

- [ACS Style Guide: Citing References \[PDF\]](#)
- [Copyright & Permissions/Rightslink](#)
- [ACS Author & Reviewer Resource Center](#)
- [Subscriptions](#)
- [About the Journal](#)
 - [About the Journal](#)
 - [Editors](#)
 - [Editor Profile](#)
 - [Masthead \[PDF\]](#)
 - [Editorial Advisory Board \[PDF\]](#)
 - [Advertising](#)

[Previous Issue](#) [Next Issue](#)

Table of Contents



[Larger Cover](#)

March 18, 2009
Volume 48, Issue 6
Pages 2739-3260

In this issue:

- [Reviews](#)
- [Applied Chemistry](#)
- [Kinetics, Catalysis, and Reaction Engineering](#)
- [Materials and Interfaces](#)
- [Process Design and Control](#)
- [Separations](#)
- [General Research](#)
- [Research Notes](#)

- [Correlations](#)
- [Additions and Corrections](#)

 ACS AuthorChoice indicates the article is freely available through sponsorship by the author or related funding agency. [More about this program.](#)

Select All For Selected Content:

Reviews

[Guide to CO₂ Separations in Imidazolium-Based Room-Temperature Ionic Liquids](#)

Jason E. Bara, Trevor K. Carlisle, Christopher J. Gabriel, Dean Camper, Alexia Finotello, Douglas L. Gin and Richard D. Noble
pp 2739–2751

Publication Date (Web): February 11, 2009 (Review)

DOI: 10.1021/ie8016237

[Abstract](#) | [Supporting Info](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF](#)[1025K]
-  [PDF w/ Links](#)[325K]

[Lowered Emissions Schemes for Upgrading Ultra Heavy Petroleum Feeds](#)

Edward Furimsky

Publication Date (Web): January 29, 2009 (Review)

DOI: 10.1021/ie800865k

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF](#)[248K]

-  [PDF w/ Links\[253K\]](#)

Applied Chemistry

Thermal Dealkylation of Tri-*n*-octylborane: Effect of Lewis Bases on Extent and Regioselectivity

A. B. Mzinyati and D. Jaganyi

Publication Date (Web): February 17, 2009 (Article)

DOI: 10.1021/ie801303g

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[66K\]](#)
-  [PDF w/ Links\[67K\]](#)

Effect of Order of Impregnation of Mo and Ni on the Hydrodenitrogenation Activity of NiO-MoO₃/AIMCM-41 Catalyst

S. J. Sardhar Basha, P. Vijayan, C. Suresh, D. Santhanaraj and K. Shanthi

Publication Date (Web): February 18, 2009 (Article)

DOI: 10.1021/ie800932u

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[383K\]](#)
-  [PDF w/ Links\[160K\]](#)

High-Temperature Conductivity Measurements of Concentrated

NaCl–H₂SO₄–H₂O Solutions up to 250 °C

Ming Huang and Vladimiros G. Papangelakis

Publication Date (Web): February 17, 2009 (Article)

DOI: 10.1021/ie801064v

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[193K\]](#)
-  [PDF w/ Links\[166K\]](#)

Evaluation of Loofah as a Sorbent in the Decolorization of Basic Dye Contaminated Aqueous System

N. A. Oladoja, C. O. Aboluwoye and A. O. Akinkugbe

Publication Date (Web): February 6, 2009 (Article)

DOI: 10.1021/ie801207a

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[133K\]](#)
-  [PDF w/ Links\[151K\]](#)

Kinetics, Catalysis, and Reaction Engineering

Mixed Platinum–Manganese Oxide Catalysts for Combustion of Volatile Organic Compounds

Fabiola N. Aguero, Bibiana P. Barbero, Manuel Fernando R. Pereira, Jose L. Figueiredo and Luis E. Cadús

Publication Date (Web): February 3, 2009 (Article)

DOI: 10.1021/ie801310t

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[100K\]](#)
-  [PDF w/ Links\[117K\]](#)

Influence of EDC Cracking Severity on the Marginal Costs of Vinyl Chloride Production

Reinhard Schirmeister, John Kahsnitz and Michael Träger

Publication Date (Web): February 13, 2009 (Article)

DOI: 10.1021/ie8006903

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[502K\]](#)
-  [PDF w/ Links\[285K\]](#)

Simultaneous Free Fatty Acid Esterification and Triglyceride Transesterification Using a Solid Acid Catalyst with in Situ Removal of Water and Unreacted Methanol

Kaewta Suwannakarn, Edgar Lotero, Kanokwan Ngaosuwan and James G. Goodwin, Jr.

