LETTERS

Surface Induced Glass Transition in a Confined Molecular Liquid

Ranko Richert and Min Yang

pp 895 - 898; (Letter) DOI: 10.1021/jp022039r

Electrochemically Roughened Rhodium Electrode as a Substrate for Surface-enhanced Raman Spectroscopy

Bin Ren, Xu-feng Lin, Jia-wei Yan, Bing-wei Mao, and Zhong-qun Tian pp 899 - 902; (Letter) DOI: 10.1021/jp026862z

FEATURE ARTICLE

Some Recent Theory, Experiments, and Simulations on Rubberlike Elasticity

J. E. Mark

pp 903 - 913; (Feature Article) DOI: 10.1021/jp020056a

ARTICLES

PHYSICAL CHEMISTRY OF MATERIALS: FROM NANOPARTICLES TO MACROMOLECULES

Characterization of Fractions from Repeated Functionalization Reactions of Carbon Nanotubes

Yi Lin, Shelby Taylor, Weijie Huang, and Ya-Ping Sun pp 914 - 919; (Article) DOI: 10.1021/jp020701d

"Side Chain" Modification of MCM-41 Silica through the Exchange of the Surfactant Template with Charged Functionalized Organosiloxanes: An Efficient Route to Valuable Reconstructed MCM-41 Derivatives

A. B. Bourlinos, Th. Karakostas, and D. Petridis pp 920 - 925; (Article) DOI: 10.1021/jp0205113

Mechanistic Investigation on Salt-Mediated Formation of Free-Standing Co_3O_4 Nanocubes at 95 $^{\circ}$ C

Rong Xu and Hua Chun Zeng

pp 926 - 930; (Article) DOI: 10.1021/jp021094x

Growth Conditions of Double-Walled Carbon Nanotubes in Arc Discharge

Yahachi Saito, Takanori Nakahira, and Sashiro Uemura pp 931 - 934; (Article) DOI: 10.1021/jp0213670

Characterization and Modeling of the Nonfaradaic Response of Ultrahigh Surface Area Carbon Fibers by Electrochemical Flow Injection Analysis

Albert J. Gotch, Richard S. Kelly, and Theodore Kuwana pp 935 - 941; (Article) DOI: 10.1021/jp026822v

Cation Exchange, Dehydration, and Calcination in Clinoptilolite: In Situ X-ray Diffraction and Computer Modeling

Matthew Johnson, David O'Connor, Paul Barnes, C. Richard A. Catlow, Scott L. Owens, Gopinathan Sankar, Robert Bell, Simon J. Teat, and Richard Stephenson pp 942 - 951; (Article) DOI: 10.1021/jp021672+

Photocatalytic Properties of Porous Metal Oxide Networks Formed by Nanoparticle Infiltration in a Polymer Gel Template

Dmitry G. Shchukin, Jan H. Schattka, Markus Antonietti, and Rachel A. Caruso pp 952 - 957; (Article) DOI: 10.1021/jp026929i

Material Investigation and Optical Limiting Properties of Carbon Nanotube and Nanoparticle Dispersions

Sean M. O'Flaherty, Robert Murphy, Stephanie V. Hold, Martin Cadek, Jonathan N. Coleman, and Werner J. Blau

pp 958 - 964; **(Article)** DOI: <u>10.1021/jp0271108</u>

PHYSICAL CHEMISTRY OF SURFACES AND INTERFACES

Temperature Dependence of the Surface Phase Behavior and Micelle Formation of Some Nonionic Surfactants

Md. Nazrul Islam and Teiji Kato

pp 965 - 971; (Article) DOI: 10.1021/jp021212g

First-Principles Simulation of Scanning Tunneling Microscopy Images of Individual Molecules in Alkanethiol Self-Assembled Monolayers on Au(111)

Bin Li, Changgan Zeng, Qunxiang Li, Bing Wang, Lanfeng Yuan, Haiqian Wang, Jinlong Yang, J. G. Hou, and Qingshi Zhu

pp 972 - 984; (Article) DOI: 10.1021/jp0261861

Chemisorption of C_2 Biradical and Acetylene on Reconstructed Diamond(111)-(2 \times 1)

Shuo Wang Yang, Xianning Xie, Ping Wu, and Kian Ping Loh pp 985 - 993; (Article) DOI: 10.1021/jp021347m

Direct Chemical Mapping of Electrochemically Generated Spatial Composition Gradients on Thin Gold Films with Surface-Enhanced Raman Spectroscopy

Karin M. Balss, Tzu-Chi Kuo, and Paul W. Bohn pp 994 - 1000; **(Article)** DOI: <u>10.1021/jp021875y</u>

Titration of Fatty Acids in Sugar-Derived (APG) Surfactants: A 13 C NMR Study of the Effect of Headgroup Size, Chain Length, and Concentration on Fatty Acid p K_a at a Nonionic Micellar Interface

