TOKYO TECH RESEARCH MAP 2023-2024

Development of novel catalysts for low-temperature ammonia synthesis

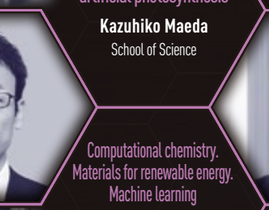
Masaaki Kitano
Institute of Innovative Research

Environmentally benign heterogeneous catalysts

Michikazu Hara
Institute of Innovative Research

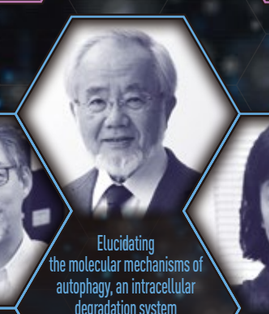
Chemical approach to artificial photosynthesis

Kazuhiko Maeda
School of Science



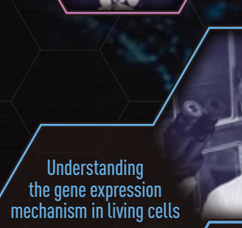
Computational chemistry. Materials for renewable energy. Machine learning

Sergei Manzhos
School of Materials and Chemical Technology



Elucidating the molecular mechanisms of autophagy, an intracellular degradation system

Yoshinori Ohsumi
Institute of Innovative Research

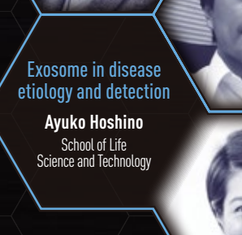


Design of small molecules that regulate biological functions and drug development

Hiroyuki Nakamura
Institute of Innovative Research

Polymer design for future diagnostic and therapeutic medicine

Nobuhiro Nishiyama
Institute of Innovative Research

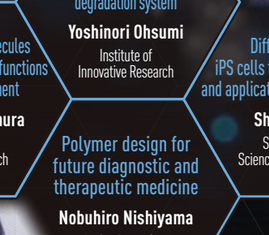


Understanding the gene expression mechanism in living cells

Hiroshi Kimura
Institute of Innovative Research

Exosome in disease etiology and detection

Ayuko Hoshino
School of Life Science and Technology



Diffrentiation of iPS cells to digestive organs and application to drug discovery

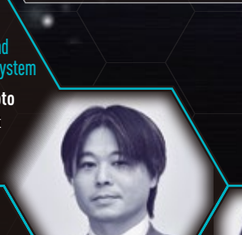
Shoen Kume
School of Life Science and Technology

Application of information and communication technology for international development

Jun-ichi Takada
School of Environment and Society

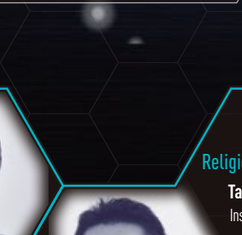
Analysis, design and implementation of ecosystem

Masaharu Tsujimoto
School of Environment and Society



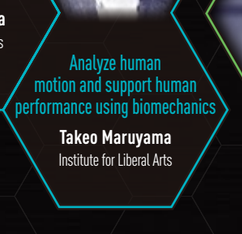
Building intelligent machines

Ryutaro Ichise
School of Engineering



Religion and nationalism

Takeshi Nakajima
Institute for Liberal Arts

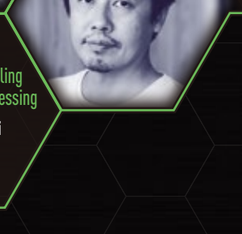


Analyze human motion and support human performance using biomechanics

Takeo Maruyama
Institute for Liberal Arts

Qantum sensor technologies for ultra-precise inertial navigation

Mikio Kozuma
Institute of Innovative Research



Nanophotonics enabling novel information processing

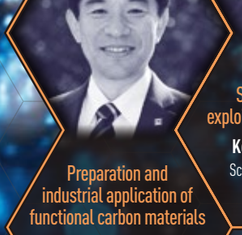
Masaya Notomi
School of Science

Researching for life beyond Earth

Yasuhito Sekine
Earth-Life Science Institute

Contributing to water security in a changing world

Shinjiro Kanae
School of Environment and Society



Soft robots that exploit artificial muscles

Koichi Suzumori
School of Engineering

Functional-continuity buildings and cities that withstand earthquakes

Shoichi Kishiki
Institute of Innovative Research

Preparation and industrial application of functional carbon materials

Naoto Ohtake
Institute of Innovative Research

Computer vision, computational, imaging, 3D scene recognition/ understanding

Masatoshi Okutomi
School of Engineering

Biomedical artificial intelligence that learns images efficiently

Kenji Suzuki
Institute of Innovative Research

Diamond quantumsensors for healthcare and environmental energy fields

Mutsuko Hatano
School of Engineering

World's fastest millimeter-wave transceiver

Kenichi Okada
School of Engineering

Establishing highly-efficient AI computing through SW-HW co-creation

Masato Motomura
Institute of Innovative Research

Systems control incorporating advances in information and communication

Hideaki Ishii
School of Computing

Exploiting big data to model socio- and econophysics

Misako Takayasu
School of Computing

Fabrication methods of metallic materials & the evaluation method for next generation medical devices

Masato Sone
Institute of Innovative Research

Design and development of water electrolysis and fuel cell materials and systems

Takeo Yamaguchi
Institute of Innovative Research

Elaboration of nanospace materials: enabler for innovative resources recycling

Toshiyuki Yokoi
Institute of Innovative Research

Creation of novel functional materials from a unique perspective

Hideo Hosono
MDX Research Center for Element Strategy

Synthesis and function of supramolecular capsules

Lorenzo Catti
Institute of Innovative Research

Making all solid-state batteries universally available

Ryoji Kanno
Institute of Innovative Research