oxidation of metals / Electrochemistry in solid
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Lab Movie	<a href="https://www.youtube.com/watch?v=9jig8fSgHAA">https://www.youtube.com/watch?v=9jig8fSgHAA</a>


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Lab URL	<a href="http://j3www.materia.titech.ac.jp/mishima-kimura/index">http://j3www.materia.titech.ac.jp/mishima-kimura/index</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=GSVfSBytP44">https://www.youtube.com/watch?v=GSVfSBytP44</a>

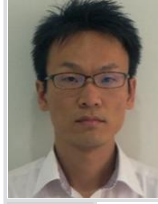
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Major	Materials Science and Engineering
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Lab URL	<a href="http://garaken.com/">http://garaken.com/</a>
Lab Movie	




# Materials Science and Engineering


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Lab URL	<a href="http://www.kitamoto.iem.titech.ac.jp">http://www.kitamoto.iem.titech.ac.jp</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=nzEZEns-XsA">https://www.youtube.com/watch?v=nzEZEns-XsA</a>


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Major	Materials Science and Engineering
Research Field	Catalysis / Synthesis of inorganic material / Ammonia synthesis / Acid and base catalyst
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Lab Movie	<a href="https://www.youtube.com/watch?v=dOgm1EMh9UI">https://www.youtube.com/watch?v=dOgm1EMh9UI</a>


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Major	Materials Science and Engineering / Human Centered Science and Biomedical Engineering
Research Field	Non-ferrous metals / Biomedical materials / Functional materials / Standardization of medical devices
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Lab Movie	<a href="https://www.youtube.com/watch?v=K1ae3RJ2SXS">https://www.youtube.com/watch?v=K1ae3RJ2SXS</a>

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Lab URL	<a href="http://steel.mtl.titech.ac.jp/en/index.html">http://steel.mtl.titech.ac.jp/en/index.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=zsZxD7o3Np8">https://www.youtube.com/watch?v=zsZxD7o3Np8</a>

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Lab Movie	<a href="https://www.youtube.com/watch?v=eQOchHmpxgGg">https://www.youtube.com/watch?v=eQOchHmpxgGg</a>

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Major	Materials Science and Engineering
Research Field	Biomedical polymer / Drug delivery system / Dendrimer / Nanomedicine
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Lab Movie	


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Major	Materials Science and Engineering
Research Field	Computational mechanics / Material mechanics / Lattice defect / Function design of nanoscale systems
Lab URL	<a href="http://kamonohashi.iem.titech.ac.jp/fujii/english/">http://kamonohashi.iem.titech.ac.jp/fujii/english/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=cjDUqBhp6Vk">https://www.youtube.com/watch?v=cjDUqBhp6Vk</a>


	<b>Yutaka Majima</b>
	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	<a href="https://majima-tokyotech.material.jp/top/en/">https://majima-tokyotech.material.jp/top/en/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=Y7HvezphwJc">https://www.youtube.com/watch?v=Y7HvezphwJc</a>


# Materials Science and Engineering


Replace • by @ in e-mail address upon sending e-mail.

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


	<b>Hidetoshi Matsumoto</b>
	Professor
	matsumoto.h.ac●m.titech.ac.jp
	Campus Ookayama
Major	Energy Science and Informatics / 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	<a href="http://www.matsumoto.mat.mac.titech.ac.jp/index-e.html">http://www.matsumoto.mat.mac.titech.ac.jp/index-e.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=HldDHgeFL2o">https://www.youtube.com/watch?v=HldDHgeFL2o</a>

	<b>Nobuhiro Matsushita</b>
	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	<a href="http://intelligent-processes-tokyo.tech/?lang=en">http://intelligent-processes-tokyo.tech/?lang=en</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=vJFcjhzEKKo">https://www.youtube.com/watch?v=vJFcjhzEKKo</a>

	<b>Sachiko Matsushita</b>
	Associate Professor
	matsushita.s.ab●m.titech.ac.jp
	Campus Suzukakedai
Major	Materials Science and Engineering / Energy Science and Informatics
Research Field	Energy / Thermoelectric generator / Colloid / Inorganic material
Lab URL	<a href="http://sachiko.mat.mac.titech.ac.jp/">http://sachiko.mat.mac.titech.ac.jp/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=hcBCUDF4ySU">https://www.youtube.com/watch?v=hcBCUDF4ySU</a>

	<b>Tsuyoshi Michinobu</b>
	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	<a href="https://michinobu.mat.mac.titech.ac.jp/en/index.html">https://michinobu.mat.mac.titech.ac.jp/en/index.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=it5b2it_pPw">https://www.youtube.com/watch?v=it5b2it_pPw</a>


	<b>Masahiro Miyauchi</b>
	Professor
	miyauchi.m.ab●m.titech.ac.jp
	Campus Ookayama
Major	Energy Science and Informatics / Materials Science and Engineering
Research Field	Photo-energy conversion materials / Photocatalysis / Solar cell / Solution based synthesis of ceramics
Lab URL	<a href="http://www.eim.ceram.titech.ac.jp/HomeE.html">http://www.eim.ceram.titech.ac.jp/HomeE.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=nNaOQ95s99A">https://www.youtube.com/watch?v=nNaOQ95s99A</a>


