



University of Hyogo

Researchers Map 2025

Technology
Business & DX



Contact Information for Researches Map



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Researchers Map Contents 2025

Technology

Manufacturing

- Fundamental technology 01
- Ferrous and non-ferrous metal materials 01
- New materials 01
- Machining and measurements 01
- Advanced device technologies 01
- Application of simulation 01

Information communications

- Internet of things,
Network communication technologies 02
- Artificial intelligence, Information systems 02

Nanotechnology

- Microfabrication and characterization 02
- Superconductivity, Magnetic materials 02
- Nanostructure devices 02
- Application of synchrotron radiation 02

Energy

- Natural energy 02
- Energy conservation and storage 02·03
- Low environmental impact materials 03
- Nuclear energy safety control 03

Biological science

- Biophysics 03
- Plant cell biology 03
- Animal cell biology 03
- Neuroscience and developmental biology 03
- Biomaterial chemistry 03
- Microorganism and infection 03
- Other 03

Frontier

- Earth, Space 03
- Mathematical sciences 04

Environment

- Conservation of ecosystem 04
- Environmental cleanup 04
- Environmental conservation 04

Life science

- Medical engineering 04
- Food and health 04
- Humancare 04·05
- Healthcare 05

Social infrastructure

- Social infrastructure 05
- Regional vitalization 05

Business

- Economic theory, Econometrics 06
- Economic history, History of economic thought 06
- Finance 06
- International economics, Development economics 06
- Public economics, Industrial organization,
Social policy, Labor economics 06
- Regional economics, Environmental economics 06
- Law 06
- International culture and communication 06
- Education, Psychology, History of thought, Sociology 07
- Environment, Biology 07
- Information Science 07
- Health and sports science 07
- Healthcare management 07
- Mathematics, Statistics 07
- Small & medium enterprises, Regional innovation 07
- Distributive trade, Commerce, Marketing 07
- Strategic management, Global business 07
- Organizational management 07
- Management sciences 08
- Financial accounting 08
- Management accounting 08
- Public sector accounting,
Not-for-profit organizations accounting 08

DX

- DX:Manufacturing 08
- DX:Information communications 08
- DX:Nanotechnology 08
- DX:Energy 08
- DX:Biological science 08
- DX:Environment 08
- DX:Life science 08
- DX:Social infrastructure 08
- DX:Business 08

Technology

Schools & Institutes

Em: Economics and Management
Eng: Engineering
Sci: Science
Hse: Human Science and Environment

Nas: Nursing Art and Science
Ins: Information Science

Ss: Social Sciences
Rrm: Regional Resources Management
Ldm: Landscape Design and Management
Drg: Disaster Resilience and Governance

Ast: Advanced Science and Technology for Industry
Nes: Natural and Environmental Sciences
Npc: Nursing Care for People and Community
Ame: Advanced Medical Engineering Research Institute
Lai: Library and Academic Information
Svc: Institute for Innovation and Social Value Creation

Manufacturing

Fundamental technology

- ▶ Dissimilar material welding by friction heat for multi-material structure Kimura, Masaaki, Eng
- ▶ Interface strength evaluation of connecting joint Kusaka, Masahiro, Eng
- ▶ Hydrogen analysis and structure analysis of electrochemically deposited metal films Fukumuro, Naoki, Eng
- ▶ Development of magnetized coaxial plasma guns to eject high-speed, high-density plasmoids, and its applications Fukumoto, Naoyuki, Eng
- ▶ Derivation and design of soft-switching mathematical model for RF supply Osato, Tatsuki, Eng
- ▶ Study on liquid atomization process Takagaki, Naohisa, Eng
- ▶ Development of in-situ analytical technique using laser-induced breakdown spectroscopy Matsumoto, Ayumu, Eng
- ▶ Fault diagnosis and fault tolerant control for input redundant systems Kawaguchi, Natsuki, Eng
- ▶ Deep drawing of functional material, shot peening process Harada, Yasunori, Eng
- ▶ Mechanical models of soft solids and structures Tanaka, Hiro, Eng
- ▶ Control of measurement instruments in particle accelerators Hashimoto, Satoshi, Ast
- ▶ Organic reaction chemistry Fujita, Morifumi, Sci
- ▶ Development of organic reactions Shimogaki, Mio, Sci
- ▶ Development of functional organic compounds Miyake, Yoshihiro, Sci
- ▶ Development of organoelement compounds Ago, Tomohiro, Sci
- ▶ 3D Additive Manufacturing at Research Center for Advanced Metallic Materials Takeuchi, Akira, Svc

Ferrous and non-ferrous metal materials

- ▶ Microstructure observation in metals by using synchrotron radiation Adachi, Hiroki, Eng
- ▶ High strength and high ductility for steels Tsuchida, Noriyuki, Eng
- ▶ Mechanical properties in titanium alloy at elevated temperature Ito, Atsushi, Eng
- ▶ Superconducting material Okai, Daisuke, Eng
- ▶ Design and microstructure control of aluminum alloys Otani, Yuki, Eng

New materials

- ▶ Synthesis and properties of functional ceramics Kikuchi, Takeyuki, Eng
- ▶ Synthetic chemistry for organic electronics Nishida, Jun-ichi, Eng
- ▶ Development and evaluation of the metallic biomedical materials Miura-Fujiwara, Eri, Eng
- ▶ Mechanics of graphene Inui, Norio, Eng
- ▶ Photoinduced change in physical properties of polymer films Kondo, Mizuho, Eng
- ▶ High performance, multi-functional polymer composites Kishi, Hajime, Eng
- ▶ Fabrication and evaluation of super-hard thin films Tanaka, Ippei, Eng
- ▶ Development of membrane materials using biomembrane structure Taguchi, Shogo, Eng
- ▶ Application of nanomaterials as lubricant Matsumoto, Naohiro, Eng
- ▶ Development of Organic- and Nano-materials for Light-Energy Conversion Applications Umeyama, Tomokazu, Eng
- ▶ Development of organic- and nano-materials based on non-covalent interaction Suzuki, Wataru, Eng
- ▶ Development of functional organic NIR materials Furuyama, Taniyuki, Eng
- ▶ Synthesis and Functionalization of three-dimensional π -electron molecules Inoue, Ryo, Sci
- ▶ Development of novel multifunctional materials based on molecular materials Kubo, Kazuya, Sci

