

University of Hyogo

Scholars map

~technology~

Department abbreviated title

- (Eng) Graduate School of Engineering
- (Sci) Graduate School of Material Science • Graduate School of Life Science
- (H.E) School of human science and environment
- (Nur) College of nursing art and science
- (App) Graduate School of Applied Informatics
- (Sim) Graduate School of simulation studies
- (Gre) Graduate School of Landscape Design and Management
- (R.M) Graduate School of Regional Resource Management
- (Ad) Laboratory of Advanced Science and Technology for Industry
- (Nat) Institute of Natural and Environmental Science
- (R.I) Research Institute of Nursing Care for People and Community
- (C.E) Center for General Education
- (LAIC) Library and Academic Information Center

University of Hyogo
Institute for Research Promotion and Collaboration



Much research is proceeding at University of Hyogo. However, it was not clear who can solve a problem and what kinds of research seeds exist.

This scholars map introduces research simply, and helps researchers and engineers in enterprise. I hope this map will be a chance to start collaborations between enterprises and University of Hyogo.

generic technology

- Research on the vibration isolators (Eng • T.Asami)
- Development of rotational machines using gas bearings (Eng • T.Ise)
- Development of collision energy absorption member (Eng • K.Kaizu)
- Dissimilar joining technology by friction heat (Eng • M.Kimura)
- Strength evaluation of bonded interface (Eng • M.Kusaka)
- Microwave Functional Devices (Eng • Y.Kokubo)
- dynamic / static control systems (Eng • T.Sato)
- Investigation of microstructural behavior on the interface formed by diffusion bonding (Eng • M.Tsukamoto)
- Development of high-reliability ceramic coating technology (Eng • M.Nakatani)
- Creation of functional thin films using electrochemical methods (Eng • N.Fukumuro)
- Synthetic Organic Chemistry • Development of Asymmetric Reactions (Sci • T.Misaki)
- Organic Synthesis and Catalysis (Sci • T.Sugimura)
- Organic Chemistry (Sci • M.Fujita)
- Design of electromagnet for synchrotron using 3D calculations (Ad • Y.Shoji)
- Control technology of the electron accelerator for radiation sources (Ad • S.Hashimoto)

ferrous metal • nonferrous metal

- Mechanical properties and deformation behavior of steels (Eng • N.Tsuchida)
- Creation and dynamic character of Ultrafine-grained Metal (Eng • S.Toriduka)
- Deep drawing, Shot peening (Eng • Y.Harada)
- Microstructure control on non-ferrous alloys (Eng • A.Yamamoto)

new material

- Preparation and characterization of functional thin solid films (Eng • S.Inoue)
- superconducting materials (Eng • D.Okai)
- Synthesis, characterization, and properties of functional ceramics (Eng • T.Kikuchi)
- Nanocomposite Insulation Technology (Eng • M.Nagata)
- Research of organic pi-conjugated molecules for molecular response systems (Eng • J.Nishida)
- Evaluation and development of metallic biomedical materials (Eng • E.Miura)
- Development of High strength nanocrystalline alloys and thier microforming (Eng • T.Yamasaki)
- Development of organic multifunctional materials (Sci • H.Akutsu)
- Development of Organic Functional Materials (Sci • J.Yamada)
- Design and creation of environmentally benign materials (H.E • R.Fukae)

processing • measurement

- Applications using biosignal processing such as EMG prosthetic hand system and BCI-based rehabilitation system (Eng • N.Araki)
- The Generation and Application of High-Power Pulsed Sputtering Plasmas (Eng • K.Azuma)
- Evaluation of tribological properties of thin hard coatings (Eng • M.Abo)
- Precision and micro cutting technology of metal materials (Eng • K.Okuda)
- Laser interferometry for precision engineering metrology (Eng • S.Kakunai)
- Thin film preparation and surface modification using atmospheric pressure plasmas (Eng • Y.Kikuchi)

