

## CONTENTS

Structural Stability of Diffusion Barrier Coating at High Temperatures Based on Experimental Phase Diagrams ..... Shigeru Saito, Katsumi Miyama and Toshiyuki Takashima	1
Investigation of differences of urban park distributions according to elementary school districts ..... Akio Shiino, Toshikuni Okamura, Katsuo Sasaki and Nobuhiro Kiuchi	9
Specific Action Mechanisms of YM133 against Macrolide-Lincosamide-Strepto- gramin Type B Constitutive Resistant <i>Staphylococcus aureus</i> ..... Kikutarou Endou and Mika Itoh	15
A Quantitative Determination of Inducibility by Macrolide Antibiotics in Inducible Resistant <i>Staphylococcus aureus</i> to Macrolide-Lincosamide-Streptogramin Type B Antibiotics ..... Kikutarou Endou, Ryoma Takeda and Mika Itoh	21
Trial of the heat transfer analysis using the CAE software –Application to the natural convective heat transfer – ..... Hiroaki Kawai, Hideo Ohtake, Riho Hiramoto and Kanou Yoshida	27
The Process of Democratization: Especially on Pacted Transitions ..... Osamu Nakano	35
Marine Rescue System by means of Hyper-spectral Remote Sensing ..... Shin Satori, Naoto Yokoya, Akira Iwasaki, Takehisa Yairi Yusuke Takeuchi, Tomonori Ito, Akihiro Nakamura Koichi Yamaguchi and Yutaka Kametani	43
Study on structural performance for snow load of wood-frame houses in Hokkaido –Damage risk of structural members by snow load – ... Takahiro Chiba, Takuya Tsutsumi, Toru Takahashi and Tsukasa Tomabechi	51
Experimental study on properties of snow accretion for structural members with buildings –Ratio of collision and accretion of snow particles– ..... Yuki Sato, Takahiro Chiba, Tsukasa Tomabechi Kiyotoshi Otsuka, Yuichi Tabata and Kengo Sato	57
Study on Coefficients of Friction and Damping on Sliding Snow during Seismic Ground Motion .....Junya Kudo, Takahiro Chiba, Toru Takahashi and Tsukasa Tomabechi	63
Numerical Analysis of the Medium-mediated Bystander Effects ..... Kohei Sasaki, Osamu Hayakawa, Tetsuya Sanada Go Okuyama, Akihiro Kikuchi, Naoki Nishimoto Michio Bandoh, Keiichi Oda and Masataka Kitama	69

Examination of acquisition conditions of myocardial perfusion image using 201-Tl off-peak energy method ..... Akihiro Kikuchi, Masataka Kitama, Go Okuyama Naoki Nishimoto and Kohei Sasaki	75
Power analysis in correlated receiver operating characteristic (ROC) curves : a simulation study ..... Naoki Nishimoto, Yoichi M. Ito, Akihiro Kikuchi, Kohei Sasaki Go Okuyama, Keiichi Oda, Tetsuya Sanada, Michio Bandoh Osamu Hayakawa and Masataka Kitama	79
Fundamental study for human blood flow change associated with ELF electric field exposure ..... Hisae O. Shimizu, Soma Sakaida, Masataka Kitama Masaji Yamashita and Junji Arisawa	83
OSCE for clinical engineering education ..... Takeshi Aikawa, Shotaro Watanabe, Toshitsugu Sugawara Yachiyo Yamamoto and Satoshi Kuroda	89
Development of measuring simulator of cardiac output for education ..... Toshitsugu Sugawara, Satoshi Kuroda, Takeshi Aikawa Syotaro Watanabe and Kazuyuki Kimura	95
Fundamental study on transillumination imaging of arteriovenous fistula with diffused light ..... Masataka Kitama, Shinnosuke Sugaya, Hisae O. Shimizu Masaji Yamashita, Go Okuyama, Akihiro Kikuchi Naoki Nishimoto and Koichi Shimizu	101
Survey of consciousness disorder patients admitted to long-term in acute care hospitals ..... Yuko Hayashi, Kikue Hidaka, Mai Onoda and Kaoru Fukura	107
Important Signs of Additional Needs for Mothers and Children at the 18-Month Infant Checkup by Public Health Nurses ..... Michiko Matsubara	115