Machining and measurements

- ▶ Application of measurement and control engineering Araki, Nozomu, Eng
- ▶ Improvement of rolling contact fatigue life Abo, Masayoshi, Eng
- ▶ Atmospheric pressure plasma surface treatment and insulation technology of high voltage equipment Kikuchi, Yusuke, Eng
- ▶ Application of fractional calculus and nonlinear dynamics Kuroda, Masaharu, Eng
- ▶ Nano-processing with gas cluster ion beams Toyoda, Noriaki, Eng
- ▶ Development of nano-processing by gas cluster ion beams Takeuchi, Masaya, Eng
- ▶ Study on support system for transfer of scraping skill Nunobiki, Masayuki, Eng
- ▶ Bio-inspired Robotics and Control Tsunoda, Yusuke, Eng
- ▶ Bio-Inspired Engineering of Flexible and Robust Control Systems Hotta, Yasushi, Eng
- ▶ Friction and wear measurements from nano- to microscale, and applications of nanomaterials as friction additives Kinoshita, Hiroshi, Eng
- ▶ Microstructure analysis of friction interface Tanaka, Serina, Eng
- ▶ Development of cavitation bubble plasma device and its application Oka, Yoshihiro, Eng
- ▶ Characterization of pulse discharge properties and its application Okada, Sho, Eng
- ▶ Terahertz Science and Technology Arikawa, Takashi, Eng

Advanced device technologies

- ▶ Microelectromechanical systems based on piezoelectric thin films Kanda, Kensuke, Eng
- ▶ Processing of fine particles and functional inorganic fibers Iimura, Kenji, Eng
- ▶ Organic electronics Tada, Kazuya, Eng
- ▶ Electrochemical production of metal films and nanoparticles, and those applications Yae, Shinji, Eng
- ▶ Electrodeposition of functional alloy films from non-aqueous solution Yamamoto, Hiroaki, Eng
- ▶ Preparation of novel material using polymer Yusa, Shin-ichi, Eng

Application of simulation

- ▶ Optical circuit simulation and optimal design Morimoto, Keita, Eng
- ▶ Dynamic behavior analysis of bio-molecules using molecular simulation Hayashi, Haruhisa, Lai
- ▶ Effective utilization of supercomputers for material science Nakano, Hiroki, Sci
- ▶ Visualization of numerical data Ohno, Nobuaki, Ins
- ▶ Nonlinear data analysis Nakamura, Tomomichi, Ins
- ▶ Large scale simulation of plasma dynamics Numata, Ryusuke, Ins
- ▶ Modeling and simulation for complex fluids Yasuda, Shugo, Ins
- ▶ Interface science in nano-micro scale Washizu, Hitoshi, Ins
- ▶ Highly realistic VR (virtual reality) technology and VR technology to support urban development Shibano, Nobuyuki, Svc

Information communications

Internet of things, Network communication technologies

▶ High-performance microwave passive circuits	Kawai, Tadashi, Eng	▶ Future communication architecture and applied coding theory	Kurihara, Jun, Ins
▶ Evaluation of electromagnetic wave absorber and shielding material	Yamamoto, Shinichiro, Eng		

Artiicial intelligence, Information systems

▶ Development of automatic tracking system for the analysis of animal behaviors	Kimura, Toshifumi, Hse	▶ Machine learning, behavior analysis, interaction/time-series modeling	Kawashima, Hiroaki, Ins
▶ Information design based on search technologies	Ohshima, Hiroaki, Ins	▶ Image processing and pattern recognition	Hiura, Shinsaku, Eng
▶ Natural Language Processing, Data Mining, Information Retrieval	Yumoto, Takayuki, Ins	▶ Human intention/emotion estimation and their applications to robots	Yamazoe, Hirotake, Eng
▶ Data analysis and pattern recognition	Rashed, Essam, Ins	▶ Analysis of Plant Leaves using Image Recognition	Okuda, Moeri, Eng

Nanotechnology

Microfabrication and characterization

▶ Beam induced surface reaction, Secondary ion mass spectrometry	Moritani, Kousuke, Eng	▶ Photochemisitry and analysis using soft X-ray	Gejo, Tatsuo, Sci
▶ Modulation of the Physical Properties of Functional Oxide Materials by Precision Processings	Osaka, I., Ai, Eng	▶ Identification of crystalline materials by using micro-area diffraction	Hagiya, Kenji, Sci
▶ Development of photo- and redox functions of multimetallic coordination complexes and supramolecular assemblies	Abe, Masaaki, Sci	▶ Development of ultrafast spectroscopic methods for single molecules	Takeuchi, Satoshi, Sci
▶ Development of magnetic and luminescent chemistry in chiral multinuclear metal complexes	Takahara, Kazuma, Sci	▶ Development of single-molecule spectroscopic system using scanning tunneling microscopy	Aiga, Norihiro, Sci
▶ Chemical crystallography of photo-luminescent transition metal complexes	Ozawa, Yoshiki, Sci		

Superconductivity, Magnetic materials

▶ Numerical computations for condensed matter physics	Suzuki, Takafumi, Eng	▶ Search for new superconductivity and magnetism	Miyasaka, Shigeki, Sci
▶ Computational simulation study on quantum strongly correlated systems	Sakai, Toru, Sci	▶ Magnetism and superconductivity of strongly correlated materials	Kitatani, Motoharu, Sci
▶ Investigation on magnetism and superconductivity in materials under high pressure and low temperature	Kobayashi, Hisao, Sci	▶ Measurment and evaluation technique of nano-magnets	Yamaguchi, Akira, Sci
▶ Study of the mechanism of magnetism and superconductivity	Mito, Takeshi, Sci	▶ Investigation on magnetism and metal-insulator transition	Nagasawa, Nobumoto, Sci
▶ Elucidation and control of superconductivity, magnetism and thermoelectric properties	Nakai, Yusuke, Sci	▶ Quantum material properties under extreme conditions	Kawachi, Shiro, Sci
		▶ Microscopic study of topological properties	Fujii, Takuto, Sci
		▶ Exploration and Elucidation of Ultrafast Photoinduced Magnetic Dynamics	Takahashi, Ryunosuke, Sci