- Basic Research on Nonlinear Vibration (Eng • M.Kuroda)
- Measurement and Control in Mechanical Engineering (Eng • Y.Konishi)
- Nano-processing with cluster ions (Eng • N.Toyoda, I.Yamada)
- Laser forming (工 • M.Nunobiki)
- Micro Electro Mechanical Systems (MEMS) and sensors (Eng • K.Maenaka)
- Investigation of pulse discharge characteristic and the applications (Eng • S.Okada)
- High power laser and microprocessing (Ad • S.Amano)

new functionality element

- Application to the electronic devices of organic molecules (Eng • M.Onoda)
- Photo-, thermo, and mechanical-responsible polymer/liquid crystal (Eng • N.Kawatsuki)
- Piezoelectric MEMS technology (Eng • K.Kanda)
- Micropump driven by electric field or magnetic field (Eng • H.Kumamaru)
- Photoinduced change in micro- and macroscopic properties of functional polymers (Eng • M.Kondo)
- Prevention of Powder adhesion using nanoparticle coating (Eng • M.Suzuki)
- Conducting Polymers (Eng • K.Tada)
- Nano materials structure and function control and their mechanical property measurement (Eng • T.Namazu)
- Electroless Plating (Eng • S.Yae)
- the preparation of functional alloy films by electrolysis in nonaqueous solution (Eng • H.Yamamoto)
- Preparation of new functional materials using polymers (Eng • S.Yusa)
- Development of Novel Multifunctional Metal Complexes (Sci • M.Mitsumi)

simulation practical use

- Application of high performance computing to industry (Eng • K.Kuramoto)
- Development of Technique for Numerical Simulation (Eng • A.Saito)
- behavior analysis of biomolecular systems using computer simulation (LAIC • H.Hayashi)
- Material-science study by effective use of supercomputers (Sci • H.Nakano)
- Numerical Data Visualization (Sim • N.Ohno)
- time series modelling and feature analysis of time series (Sim • T.Nakamura)
- Large scale simulations of plasmas (Sim • R.Numata)
- Simulation of Complex Fluids (Sim • S.Yasuda)



wave absorber



myoelectricity artificial arm

image processing

- Image Processing and Pattern Recognition (Eng • M.Morimoto)
- The tracking system of multiple individuals for analyzing ecological images (H.E•T.Kimura)

network

- wireless communication technology: radio wave • wireless system • (wireless) application (Eng • S.Aikawa)
- Microwave Photonics Technologies (Eng • A.Enokihara)
- High-Performance Microwave Passive Components (Eng • T.Kawai)
- Electromagnetic wave absorption and shielding (Eng • K.Hatakeyama)
- Analysis and Search of Information on the Web (Eng • T.Yumoto)
- Evaluation of Electromagnetic Wave Absorber and Shielding Material (Eng • S.Yamamoto)

communication

- Development of Web Information Systems and Social Information Services (H.E•K.Sumiya)
- ubiquitous embedded system software (App•Y.Nakamoto)
- Assistive Software System (App•Y.Rikiso)

information control system

- Computational Intelligent Theory and Its Application Systems (Eng • N.Matsui)
- Self-adaptive systems based on biological information processing (Eng • T.Isokawa)
- Analysis and application of information processing in biological systems (H.E•H.Ikeno)
- Reasoning based Intelligent Systems (H.E•K.Nakamatsu)
- High Credible Data Science and Intelligent Systems Science (App•H.Nishimura)



A small wind power generation with low wind velocity

natural energy

- crystalline silicon solar cells (Eng • K.Arafune)
- biomass power generation by facilitation for methane fermentation of sewage sludge (Eng • K.Itoh)
- Cost-Effective Solar Cells by Printing Technology (Eng • S.Ito)
- MEMS energy harvester (Eng • T.Fujita)
- Study on crystallized thin films for novel solar cell (Eng • N.Matsuo)
- Small temperature difference heat utilization technology (Eng • Y.Yamaguchi)
- Development of high efficiency silicon solar cell (Eng • H.Yoshida)

