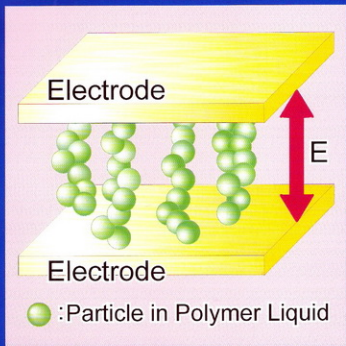


The Society of Polymer Science, Japan

# Polymer Journal



The article by K. TANAKA

## ■ Review Articles

*Katsufumi TANAKA and Ryuichi AKIYAMA,  
Electrically Induced Microstructures in Micro- and  
Nano-Suspensions and Related Physical Properties*

2009

Volume 41 Number 12



poljb8 41 (12) 1019-1154 (2009)

## CONTENTS

### Review Article

- Electrically Induced Microstructures in Micro- and Nano-Suspensions and Related Physical Properties..... 1019  
K. TANAKA and R. AKIYAMA

### Short Communications

- Highly Conductive and Transparent Poly(3,4-ethylenedioxythiophene)/Poly(4-styrenesulfonate) (PEDOT/PSS) Thin Films ..... 1028  
H. YAN, T. JO, and H. OKUZAKI

### Regular Articles

- Synthesis and Characterization of Chitosan Biguanidine Hydrochloride under Microwave Irradiation..... 1030  
X. ZHAO, J. HE, and Y. ZHAN

- Thickness Anomalies in Supported Polystyrene Films with Thicknesses Comparable to the Radius of Gyration ..... 1036  
C. YANG, A. KITAHARA, and I. TAKAHASHI

- Excess X-ray Scattering Observed at Low Angles during Melting of Crystalline-Amorphous Diblock Copolymers ..... 1041  
K. TONAMI, S. NOJIMA, T. HONDA, and Y. TSUNOGAE

- Prediction of Solvent Diffusivities in Amorphous Polymers by Free-Volume Theory: Group Contribution and PALS Methods ..... 1049  
H. LV, B. WANG, and Y. KONG

- Influence of Polymer Morphology on the Capacity of Molecularly Imprinted Resins to Release or to Retain their Template ..... 1055  
R. VENDAMME, W. EEVERS, M. KANETO, and Y. MINAMIZAKI

- A Novel Method for Synthesis of Chiral Polymer Useful for Membrane Application ..... 1067  
S. HAZARIKA, S. BORTHAKUR, P. G. RAO, and N. N. DUTTA

- White Light Emission from Blue InGaN LED with Fluorescent Conjugated Polymer Blends ..... 1076  
H. J. YU, K. PARK, W. CHUNG, J. KIM, B. CHUN, and S. H. KIM

- Microwave-Assisted Synthesis of Poly(2-hydroxyethyl methacrylate) (HEMA)/Silica Hybrid Using *in situ* Polymerization Method ..... 1080  
Y. KAJIWARA, A. NAGAI, and Y. CHUJO

- Kinetics of Photo-Induced Chemiluminescence Decay from Polymers ..... 1085  
K. R. MILLINGTON and G. MAURDEV

- Studies on the Preparation and Properties of Sol-Gel Molecularly Imprinted Polymer Based on Tetramethoxysilane and Methyltrimethoxysilane for Recognized Sulfonamides ..... 1092  
S.-C. LEE, C.-L. PENG, and H. CHEN

- Effect of Copolymerization Time on the Microstructure and Properties of Polypropylene/Poly(ethylene-co-propylene) In-Reactor Alloys ..... 1098  
Y. FAN, C. ZHANG, Y. XUE, W. NIE, X. ZHANG, X. JI, and S. BO

- Syntheses and Characterization of the Alternating Polymers Based on Cyclopenta[def]phenanthrene Backbone with Spiro Group ..... 1105  
S. SONG, Y. JIN, S. H. PARK, S. H. KIM, I. KIM, K. LEE, and H. SUH

- Fusible, Elastic, and Biodegradable Polyesters of 2-Pyrone-4,6-Dicarboxylic Acid (PDC) ..... 1111  
T. MICHINOBU, M. BITO, Y. YAMADA, M. TANIMUHA, Y. KATAYAMA, E. MASAI, M. NAKAMURA, Y. OTSUKA, S. OHARA, and K. SHIGEHARA