	<b>Junko Morikawa</b>
	Professor
	morikawa.j.aa●m.titech.ac.jp
	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	<a href="http://www.morikawa.op.titech.ac.jp/english/">http://www.morikawa.op.titech.ac.jp/english/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=XpGQ1BX6ACE">https://www.youtube.com/watch?v=XpGQ1BX6ACE</a>

	<b>Shinji Muraishi</b>
	Professor
	muraishi.s.aa●m.titech.ac.jp
	Campus Ookayama
Major	Energy Science and Informatics / Materials Science and Engineering
Research Field	Light metals and alloys / Advanced casting process / Dissimilar metal joining / Fatigue and fracture
Lab URL	<a href="http://www.kumai.mtl.titech.ac.jp/english/">http://www.kumai.mtl.titech.ac.jp/english/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=OxEcCmn3r0Q">https://www.youtube.com/watch?v=OxEcCmn3r0Q</a>

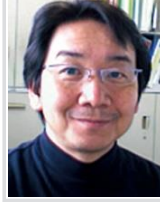
# Materials Science and Engineering


Replace ● by @ in e-mail address upon sending e-mail.

	<b>Yuta Nabae</b>
	Associate Professor
	nabae.y.aa●m.titech.ac.jp
	Campus Ookayama
Major	Energy Science and Informatics / Materials Science and Engineering
Research Field	Catalysis / Synthesis of organic and polymeric materials / Fuel cells / Electrochemistry
Lab URL	<a href="http://www.hayakawa.op.titech.ac.jp/nabae/">http://www.hayakawa.op.titech.ac.jp/nabae/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=C4DV8nH3gIQ">https://www.youtube.com/watch?v=C4DV8nH3gIQ</a>


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


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

	<b>Kazutaka Nakamura</b>
	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	<a href="http://www.knlab.msl.titech.ac.jp/english/">http://www.knlab.msl.titech.ac.jp/english/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=No7QQq6LUuY">https://www.youtube.com/watch?v=No7QQq6LUuY</a>

	<b>Kan Nakatsuji</b>
	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	<a href="http://nakatsuji.mat.mac.titech.ac.jp/en/">http://nakatsuji.mat.mac.titech.ac.jp/en/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=uGhnP6o7dhE">https://www.youtube.com/watch?v=uGhnP6o7dhE</a>

	<b>Fumiyasu Oba</b>
	Professor
	oba.f.aa●m.titech.ac.jp
	Campus Suzukakedai
Major	Materials Science and Engineering
Research Field	Computational materials science / Materials informatics / Electronic materials / Energy materials
Lab URL	<a href="https://www.cms-mi.msl.titech.ac.jp/">https://www.cms-mi.msl.titech.ac.jp/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=kxzN4KoXDuc">https://www.youtube.com/watch?v=kxzN4KoXDuc</a>


	<b>Susumu Onaka</b>
	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	<a href="http://kamonohashi.iem.titech.ac.jp/onak">http://kamonohashi.iem.titech.ac.jp/onak</a>
Lab Movie	


	<b>Azusa Ooi</b>
	Associate Professor
	ohi.a.aa●m.titech.ac.jp
	Campus Suzukakedai
Major	Human Centered Science and Biomedical Engineering / Materials Science and Engineering
Research Field	Electrochemistry / Corrosion science / Fuel cell / Metallurgy
Lab URL	<a href="http://www.elechemcorr.mtl.titech.ac.jp/index-e.html">http://www.elechemcorr.mtl.titech.ac.jp/index-e.html</a>
Lab Movie	

# Materials Science and Engineering

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	<b>Toshiaki Ougizawa</b>
	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	<a href="https://ougizawalabhp.wixsite.com/website/english-page">https://ougizawalabhp.wixsite.com/website/english-page</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=-TwLRs4dWDU">https://www.youtube.com/watch?v=-TwLRs4dWDU</a>


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


	<b>Takumi Sannomiya</b>
	Associate Professor
	sannomiya.t.aa●m.titech.ac.jp
	Campus Suzukakedai
Major	Materials Science and Engineering / Energy Science and Informatics / Human Centered Science and Biomedical Engineering
Research Field	Transmission electron microscopy / Nanooptical materials / Plasmonics / Biosensors
Lab URL	<a href="http://www.sannomiya.iem.titech.ac.jp/HomeEn.htm">http://www.sannomiya.iem.titech.ac.jp/HomeEn.htm</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=SZ500wZ07Js">https://www.youtube.com/watch?v=SZ500wZ07Js</a>

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

	<b>Hiroyo Segawa</b>
	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	<a href="https://samurai.nims.go.jp/profiles/segawa_hiroyo?locale=en">https://samurai.nims.go.jp/profiles/segawa_hiroyo?locale=en</a>
Lab Movie	