saving energy • a battery

- Ecological and sustainable electric power transport system (Eng • H.Ueno)
- Energy-saving and Eco-friendly Heat Transfer (Eng • F.Kimura)
- High performance heat transfer for energy-saving (Eng • O.Kawanami)
- Chemical Engineering • Crystallization Technology • Transport Phenomena (Eng • K.Fukui)
- DEVELOPMENT OF HIGH PERFORMANCE HEAT EXCHANGER (Eng • I.Honda)
- Separation and Crystallization of Environmental Substances and Battery's Substances (Eng • K.Maeda)
- Development of Thin-film Lithium-ion Battery (Eng • Y.Oka)
- Preparation of novel materials for energy storage (Eng • Y.Matsuo)
- Development of Thermoelectric Conversion Devices (Eng • H.Mori)
- Synthesis of nanoporous materials and application to chemical processes (Eng•T.Yamamoto)

low loading environmental materials

- Preparation and analysis of polymer electrolyte (Eng • T.Kakibe)
- Organic semiconductors for solar cells and EL displays (Eng • T.Kawase)
- High Performance / High Functional Polymer Materials (Eng • H.Kishi)
- Development of nanopillar-type multiferroic devices (Eng • M.Kobune)
- Study on cathode materials for Li-ion batteries (Eng • T.Nakamura)
- Structure Control and Evaluation of Mechanical Properties on Polymeric Materials (Eng • S.Matsuda)
- Development of novel solid electrolytes and their electrochemical applications (Eng • A.Mineshige)
- Development of advanced glass (Eng • T.Yazawa)
- Analysis of compound semiconductors using synchrotron radiation (Ad•M.Niibe)

nuclear energy safety control

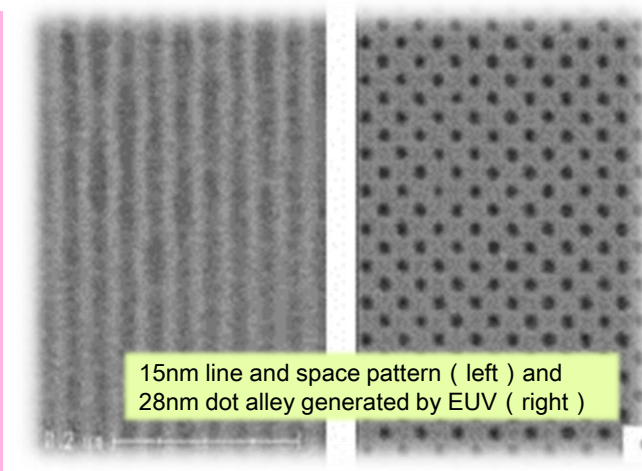
- Development of advanced target for fast ignition experiment (Eng • M.Koga)
- Fueling for magnetic fusion reactors (Eng • N.Fukumoto)
- Chemical Thermodynamics of Nuclear Fuel Waste Management (Eng • M.Morishita)

micromachining • physical properties evaluation

- quantum electromagnetic forces acting on microstructures (Eng • N.Inui)
- Development of Ion implantation with low energy (Eng • T.Sekioka)
- nanofabrications and measurements at surfaces by quantum beams (Eng • K.Mochiji)
- Beam induced surface reaction (Eng • K.Moritani)
- Solid State Chemistry of Photofunctional Transition Metal Complexes (Sci • Y.Ozawa)
- Soft X-ray photochemistry (Sci • T.gejo)
- Identification of crystals in micrometer-size area (Sci • K.Hagiya)
- Optical measurements of semiconductor devices for generating and detecting terahertz electromagnetic waves (Sci • T.Hasegawa)
- Studies of reactivity of transition metal atoms (Sci • K.Honma)
- 3D micro/nano-imaging (Sci • Y.Mineyuki)
- Nanofabrication by nanoimprinting and electron beam lithography (Ad • M.Okada)
- Nanofabrication using ion-beam and nanoimprint (Ad • S.Matsui)