Nanostructure devices

▶ Preparation of ferroelectric thin films and their applications	Fujisawa, Hironori, Eng	▶ Development of functional materials using nanoparticles	Sato, Seiichi, Sci
▶ Creation of dye-nanoarray using DNA	Nakamura, Mitsunobu, Eng	▶ Organic Plasmonics and its application for optoelectronic devices	Komino, Takeshi, Sci
▶ Synthesis of 2D materials and device applications	Heya, Akira, Eng	▶ Evaluation of optical and thermal properties of plasmonic nanostructures	Setoura, Kenji,Eng
▶ Fabrication of nanostructures and their characterization by soft X-ray spectroscopy	Honda, Shin-ichi, Eng	▶ Separation of semiconducting carbon nanotubes and their applications	Fujii, Shunjiro, Eng
▶ Nanobiodevice that works with membrane proteins on a Si substrate	Sumitomo, Koji, Eng	▶ 2D materials-ferroelectrics composite electronic devices	Nakajima, Seiji, Eng
▶ Elucidation of physical properties and device applications of metal oxide/Si heterojunction	Fujitani, Kaito, Eng	▶ Control of the physical properties of organic and inorganic two-dimensional materials by electric field effect	Eguchi, Ritsuko, Sci

Application of synchrotron radiation

▶ Development of X-ray microscopes and applications	Kagoshima, Yasushi, Sci	▶ Evaluation of functional materials by photoemission spectroscopy	Haruyama, Yuichi, Ast
▶ Chemical state analysis of materials under high pressure using X-ray microscopes	Ozawa, Keisuke,Sci	▶ Materials analysis by near-ambient pressure hard X-ray photoemission spectroscopy	Suzuki, Satoru, Ast
▶ Time-resolved X-ray measurement using synchrotron radiation	Tanaka, Yoshihito, Sci	▶ Materials and devices analysis using X-ray absorption spectroscopy and development of novel X-ray analysis technique	Nakanishi, Koji, Ast
▶ The local strain estimation of semiconductor devices	Tsusaka, Yoshiyuki, Sci	▶ Synthesis of materials for advanced semiconductor devices and physical property analysis using synchrotron radiation	Yamakawa, Shinji, Ast
▶ Development of ultrafast magnetic imaging by soft x-ray	Wadati, Hiroki, Sci	▶ X-ray nano-micro processing	Amano, Sho, Ast
▶ Development of Compton scattering imaging by using high energy synchrotron radiation X-rays	Koizumi, Akihisa, Sci	▶ Applied materials research by soft X-ray spectromicroscopy	Ohkochi, Takuo, Ast
▶ Structural dynamics analysis on proteins using synchrotron radiation	Matsuura, Hiroaki, Sci	▶ Development of nanoscale deposition for EUV lithography	Naoki, Hayase, Ast
▶ Ultrafast spectroscopy using lasers and synchrotron radiation	Kaneshima, Keisuke , Sci		
▶ Material analysis using SR and synthesis of functional surfaces	Kanda, Kazuhiro, Ast		
▶ Soft-X-Ray imaging and analysis of materials using syncrotron light	Harada, Tetsuo, Ast		

Energy

Natural energy

▶ Crystalline silicon solar cells and related area	Arafune, Koji, Eng	▶ Development of particulate photocatalyst for artificial photosynthesis	Pan, Zhenhua, Eng
▶ Development of high-efficiency silicon solar cells	Yoshida, Haruhiko, Eng		
▶ Low temperature difference heat utilization	Yamaguchi, Yoshiyuki , Eng		

Energy conservation and storage

▶ Energy-conserving and environmentally-friendly thermofluid transport	Kimura, Fumiyoshi, Eng	▶ Cooling techniques for high-heat-flux removal	Hirokawa, Tomoki, Eng
▶ High-performance cooling technology for energy conservation	Kawanami, Osamu, Eng	▶ Separation processes and battery developement at high pressure	Maeda, Kouji, Eng

Energy conservation and storage

▶ Preparation of novel materials for energy storage	Matsuo, Yoshiaki, Eng	▶ Development of electrolyte materials for next-generation secondary batteries	Kakibe, Takeshi, Eng
▶ Development of high-efficiency thermoelectric devices	Mori, Hidenobu, Eng	▶ Evaluation and control of the dispersion state of slurry for various secondary battery electrodes	Satone, Hiroshi, Eng
▶ Development and evaluation of chemical processes based on crystallization technology	Yamamoto, Takuji, Eng	▶ Perovskite solar cells and hydrogen energy	Ito, Seigo, Eng
▶ Efficient hydrogen generation over skeletal metal catalyst	Nozaki, Ai, Eng		
▶ Innovation and investigation of next-generation secondary batteries	Inamoto, Junichi, Eng		

Low environmental impact materials

▶ Mechanical properties and strcture control of polymeric materials	Matsuda, Satoshi, Eng	▶ Application of waste products to microalgae cultivation	Itoh, Kazuhiro, Eng
▶ Solid electrolytes for battery, fuel cell, and chemical conversion applications	Mineshige, Atsushi, Eng		

Nuclear energy safety control

▶ Development of target injection system for nuclear fusion	Koga, Mayuko, Eng
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Biological science

Biophysics

▶ Generating artificial cells	Imataka, Hiroaki, Eng	▶ Time-resolved detection of biomolecular dynamics	Kubo, Minoru, Sci
▶ Energy transduction mechanism in biomembrane	Muramoto, Kazumasa, Sci	▶ Functional analysis and engineering applications of protein motors	Oiwa, Kazuhiro, Sci
▶ Cell-free protein synthesis	Machida, Kodai, Eng	▶ Structure-function relationship in sensor proteins	Tohda, Rei, Sci
▶ Structural biology of proteins related to cancer	Shibata, Naoki, Sci	▶ Molecular mechanism analysis of proteins using spectroscopic techniques	Sato, Wataru, Sci
▶ Structure-function relationship in metalloproteins	Tosha, Takehiko, Sci	▶ Protein Structural chemistry by using the neutron diffraction method	Nishikawa, Koji, Lai
▶ Structural analysis of molecular mechanisms of protein degradation pathways	Mizushima, Tsunehiro, Sci	▶ Gating mechanism of mechanosensitive channels	Nomura, Takeshi, Hse
▶ Vibrational spectroscopy of protein	Yanagisawa, Sachiko, Sci		
▶ Structural biology on chemical energy conversion of proteins	Ogata, Hideaki, Sci		

Plant cell biology

▶ Synthesis of useful biopolymers	Nakai, Tomonori, Sci	▶ The study for analysis of change of the inner structure of seeds during germination	Yamauchi, Daisuke, Sci
▶ Cell motility and the cytoskeleton	Yokota, Etsuo, Sci		
▶ Investigation on and application of photosynthetic function of microalgae	Kashino, Yasuhiro, Sci		

