

Macromolecular Symposia: Vol. 264

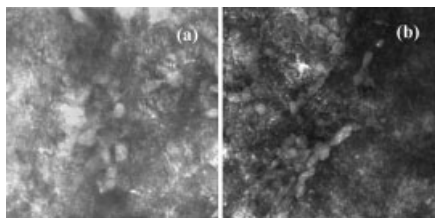
Articles published on the web will appear
several weeks before the print edition.
They are available through:



www.interscience.wiley.com

Cover: The “2nd International Conference on Advances in Petrochemicals and Polymers (ICAPP 2007)”, was held in Bangkok in June 25–28, 2007.

The cover picture is taken from the contribution by Hiroshi Tamura, p 8, showing the growth of NIH/3T3 fibroblast cell on the sheets



Advances in Petrochemicals and Polymers

Bangkok (Thailand), June 25–28, 2007

Preface	<i>P. Supaphol</i>	
NMR and Texture Analyses in Relation to Swelling Kinetics of 2-Hydroxyethyl Methacrylate/ <i>N</i> -Vinylpyrrolidinone Hydrogels	<i>Loo-Teck Ng,* Salesh Swami</i>	I 1
Preparation of Chitinous Compound/ Gelatin Composite and Their Biological Application	<i>Hideaki Nagahama, Nitar New, Rangasamy Jayakumar, Tetsuya Furuike, Hiroshi Tamura*</i>	I 8
Supramolecular Materials Comprising Nucleic Acid Biopolymers	<i>Wirasak Smithipong, Thorsten Neumann, Arkadiusz Chworos, Luc Jaeger, Matthew Tirrell*</i>	I 13

Effects of Modified MMT on Mechanical Properties of EVA/MMT Nanocomposites and Their Foams	<i>Zheng Run Xu, Hae Youn Park, Ho Young Kim, Kwan Ho Seo*</i>	18
Effect of Non-Woven Carbon Nanofiber Mat Presence on Cure Kinetics of Epoxy Nanocomposites	<i>Darunee Aussawasathien,* Erol Sancaktar</i>	26
Polypropylene Composites for Polymer Electrolyte Membrane Fuel Cell Bipolar Plates	<i>Rungsima Yeetsorn, Michael Fowler,* Costas Tzoganakis, Wang Yuhua, Mali Taylor</i>	34
Effect of Blending Factors on Eri Silk and Cotton Blended Yarn and Fabric Characteristics	<i>Rungsima Chollakup,* Jantip Suesat, Suchada Ujjin</i>	44
Ultraviolet Protection Characteristics of Silicone/Titanium Dioxide Composite Sheets	<i>Nispa Seetapan,* Thammarat Panyathammaporn</i>	50
Effect of Zinc oxide on Morphology and Mechanical Properties of Polyoxymethylene/Zinc oxide Composites	<i>Sirirat Wacharawichanant*</i>	54
Isotactic Poly(propylene)/Wood Sawdust Composite: Effects of Natural Weathering, Water Immersion, and Gamma-Ray Irradiation on Mechanical Properties	<i>Manisara Phiriyawirut,* Puriphat Saenpong, Suradet Chalermboon, Ruangdet Sooksakoolrut, Nikorn Pochanajit, Leartprakit Vuttikit, Apichate Thongchai, Pitt Supaphol</i>	59
Effect of Silane Coupling Agent and Compatibilizer on Properties of Short Rossells Fiber/Poly(propylene) Composites	<i>Kasama Jarukumjorn,* Wimonlak Sutapun, Yupaporn Ruksakulpiwat, Jongrak Kluengsamrong</i>	67
Polymer-Based Superhydrophobic Coating Fabricated from Polyelectrolyte Multilayers of Poly(allylamine hydrochloride) and Poly(acrylic acid)	<i>On-uma Nimitrakoolchai, Sithisuntorn Supothina*</i>	73