superconductivity • magnetic materials

- Synthesis and Characterization of Functional Particles, Functional Fibers, Photocatalyst, Electromagnetic Materials (Eng • K.Iimura)
- Theoretical study on strongly correlated electron systems (Eng • S.Suga)
- Theoretical study for strongly correlated materials (Eng • T.Suzuki)
- Fabrication and characterization of nanosized ferroelectrics (Eng • H.Fujisawa)
- Study of electrical conductivity and magnetism in superconductor and related materials (Sci • S.Ikeda)
- Optical pumping and NMR detection of hyperpolarized matter (Sci • K.Ishikawa)
- Inducement mechanisms of magnetic and superconducting materials (Sci • K.Ueda)
- Theoretical Study of Proximity Effect on Superconductivity (Sci • H.Kaneyasu)
- Preparation and characterization of functional magnetic multi-layer (Sci • A.Koizumi)
- Magnetism and electrical conductivity (superconductivity) in compounds under pressure (Sci • H.Kobayashi)
- Mechanisms of Magnetism and Superconductivity (Sci • T.Mito, T.Koyama)
- Basic theory of electrical conduction through nano system (Sci • N.Shima)
- Superconductivity appearing at extremely cold temperatures (Sci • A.Sumiyama)
- Theoretical studies on magnetism of itinerant electron magnets (Sci • Y.Takahashi)
- Theoretical study for creation of new superconductors and organic conductors (Sci • Y.Hasegawa)
- Measurement and evaluation technology of micro magnets (Sci • A.Yamaguchi)



nano device

- Physical properties of ferroelectric nanostructures (Eng • M.Shimizu)
- Development of DNA-based nanodevices (Eng • T.Takada)
- Environmental-friendly lead-free ferroelectric materials and devices (Eng • S.Nakashima)
- Development of dye-nanowires using nucleic acids (Eng • M.Nakamura)
- Development of fundamental technologies for battery-less device (Eng • Y.Nara)
- Synthesis of novel semiconductor thin films (Eng • A.Heya)
- Synthesis of nanostructured carbon materials and its characterization by soft x-ray spectroscopy (Eng • S.Honda)
- Creation of extremely high-density conditions and development of functional materials (Sci • Y.Akahama)
- Development of functional materials containing nanoparticles (Sci • S.Sato)
- Studies on Organic Thin-film Devices (Sci • H.Tajima)
- Structural chemistry of metal complexes (Sci • K.Toriumi)
- Synthesis, characterization and application of photofunctional nanomaterials (Sci • H.Yao)
- Development of Organic Semiconductors with High Mobility (Sci • J.Yamada)
- Investigation on nano/microsystem fabricated by artificial composite materials (Ad • A.Yamaguchi)

synchrotron radiation use

- Synchrotron-radiation soft X-ray analysis and evaluation of functional materials (Eng • Y.Muramatsu)
- Development of X-ray microscopes and their applications (Sci • Y.Kagoshima)
- X-ray microscopy and nanoscopy (Sci • H.Takano)
- Structural dynamics in materials probed by time-resolved X-ray diffraction (Sci • Y.Tanaka)
- Local strain measurements of semi conducting devices (Sci • Y.Tsusaka)
- Creation of extremely high-density conditions (Sci • H.Fukui)
- Material analysis using synchrotron radiation and creation of functional surface (Ad • K.Kanda)
- Industrial application of synchrotron radiation (Ad • H.Kinoshita)
- soft-X-ray nanometrology and its application (Ad • T.Harada)
- Photoemission analysis of materials comprised by light element (Ad • Y.Haruyama)
- Quantum beam (the electron, gamma-ray and THz-ray beam) generation and radiation use technology (Ad • S.Miyamoto)
- SR Fine Processing and new material development for fine patterning (Ad • T.Watanabe)