Animal cell biology

▶ Mechanism of genomic control during the cell cycle	Shiomi, Yasushi, Sci	▶ ER stress response and Golgi stress response (novel anticancer medicine)	Yoshida, Hiderou, Sci
▶ Biogenesis of membrane in the cell	Emi, Yoshikazu, Sci	▶ Stress adaptation mechanisms in extremotolerant animals	Kunieda, Takekazu, Sci
▶ Cellular functions of small GTPases	Oinuma, Izumi, Sci	▶ Molecular mechanism of the mammalian Golgi stress response	Sasaki, Kanae, Sci
▶ Mechanism of genome maintenance by proteolysis system	Hayashi, Akiyo, Sci	▶ Molecular mechanism of structual alteration in Golgi	Sakurai, Hajime, Sci

Neuroscience and developmental biology

▶ Planarian regeneration	Umesono, Yoshihiko, Sci	▶ Observation of Neural Circuits and Activity in the Mouse Brain	Yukinaga, Hiroko, Sci
▶ Stem cell behavior during regeneration	Shikaya, Yuuki, Sci	▶ Structure and function analysis of synapses	Nishino, Yuri, Sci
▶ Optogenetics: Development and function of the brain and the gut	Hatta, Kouhei, Sci	▶ Cellular and molecular mechanisms underlying early embryonic morphogenesis	Kidokoro, Hinako, Sci
▶ Structural physiology of the neural signaling by electron microscopy	Miyazawa, Atsuo, Sci	▶ Mechanisms of morphogenesis in <i>Drosophila</i>	Inaki, Mikiko, Sci
▶ Study of regeneration and stem cells using frog tadpole	Mochii, Makoto, Sci	▶ The study of neuronal development using Drosophila	Sakamura, So, Sci

Biomaterial chemistry

▶ Development of rapid, simple and sensitive biosensing systems	Yasukawa, Tomoyuki, Sci	▶ Nanodevice fusion for rapid monoclonal antibody production	Isozaki, Yushi, Sci
▶ Biomimetic Chemical Sensors and Biosensors by using Membrane Receptors	Suzuki, Masato, Sci		

Microorganism and infection

▶ Research of food microbiologies and food pathogens	Arimitsu, Hideyuki, Hse
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Other

▶ Analyses of non-coding RNA dynamics in eukaryotic cells	Yoshihisa, Tohru, Sci	▶ tRNA introns and cellular homeostasis	Hayashi, Sachiko, Sci
▶ Protein quality control and organelle homeostasis	Izawa, Toshiaki, Sci	▶ Effect of nutrient on animal mebablism	Kamisoyama, Hiroshi, Hse

Frontier

Earth, Space

▶ Impact assessment of climate change, assessment of urban heat island and possible adaptations	Oku, Yuichiro, Hse	▶ Researches on fossils of small amphibians and reptiles	Ikeda, Tadahiro, Nes
▶ Geohistory of the Asian continent including the Japanese Islands	Uno, Koji, Hse	▶ Phylogeny of non-avian dinosaurs and Mesozoic birds	Tanaka, Tomonori, Nes
▶ Highly accurate simulation of clouds and precipitation using the super-droplet method	Shima, Shin-ichiro, Ins	▶ Origin of elements in the universe	Honda, Satoshi, Nes
▶ Physics of Clouds and Climate	Yanase, Tomoro, Ins	▶ Aquatic Ecosystem and Paleoenvironment	Hirose, Kotaro, Nes
▶ Physics of Nonequilibrium Dissipative Systems: Granular Materials, Traffic Flow, and Oscillator Systems	Inagaki, Shio, Ins	▶ Nonlinear Phenomena in Pulsating Variable Stars	Ishida, Toshihito, Nes
▶ Observational study of star and planet forming regions	Ito, Yoichi, Nes	▶ Search for Extraterrestrial Intelligence (SETI)	Narusawa, Shin-ya, Nes
		▶ Geoscience and culture	Kawamura, Norihito, Rrm
		▶ Investigation of volcanic eruption based on the rock texture	Sano, Kyohei, Rrm
		▶ Weather numerical simulation and disaster dynamics	Taniguchi, Hiroshi, Drg

Frontier

Mathematical sciences

▶ Inverse problems in partial differential equations	Nagayasu, Sei, Sci	▶ Spectral and scattering theory of quantum mechanics	Tadano, Yukihide, Sci
▶ Nonlinear partial differential equations	Kato, Masakazu, Sci	▶ Moduli theory of connections	Komyo, Arata, Sci
▶ Probability theory	Hirano, Katsuhiro, Sci	▶ Hyperbolic geometry	Ushijima, Akira, Em
▶ Number theory	Yamauchi, Atsuo, Sci	▶ Mirror Symmetry	Shiraishi, Yuuki, Em
▶ Differential geometry and variational problems of curves	Kawakubo, Satoshi, Sci	▶ Schrödinger operators	Mikami, Keita, Ins
▶ Differential geometry of immersions of surfaces	Moriya, Katsuhiro, Sci		

Environment

Conservation of ecosystem

▶ Forest biology and environment	Ohashi, Mizue, Hse	▶ Assessment and management of invasive alien mammal species	Kuriyama, Takeo, Nes
▶ Simulation for ecology and environment	Nakagiri, Nariyuki, Hse	▶ Biodiversity of terrestrial arthropods	Yamasaki, Takeshi, Nes
▶ Lake ecology and material cycles	Kazama, Takehiro, Hse	▶ Wildlife population dynamics, plant-animal interactions	Takagi, Shun, Nes
▶ Biodiversity in forest ecosystems and its conservation	Ishida, Hiroaki, Nes	▶ Conservation and restoration of endangered species based on genetic information	Nakahama, Naoyuki, Nes
▶ Genetic diversity of endangered plants	Suzuki, Takeshi, Nes	▶ Larval ecology of marine invertebrates	Yorisue, Takefumi, Nes
▶ Biodiversity and evolution of insects	Yamada, Kazutaka, Nes	▶ Reintroduction biology including the oriental white stork restoration	Deguchi, Tomohiro, Rrm
▶ Ecology and taxonomy of fishes	Takahashi, Tetsumi, Nes	▶ Reintroduction of the Oriental white stork and conservation of the endangered birds	Funo, Takayuki, Rrm
▶ Ecosystem management in wetland and river	Mitsuhashi, Hiromune, Nes		
▶ Conservation of wildlife, reduction of conflict between humans and wildlife	Morimitsu, Yoshiki, Nes		
▶ Wildlife management and conservation	Yokoyama, Mayumi, Nes		