Ultrafine Electrospun Conducting Polymer Blend Fibers and Their Photoluminescence Properties	<i>Surawut Chuangchote, Takashi Sagawa, Susumu Yoshikawa*</i>	80
Effect of Heat Treatment Temperature on Surface Topography and Hydrophobicity of Polydimethylsiloxane/Titanium Oxide Hybrid Films	<i>Sunisa Jindasuwan, Pornapa Sujaridworakun, Supatra Jinawath, Sitthisuntorn Supothina*</i>	90
Novel Interpenetrating Network (IPNs) Hydrogels Prepared In Situ by Liquid-Phase Photopolymerization	<i>Jiang Yongmei, Liu Yang, Ma Yun, Liu Xiaoli, Qin Zongyi, Zhu Meifang,* H. J. Adler</i>	95
Preparation and Properties of Pyrene-Modified Multi-Walled Carbon Nanotube/Epoxy Resin Nanocomposites	<i>Deok-Kyu Choi, Sung-Hun Jin, Dai-Soo Lee*</i>	100
Molecular Functionalization of Cold-Plasma-Treated <i>Bombyx mori</i> Silk	<i>Piyarat Nimmanpipug,* Vannajan Sanghiran Lee, Sorapong Janhom, Pradoong Suanput, Dherawan Boonyawan, Kohji Tashiro</i>	107
Thermal Properties and Crystallization Behaviors of Polylactide and Its Enantiomeric Blends	<i>Pakorn Opaprakasit,* Mantana Opaprakasit</i>	113
Preparation and Physico-Chemical Characteristics of <i>N</i> -Maleoyl Chitosan Films	<i>Chutima Vanichvattanadecha, Pitt Supaphol, Ratana Rujiravanit*</i>	121
Synthesis and Characterization of Poly(ether- <i>block</i> -amide) Membranes	<i>Toraj Mohammadi,* Towan Kikhavandi, Mohammadreza Moghbeli</i>	127
Synthesis and Characterization of Amino Acid Modified Chitooligosaccharides	<i>Patcharee Ngamviriyavong, Paweena Uppanan, Wanida Janvikul*</i>	135
The Curing Efficiency and Mechanical Properties of Light-Activated Acrylic Resin	<i>Somruethai Channasanon,* Siriporn Tanodekaew</i>	140

Synthesis and Characterization of UV-Curable Poly(dimethylsiloxane) Dimethacrylate	<i>Boonlom Thavornyutikarn, Wanida Janvikul*</i>	144
Effect of Soxhlet Extraction and Surfactant System on Morphology and Properties of Poly(DVB)PolyHIPE	<i>Pornsri Pakeyangkoon, Rathanawan Magaraphan, Pomthong Malakul, Manit Nithitanakul*</i>	149
Determination of Operating Conditions of Ethylene/1-Octene Copolymerization Using Artificial Neural Network (ANN)	<i>Siripon Anantawaraskul,* Mahapon Toungetwut, Ratchadaporn Pinyapong</i>	157
Synthesis, Characterization and Biospecific Degradation Behavior of Sulfated Chitin	<i>Rangasamy Jayakumar, Nitar Nwe, Hideaki Nagagama, Tetsuya Furuike, Hiroshi Tamura*</i>	163
Physical and Electrical Properties of Chlorophyllin/Carboxymethyl Chitin and Chlorophyllin/Carboxymethyl Chitosan Blend Films	<i>Tuspon Thanpitcha, Anuvat Sirivat, Alexander M. Jamieson, Ratana Rujiravanit*</i>	168
Electromechanical Responses of a Crosslinked Polydimethylsiloxane	<i>Sumonman Niamlang, Anuvat Sirivat*</i>	176
Polymeric Membrane Nanofiltration and Its Application to Separations in the Chemical Industries	<i>Issara Sereewatthanawut, Andrew T. Boam, Andrew G. Livingston*</i>	184