biophysics

- Synthesis of artificial viruses and proteins (Eng•H.Imataka)
- Protein folding (Eng•K.Machida)
- What is life? - The mechanism of protein function (Sci•T.Ogura)
- Structural biology of signal transduction proteins associated with cancer (Sci•N.Shibata)
- Structural biology of the metalloproteins and their maturation proteins (Sci•Y.Shomura)
- Spectroscopic analysis of protein function (Sci•S.Tuzi)
- Structural chemistry of the proteins responsible for hydrogen energy metabolism (Sci•Y.Higuchi)
- Explication of the functional mechanism of enzymes at atomic level (Sci•H.Shimada)
- Structural and functional analysis of proteins using structural biological approach (Sci•T.Mizushima)
- Computational Bioscience Biological Informatics (Sci•M.Tateno)
- Structure and function of the mitochondrial respiratory complexes (Sci•K.Itoh(Shinzawa))
- Study on clean and efficient bioenergetics system (Sci•K.Muramoto)
- Vibrational spectroscopy on protein (Sci•S.Yanagisawa)
- Exploring competence of life phenomena driven by chemical reactions (Sci•S.Yoshikawa)

plant cell control

- Function of cytoskeleton and stress response in plants (Sci•T.Shimmen)
- Mechanism of motility in unicellular organisms and cytoskeletons in plant cells (Sci•S.Sonobe)
- Synthesis of useful biopolymers (Sci•T.Nakai)
- Plant Physiology: Cell Motility and Cytoskeleton (Sci•E.Yokota)
- Elucidation of photosynthetic mechanisms using micro-algae (Sci•Y.Kashino)
- Analysis of regulatory mechanism of response of plant hormones (Sci•D.Yamauchi)

animal cell control

- Fat metabolism: regulation and pathology (Sci•T.Osumi)
- Genomic control during the cell cycle progression (Sci•Y.Shiomi)
- Cell cycle control of genome integrity (Sci•H.Nishitani)
- Nuclear organization and regulation of gene expression (Sci•F.Hirose)
- Integration and folding of proteins in the biological membrane (Sci•Y.Kida)
- Biomembrane formation in the cell (Sci•M.Sakaguchi, Y.Emi)
- Organelle autoregulation (Sci•H.Yoshida, M.Taniguchi)
- Studies of lipid droplet-binding proteins in the steroid-producing tissues (Sci•F.Sakai)

a cranial nerve•behavior•growth and regeneration

- Regeneration in planarians (Sci•Y.Umesono)
- Functional analysis of brain neural circuit (Sci•M.Nakagawa)
- Development of neural tissue in vertebrates (Sci•M.Nikaido)
- Optogenetics & Live-imaging to study the Brain Development & Function (Sci•K.Hatta)
- Functional and structural analysis of synapses in neurons (Sci•Y.Fukunaga)
- Structural Physiology of Neural Signaling by Electron Microscopy (Sci•A.Miyazawa)
- mechanisms of animal regeneration and development (Sci•H.Orii)
- Regeneration and stem cell research using frog tadpole (Sci•M.Mochii)

biological material chemistry

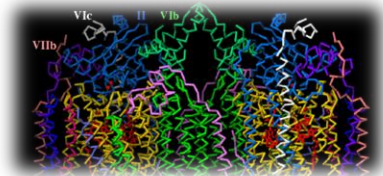
- Biotransformation (Eng•D.Kato)
- Screening and development of useful biocatalysts (Eng•S.Negoro)
- Development of biosensing systems (Sci•F.Mizutani, T.Yasukawa)
- Studies on the functions of blood proteins (Sci•S.Wakabayashi)

geophysics

- Metamorphic petrology (Sci•A.Goto)
- Seismicity and Constitution of the Earth and Planets (Sci•H.Sato)
- The structural and physical properties of materials deep within the Earth (Sci•M.Matsui)
- direct simulation of clouds using the super-droplet method (Sim•S.Shima)
- vertebrate fossils from Hyogo Prefecture (Nat•H.Saegusa)
- Astronomical Optics & Image processing (Nat•F.Tsumuraya)
- Astronomical Observations of Star and Planet Forming Regions (Nat•Y.Itoh)

mathematical sciences

- Spectral properties of Dirac operators (Sci•T.Umeda)
- inverse problems in partial differential equations (Sci•S.Nagayasu)
- Probability (Sci•K.Hirano)
- The geometric structures of projective embeddings of projective varieties (Sci•T.Fujiwara)
- Harmonic Analysis (Wavelet Analysis) (Sci•T.Hoshiro)
- Number theory (Sci•A.Yamauchi)