	<b>Ji Shi</b>
	Professor
	shi.j.aa●m.titech.ac.jp
	Campus Ookayama
Major	Energy Science and Informatics / Materials Science and Engineering
Research Field	Metal physics / Thin film technology / Magnetic thin films / Nanohetero structures
Lab URL	<a href="http://www.shi-harumoto.mtl.titech.ac.jp/en/index.html">http://www.shi-harumoto.mtl.titech.ac.jp/en/index.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=nV8rQ12X5QI">https://www.youtube.com/watch?v=nV8rQ12X5QI</a>


	<b>Slavakis Konstantinos</b>
	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	<a href="http://www.slavakislabs.ict.e.titech.ac.jp/">http://www.slavakislabs.ict.e.titech.ac.jp/</a>
Lab Movie	

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


# Materials Science and Engineering


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	<b>Eiji Tada</b>
	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	<a href="http://www.elechemcorr.mtl.titech.ac.jp/index-e.html">http://www.elechemcorr.mtl.titech.ac.jp/index-e.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=yGKuHFXf8oE">https://www.youtube.com/watch?v=yGKuHFXf8oE</a>


	<b>Masaki Tahara</b>
	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	<a href="http://www.mater.pi.titech.ac.jp/home-en/">http://www.mater.pi.titech.ac.jp/home-en/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=22eS5fwjLug">https://www.youtube.com/watch?v=22eS5fwjLug</a>


	<b>Yoshihiro Terada</b>
	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	<a href="https://researchmap.jp/read0172187?lang=en">https://researchmap.jp/read0172187?lang=en</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=3BC9zDvvnNs">https://www.youtube.com/watch?v=3BC9zDvvnNs</a>

	<b>Takeharu Tsuge</b>
	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	<a href="http://www.tsuge.iem.titech.ac.jp/">http://www.tsuge.iem.titech.ac.jp/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=4ujhSHukIPE">https://www.youtube.com/watch?v=4ujhSHukIPE</a>

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


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


	<b>Takafumi Yamamoto</b>
	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	<a href="https://sites.google.com/view/takafumis-homepage/english-page">https://sites.google.com/view/takafumis-homepage/english-page</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=nSgJcUZDmiA">https://www.youtube.com/watch?v=nSgJcUZDmiA</a>


	<b>Saeko Yanaka</b>
	Associate Professor
	yanaka.s.ab●m.titech.ac.jp
	Campus Suzukakedai
Major	Materials Science and Engineering / Human Centered Science and Biomedical Engineering
Research Field	Biomolecular engineering / Nuclear magnetic resonance / Biopharmaceutics / Molecular structure dynamics
Lab URL	<a href="https://researchmap.jp/yanaka?lang=ja">https://researchmap.jp/yanaka?lang=ja</a>
Lab Movie	


# Materials Science and Engineering

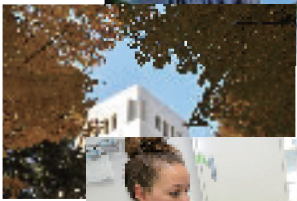
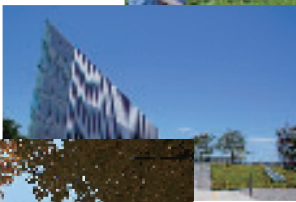
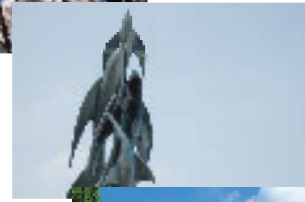
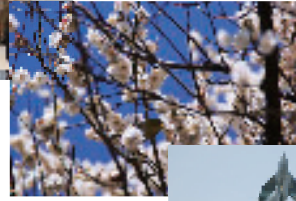
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	<b>Tetsuji Yano</b>
	Professor
	yano.t.aa●m.titech.ac.jp
	Campus Ookayama
Major	Materials Science and Engineering
Research Field	Inorganic glass materials / Photonic materials / High-temperature chemistry / Ion dynamics in materials
Lab URL	<a href="http://garaken.com/">http://garaken.com/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

	<b>Shintaro Yasui</b>
	Associate Professor
	yasui.s.aa●m.titech.ac.jp
	Campus Ookayama
Major	Nuclear Engineering / Materials Science and Engineering
Research Field	Ceramics / Functional oxides / Energy materials / Energy storage
Lab URL	<a href="https://shintaroyasui.com/">https://shintaroyasui.com/</a>
Lab Movie	

	<b>Hiroko Yokota</b>
	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	<a href="https://www.yokota-lab.com/english/home">https://www.yokota-lab.com/english/home</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=A-8LsQKZoJI">https://www.youtube.com/watch?v=A-8LsQKZoJI</a>

	<b>Katsumi Yoshida</b>
	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	<a href="http://www.zc.iir.titech.ac.jp/~k-yoshida/index_eng.html">http://www.zc.iir.titech.ac.jp/~k-yoshida/index_eng.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=sWskGwblj_s">https://www.youtube.com/watch?v=sWskGwblj_s</a>