Publication Date (Web): February 16, 2009 (Article)

DOI: 10.1021/ie800889w

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[212K\]](#)
-  [PDF w/ Links\[193K\]](#)

Preparation of Nano-Pd/SiO₂ by One-Step Flame Spray Pyrolysis and Its Hydrogenation Activities: Comparison to the Conventional Impregnation Method

Okorn Mekasuwandumrong , Sirima Somboonthanakij, Piyasan Praserthdam and Joongjai Panpranot

Publication Date (Web): February 3, 2009 (Article)

DOI: 10.1021/ie8012055

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF](#)[1337K]
-  [PDF w/ Links](#)[473K]

Hydrodechlorination of Light Organochlorinated Compounds and Their Mixtures over Pd/TiO₂-Washcoated Minimonoliths

Carlos A. González, Michael Bartoszek, Andreas Martin and Consuelo Montes de Correa

Publication Date (Web): February 5, 2009 (Article)

DOI: 10.1021/ie8013742

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF](#)[439K]
-  [PDF w/ Links](#)[277K]

Ethylbenzene Transformation over a ZSM-5-Based Catalyst in a

Riser Simulator

S. Al-Khattaf, N. M. Tukur and S. Rabiu

Publication Date (Web): February 2, 2009 (Article)

DOI: 10.1021/ie801609x

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[139K\]](#)
-  [PDF w/ Links\[152K\]](#)

Kinetic Modeling of Toxicity Evolution during Phenol Oxidation

A. Santos, P. Yustos, S. Rodríguez, F. Vicente and A. Romero

Publication Date (Web): February 24, 2009 (Article)

DOI: 10.1021/ie801797q

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[113K\]](#)
-  [PDF w/ Links\[129K\]](#)

Cracking and Coking Behaviors of Nascent Volatiles Derived from Flash Pyrolysis of Woody Biomass over Mesoporous Fluidized-Bed Material

Koji Kuramoto, Koichi Matsuoka, Takahiro Murakami, Hideyuki Takagi, Tetsuya Nanba, Yoshizo Suzuki, Sou Hosokai and Jun-ichiro Hayashi

Publication Date (Web): February 23, 2009 (Article)

DOI: 10.1021/ie800760s

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[1462K\]](#)
-  [PDF w/ Links\[429K\]](#)

Solid–Liquid Catalytic Reactions in a New Two-Impinging-Jets Reactor: Experiment and Modeling

Asghar Molaei Dehkordi, Iman Safari and Amir A. Ebrahimi

Publication Date (Web): February 12, 2009 (Article)

DOI: 10.1021/ie801240q

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[466K\]](#)
-  [PDF w/ Links\[237K\]](#)

Influence of Templates on the Overgrowth of MCM-41 over HY and the Hydrodesulfurization Performances of the Supported Ni–Mo Catalysts

Xiang Li, Feng Zhou, Anjie Wang, Linying Wang and Yongkang Hu

Publication Date (Web): February 12, 2009 (Article)

DOI: 10.1021/ie801389w

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[849K\]](#)
-  [PDF w/ Links\[300K\]](#)

Catalyst Deactivation of Rh-Coated Foam Monolith for Catalytic Partial Oxidation of Methane

Shi Ding, Yiyang Yang, Yong Jin and Yi Cheng

Publication Date (Web): February 4, 2009 (Article)

DOI: 10.1021/ie801500n

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF](#)[2305K]
-  [PDF w/ Links](#)[465K]

Materials and Interfaces

Preparation and Characterization of Carbon Membranes Derived from Poly(phthalazinone ether sulfone) for Gas Separation

Bing Zhang, Guoliang Shen, Yonghong Wu, Tonghua Wang, Jieshan Qiu, Tiejun Xu and Chengbi Fu

Publication Date (Web): February 5, 2009 (Article)