Environmental cleanup

▶ Environmental purification using useful microorganisms (biodegradation & bioremediation)	Takeo, Masahiro, Eng	▶ Environmental biotechnology using plants and microbes	Ishizawa, Hidehiro, Eng
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Environmental conservation

▶ Spatial analysis of ecosystem services and planning in residential neighborhoods with a mixture of green and agricultural land	Kishimoto, Keidai, Hse	▶ Utilization of plants in ornamental horticulture	Hinoue, Keiko, Ldm
▶ Study on the urban greenery and overseas afforestation	Oyabu, Takashi, Ldm	▶ Urban landscape planning and conservation	Iwasaki, Tetsuya, Ldm
▶ Conservation of rural and coastal vegetation	Sawada, Yoshihiro, Ldm	▶ Aquatic habitat conservation and restoration	Sagawa, Shiro, Rrm
▶ Conservation of vegetation landscape	Fujihara, Michiro, Ldm	▶ Conservation of threatened plants and animals	Naito, Kazuaki, Rrm
▶ Development of teaching materials for environment education	Takeyama, Hiroshi, Ldm	▶ Geodiversity, conservation and utilization of geological resources	Matsubara, Noritaka, Rrm
▶ Evaluation method of green landscape	Yamamoto, Satoshi, Ldm	▶ Vegetation conservation and management	Kuroda, Asumo, Nes
		▶ Conservation of forest and its soil ecology	Kodate, Seiji, Nes
		▶ Forest management and habitat management for wildlife	Fujiki, Daisuke, Nes

Life science

Medical engineering

▶ Computer-aided system for treatments for ophthalmology and internal medicine	Kamiura, Naotake, Eng	▶ Microfluidic systems for bio/chemical applications	Ukita, Yoshiaki, Eng
▶ Development of electrochemical and photochemical sensors for disease diagnosis	Takada, Tadao, Eng	▶ Artificial Intelligence in Medical and Healthcare Systems	Kobashi, Syoji, Ame
▶ Calculation and direct measurements of joint reaction forces	Higa, Masaru, Eng	▶ MEMS and medical IoT=IoMT(Internet of Medical Things)	Fujita, Takayuki, Ame
▶ Medical control systems, modeling of physiological functions	Furutani, Eiko, Eng	▶ Development in Medical Healthcare and Diagnosis Support System	Yagi, Naomi, Ame

Food and health

▶ Bioavailability and bioactivity of functional food components	Ishisaka, Akari, Hse	▶ Application of chrono-nutrition to the clinical and health care fields	Nagai, Narumi, Hse
▶ Research of clinical nutrition	Ito, Mikiko, Hse	▶ Association between diet/eating behaviors and health	Nakade, Makiko, Hse
▶ Oxidative stress and diseases: modulation by food components	Kato, Yoji, Hse	▶ Comprehensive metabolite analysis under inflammatory conditions and development of new therapies	Yoshida, Masaru, Hse
▶ Study on cooking properties and dietary habit	Sakamoto, Kaoru, Hse	▶ Resistant starch mixed foods of physical properties and palatability	Shimada, Ryoko, Hse
▶ Analysis of interaction between lipid metabolism and nutrients	Tanaka, Sarasa, Hse	▶ Research on timing of feeding and lipid metabolism	Hanzawa, Fumiaki, Hse
▶ Mechanisms underlying physiological functions and side-effects of food factors	Murakami, Akira, Hse	▶ Alternative model host in food microbiology	Komura, Tomomi, Hse
▶ Physical properties, palatability and chewability of Food	Yoshimura, Miki, Hse	▶ Physiological function and metabolism of micronutrients	Kaneko, Ichiro, Hse

Humancare

▶ Computer aided nursing-care quality improvement system	Nii, Manabu, Eng	▶ Development of shared decision support program for cancer patients	Kawasaki, Yuko, Nas
▶ How to build successful societies of longer lives	Uchida, Hayato, Hse	▶ Women's health care	Kudo, Yoshiko, Nas
▶ Care for breastfeeding mothers	Aizawa, Chie, Nas	▶ Oral health promotion	Sakashita, Reiko, Nas
▶ Regional healthcare collaboration, Disaster resilient home care	Ohno, Kaori, Nas	▶ Nursing care for elderly people with dementia and family caregivers	Takami, Miho, Nas
▶ Prediction and prevention of postoperative delirium	Ono, Hiroshi, Nas	▶ Education and nursing care on sleep	Tanida, Keiko, Nas
▶ Support for child-rearing women	Okamura, Kazuko, Nas	▶ Enhancing Public Awareness and Implementation of Advance Care Planning	Tominaga, Yuri, Nas
▶ Investigate to practical intelligence of expert nurse	Konishi, Miwako, Nas		
▶ Clarification of the practical knowledge of experienced nurses. Focus on daily living assistance	Otani, Chie, Nas		

Humancare

▶ Self-management in chronic pulmonary disease patient	Mori, Kikuko, Nas	▶ Nursing care for adolescents and young adults with cancer	Nishioka, Eina, Nas
▶ Nursing for the prevention of diabetes and PAD	Kataoka, Chiaki, Nas	▶ Nursing Interventions to promote more meaningful experiences for Elderly with Dementia	Tokuda, Sachiyo, Nas
▶ Nursing practice by skilled nurses for low self-esteem in type 2 diabetes patients	Mifune, Eri, Nas	▶ Care for person living with dementia	Nakasuji, Yoshiko, Nas
▶ Women's health and perinatal nursing care	Nomachi, Shinobu, Nas	▶ Nursing Care for Chronic Kidney Disease Patients Undergoing Dialysis	Shirahama, Kumi, Nas
▶ Women's health and perinatal nursing care	Kawamura, Mayuka, Nas	▶ Nursing care for post-intensive care syndrome	Toyoshima, Miki, Nas
▶ Women's healthcare and perinatal nursing care	Nagai, Tomo, Nas	▶ Nursing for children with severe motor and intellectual disabilities	Iida, Kazufumi, Nas
▶ Autonomy of Critical Care Nurses	Oe, Rie, Nas	▶ Educational support for operating room nurses	Okada, Nao, Nas
▶ Self-management of health in home settings	Omura, Kayoko, Nas	▶ Dental public health, inter-professional collaboration	Kinomoto, Shoko, Nas
▶ Nursing for hematopoietic stem cell transplant	Kiyohara, Hana, Nas		
▶ Nursing care of cancer patients undergoing radiation therapy	Asada, Hiromi, Nas		
▶ Nursing support for cancer patients undergoing treatment	Uchida, Megumi, Nas		