# 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.





	<b>Shinji Ando</b>
	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	<a href="http://www.ando-cap.mac.titech.ac.jp/Eng/">http://www.ando-cap.mac.titech.ac.jp/Eng/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=dmZ_nTI16s">https://www.youtube.com/watch?v=dmZ_nTI16s</a>


	<b>Yasunobu Ando</b>
	Associate Professor
	ando.y.am●m.titech.ac.jp
	Campus Suzukakedai
Major	Chemical Science and Engineering
Research Field	Computational Materials Science / Materials Informatics / Surface&interface Science / Battery&Cell / Research Digital Transformation
Lab URL	<a href="https://www.cd-mach.cls.iir.titech.ac.jp/en/">https://www.cd-mach.cls.iir.titech.ac.jp/en/</a>
Lab Movie	


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


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Major	Energy Science and Informatics / Chemical Science and Engineering
Research Field	Electrochemistry / Material science / Energy storage device / Rechargeable battery
Lab URL	<a href="http://www.arai-cap.mac.titech.ac.jp/pages/top/index-en.html">http://www.arai-cap.mac.titech.ac.jp/pages/top/index-en.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=KLahGezuqAo">https://www.youtube.com/watch?v=KLahGezuqAo</a>


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Research Field	Process Systems Engineering / Process Safety Engineering and Management
Lab URL	<a href="http://www.chemeng.titech.ac.jp/english/faculty/fuchino/profile.html">http://www.chemeng.titech.ac.jp/english/faculty/fuchino/profile.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=HXvbRrXWsWRA">https://www.youtube.com/watch?v=HXvbRrXWsWRA</a>


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Major	Chemical Science and Engineering
Research Field	Organic electronic and optoelectronic materials / Functional polymer materials / Functional molecular assembly / Organic thin-film engineering
Lab URL	<a href="http://fuku.res.titech.ac.jp/english/">http://fuku.res.titech.ac.jp/english/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=xLUPL1dkb88">https://www.youtube.com/watch?v=xLUPL1dkb88</a>

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Major	Chemical Science and Engineering
Research Field	Polymer structure / Polymer property / Molecular simulation
Lab URL	<a href="http://www.furuya-cap.mac.titech.ac.jp/en/">http://www.furuya-cap.mac.titech.ac.jp/en/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=IKyGI4HQyWY">https://www.youtube.com/watch?v=IKyGI4HQyWY</a>


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Research Field	Inorganic materials / Chemical process engineering / CO2 capture & utilization / Low-carbon energy system
Lab URL	<a href="https://harada.ne.titech.ac.jp/engtop.html">https://harada.ne.titech.ac.jp/engtop.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=eciVFs-aBvY">https://www.youtube.com/watch?v=eciVFs-aBvY</a>

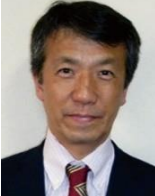
	<b>Masaaki Hirayama</b>
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	Campus Suzukakedai
Major	Energy Science and Informatics / Chemical Science and Engineering
Research Field	Solid state chemistry / Energy conversion materials / Lithium ion batteries / Design of electrochemical interface
Lab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


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Major	Energy Science and Informatics / Chemical Science and Engineering
Research Field	Solid oxide fuel cells / Plasmonic solar cells / Direct carbon fuel cells / Design of energy system
Lab URL	<a href="http://www.chemeng.titech.ac.jp/~iharalab/index.html">http://www.chemeng.titech.ac.jp/~iharalab/index.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=4NQAolQr1vw">https://www.youtube.com/watch?v=4NQAolQr1vw</a>


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Research Field	Physical chemistry / Coordination chemistry / Advanced material chemistry / Nanoparticle / Cluster science
Lab URL	<a href="http://www.res.titech.ac.jp/~inorg/yamamoto/e/">http://www.res.titech.ac.jp/~inorg/yamamoto/e/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=7DzgrBAU4q8">https://www.youtube.com/watch?v=7DzgrBAU4q8</a>


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Research Field	Organic electrosynthesis / Functional polymer / Polymer synthesis / Electrochemical device
Lab URL	<a href="http://www.echem.titech.ac.jp/~inagi/e-index.html">http://www.echem.titech.ac.jp/~inagi/e-index.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=fKV5QAnJ-wl">https://www.youtube.com/watch?v=fKV5QAnJ-wl</a>

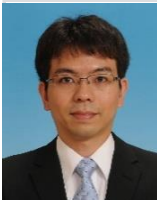
	<b>Ryohei Ishige</b>
	Associate Professor
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	Campus Ookayama
Major	Chemical Science and Engineering
Research Field	Polymer functional materials / Polymer inorganic hybrid materials / Liquid crystalline polymers / X-ray structure analysis
Lab URL	<a href="https://t2r2.star.titech.ac.jp/cgi-bin/researcherinfo.cgi?q_researcher_content_number=CTT10051463">https://t2r2.star.titech.ac.jp/cgi-bin/researcherinfo.cgi?q_researcher_content_number=CTT10051463</a>
Lab Movie	


