

## CONTENTS

### Regular Papers

#111	<b>Fabrication and Electrochemical Properties of Boron-Doped Diamond Hollow Fiber Wool</b> .....	503
	Takeshi Kondo, Yasutaka Kodama, Makoto Yuasa	
#112	<b>Intercalation of Li to a Few Layer Graphenes</b> .....	507
	Hiroaki Ichikawa, Masaharu Takanashi, Shogo Sato, Nobuyuki Iwata, Hiroshi Yamamoto	
#113	<b>Magnetron Sputtering Deposition of Additional Ni Thin Films on the Fe/Al Multi-layered Catalyst Film for the Growth Control of Carbon Nanotubes</b> .....	511
	Hirofumi Koji, Tooru Harigai, Noriko Nitta, Hiroshi Furuta, Akimitsu Hatta	
#114	<b>Synthesis and Characterization of Highly Conductive PEDOT/PSS Colloidal Gels</b> .....	515
	Tatsuhiko Horii, Hanae Hikawa, Yuta Mochizuki, Hidenori Okuzaki	
#115	<b>Dielectric measurement of the food meat and human body</b> .....	519
	Seiichi Sudo, Megumi Asano, Minoru Fukuzaki, Shin Yagihara	
#116	<b>Water Structures in Protein-Water Mixtures Characterized by Dielectric Spectroscopy with Complementary Techniques</b> .....	523
	Maruyama Yuko, Saito Hironobu, Kita Rio, Shinyashiki Naoki, Yagihara Shin, Fukuzaki Minoru	
#117	<b>Encapsulation of shewanella in the redox phospholipid polymer hydrogel for microbial fuel cell fabrication</b> .....	529
	Xiaojie Lin, Koichi Nishio, Ryuhei Nakamura, Tomohiro Konno, Kazuhito Hashimoto, and Kazuhiko Ishihara	
#118	<b>Preparation of PHEMA Copolymers Containing Cell-binding Peptides as Graft Chains and Their Cell Adhesive Properties</b> .....	533
	Tomoyuki Koga, Yumiko Teraguchi, Nobuyuki Higashi	
#119	<b>Wettability of Biomimetic Metal-Dome and Polymer-Pillar Hybrid Structured Surfaces Regulated by the Metal-Dome Density</b> .....	537
	Daisuke Ishii and Masatsugu Shimomura	
#120	<b>Synthesis of Silica Nanofibers Templated by Self-Assembled Peptide Nanostructures</b> .....	541
	Kin-ya Tomizaki, Soo-Ang Ahn, Takahito Imai	
#121	<b>Cost-effectiveness Analysis Method for Wood Biomass Power Generation using Logging Residues</b> .....	547
	Koji Fukuda, Tomonori Sonoki, Toshihiro Okabe	
#122	<b>Effect of processing methods and condition of raw materials on the impregnation of phenolic resin and the shape of Woodceramics after burning</b> .....	551
	Keisuke Hata, Junichirou Tsuji, Toshihiro Okabe	
#123	<b>Effects of Activation with CO<sub>2</sub>/KOH on the Pore Structures of Coffee Grounds-derived Carbon</b> .....	557
	Keisuke Kikuchi, Rie Yamashita, Satoshi Sakuragawa	
#124	<b>Rumen Degradation Characteristics of Fermented Feed and Food By-products</b> .....	563
	Hiromi Nii and Toshihiro Okabe	
#125	<b>Antiviral Activity of Scallop-Shell Powder against Avian Influenza Virus and Goose Parvovirus</b> .....	567
	Misato Tsujimura, Chanathip Thammakarn, Yuki Yamada, Keisuke Satoh, Tomomi Hasegawa, Sakchai Ruenphet, Kazuaki Takehara	
#126	<b>Hole and Ion Conductions of Sc-Doped SrTiO<sub>3</sub> Thin Film Prepared by RF Magnetron Sputtering</b> .....	571
	Hiroyuki Kato, Teppei Okumura, Enju Sakai, Hiroshi Kumigashira, Tooru Higuchi	
#127	<b>Surface Electronic Structure of BaZr<sub>1-x</sub>Y<sub>x</sub>O<sub>3-d</sub> by Soft-X-Ray Spectroscopy</b> .....	575
	Tooru Higuchi, Fumitada Iguchi, Yuki Nagao, Noriko Sata, Yi-Sheng Liu, Per-Anders Glans, Jinghua Guo, Hiroo Yugami	
#128	<b>X-ray Emission Spectroscopy of Ta-Related Oxides</b> .....	579
	Yasuhiro Yoneda, Kenji Yoshii, Chikashi Suzuki	
#129	<b>First-Principles Study of Various BN, SiC, and AlN Polytypes</b> .....	583
	Kazuaki Kobayashi and Shojiro Komatsu	
#130	<b>Carbon nanomaterial fabrication mechanisms: bubble behavior in liquid helium using arc discharge</b> .....	589
	Hiroharu Kawasaki, Toshinobu Shigematsu, Tamiko Ohshima, Takeshi Ihara, Yoshihito Yagyū, Yoshiaki Suda, Kiminobu Imasaka	
#131	<b>Inhibitory Effects of Quorum Sensing in Serratia marcescens AS-1 by Electrospun Polyvinyl Alcohol Fibers Immobilized with Cyclodextrin</b> .....	593
	Eri Nasuno, Takuto Umemura, Takehiro Ogi, Chigusa Okano, Tomohisa Kawanago, Ken-ichi Iimura, Tomohiro Morohoshi, Tsukasa Ikeda, Norihiro Kato	

<b>#132 Antibacterial Activities of Plant Powders with Magnesium Oxide .....</b>	<b>597</b>
Kousyu Kurita, Hiroyuki Noda, Hiroshi Iizuka	
<b>#133 8-Hydroxyquinoline Ligands as Fluorescent Chemosensors for Zinc and Cadmium Ions .....</b>	<b>601</b>
Jun Kawakami, Yasuhiro Yamauchi, Masaki Ohta, Shunji Ito	