Healthcare

▶ Thermal barrier free in urban and building environments	Tsuchikawa, Tadahiro, Hse	▶ Continuing Professional Development	Okumura, Kazuyo, Nas
▶ Study on human body movement in sports and life activities	Fukuda, Koji, Hse	▶ Nursing informatics	Takami, Miki, Nas
▶ Supports for people with mental health problems and their families	Kawada, Miwa, Hse	▶ Electronic medical records and nursing functions	Nakanishi, Eiko, Nas
▶ Exercise science for human health	Shibata, Masashi, Hse	▶ Supports for people with mental health problems and their families, Education for psychiatric nurses	Nishiike, Eiko, Nas
▶ Nursing care for prevention of cardiovascular disease recurrence	Hamaue, Akiko, Hse	▶ Nursing care for dysphagia of patient with cerebrovascular disorder	Awamura, Kenji, Nas
▶ Development of efficient training programs for health promotion and physical fitness improvement	Mori, Hisashi, Hse	▶ Study on relationships of environmental and genetic factors with lifestyle-related diseases	Uemura, Hirokazu, Nas
▶ Effects of horticultural therapy on mental health / Utilization of therapeutic gardens in community	Kenmochi, Takuya, Ldm	▶ Oral care for elderly people with dementia	Nishitani, Miho, Nas
▶ Horticultural Therapy, Effects of plants and horticultural activities on human health	Tazaki, Fumie, Ldm	▶ Developing parent training program for foster parents and adoptive parents of children with developmental disorder	Furukawa, Emi, Nas
▶ Medical/Social care financial management	Kinoshita, Takashi, Ss	▶ Health education for school-aged children	Ando, Hitomi, Nas
▶ Knowledge extraction from medical data	Takemura, Tadamasa, Ins	▶ Phenomenological exploration of public health nurses' knowledge of practice, Care for tuberculosis patients	Shimamura, Tamae, Nas
▶ Assessment of psychosomatic state related to brain function and autonomic nervous system	Mizuno-Matsumoto, Yuko, Ins	▶ Human Resources and Career Development for Public Health Nurses	Furutani, Yuko, Nas
▶ Computational heart modeling, Biomedical simulation	Haraguchi, Ryo, Ins	▶ Child Maltreatment Prevention and Family Support	Ishii, Miyuki, Nas
▶ Disaster risk management for health & nursing management system	Mashino, Sonoe, Npc	▶ Mental health support for people with physical illness	Kikuchi, Natsu, Nas
▶ Study on Ebola Virus Disease, Cholera, and Mpox	Muzembo, Basilia, Andre, Npc	▶ Support for people with mental and physical illnesses	Matsumoto, Nao, Nas
▶ Development of a scale measuring the job satisfaction of Japanese hospital nurses	Muya, Makiko, Nas	▶ Midwifery and perinatal care	Shimizu, Junko, Nas
		▶ Midwifery and perinatal care	Suzuki, Noriko, Nas

Social infrastructure

Social infrastructure

▶ Regional and Architectural Planning Focused on Stakeholders	Tajima, Kimie, Ss	▶ Health promotion and technology in community	Hayashi, Chisato, Npc
▶ Building plan in stock based society	Yasueda, Hidetoshi, Hse	▶ Databased spatial analysis and visual presentation of spatial phenomenon	Kawamukai, Hajime, Ins
▶ Residential planning and design	Utaka, Yushi, Hse	▶ Theory and application of decision making under uncertainty	Entani, Tomoe, Ins
▶ Clarifying disaster process using psychological and social survey method	Kimura, Reo, Hse	▶ Landscape design	Shen, Yue, Ldm
▶ Theory of architecture	Mitamura, Tetsuya, Hse	▶ Architectural design utilizing Disaster Mitigation and Reconstruction Studies	Nagano, Yasuyuki, Drg
▶ Rural resource management and utilization	Miyake, Yasunari, Hse	▶ Building disaster information system for enhance of regional disaster reduction	Urakawa, Go, Drg
▶ Planning of space compositions in houses	Mizukami, Yutaka, Hse	▶ Urban and regional management for disaster resilience	Banba, Michiko, Drg
▶ City planning systems and practices for sustainable urban development	Ota, Naotaka, Hse	▶ Urban resilience and disaster management	Beniya, Shohei, Drg
▶ Seismic design for wooden structure	Shojo, Naoya, Hse	▶ Earthquake research for disaster resilience	Hirai, Takashi, Drg
▶ Building Environment, Building Equipment, Energy Conservation and Creation Building	Kim, Jeongil, Hse	▶ Rural planning & management of agricultural damage by wildlife	Yamabata, Naoto, Nes
▶ Ecological resilience and adaptive management	Yamase, Keitaro, Hse	▶ Management of social consensus building	Takada, Tomoki, Nes
▶ Semi-public conversion of small vacant lot	Yamamoto, Ayaka, Hse		
▶ Study on education for disaster mitigation, health promotion and medical technology assessment	Katayama, Takafumi, Nas		

Regional vitalization

▶ Regional revitalization utilizing art and culture	Takeda, Naoki, Ldm	▶ Planning and management of landscape utilizing local resources	Ohira, Kazuhiro, Nes
▶ Inclusive design for parks and outdoor recreation	Mino, Nobuyuki, Ldm	▶ Process planning for disaster revival	Sawada, Masahiro, Drg
▶ Evaluation of utilization structure in open space	Tsukada, Shinya, Ldm	▶ Disaster resilience and local governance	Aota, Ryosuke, Drg
▶ Preservation and management of cultural heritage in regional society	Nakai, Atsushi, Rrm	▶ Regional project development for taking over regional communityship	Uchihira, Takayuki, Svc
▶ Neighborhood organization and community	Yamamuro, Atsushi, Rrm	▶ Community-University Partnership for sustainable development of rural areas	Shibasaki, Kohei, Hse
▶ Building resilient local community for the natural disaster	Yagasaki, Taiyo, Rrm		
▶ Landscape planning and regional management by multi-sectoral governance	Akazawa, Hiroki, Nes		

Business

Schools & Institutes

Em: Economics and Management
Hse: Human Science and Environment
Nas: Nursing Art and Science
Ins: Information Science
Ss: Social Sciences

