

## List of Dissertation Abstract (Environment and Natural Sciences)

Name	Supervisor	Title	Abstract
Hiroki SETO	Ryuichi MAJIMA	Depositional environments of the Nakatsu Group (upper Pliocene-lower Pleistocene), Kanagawa Prefecture, central Japan.	Depositional environments of the upper Pliocene to lower Pleistocene Nakatsu Group, exposed in Kanagawa Prefecture, reconstructed from based on lithostratigraphic, paleobathymetric, and paleocurrent analyses. As a results, this study considered that the sedimentary facies of the lower Nakatsu Group have to be interpreted in a tsunami-dominated shelf deposit.
Hatsuna TADAKA	Shinya MATSUMOTO	Study on the Influence of the Learning of Life-cycle Thinking on Pro-Environmental Awareness and Behavior	It is pointed out that the improved awareness of learners made by learning of Environmental Education (EE) doesn't directly connect to their daily activities. As one effective means to solve this problem, practice and development of the EE based on life-cycle thinking (LCT) is being propelled. We therefore investigated the influence of LCT-based EE.
Akane OHIRA	Shuichi KODAIRA	Structural variation of the oceanic crust and mantle in the Pacific Plate from seismic images on southeast of the Shatsky Rise, northeastern Hawaiian Arch, and outer-rise region of the Japan Trench	Oceanic plates play a fundamental role in plate tectonics. To help understand the formation and evolution processes of the oceanic crust and the lithosphere, this dissertation focuses on three different tectonic regions in the Pacific plate. By using the seismic reflection and wide-angle reflection/refraction data, this dissertation shows the oceanic crust and mantle structure in a Pacific Ocean basin, the northeastern Hawaiian Arch, and the outer-rise region of the Japan Trench.
So Hee-Soo	Shinya MATSUMOTO	Studies on crystal polymorphs and their properties in halogenated diketopyrrolopyrrole derivatives with various substituents	Diketopyrrolopyrrole (DPP) pigment is expected to be applied into various optoelectronic materials. In order to realize its application into optoelectronic materials, the structural diversity of the solid structure in same chemical substance, such as crystal polymorphism, is important. Therefore, in this study, to investigate the effect of substituents on the crystal polymorphism of DPP derivatives, the structural changes caused by the introduction of chlorine and bromine atoms and flexible substituents on the amino position which have been reported in the dibenzyl pyrazine dye were investigated systematically on the occurrence of polymorphism. As a result, polymorphs having different colours were obtained from the chlorinated and brominated DPP derivatives having propyl group on the amino position, and not only the crystal structure but also the properties of the obtained polymorphs were examined.