Palladium-Mediated Polymerization of Bifunctional Diazocarbonyl Compounds: Preparation of Crosslinked Polymers by Copolymerization of Bi- and Monofunctional Diazocarbonyl Compounds.....	1117
E. IHARA, Y. GOTO, T. ITOH, and K. INOUE	
Phenolic Resin-Based Carbon Thin Fibers Prepared by Electrospinning: Additive Effects of Poly(vinyl butyral) and Electrolytes.....	1124
S. IMAIZUMI, H. MATSUMOTO, K. SUZUKI, M. MINAGAWA, M. KIMURA, and A. TANIOKA	
Microwave-Assisted Simultaneous Synthesis of Conducting and Non-Conducting Polymers from Potassium 2,4,6-Tribromophenolate.....	1129
G. B. ÇELİK and D. KISAKÜREK	
Oxidative Coupling Copolycondensation of 2,6-Dimethylphenol with 2,5-Dimethylphenol: Highly Thermally Stable Poly(phenylene ether).....	1136
Y. SHIBASAKI, K. HOSHI, E. SUZUKI, Y. SHIRAIISHI, Y. NORISUE, and Y. OISHI	
Liquid Chromatography under Limiting Conditions of Desorption IV. Separation of Macromolecules According to Their Stereoregularity.....	1144
D. BEREK, T. KITAYAMA, K. HATAIDA, H. IHARA, I. CAPEK, and E. BORSIG	
<i>Errata</i>	
Erratum: Crystal Growth of <i>Isotactic</i> Poly(butene-1) in the Melt. I. Kinetic Roughening.....	1152
M. YAMASHITA, H. MIYAJI, A. HOSHINO, and K. IZUMI [36, 226 (2004)]	
Erratum: The Synthesis of the Glycopolymers Containing Pendant D,L-Xylaric and L-Tartaric Moieties and Their Inhibition Behavior on the $\beta$ -Glucuronidase Activity.....	1153
A. W. KAWAGUCHI, T. KAIDA, H. OKAWA, and K. HASHIMOTO [40, 944 (2008)]	
Abstracts of KOBUNSHI RONBUNSHU Volume 66, Number 10, 2009.....	A25
Key Word Index ( <i>Polymer Journal</i> , Vol. 41, No. 1—12, 2009).....	i
Author Index ( <i>Polymer Journal</i> , Vol. 41, No. 1—12, 2009).....	vi
Table of Contents ( <i>Polymer Journal</i> , Vol. 41, No. 1—12, 2009).....	x
ANNOUNCEMENT.....	xxiii
AUTHOR INSTRUCTIONS.....	xxiv
Copyright Transfer Form.....	xxx

AUTHOR INDEX

AKIYAMA, Ryuichi, 1019	IHARA, Hirotsuka, 1144	LV, Hong-ling, 1049	SHIGEHARA, Kiyotaka, 1111
BEREK, Dusan, 1144	IMAIZUMI, Shingo, 1124	MASAI, Fumi, 1111	SHIRAIISHI, Yutaka, 1136
BRTO, Masami, 1111	INOUE, Kenzo, 1117	MATSUMOTO, Hidetoshi, 1124	SONG, Suhee, 1105
HO, Shuang, 1098	ITOHI, Tomonichi, 1117	MAUREDEV, George, 1085	SUI, Hongsai, 1105
BORSIG, Eberhard, 1144	IZUMI, Kunihide, 1152	MICHINOBU, Tsuyoshi, 1111	SUZUKI, Eiichi, 1136
BORTHAKUR, Somnath, 1067	Ji, Xiangling, 1098	MILLINGTON, Keith R., 1085	SUZUKI, Kenichi, 1124
CAPEK, Ignac, 1144	JIN, Youngseup, 1105	MINAGAWA, Mie, 1124	TAKAHASHI, Isao, 1036
CHEN, Hai, 1092	JO, Toshihiko, 1028	MINAMIZAKI, Yoshihiro, 1055	TANAKA, Katsufumi, 1019
CHUZO, Yoshiki, 1080	KAIDA, Takafumi, 1153	MIYAJI, Hideki, 1152	TANIMURA, Miki, 1111
CHUN, Byung-hee, 1076	KAJIWARA, Yoichi, 1080	NAGAI, Atsushi, 1080	TANIOKA, Akihiko, 1124
CHUNG, Wonkeun, 1076	KANETO, Masayuki, 1055	NAKAMURA, Masaya, 1111	TONAMI, Keiko, 1041
ÇELİK, Güler Bayraklı, 1129	KATAYAMA, Yoshihiro, 1111	NIE, Wei, 1098	TSUNOGAI, Yasuo, 1041
DUTTA, Narendra N., 1067	KAWAGUCHI, Asei William, 1153	NISHI, Shouchi, 1041	VENDAMME, Richard, 1055
EEVERS, Walter, 1055	KIM, Il, 1105	NORISUE, Yasumasa, 1136	WANG, Bao-guo, 1049
FAN, Yaodi, 1098	KIM, Jihyun, 1076	OHARA, Seiji, 1111	XUE, Yanhu, 1098
GOTO, Yuko, 1117	KIM, Sun Hee, 1105	OISHI, Yoshiyuki, 1136	YAMADA, Yoshiko, 1111
HASHIMOTO, Kazuhiko, 1153	KIM, Sung Hyun, 1076	OKAWA, Haruki, 1153	YAMASHITA, Motoi, 1152
HATADA, Koichi, 1144	KIMURA, Masaru, 1124	OKUZAKI, Hidenori, 1028	YAN, Hu, 1028
HAZARIKA, Swapnali, 1067	KITAHARA, Amane, 1036	OTSUKA, Yuichiro, 1111	YANG, Chunning, 1036
HE, JIN-xin, 1030	KITAYAMA, Tatsuki, 1144	PARK, Kwangwi, 1076	YU, Hong Jeong, 1076
HONDA, Takashi, 1041	KISAKÜREK, Duygu, 1129	PARK, Seung Heum, 1105	ZHAN, Yi-zhen, 1030
HOSHI, Kenta, 1136	KONG, Ying, 1049	PENG, Chun-Li, 1092	ZHANG, Chunyu, 1098
HOSHINO, Akitaka, 1152	LEE, Kwanghee, 1105	RAO, Paruchuri G., 1067	ZHANG, Xueqian, 1098
IHARA, Eiji, 1117	LEE, Song-Chuan, 1092	SHIBASAKI, Yuji, 1136	ZHAO, Xue, 1030