Drg: Disaster Resilience and Governance
Sds: Institute for Social Data Science
Ge: General Education
Svc: Institute for Innovation and Social Value Creation
Eng: Engineering

Economic theory, Econometrics

▶ Macroeconomics; Growth, technology and income distribution	Osumi, Yasuyuki, Em	▶ Equilibrium selection in dynamic games and its applications to collusions	Isogai, Shigeki, Em
▶ Experimental Econoimcs: Estimation and analysis of social preferences	Kwon, Hyoji, Em	▶ Theoretical analysis on regression model in econometrics	Kurumai, Hiroko, Em
▶ Economic growth theory	Kuwahara, Shiro, Em	▶ Spatial Competition	Nakagawa, Kuninori, Em
▶ Stochastic Growth	Tsuboi, Mizuki, Em	▶ Macroeconomic theory on demographic change, human capital accumulation and public policy	Hashimoto, Hioroyuki, Ss
▶ Axiomatic analysis of resource allocation problems	Sakai, Ryosuke, Em		

Economic history, History of economic thought

▶ History of economic thought	Matsuyama, Naoki, Em	▶ Asian economic history, China economic history, Travel industry of modern China	YI, Xingxing , Em
▶ Japanese and Asian Economic history, Development of the sugar industry	Osawa, Atsushi, Em		

Finance

▶ International monetary economics	Ito, Kunihiko, Em	▶ Empirical analysis of tax system	Kim, Youngrok, Em
▶ Banking business and payment systems	Yoshida, Yasushi, Em	▶ Enhancement of tax compliance	Saikawa, Koji, Ss
▶ Empirical research in monetary economics	Yamada, Kazuo, Em	▶ Finance, Financial engineering	Ochiai, Natsumi, Em

International economics, Development economics

▶ International economics, Theory of economic integration and growth	Ishiguro, Yasuko, Em	▶ International economics	Nishiyama, Hiroyuki, Em
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Public economics, Industrial organization, Social policy, Labor economics

▶ Comparative study of enterprise forms	Mikami, Kazuhiko, Em	▶ Economics of decision making under uncertainty	Shimizu, Takanori, Ss
▶ Empirical research on the labor market and the social security system in Japan	Yokoyama, Yukiko, Em	▶ Analyses of knowledge creativity based on large-scale data and network	Inoue, Hiroyasu, Ins
▶ Econometric analysis of educational inequalities	SANFO M.B. Jean-Baptiste,Em	▶ Simulation analysis of fiscal and social security policy	Kimura, Shin, Sds

Regional economics, Environmental economics

▶ Transport economics and urban economics	Koyama, Shinya, Em	▶ Cost-benefit analysis of climate change strategies by environmental-economic model	Nakajima, Kazunori, Hse
▶ Theory and empirical analysis of regional economics and environment	Tomono, Akihiko, Em		

Law

▶ Tax law	Hamada, Hiroshi, Em	▶ Economic administrative law and energy law	Kusanagi, Shinichi, Em
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International culture and communication

▶ Contrastive linguistics, English education	Kinshi, Kayoko, Em	▶ Media discourse analysis, Language and communication education	Kasuya, Michiko, Hse
▶ Historical Linguistics of Latin and some other languages	Nishimura, Kanehiro, Nas	▶ Study of prose fiction, stylistics, and English education	Teranishi, Masayuki, Hse
▶ Japanese fashion culture in contemporary global era	Onohara, Noriko, Em	▶ American literature and culture, English teaching	Nagira, Yuri, Hse
▶ Cultural anthropology, with a focus on Japanese culture and Japanese festivals	Tamas, Carmen, Em	▶ Linguistics, Phonetics, Interlinguistics	Huziwara, Keisuke, Hse
▶ Social anthropology of food, consumption, gender and employment	Stephanie, Assmann-Terada, Em	▶ Poetics of Art Projects	Sasaki, Miki, Hse
▶ English literature and culture, Modern Japanese history, History of science	Ishikura, Waka, Hse	▶ Public Relations Strategy, Media Management	Iseki, Takahiro, Hse
▶ Multicultural education, education in developing countries	Inui, Miki, Hse	▶ Contemporary Chinese history, Cultural exchange	Zheng, Cheng, Hse
		▶ Disaster Risk Communication	Sakamoto, Mayumi, Drg

Education, Psychology, History of thought, Sociology

▶ Japanese Intellectual History: Study on Discovery and Development of National Identity in Japan	Hoshiyama, Kyoko, Em	▶ Philosophy of Education, History of Educational Thought	Yamaguchi, Yuki, Hse
▶ Cognitive Neurolinguistics, Critical thinking	Allal-Sumoto, Takara Kenza, Em	▶ Educational and professional career of Japanese people, Curriculum	Ikedai, Masanori, Nas
▶ Clinical Psychology, Analytical Psychology, Psychotherapy Practice and Research	Inoue, Yasuko, Hse	▶ Phenomenology as a Qualitative Research	Kihira, Tomoki, Nas
▶ School guidance (support for children with various needs)	Takeuchi, Kazuo, Hse	▶ English education, Sociocultural theory	Mark, Taylor, Ge
▶ Narrative Identity Research on Friendship	Hosaka, Yuko, Hse	▶ Sociological Criminology, Disaster, Sociology, People with Functional Needs in Times of Disaster (PFND)	Matsukawa, Anna, Drg
▶ Padagogy, Education pollicy, Educaiton system	Ozaki, Kimiko, Hse		
▶ Ancient and Medieval Philosophy, Ethics, and Philosophy of Religion	Nishimura, Yohei, Hse		

Environment, Biology

▶ Environmental education	Nishikawa, Shoko, Ss	▶ Local policy studies and business support for achieving decarbonization and SDGs	Masuhara, Naoki, Hse
▶ Utilization of microbial resource	Enokibara, Shogo, Em		
▶ Conservation of ecosystem	Itoh, Masayuki, Hse		

Information Science

▶ Utilization and Suppression of Randomness in Algorithms: A Control Theoretical Perspective	Wada, Takayuki, Eng	▶ Design and analysis of efficient algorithms and their limits	Tamaki, Suguru, Ins
▶ Analysis on governmental statistical data, Database construction	Furuzumi, Hiroki, Ins	▶ Design and analysis of algorithms for combinatorial problems	Miyazaki, Shuichi, Ins
▶ Constructing algorithmic foundations towards real-world applications	Higashikawa, Yuya, Ins	▶ Computational Origami, Algorithm Design for Discrete Structures	Shiota, Takumi, Ins
▶ Theory of Algorithms: Satisfiability Problems, Network Algorithms, Mathematical Puzzles	Teruyama, Junichi, Ins	▶ Information Retrieval for Big Data	Yamamoto, Takehiro, Ins
		▶ Behavioral and psychological modeling in social media and recommendation design	Hijikata, Yoshinori, Ins

