

C O N T E N T S

SCHOOL OF ENGINEERING

Technical Papers

Numerical Calculation of Current Distribution due to Spark Discharge on Water Surface with Surface Potential as Boundary Condition Nur Shahida MIDI, M.K.A. MUHAMAD and Ryu-ichiro OHYAMA	1
Colors that can Enhance the Track Athletes' Motivation Eisaku SETO and Itaru JIMBO	7
Utilization of Diatoms to Collect Metallic Ions Masanao KUNUGI, Takahiro SEKIGUCHI, Hiroaki ONIZAWA and Itaru JIMBO	13
A Method for Optimizing Groundwater Management Afzali NASEER and Shigeo HONMA	19
Adsorption and Transport of Heavy Metal Ions in Saturated Soils Abidullah ARABZAI and Shigeo HONMA	27
Study on Structural Characteristics of Tubular Bridges with Steel Pipes Turki JARWALI and Shunichi NAKAMURA	33
Corrosion Resistance of Bridge Strands Galvanized with a Zinc-Aluminium Alloy Turki JARWALI, Shunichi NAKAMURA and Keita SUZUMURA	41
Syntheses and Characterization of CeO ₂ Based Oxide Prepared by Precipitation Methods for SOFCs Masashi YOSHINAGA, Taku MITSUMORI, Kazuya SASAKI	49
Electrode Properties of Ni-YSZ Cermet Anode Using YSZ Powder Synthesized Through a Hydrothermal Process Taku MITSUMORI, Masahiro KINOSHITA, Masashi YOSHINAGA and Kazuya SASAKI	53
Effective Plate Thickness Range in Bending Technique for Levitation Control of Flexible Steel Plate Hiroki MARUMORI, Hikaru YONEZAWA, Takayoshi NARITA, Hideaki KATO Shinya HASEGAWA and Yasuo OSHINOYA	59
Steer-by-Wire System for Ultra-Compact Electric Vehicle —Functional Evaluation of Vehicle Handling Preference by Cornering on the Street— Hideaki KATO, Shinya HASEGAWA and Yasuo OSHINOYA	67
Skid Control of Small Electric Vehicles (Direct Yaw Moment Control using Tire Steer Angle) Mohamad Heerwan Bin PEEIE, Hirohiko OGINO and Yasuo OSHINOYA	73

Characteristics of Unsteady Flows around a Circular Cylinder with Simultaneous Multipoint Measurements of Pressure
..... Naotaka WATANABE, Tomohiro FURUTA and Yoko TAKAKURA 81

Abstracts
Vol. 53, No 2, 2013 89