	<b>Takashi Ishizone</b>
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Major	Chemical Science and Engineering
Research Field	Polymer synthesis / Organic chemistry
Lab URL	<a href="http://www.ishizone-cap.mac.titech.ac.jp/">http://www.ishizone-cap.mac.titech.ac.jp/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=gowHW4EBfAA">https://www.youtube.com/watch?v=gowHW4EBfAA</a>

	<b>Shigekazu Ito</b>
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Major	Chemical Science and Engineering
Research Field	Functional organic radicals / Homogeneous gold catalysis / Quantum computer / Application of subatomic particle
Lab URL	<a href="http://www.sito-cap.mac.titech.ac.jp/index-e.html">http://www.sito-cap.mac.titech.ac.jp/index-e.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=I4DDTGguYkc">https://www.youtube.com/watch?v=I4DDTGguYkc</a>


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Research Field	Energy storage and conversion / Carbon recycling energy system / Energy carrier / Nuclear energy system
Lab URL	<a href="https://kato.zc.iir.titech.ac.jp/en/index.html">https://kato.zc.iir.titech.ac.jp/en/index.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=VVXV4lphz2I">https://www.youtube.com/watch?v=VVXV4lphz2I</a>


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Major	Chemical Science and Engineering
Research Field	Polymer science / Photochemistry / Optical materials / Physiology
Lab URL	<a href="http://www.konishi-cap.mac.titech.ac.jp/en/">http://www.konishi-cap.mac.titech.ac.jp/en/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=nB-GT_-bpQ">https://www.youtube.com/watch?v=nB-GT_-bpQ</a>

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Research Field	Polymer / Hybrid material / Photonics / Liquid crystal
Lab URL	<a href="http://www.polymer.res.titech.ac.jp/english/">http://www.polymer.res.titech.ac.jp/english/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=qocnm8rZMkA">https://www.youtube.com/watch?v=qocnm8rZMkA</a>

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


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Major	Chemical Science and Engineering
Research Field	Energy materials and devices / Chemical engineering / Electrocatalysts / Functionalized membranes
Lab URL	<a href="http://www.res.titech.ac.jp/~zairyosys/yamaguchilab/e/">http://www.res.titech.ac.jp/~zairyosys/yamaguchilab/e/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=WQEG9JoFdOQ">https://www.youtube.com/watch?v=WQEG9JoFdOQ</a>


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Research Field	Polymer physics / Nanostructure science / Nanocomposites
Lab URL	<a href="http://nanomech.polymer.titech.ac.jp/en/">http://nanomech.polymer.titech.ac.jp/en/</a>
Lab Movie	


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Research Field	Energy conversion and storage / Materials modeling / Machine learning / Computational method development
Lab URL	<a href="http://www.chemeng.titech.ac.jp/~iharalab/index.html">http://www.chemeng.titech.ac.jp/~iharalab/index.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=4NQAolQr1vw">https://www.youtube.com/watch?v=4NQAolQr1vw</a>


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Research Field	Process Systems Engineering / Process Intensification / Intelligent Systems
Lab URL	<a href="http://www.chemeng.titech.ac.jp/~cps/hm/index-en.html">http://www.chemeng.titech.ac.jp/~cps/hm/index-en.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=QGNVZHt76s0">https://www.youtube.com/watch?v=QGNVZHt76s0</a>

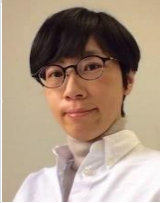
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	Campus Ookayama
Major	Chemical Science and Engineering / Energy Science and Informatics
Research Field	Plasma engineering / Plasma chemistry / Chemical engineering / Combustion engineering
Lab URL	<a href="http://www.chemeng.titech.ac.jp/~morilab/index-e.html">http://www.chemeng.titech.ac.jp/~morilab/index-e.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=TQOZTSZShI4">https://www.youtube.com/watch?v=TQOZTSZShI4</a>


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Major	Chemical Science and Engineering
Research Field	Organometallic chemistry / Coordination chemistry / Catalysis / Inorganic chemistry
Lab URL	<a href="http://www.tmurahashi-cap.mac.titech.ac.jp/english.html">http://www.tmurahashi-cap.mac.titech.ac.jp/english.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=wu0dde8380g">https://www.youtube.com/watch?v=wu0dde8380g</a>


	<b>Ken Nakajima</b>
	Professor
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Major	Chemical Science and Engineering
Research Field	Polymer nanomechanics / Polymer physics / Rubber / Elastomer materials
Lab URL	<a href="http://nanomech.polymer.titech.ac.jp/en/">http://nanomech.polymer.titech.ac.jp/en/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=zDEuyOyBamk">https://www.youtube.com/watch?v=zDEuyOyBamk</a>

