## TOKYO TECH RESEARCH MAP 2019-2020

Creating new materials by combining metallic elements Kimihisa Yamamoto Institute of Innovative Research Development of high performance soft material Takanori Fukushima Institute of

Making all solid-state batteries universally available

Ryoji Kanno Institute of

> Photocatalyzing CO: reduction into value and benefit

> > Osamu Ishitani School of Science

Creation of novel



Hiroshi Kimura Institute of

Polymer design for future diagnostic and therapeutic medicine

Nobuhiro Nishiyama Institute of Innovative Research

Elucidation of intestinal environment dynamics

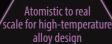
Takuji Yamada School of Life Science and

Satoshi Chiba Institute of



How mathematical science can optimize corporate activities

Shinji Mizuno School of Engineerin



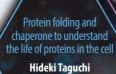
Masao Takeyama School of Materials and Chemical Technolog

Environmentally oenian heteroaeneou catalysts

> Michikazu Hara Institute of Innovative Research

functional materials fror a unique perspective

Hideo Hosono



Institute of

Elucidating the olecular mechanisms autophagy, an intracellulai

> Yoshinori Ohsumi Institute of Innovative Research

Differentiation of cells to digestive organ and application to drug discovery

**Shoen Kume** School of Life Science an

uclear reactions for safer nuclear power



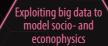
liverse physical sensation

Asa Ito

Institute for Liberal Arts

Nationalism and religion found in contemporary politics

Takeshi Nakajima Institute for Liberal Arts



Misako Takayasu



Chemistry, Materials

Science and

Engineering,

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Life Science and

Technology

everaging innovation

to build a sustainable societ

Yuya Kajikawa

School of Environment

Systems control ncorporating advance in information and

Hideaki Ishii



World's fastest

Kenichi Okada School of Engineering



diamond quantum sensors to organisms and environmental energy field

> Mutsuko Hatano School of Engineering

> > Fumio Koyama Institute of Innovative Research

> > > of multi-phase flows

surface emitting lasers

Takayuki Aoki



brain functions on compu Yasuharu Koike

Reconstruction of

Institute of

Applying robotics to

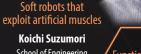
School of Engineering



batteries and fuel-cell efficiency Shuichiro Hirai

School of Engineering

School of Engineering



unctional-continuit rchitecture and cities that

> Satoshi Yamada Institute of





imulation for complex flow

Feng Xiao **Urban** planning School of Engineering rough analysis base

Tetsuo Yai



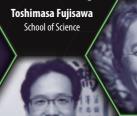
School of Environmer and Society



**Evolution of** the universe through ltimate elementary particles

> Masahiro Kuze School of Science

Electron dynamics for developing quantum information technologies



Establishing the theoretical basis for a quantum computer

Hidenori Nishimori Quantum Institute of inertial sensor Innovative Research technologies for greater

self-localization units Mikio Kozuma

School of Science

Analyzing formation and evolution of lanets through simulation

Shigeru Ida Farth-Life Science Institute



Mechanical

**Transdisciplinary Humanities** and Social Science

Electrical and

Engineering,

Computer Science

Electronic

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Mathematics, Physics, Earth and Planetary Sciences



Analyzing the dynamics of nonlinear diffusive systems

> Eiji Yanagida School of Science