X-ray structural analysis of bovine heart cytochrome oxidase



Nishi-Harima
Astronomical Observatory



Hyogo Prefectural Homeland for the
Oriental white Stork

the natural environment protection

- Relationship between forest living organisms and environment (H.E•M.Ohashi)
- Mechanisms maintaining freshwater biodiversity (H.E•I.Katano)
- Characterization and Dynamics of dissolved organic matter in natural waters (H.E•Y.Sugiyama)
- Simulation in ecology and environment (H.E•N.Nakagiri)
- Ecology of the dynamic interaction system between humans and nature (R.M•Y.Ezaki)
- Reintroduction of the Oriental White Stork in coexistence with humans (R.M•Y.Osako)
- Environmental impact assessment, Identification of cryptogams (bryophytes) (Nat•H.Akiyama)
- Conservation and restoration of forest biodiversity (Nat•H.Ishida)
- Historical biogeography of Reptiles and Amphibians (Nat.H.Ohta)
- Conservation of algal diversity and freshwater ecosystems (Nat•H.Sato)
- Genetic Diversity of Endangered Plants (Nat•T.Suzuki)
- Diversity analysis and valuableness assessment of the plant (Nat•A.Takahashi)
- Ecosystem management and restoration of rivers and wetlands (Nat•H.Mitsuhashi)
- Reduction of friction to humans and wildlife conservation (Nat•Y.Morimitsu)

environment purification

- Novel filtration and waste water treatment system with high performance and low energy consumption (Eng•H.Satone)
- Bioremediation (Eng•M.Takeo)
- Removal of hazardous substances such as cesium (Eng•H.Nishioka)
- Analysis of environmental pollutants and environmental education (H.E•T.Kumagai)

environment conservation

- Studies of urban greenery and overseas afforestation technology (Gre•T.Oyabu)
- conservation of natural and semi-natural grassland (Gre•Y.Sawada)
- Conservation of vegetation landscape (Gre•M.Fujihara)
- Development of Teaching Material for Environmental Education (Gre•H.Takeyama)
- evaluation method for green landscape (Gre•S.Yamamoto)
- Utilization of the San'in Kaigan Geopark (R.M•H.Inokuchi)
- Floodplain ecosystems: Implications for ecological conservation and restoration (Nat•S.Sagawa)
- conservation and utilization of geological resources (R.M•T.Sakiyama)
- Conservation of threatened plants and animals (R.M•K.Naito)
- Geological diversity of Sanin geo-park (R.M•N.Matsubara)
- Damage management and conservation of wildlife (S.Nakamura)
- conservation and appropriate management of vegetation (Nat•A.Kuroda)
- Conservation and the soil condition of forest (Nat•S.Kodate)
- Research and conservation of insect biodiversity (Nat•Y.Hashimoto)
- Forest ecosystem management for wildlife (Nat•D.Fujiki)

social infrastructure

- architectural planning for stocked society (H.E•H.Yasueda)
- Residential Design (H.E•Y.Utaka)
- School and Child Support Technology (H.E•K.Ozaki)
- Measurement and assistive method of recovery and reconstruction process in the disaster affected areas (H.E•R.Kimura)
- A sociological study of family and the elderly's quality of life (H.E•H.Sato)
- Study on Life Support System for the Elderly Living at Home (H.E•T.Tanaka)
- Urban planning and land use control (H.E•T.Fukushima)
- New methods for architecture and municipal engineering (H.E•T.Mitamura)
- Regional resource management in rural area (H.E•Y.Miyake)
- Quality improvement of health nursing and diffinition of speciality (Nur•M.Shiomi)
- Community health nursing and care system in disasters and health emergency management (Nur•Y.Ushio)
- Education for disaster mitigation, Health Promotion and Assessment of Medical Technology (Nur•T.Katayama)
- A try for analyzing of mother's difficulty having an autistic child (Nur•K.Komaki)
- Mathematical Analysis and Visualization of Spatial Phenomina (App•H.Kawamukai)
- Group decision making support system by modeling (App•T.Entani)
- Structural design of the buildings for safe and secure (Sim•Y.Nagano)
- Methods to Improve Local Disaster Prevention which Utilizes Open Space (Gre•Y.Saito)
- Study on Landscape Design (Gre•Yue Shen)
- Urban Planning Harmonized with Nature (Gre•F.Hirata)
- Building Information System for Disaster Reduction (C.E•G.Urakawa)
- Safety management of urban and regional area (C.E•M.Banba)