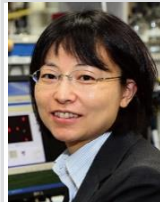
	<b>Yumiko Nakajima</b>
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	Campus Ookayama
Major	Chemical Science and Engineering
Research Field	Organometallic chemistry / Coordination chemistry / Silicon chemistry / Catalytic chemistry
Lab URL	<a href="http://www.ynakajima-cap.mac.titech.ac.jp/">http://www.ynakajima-cap.mac.titech.ac.jp/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=BZ8HmuZ8rbw">https://www.youtube.com/watch?v=BZ8HmuZ8rbw</a>


	<b>Ryuhei Nakamura</b>
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Research Field	Origin of life / Electrochemistry / Chemical energy conversion / Biomimicry
Lab URL	<a href="https://sites.google.com/elsi.jp/ryuheinakamura">https://sites.google.com/elsi.jp/ryuheinakamura</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=KE9OAlry2UE">https://www.youtube.com/watch?v=KE9OAlry2UE</a>


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Major	Energy Science and Informatics / Chemical Science and Engineering
Research Field	Supramolecular chemistry / Polymer synthesis / Structural organic chemistry / Functional materials chemistry
Lab URL	<a href="http://nakazono-cap.mac.titech.ac.jp/home-en/">http://nakazono-cap.mac.titech.ac.jp/home-en/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=2fzkvEEhVbw">https://www.youtube.com/watch?v=2fzkvEEhVbw</a>


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	Campus Ookayama
Major	Chemical Science and Engineering / Materials Science and Engineering
Research Field	Inorganic solid-state chemistry / Crystal engineering / Oxide electronic
Lab URL	<a href="http://www.ohtomo.apc.titech.ac.jp/?lan">http://www.ohtomo.apc.titech.ac.jp/?lan</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=-U0LUpCi3Uc">https://www.youtube.com/watch?v=-U0LUpCi3Uc</a>


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Major	Energy Science and Informatics / Chemical Science and Engineering
Research Field	Organic chemistry / Structural organic chemistry / Supramolecular chemistry / Organic semiconductors / Organic functional materials / Organic electronics
Lab URL	<a href="https://tokamoto-cap.mac.titech.ac.jp/">https://tokamoto-cap.mac.titech.ac.jp/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=PunrDjbNzNY">https://www.youtube.com/watch?v=PunrDjbNzNY</a>


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Research Field	Biotechnology / Peptide technology / Bioelectronics / Biomedical engineering
Lab URL	<a href="http://www.chemeng.titech.ac.jp/~lab-okochi/index.html">http://www.chemeng.titech.ac.jp/~lab-okochi/index.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=8CVEO-YMni0">https://www.youtube.com/watch?v=8CVEO-YMni0</a>

	<b>Hideyuki Otsuka</b>
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Research Field	Polymer chemistry / Polymer reactions / Dynamic covalent chemistry / Chemistry of soft materials
Lab URL	<a href="http://www.otsuka-cap.mac.titech.ac.jp/english.html">http://www.otsuka-cap.mac.titech.ac.jp/english.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=Mz5cnOq5jnw">https://www.youtube.com/watch?v=Mz5cnOq5jnw</a>


	<b>Reiko Saito</b>
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Research Field	Polymer synthesis / Polymer reaction / Composites / Nano materials
Lab URL	<a href="http://www.saito-cap.mac.titech.ac.jp/index-e.html">http://www.saito-cap.mac.titech.ac.jp/index-e.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=XWZXvqMa1og">https://www.youtube.com/watch?v=XWZXvqMa1og</a>

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Research Field	Polymer Synthesis / Precision Polymerization / Living Polymerization / Bio-Based Polymers
Lab URL	<a href="http://www.satoh-cap.mac.titech.ac.jp/eng/e_index.html">http://www.satoh-cap.mac.titech.ac.jp/eng/e_index.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=z7orAyhcWYo">https://www.youtube.com/watch?v=z7orAyhcWYo</a>

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Major	Chemical Science and Engineering
Research Field	Supramolecular chemistry / Peptide chemistry / Coordination chemistry / Topology
Lab URL	<a href="http://www.res.titech.ac.jp/~smart/nospace_e.html">http://www.res.titech.ac.jp/~smart/nospace_e.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=n16J5iTzlgY">https://www.youtube.com/watch?v=n16J5iTzlgY</a>


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Research Field	Softmaterial / Biomacromolecule / Biotechnology / Bioorganic chemistry
Lab URL	<a href="http://www.serizawa-cap.mac.titech.ac.jp/index-e.html">http://www.serizawa-cap.mac.titech.ac.jp/index-e.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=YCScsHeEuAg">https://www.youtube.com/watch?v=YCScsHeEuAg</a>


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Major	Chemical Science and Engineering / Energy Science and Informatics
Research Field	Plasma processing / Reaction engineering with high energy density field / Thermal energy engineering / Environmental chemical engineering
Lab URL	<a href="http://www.chemeng.titech.ac.jp/~labseki/index_j.php">http://www.chemeng.titech.ac.jp/~labseki/index_j.php</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=1QXsNeyge-I">https://www.youtube.com/watch?v=1QXsNeyge-I</a>


