

Last number of the volume

Special Issue: Front Edge of Submarine Mineral Resources Research in Japan

CONTENTS

K. SUZUKI, J. ISHIBASHI, Y. KATO and T. NOZAKI: Preface: Front edge of submarine mineral resources research in Japan	575
K. NAKAMURA, S. KAWAGUCCI, K. KITADA, H. KUMAGAI, K. TAKAI and K. OKINO: Water column imaging with multibeam echo-sounding in the mid-Okinawa Trough: Implications for distribution of deep-sea hydrothermal vent sites and the cause of acoustic water column anomaly	579
T. KASAYA, H. MACHIYAMA, K. KITADA and K. NAKAMURA: Trial exploration for hydrothermal activity using acoustic measurements at the North Iheya Knoll	597
K. OKAMURA, T. SUGIYAMA, T. NOGUCHI, T. FUKUBA and K. OKINO: Development of a deep-sea hydrogen sulfide ion sensor and its application for submarine hydrothermal plume exploration	603
M. YAMAMOTO, H. KODAMATANI, Y. KONO, A. TAKEUCHI, K. TAKAI, T. TOMIYASU and K. MARUMO: Development of a deep-sea mercury sensor using <i>in situ</i> anodic stripping voltammetry	613
K. YASUKAWA, K. NAKAMURA, K. FUJINAGA, S. MACHIDA, J. OHTA, Y. TAKAYA and Y. KATO: Rare-earth, major, and trace element geochemistry of deep-sea sediments in the Indian Ocean: Implications for the potential distribution of REY-rich mud in the Indian Ocean	621
Y. TAKAYA, K. FUJINAGA, N. YAMAGATA, S. ARAKI, R. MAKI, K. NAKAMURA, K. IJIMA and Y. KATO: Chemical leaching of rare earth elements from highly REY-rich mud	637
Y. TAKAHASHI, Y. HAYASAKA, K. MORITA, T. KASHIWABARA, R. NAKADA, M. A. MARCUS, K. KATO, K. TANAKA and H. SHIMIZU: Transfer of rare earth elements (REE) from manganese oxides to phosphates during early diagenesis in pelagic sediments inferred from REE patterns, X-ray absorption spectroscopy, and chemical leaching method	653
EXPRESS LETTERS	
N. NAKAYAMA, K. SHIRAI, Y. SANO, T. GAMO and H. OBATA: Sulfides in oxic seawater over the submarine hydrothermal area of Kikai Caldera south of Kyushu Island, Japan	e1

(continued on inside page)