Christy R. Whiddon, Clifford A. Bunton, and Olle Söderman pp 1001 - 1005; **(Article)** DOI: 10.1021/jp0263875

Characterization of Fe-MCM-41 Molecular Sieves with Incorporated Carotenoids by Multifrequency Electron Paramagnetic Resonance

Tatyana A. Konovalova, Yunlong Gao, Lowell D. Kispert, Johan van Tol, and Louis-Claude Brunel

pp 1006 - 1011; (Article) DOI: 10.1021/jp021565f

Probe Molecule Kinetic Studies of Adsorption on MCM-41

Ángel Berenguer-Murcia, Ashleigh J. Fletcher, Javier García-Martínez, Diego Cazorla-Amorós, Ángel Linares-Solano, and K. Mark Thomas

pp 1012 - 1020; **(Article)** DOI: <u>10.1021/jp026764d</u>

Electrical Rectification in a Langmuir-Blodgett Monolayer of Dimethyanilinoazafullerene Sandwiched between Gold Electrodes

Robert M. Metzger, Jeffrey W. Baldwin, Walter J. Shumate, Ian R. Peterson, Prakash Mani, Gary J. Mankey, Todd Morris, Greg Szulczewski, Susanna Bosi, Maurizio Prato, Angelo Comito, and Yves Rubin pp 1021 - 1027; (Article) DOI: 10.1021/jp022101k

Quantitative Evaluation of the Photoinduced Hydrophilic Conversion Properties of TiO₂ Thin Film Surfaces by the Reciprocal of Contact Angle

Nobuyuki Sakai, Akira Fujishima, Toshiya Watanabe, and Kazuhito Hashimoto pp 1028 - 1035; (Article) DOI: 10.1021/jp022105p

A Novel Growth Mode of Mo on Au (111) from a Mo(CO)₆ Precursor: An STM Study

Zhen Song, Tanhong Cai, Jose A. Rodriguez, Jan Hrbek, Ally S. Y. Chan, and Cynthia M. Friend

pp 1036 - 1043; (Article) DOI: <u>10.1021/jp0270405</u>

STATISTICAL MECHANICS AND THERMODYNAMICS OF CONDENSED MATTER

Thermal Decomposition of Metal Nitrates in Air and Hydrogen Environments

Shanmugam Yuvaraj, Lin Fan-Yuan, Chang Tsong-Huei, and Yeh Chuin-Tih pp 1044 - 1047; **(Article)** DOI: 10.1021/jp026961c

Calculation of Molecular Configuration Integrals

Chia-En Chang, Michael J. Potter, and Michael K. Gilson pp 1048 - 1055; (Article) DOI: 10.1021/jp027149c

Hydration Kinetics of Tri-calcium Silicate in the Presence of Superplasticizers

Francesca Ridi, Luigi Dei, Emiliano Fratini, Sow-Hsin Chen, and Piero Baglioni pp 1056 - 1061; (Article) DOI: 10.1021/jp027346b

BIOPHYSICAL CHEMISTRY

Near Threshold Photo-Oxidation of Dinucleotides Containing Purines upon 266 nm Nanosecond Laser Excitation. The Role of Base Stacking, Conformation, and Sequence

Carlos E. Crespo-Hernández and Rafael Arce pp 1062 - 1070; (Article) DOI: 10.1021/jp026408v

Is a "Proton Wire" Concerted or Stepwise? A Model Study of Proton Transfer in Carbonic Anhydrase

Qiang Cui and Martin Karplus

pp 1071 - 1078; (Article) DOI: 10.1021/jp021931v

Dynamics of 7-Azatryptophan and Tryptophan Derivatives in Micellar Media. The Role of Ionic Charge and Substituent Structure

L. Kelepouris and G. J. Blanchard

pp 1079 - 1087; **(Article)** DOI: <u>10.1021/jp0268821</u>

Intramolecular Electron Transfer in Tryptophan-Tyrosine Peptide in Photoinduced Reaction in Aqueous Solution

Olga B. Morozova, Alexandra V. Yurkovskaya, Hans-Martin Vieth, and Renad Z. Sagdeev

pp 1088 - 1096; **(Article)** DOI: <u>10.1021/jp0265283</u>

GENERAL PHYSICAL CHEMISTRY

Clusters in Polymer-Surfactant AOT Microemulsions Probed by Excited State Quenching Kinetics

Pedro M. R. Paulo, César A. T. Laia, and Sílvia M. B. Costa pp 1097 - 1105; **(Article)** DOI: <u>10.1021/jp0269540</u>

ADDITIONS AND CORRECTIONS

Resistivity of a Superconductor: A Search for the Origin of Superconductivity

R. J. Thorn:

pp 1106 - 1106; (Addition/Correction) DOI: <u>10.1021/jp022226p</u>