Regional revitalization

- design of community engagement for social entrepreneurship (H.E•T.Uchihira)
- Realization of Safe and Secure Local Society by utilizing Information and Communication Technology (App•M.Arima)
- Regional revitalization utilizing art and culture (Gre•N.Takeda)
- Reproduction of area using green, history and culture (Gre•M.Hayashi)
- Environments and Products for all people (Gre•N.Mino)
- Preservation and use of historical and cultural heritage in region (R.M•A.Nakai)
- Continuing community regeneration as the relation between people and places (R.M•Y.Yamazaki)
- Creation of local residents organization and community (R.M•A.Yamamuro)
- Community Formation through Landscape and Park Management (Nat•H.Akazawa)
- creating coexistence between local communities and wildlife (Nat•K.Suzuki)
- Regeneration of Urban and Nature-rich Residential Area (Nat•N.Tahara)
- Support for Citizen-Participated Public Facilities Management (Nat•M.Fujimoto)
- Reconstruction of the Earth's magnetic field and its application (C.E•H.Morinaga)

medical diagnosis

- Computer systems aiding treatments in cardiovascular medicine and ophthalmology (Eng•N.Kamiura)
- Biomedical engineering Medical image processing system (Eng•S.Kobashi)
- Technology of Four-Dimensional Microscopy for Biomedical Diagnostics (Eng•K.Sato)
- Medical and Health Monitoring Systems (Eng•Y.Hata)
- Numerical diagnosis of joint disability (Eng•M.Higa)
- Development of microscope for visualizing cellular stress (Eng•K.Yoshiki)
- Development of rapid and simple diagnostic assays using antibodies (H.E•N.Kitamoto)
- Application of information and communication technology to nursing and medicine (App•M.Azuma)
- Development of bio-chip-sensor using SOR (Ad•Y.Utsumi)

food safety • health

- Bioavailability and Physiological Function of Bioactive Compounds in Plant Foods (H.E•A.Ishisaka)
- Nutrition scientific research aimed at prevention and improvement of a disease (H.E•M.Ito)
- Nutritional and biochemical studies on micronutrients (H.E•S.Ebara)
- Toxicity by oxygen radicals and its protection by food function (H.E•Y.Kato)
- The development of functional foods (H.E•S.Kimura)
- improvement in delicacy (H.E•K.Sakamoto)
- Developing tools for dietary assessment (H.E•C.Date)
- Elucidation of interaction between lipid metabolism and nutrients (H.E•S.Tanaka)
- Prevent effect of mugwort for arteriosclerosis (H.E•N.Hiramatsu)
- Effects of cooking conditions on physicochemical characteristics of cooked rice (H.E•S.Morii)
- Relevance of Mastication and palatability and physical properties of the food (H.E•M.Yoshimura)

