

FACULTY MEMBERS AND THEIR RESEARCH INTERESTS (Master's Program)

EARTH SCIENCES

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Geology, metamorphic petrology
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Marine micropaleontology and coral-reef geosciences, paleoenvironmental analysis of quaternary reef deposits; ecology and paleoecology of large benthic foraminifers
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Marine and environmental geology, tectonics of the back-arc basin and radiation science of the earth's environment
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Physical oceanography, the dynamics of ocean currents and ocean waves near the coast, especially, observation and analysis of the ocean using the remotely sensed data and in-situ data
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Numerical weather prediction, high-impact weather events such as tropical cyclones and local heavy rainfall, data assimilation, atmosphere-ocean coupled system, geophysical fluid dynamics
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Seismology, seismotectonics, crustal structure in island arc, numerical modeling of tsunami
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Palaeontology, taxonomy, skeletal morphologies of Scleractinia, coral biogeography and microstructure.
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Igneous petrology, mineralogy and isotope geochemistry
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Tropical meteorology, mesoscale meteorology, observations and numerical simulations of precipitation processes associated with disturbances and tropical cyclones

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Environmental chemistry, atmospheric chemistry, analysis of chemical compositions in environmental samples such as atmospheric aerosols and seawater during photochemical processes

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Organic chemistry

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Coordination chemistry, synthesis of polynuclear transition metal complexes aiming at development of new molecule-based functions. Coordination and cluster chemistry of quinone-based ligands

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Analytical chemistry, chemical oceanography and carbonate chemistry

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Material chemistry (hydrogen storage material and ammonia capturing), chemical engineering, inorganic chemistry, and recycle chemistry

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Organic chemistry, natural product chemistry

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Environmental chemistry, atmospheric chemistry, aerosol chemistry, aerosol transformation during long range transport.

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Organic chemistry, synthetic chemistry

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Marine natural products chemistry, studies on bioactive compounds from marine invertebrates

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Natural products chemistry, structure elucidation and evaluation of biological activities of natural products

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Geochemistry, cold seeping mechanism, geochemistry of hydrothermal systems, origin and migration of natural gas, formation processes of gas hydrates

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Biophysical chemistry, development of techniques for environmental virus analysis, microbial fuel cells and gene therapy

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BIOLOGY

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Biology, vascular plant phylogeny and evolution in the Ryukyus and adjacent areas

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Marine biology, biology and ecology of marine invertebrates of coral reefs, with special focus on the reproductive biology and symbiosis of reef-building corals

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Biology, biology of tunicates: morphology, phylogeny, cell functions, photosymbiosis

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Biology and aquaculture, learning and communication of cephalopods; laboratory culture of cephalopods

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