

LETTERS

Stochastic Treatment of Dye Transfer between Droplets Dispersed in Water
Maria Hilczer and M. Tachiya pp 1933 - 1936; (Letter) DOI: 10.1021/jp0266042
Control of Electron Transfer Rates in Liquid Crystalline Media
Mark Lilichenko and Dmitry V. Matyushov pp 1937 - 1940; (Letter) DOI: 10.1021/jp026688e
Synthesis of Ferromagnetic Mn-Pt Nanoparticles from Organometallic Precursors
Kanta Ono, Ryuichi Okuda, Yoichi Ishii, Sou Kamimura, and Masaharu Oshima pp 1941 - 1942; (Letter) DOI: 10.1021/jp026898r

ARTICLES

PHYSICAL CHEMISTRY OF MATERIALS: FROM NANOPARTICLES TO MACROMOLECULES

Ternary Stannides $\text{LiT} \text{Sn}_4$ ($T = \text{Ru, Rh, Ir}$)-Chemical Bonding and Physical Properties
Zhiyun Wu, Hellmut Eckert, Jürgen Senker, Dirk Johrendt, Gunter Kotzyba, Bernd D. Mosel, Henning Trill, Rolf-Dieter Hoffmann, and Rainer Pöttgen pp 1943 - 1948; (Article) DOI: 10.1021/jp0220635
Near-Infrared Photoluminescence of Single-Walled Carbon Nanotubes Prepared by the Laser Vaporization Method
Sergei Lebedkin, Frank Hennrich, Tatyana Skipa, and Manfred M. Kappes pp 1949 - 1956; (Article) DOI: 10.1021/jp027096z
In Situ Synthesis of Polymer Nanocomposite Electrolytes Emitting a High Luminescence with a Tunable Wavelength
Mikrajuddin Abdullah, I. Wuled Lenggoro, Kikuo Okuyama, and Frank G. Shi pp 1957 - 1961; (Article) DOI: 10.1021/jp022223c
NMR Studies of Water Transport and Proton Exchange in Water-in-Carbon Dioxide Microemulsions
Kaz Nagashima, C. Ted Lee, Jr., Bin Xu, Keith P. Johnston, Joseph M. DeSimone, and Charles S. Johnson, Jr. pp 1962 - 1968; (Article) DOI: 10.1021/jp0222705
Molecular Characterization of Hexaoctyloxy-Rufigallol in the Solid and Columnar Phases: A Local Field NMR Study
Sergey V. Dvinskikh, Zeev Luz, Herbert Zimmermann, Arnold Maliniak, and Dick Sandström pp 1969 - 1976; (Article) DOI: 10.1021/jp0274381
Core-Shell Nanoporous Electrode for Dye Sensitized Solar Cells: the Effect of the SrTiO_3 Shell on the Electronic Properties of the TiO_2 Core
Yishay Diamant, S. G. Chen, Ophira Melamed, and Arie Zaban pp 1977 - 1981; (Article) DOI: 10.1021/jp027827v

PHYSICAL CHEMISTRY OF SURFACES AND INTERFACES

NO₂ Storage and Reduction in Barium Oxide Supported on Magnesium Oxide Studied by *in Situ* Raman Spectroscopy

Christian Hess and Jack H. Lunsford
pp 1982 - 1987; **(Article)** DOI: [10.1021/jp022054w](https://doi.org/10.1021/jp022054w)

Density Functional Theory Studies of Chemisorption and Diffusion Properties of Ni and Ni-Thiophene Complexes on the MoS₂ Basal Plane

Dan C. Sorescu, David S. Sholl, and Anthony V. Cugini
pp 1988 - 2000; **(Article)** DOI: [10.1021/jp021251s](https://doi.org/10.1021/jp021251s)

Reactivity Descriptors and Rate Constants for Acid Zeolite Catalyzed Ethylation and Isopropylation of Benzene

Ann M. Vos, Robert A. Schoonheydt, Frank De Proft, and Paul Geerlings
pp 2001 - 2008; **(Article)** DOI: [10.1021/jp026368v](https://doi.org/10.1021/jp026368v)

A First-Principles Analysis of Acetylene Hydrogenation over Pd(111)

Priyam A. Sheth, Matthew Neurock, and C. Michael Smith
pp 2009 - 2017; **(Article)** DOI: [10.1021/jp021342p](https://doi.org/10.1021/jp021342p)

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pp 2018 - 2028; **(Article)** DOI: [10.1021/jp0266547](https://doi.org/10.1021/jp0266547)

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N. Saito and Y. Inoue
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M. Francesca Ottaviani, Nicholas J. Turro, Steffen Jockusch, and Donald A. Tomalia
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STATISTICAL MECHANICS AND THERMODYNAMICS OF CONDENSED MATTER

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<p>Evaluation of Models of Electrostatic Interactions in Proteins</p> <p>Alexandre V. Morozov, Tanja Kortemme, and David Baker pp 2075 - 2090; (Article) DOI: 10.1021/jp0267555</p>
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<p>Structure and Function in the Isolated Reaction-Center Complex of Photosystem II. 2. Models for Energy Relaxation and Charge Separation in a Protein Matrix</p>

Joseph J. Shiang, Laurie M. Yoder, and Roseanne J. Sension
pp 2162 - 2169; **(Article)** DOI: [10.1021/jp021983k](https://doi.org/10.1021/jp021983k)

ADDITIONS AND CORRECTIONS

Inherent Flexibility of Calmodulin Domains: A Normal-Mode Analysis Study

N. P. Barton, C. S. Verma, and L. S. D. Caves:
pp 2170 - 2170; **(Addition/Correction)** DOI: [10.1021/jp022634t](https://doi.org/10.1021/jp022634t)