human care

- Computer aided nursing-care quality improvement system (Eng•M.Nii)
- Screening method for frailty in community-dwelling older people (H.E•H.Uchida)
- hand hygiene and standard precautions (Nur•H.Ikehara)
- Care of breastfeeding (Nur•C.Aizawa)
- Environmental infection infection control (Nur•T.Azuma)
- Infant nursing and support for children and family (Nur•T.Inoue)
- regional medical liaison, long-term nursing support of post-natural disasters (Nur•K.Ono)
- Nursing care of postoperative delirium (Nur•H.Ono)
- Endocrine and life style-related disease (Nur•H.Kaji)
- Healthcare for mothers and children (Nur•M.Kaneda)
- Nursing on transition of treatment place in people who need long-term care (Nur•M.Kutsumi)
- Development of approach that bring to light of nursing practical knowledge and intellect shared by nurses (Nur•M.Konishi)
- Genetic Oncology Nursing (Nur•A.Uchinuno)
- Development of decision support program in personalized cancer patients care (Nur•Y.Kawasaki)
- Women's Health Care (Nur•Y.Kudou)
- Oral Health Promotion (Nur•R.Sakashita)
- Nursing for people with Dementia (Nur•M.Takami)
- community health nursing/ public health nursing (Nur•K.Takemura)
- Psychophysiological assessment of human response to nursing care (Nur•K.Tanida)
- caring for older people with dementia (Nur•Y.Nakasuji)

- Life-style related Disease Prevention and Health Promotion (Nur•Y.Nonami)
- Women's health care in perinatal (Nur•S.Miyagawa)
- Infection Control Nursing (Nur•M.Morimoto)
- Infection prevention of patients with chronic respiratory disease (Nur•K.Mori)
- nursing and reflexology (Nur•F.Yamamura)
- visiting nursing care to protect the safety (Nur•M.Koeda)
- Diabetes, Prevention of PAD (Peripheral Arterial Disease) (Nur•C.Kataoka)
- Child health nursing and support of children and their families (Nur•S.Takeuchi)
- Nursing care for people with chronic pulmonary diseases (Nur•H.Yoshio)
- Nursing of women's cancers (Nur•H.Nakano)
- Care of women and their babies during labor (Nur•N.Kamada)
- Nursing care for patients and families in clinical fields (Nur•M.Mori)
- care and supports to rebuild lifestyle for patients with cardiovascular diseases (Nur•A.Okada)
- Primary health nursing care in international community • Health nursing support for the foreign residents in Japan (R.I•Wu Xiaoyu)
- Nursing and Support in disaster affected area (R.I•A.Kurotaki)
- Nursing care for development of Anshin (Security) in disasters (R.I•A.Yamamoto)
- Ecology of the vector species of ixodid ticks (Nat•T.Yamauchi)

health care

- Psychological aspects of physical performance enhancement for ALL (H.E•K.Araki)
- Pathophysiology, Clinical Care and Education of Type 2 Diabetes (H.E•M.Sakaue)
- role of vitamin in fetal development (H.E•H.Sawamura)
- The thermal environmental barrier-free of urban and architectural space (H.E•T.Tsuchikawa)
- Health conditioning from muscle power perspective (H.E•H.Toji)
- Evaluation of the internal environment using biological signal analyses (H.E•N.Nagai)
- Enhancement of physical fitness & activity of daily living and intervention for older adults (H.E•T.Nishigaki)
- Biomechanical study of body movement in sports and daily life (H.E•K.Fukuda)
- Study on new physiology functions of micronutrients (H.E•T.Watanabe)
- knowledge extraction of medical data (App•T.Takemura)
- Child's Self Care and Pain in Children (Nur•N.Katada)
- Exercise Science for Health (Nur•M.Shibata)
- Study on circadian rhythm (Nur•R.Takenouchi)
- Mental health support for patients with physical disease (Nur•A.Takehara)
- Process study of nursing practice (Nur•H.Nagayama)
- Development of a Nursing Management System (Nur•S.Mashino)
- Home nursing care and family support (Nur•Kumsun•Lee)
- Relaxation to children and their families (Nur•K.Miyake)
- Association studies of candidate genes and metabolic syndrome (Nur•E.Ishihara)
- improvement of mental health (Nur•M.Kawada)
- The nursing management in hospital (Nur•F.Fujiwara)
- Care for the elderly with dementia (Nur•Y.Kato)
- Evaluation of brain function and autonomic nervous system related to mental status (App•Y.Mizuno)
- horticultural therapy: palliative care, mental health (Gre•M.Kaneko)
- Horticultural therapy: Therapeutic Landscape and Health (Gre•M.Toyoda)
- Exploring the nature of human behavior and society (Nat•M.Mitani)