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Research Field	Biopolymer / Natural polymer / Polymer chemistry / Biotechnology
Lab URL	<a href="http://www.serizawa-cap.mac.titech.ac.jp/index-e.html">http://www.serizawa-cap.mac.titech.ac.jp/index-e.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=YCScsHeEuAg">https://www.youtube.com/watch?v=YCScsHeEuAg</a>

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Research Field	Chemical engineering / Supercritical fluid / Nano-structured material / Material for separation
Lab URL	<a href="http://www.chemeng.titech.ac.jp/~yshimo/index.html">http://www.chemeng.titech.ac.jp/~yshimo/index.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=2nkWgHp8CCA">https://www.youtube.com/watch?v=2nkWgHp8CCA</a>


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Major	Chemical Science and Engineering / Energy Science and Informatics
Research Field	Polymer / Light / Liquid crystal / Material
Lab URL	<a href="http://www.polymer.res.titech.ac.jp/english/">http://www.polymer.res.titech.ac.jp/english/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=qocnm8rZMkA">https://www.youtube.com/watch?v=qocnm8rZMkA</a>


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Major	Chemical Science and Engineering
Research Field	Organic synthesis / Organometallic chemistry / Functional molecular assembly / Organic thin-film engineering
Lab URL	<a href="http://fuku.res.titech.ac.jp/english/">http://fuku.res.titech.ac.jp/english/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=xLUPL1dkb88">https://www.youtube.com/watch?v=xLUPL1dkb88</a>


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Major	Energy Science and Informatics / Chemical Science and Engineering
Research Field	Solid electrolytes / High capacity electrode materials / All-solid-state batteries / Interfacial reaction analysis
Lab URL	<a href="http://www.kannosuzuki.assb.iir.titech.ac.jp/english/">http://www.kannosuzuki.assb.iir.titech.ac.jp/english/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=r94zVEsD2Jc">https://www.youtube.com/watch?v=r94zVEsD2Jc</a>


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Research Field	Chemical engineering / Catalysis and reaction engineering / Petrochemical / Biomass
Lab URL	<a href="http://www.chemeng.titech.ac.jp/~tagolabo/english/index.html">http://www.chemeng.titech.ac.jp/~tagolabo/english/index.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=R5mhVnDihC8">https://www.youtube.com/watch?v=R5mhVnDihC8</a>


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Research Field	Coordination chemistry of actinides / Ionic liquids / Nuclear fuel cycle / Treatment and disposal of radioactive wastes
Lab URL	<a href="http://www.zc.iir.titech.ac.jp/~ktakao/index_e.html">http://www.zc.iir.titech.ac.jp/~ktakao/index_e.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=08-xy_W9XbA">https://www.youtube.com/watch?v=08-xy_W9XbA</a>


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Research Field	Organometallic chemistry / Coordination chemistry / Cluster chemistry / Chemistry of catalysis
Lab URL	<a href="http://www.ttakao-cap.mac.titech.ac.jp/index_e.html">http://www.ttakao-cap.mac.titech.ac.jp/index_e.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=acvt88aA4oI">https://www.youtube.com/watch?v=acvt88aA4oI</a>

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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	<a href="http://www.noritanaka-cap.mac.titech.ac.jp/">http://www.noritanaka-cap.mac.titech.ac.jp/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=aLEfK5ypcJo">https://www.youtube.com/watch?v=aLEfK5ypcJo</a>


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Major	Chemical Science and Engineering
Research Field	Organic synthesis / Organometallic chemistry / Asymmetric catalysis
Lab URL	<a href="http://www.ktanaka-cap.mac.titech.ac.jp/index-e.html">http://www.ktanaka-cap.mac.titech.ac.jp/index-e.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=ubZILlgnKb0">https://www.youtube.com/watch?v=ubZILlgnKb0</a>


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Research Field	Microbiology / Nanotechnology / Proteomics / Genetic engineering
Lab URL	<a href="http://matanaka.cap.mac.titech.ac.jp/">http://matanaka.cap.mac.titech.ac.jp/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=RWZaeIT-WBK">https://www.youtube.com/watch?v=RWZaeIT-WBK</a>


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Research Field	Nanostructure material processing / Energy storage device / Electrochemistry / Chemical engineering
Lab URL	<a href="http://www.chemeng.titech.ac.jp/~itlab/index.html">http://www.chemeng.titech.ac.jp/~itlab/index.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=dxgNuKdHE_E">https://www.youtube.com/watch?v=dxgNuKdHE_E</a>

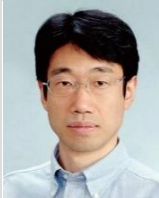
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	Campus Suzukakedai
Major	Chemical Science and Engineering
Research Field	Computational materials science / Surface and interface science / Electrochemistry / Energy conversion and storage
Lab URL	<a href="https://www.cd-mach.cls.iir.titech.ac.jp/en/">https://www.cd-mach.cls.iir.titech.ac.jp/en/</a>
Lab Movie	