Health and sports science

▶ Health and sport sciences	Ikarugi, Hideo, Em	▶ Sport management: Consumer behavior in sport industry	Matsumura, Kouki, Em
▶ Sport sociology, Sports promotion policy, Regional revitalization through sports	Ito, Katsuhiro, Em	▶ Sport management and sport psychology: Leadership	Takamatsu, Shohei, Em

Healthcare management

▶ Healthcare management	Koyama, Hideo, Ss	▶ Empirical research on verification of the effect of public hospital reforms	Urayama, Takeshi, Em
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Mathmatics, Statistics

▶ Statistical inference for singular models	Moritani, Yoshiya, Em
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Small & medium enterprises, Regional innovation

▶ Urban policy, urban regeneration, economic geography	Wada, Mariko, Em	▶ Socio-economic geography and regional community	Sugiyama, Takeshi, Hse
▶ Research on the organization management associated with industry-academia collaboration work	Kotera, Michiaki, Ss	▶ Welfare sociology	Takebata, Hiroshi, Hse
▶ Study on policy of SMEs and innovation	Yajima, Satoshi, Ss	▶ Study on evaluation of urban competitiveness	Ochi, Masashi, Svc
▶ Theoretical and empirical research for the tourism industry	Eguchi, Yoshiaki, Hse		

Distributive trade, Commerce, Marketing

▶ Revitalization of local commerce, dereguration effect on distribution system	Kamise, Shoji, Em	▶ Consumer perception and behavior, Psychology-based marketing, Tourism issues	Binh, Nghiệm-Phú, Em
▶ Marketing for SMEs (Small and Medium-sized Enterprises) and entrepreneurs	Komiya, Kazutaka, Em	▶ Research on consumer choice in insurance and its influential elements	Tanaka, Takashi, Em
▶ Marketing, Consumer behavior	Ye, Mingqi, Em	▶ Marketing strategy and interorganizational relationships	Akiyama, Shuichi, Ss

Strategic management, Global business

▶ Strategy and organization for technological and social innovation	Toma, Katsuo, Ss	▶ Profit based business model innovation	Kawakami, Masanao, Em
▶ International business and strategy	Uchida, Yasuro, Ss	▶ International management	Yamaguchi, Takahide, Em
▶ Innovation Management	Nakamura, Tomoya, Em	▶ Japanese manufacturing management	Nagasato, Kenji, Em
▶ Internationalization strategy and capability building of emerging market multinational enterprises	Gong, Yuanyuan, Em	▶ Psychology of entrepreneurship, International entrepreneurship, Organizational behavior and entrepreneurial orientation	Khalid, Saddam, Em

Organizational management

▶ Organizational justice and telework ; Working at home	Kano, Ikuya, Em	▶ Research on the behavior of bridge personnel in multinational companies	Ohno, Yoko, Em
▶ Empirical study on retention management of care-giving workers	Takashina, Toshinori, Em	▶ The Management Consulting and Planing for The Sustainable Nursing Business	Ide, Kenjiro, Ss

▶ Mathematical optimization: Integer programming and combinatorial optimization	Fujie, Tetsuya, Ins	▶ Coordination of organizations in introducing information systems	Nishide, Akihito, Ins
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▶ Accounting standard-setting process	Tsujikawa, Naoki, Em	▶ Aligning accounting information systems with business strategy	Hayashi, Masahiko, Ss
▶ Cash flow accounting	Tsuchida, Toshiya, Ss	▶ Usefulness of accounting information	Masumura, Noriko, Ss
▶ Auditing , Assurance engagement	Watanabe, Yasuhiro, Ss		

► Environmental change and budgeting

▶ Applying business accounting theory in the governmental field	Tsudoku, Yoichiro, Em	▶ Accounting system and performance measurement on public sector	Kawarada, Saki, Ss
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Schools & Institutes

Eng: Engineering
 Sci: Science
 Ins: Information Science
 Ast: Advanced Science and Technology for Industry

Nes: Natural and Environmental Sciences
 Npc: Nursing Care for People and Community
 Ge: General Education

▶ Data-driven control	Sato, Takao, Eng	▶ Control System Design Theory with Applications to Smart Systems	Minami, Yuki, Eng
▶ Development of network tele-microscopy observation system	Nagase, Takeshi, Eng	▶ Development of deep learning surrogates for	

▶ Wireless communication technology: radio waves, hardware, applications	Aikawa, Satoru, Eng	▶ Analysis on time series signal based on machine learning	Isokawa, Teiji, Eng
▶ AI Visual Inspection System	Morimoto, Masakazu, Eng	▶ Network Security	Tanaka, Toshiaki, Ins

▶ Theoretical material design of superconductors and carbon-based nano-devices	Kusakabe, Koichi, Sci	▶ QX×DX in research of superconducting phenomena and mechanism	Kaneyasu, Hirono, Sci
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▶ Eco-friendly electric/electronic devices and materials for sustainable energy management	Ueno, Hideaki, Eng	▶ Nonlinear Control Theory and Its Application to Energy Systems	Hoshino, Hikaru, Eng
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► Molecular dynamics simulation for biomolecules Oshima, Hiraku, Sci

▶ Geophysical exploration for Earth's resources, disaster and environment	Goto, Tada-nori, Sci	▶ Development of technology to facilitate digitization of specimens in natural history museums	Takano, Atsuko, Nes
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▶ Medical, non-destructive testing, and health care systems	Hata, Yutaka, Ins	▶ Data Utilization and Assessment in Exercise and Sports	Kondo, Ryosuke, Ge
▶ Biodata-driven neuropsychiatric research	Go, Yasuhiro, Ins	▶ Motion Analysis for Human and Objects with AI	Nagamune, Kouki, Eng
▶ Development of a telemedicine system and a program for human resource development in child healthcare using ICT	Honda, Junko, Npc		

▶ Data science and its application to social and economic big data

► Methodologies for risk analysis based on Bayesian theories
Kaise, Toru, Ins

► Ontology Engineering and its Applications
Sasajima, Munechiko, Ins

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