<i>Adler, H.</i>	95	<i>Panyathammaporn, T.</i>	50
<i>Anantawaraskul, S.</i>	157	<i>Park, H. Y.</i>	18
<i>Aussawasathien, D.</i>	26	<i>Phiriyawirut, M.</i>	59
<i>Boam, A. T.</i>	184	<i>Pinyapong, R.</i>	157
<i>Boonyawan, D.</i>	107	<i>Pochanajit, N.</i>	59
<i>Chalermboon, S.</i>	59	<i>Rujiravanit, R.</i>	121, 168
<i>Channasanon, S.</i>	140	<i>Ruksakulpiwat, Y.</i>	67
<i>Choi, D.</i>	100	<i>Saenpong, P.</i>	59
<i>Chollakup, R.</i>	44	<i>Sagawa, T.</i>	80
<i>Chuangchote, S.</i>	80	<i>Sancaktar, E.</i>	26
<i>Chworos, A.</i>	13	<i>Seetapan, N.</i>	50
<i>Fowler, M.</i>	34	<i>Seo, K. H.</i>	18
<i>Furuike, T.</i>	8, 163	<i>Sereewatthanawut, I.</i>	184
<i>Jaeger, L.</i>	13	<i>Sirivat, A.</i>	168, 176
<i>Jamieson, A. M.</i>	168	<i>Smitthipong, W.</i>	13
<i>Janhom, S.</i>	107	<i>Sooksakoolrut, R.</i>	59
<i>Janvikul, W.</i>	135, 144	<i>Suanput, P.</i>	107
<i>Jarukumjorn, K.</i>	67	<i>Suesat, J.</i>	44
<i>Jayakumar, R.</i>	8, 163	<i>Sujaridworakun, P.</i>	90
<i>Jin, S.</i>	100	<i>Supaphol, P.</i>	59, 121
<i>Jinawath, S.</i>	90	<i>Supothina, S.</i>	73, 90
<i>Jindasuwan, S.</i>	90	<i>Sutapun, W.</i>	67
<i>Kikhavandi, T.</i>	127	<i>Swami, S.</i>	1
<i>Kim, H. Y.</i>	18	<i>Tamura, H.</i>	8, 163
<i>Kluengsamrong, J.</i>	67	<i>Tanodekaew, S.</i>	140
<i>Lee, D.</i>	100	<i>Tashiro, K.</i>	107
<i>Lee, V. S.</i>	107	<i>Taylor, M.</i>	34
<i>Livingston, A. G.</i>	184	<i>Thanpitcha, T.</i>	168
<i>Magaraphan, R.</i>	149	<i>Thavornnyutikarn, B.</i>	144
<i>Malakul, P.</i>	149	<i>Thongchai, A.</i>	59
<i>Meifang, Z.</i>	95	<i>Tirrell, M.</i>	13
<i>Moghbeli, M.</i>	127	<i>Toungsetwut, M.</i>	157
<i>Mohammadi, T.</i>	127	<i>Tzonganakis, C.</i>	34
<i>Nagagama, H.</i>	163	<i>Ujjiin, S.</i>	44
<i>Nagahama, H.</i>	8	<i>Uppanan, P.</i>	135
<i>Neumann, T.</i>	13	<i>Vanichvattanadecha, C.</i>	121
<i>New, N.</i>	8	<i>Vuttikit, L.</i>	59
<i>Ng, L.</i>	1	<i>Wacharawichanant, S.</i>	54
<i>Ngamviriyavong, P.</i>	135	<i>Xiaoli, L.</i>	95
<i>Niamlang, S.</i>	176	<i>Xu, Z. R.</i>	18
<i>Nimitrakoolchai, O.</i>	73	<i>Yang, L.</i>	95
<i>Nimmanpipug, P.</i>	107	<i>Yeetsorn, R.</i>	34
<i>Nithitanakul, M.</i>	149	<i>Yongmei, J.</i>	95
<i>Nwe, N.</i>	163	<i>Yoshikawa, S.</i>	80
<i>Opaprakasit, M.</i>	113	<i>Yuhua, W.</i>	34
<i>Opaprakasit, P.</i>	113	<i>Yun, M.</i>	95
<i>Pakeyangkoon, P.</i>	149	<i>Zongyi, Q.</i>	95