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Major	Chemical Science and Engineering
Research Field	Polymer structures / Polymer properties / Polymer liquid crystals / Soft materials
Lab URL	<a href="http://www.tokita-cap.mac.titech.ac.jp/">http://www.tokita-cap.mac.titech.ac.jp/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=mywX2EkXP8g">https://www.youtube.com/watch?v=mywX2EkXP8g</a>


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Major	Chemical Science and Engineering / Energy Science and Informatics
Research Field	Polymer synthesis / Polymer reaction / Functional polymer / Organometallic chemistry
Lab URL	<a href="http://www.chem.titech.ac.jp/~tomita/tomita_e.html">http://www.chem.titech.ac.jp/~tomita/tomita_e.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=berlupmgP6Q">https://www.youtube.com/watch?v=berlupmgP6Q</a>

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Research Field	Atmospheric chemistry / Earth and environmental chemistry / Material cycle analysis / Analytical chemistry
Lab URL	<a href="http://silab.cap.mac.titech.ac.jp/index-e.html">http://silab.cap.mac.titech.ac.jp/index-e.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=v5C0IOe5-t4">https://www.youtube.com/watch?v=v5C0IOe5-t4</a>


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Lab URL	<a href="http://www.zc.iir.titech.ac.jp/~ptsuka/">http://www.zc.iir.titech.ac.jp/~ptsuka/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=zZ53EC_Gipl">https://www.youtube.com/watch?v=zZ53EC_Gipl</a>


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Research Field	Photofunctional chemistry / Nano material / Laser
Lab URL	<a href="http://www.wada.iem.titech.ac.jp/new/english/">http://www.wada.iem.titech.ac.jp/new/english/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=Rx5mLPT0FpE">https://www.youtube.com/watch?v=Rx5mLPT0FpE</a>


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Research Field	Materials engineering / Chemical engineering / Electrochemistry / Battery
Lab URL	<a href="http://www.waki.mac.titech.ac.jp/index.html">http://www.waki.mac.titech.ac.jp/index.html</a>
Lab Movie	

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Major	Chemical Science and Engineering / Energy Science and Informatics
Research Field	Isotopomics / Organic geochemistry / Environmental chemistry / Isotope geochemistry
Lab URL	<a href="http://silab.cap.mac.titech.ac.jp/index-e.html">http://silab.cap.mac.titech.ac.jp/index-e.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=Hx_IPj4N39Q">https://www.youtube.com/watch?v=Hx_IPj4N39Q</a>


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Research Field	Chemical engineering / Water electrolysis / Fuel cells / Membranes / Bio-inspired materials
Lab URL	<a href="http://www.res.titech.ac.jp/~zairyosys/yamaguchilab/e/index.html">http://www.res.titech.ac.jp/~zairyosys/yamaguchilab/e/index.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=WQEG9JoFdOQ">https://www.youtube.com/watch?v=WQEG9JoFdOQ</a>

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Research Field	Macromolecular chemistry / Inorganic chemistry / Nanoscience / nanotechnology / Atom hybridization
Lab URL	<a href="http://www.res.titech.ac.jp/~inorg/yamamoto/e/">http://www.res.titech.ac.jp/~inorg/yamamoto/e/</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=7DzgrbAU4q8">https://www.youtube.com/watch?v=7DzgrbAU4q8</a>


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Lab URL	<a href="http://www.iyamanaka-cap.mac.titech.ac.jp/index.html">http://www.iyamanaka-cap.mac.titech.ac.jp/index.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=DQKnQhnH0HA">https://www.youtube.com/watch?v=DQKnQhnH0HA</a>

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Research Field	Nanospace catalysis / Zeolites / Catalytic reaction chemistry / Green chemistry
Lab URL	<a href="http://www.nc.iir.titech.ac.jp/index_e.html">http://www.nc.iir.titech.ac.jp/index_e.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=rva41QaxLHU">https://www.youtube.com/watch?v=rva41QaxLHU</a>

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Research Field	Transport phenomena / Membrane separation / Mixing operation
Lab URL	<a href="http://www.chemeng.titech.ac.jp/~fsegrp/YOSHIKAWA/index.html">http://www.chemeng.titech.ac.jp/~fsegrp/YOSHIKAWA/index.html</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=R1RQCrgI_gE">https://www.youtube.com/watch?v=R1RQCrgI_gE</a>

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	Campus Ookayama
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Research Field	Solid-state chemistry / Thin films / Electron spectroscopy / Computational materials science
Lab URL	<a href="https://yoshimatsulab.wixsite.com/yoshimatsu-lab">https://yoshimatsulab.wixsite.com/yoshimatsu-lab</a>
Lab Movie	<a href="https://www.youtube.com/watch?v=qRnET_5kh_U">https://www.youtube.com/watch?v=qRnET_5kh_U</a>



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



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1 April 2024

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