DOI: 10.1021/ie8013583

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF](#)[656K]
-  [PDF w/ Links](#)[175K]

Buoyant Photocatalyst with Greatly Enhanced Visible-Light Activity Prepared through a Low Temperature Hydrothermal Method

Hui Han and Renbi Bai

Publication Date (Web): February 13, 2009 (Article)

DOI: 10.1021/ie801362a

[Abstract](#) | [Supporting Info](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[1173K\]](#)
-  [PDF w/ Links\[258K\]](#)

Force Fields and Point Charges for Crystal Structure Modeling

Michael Svärd and Åke C. Rasmussen

Publication Date (Web): February 18, 2009 (Article)

DOI: 10.1021/ie800502m

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[1176K\]](#)
-  [PDF w/ Links\[311K\]](#)

Emulsion Catastrophic Inversion from Abnormal to Normal Morphology. 8. Effect of Formulation on the Inversion Produced by Continuous Stirring

Marianna Rondón-González, Luis F. Madariaga, Véronique Sadler, Lionel Choplin and Jean-Louis Salager

Publication Date (Web): February 17, 2009 (Article)

DOI: 10.1021/ie801225h

[Abstract](#)

-  [Full Text HTML](#)

-  [Hi-Res PDF\[287K\]](#)
-  [PDF w/ Links\[166K\]](#)

Effect of Surface Oxygen Groups in Carbons on Hydrogen Storage by Spillover

Lifeng Wang, Frances H. Yang and Ralph T. Yang, Michael A. Miller

Publication Date (Web): January 28, 2009 (Article)

DOI: 10.1021/ie8014507

[Abstract](#) | [Supporting Info](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[262K\]](#)
-  [PDF w/ Links\[197K\]](#)

Process Design and Control

Optimal Design of Shell-and-Tube Heat Exchangers Using Particle Swarm Optimization

Mauro A. S. S. Ravagnani, Aline P. Silva, Evaristo C. Biscaia, Jr. and Jose A. Caballero

Publication Date (Web): February 13, 2009 (Article)

DOI: 10.1021/ie800728n

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[144K\]](#)
-  [PDF w/ Links\[131K\]](#)

Process Analysis by Means of Focused Beam Reflectance Measurements

Norbert Kail, Wolfgang Marquardt and Heiko Briesen

Publication Date (Web): February 11, 2009 (Article)

DOI: 10.1021/ie800839s

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF](#)[1151K]
-  [PDF w/ Links](#)[385K]

Novel Unified Modeling Approach for Short-Term Scheduling

Munawar A. Shaik and Christodoulos A. Floudas

pp 2947–2964

Publication Date (Web): February 17, 2009 (Article)

DOI: 10.1021/ie8010726

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF](#)[544K]
-  [PDF w/ Links](#)[221K]

Life Cycle Cost Minimization of a Total Wastewater Treatment Network System

Seong-Rin Lim, Haewoo Lee and Jong Moon Park

Publication Date (Web): January 27, 2009 (Article)

DOI: 10.1021/ie8010897

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[629K\]](#)
-  [PDF w/ Links\[231K\]](#)

Synthesis and Optimization of an Ammonia–Water Absorption Refrigeration Cycle Considering Different Types of Heat Exchangers by Application of Mixed-Integer Nonlinear Programming

Luz María Chávez-Islas, Christopher L. Heard and Ignacio E. Grossmann

Publication Date (Web): February 13, 2009 (Article)

DOI: 10.1021/ie801309h

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[1843K\]](#)
-  [PDF w/ Links\[574K\]](#)

A Disjunctive Programming Model for Simultaneous Synthesis and Detailed Design of Cooling Networks

José María Ponce-Ortega, Medardo Serna-González and Arturo Jiménez-Gutiérrez

Publication Date (Web): February 9, 2009 (Article)

DOI: 10.1021/ie8015494

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[210K\]](#)
-  [PDF w/ Links\[216K\]](#)

Enhancing a Smelter Off-Gas System Using a Plant-Wide Control Design

Antonio C. B. de Araujo and Helen Shang

Publication Date (Web): February 12, 2009 (Article)

DOI: 10.1021/ie800254s

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF](#)[965K]
-  [PDF w/ Links](#)[252K]

Extensions of a Multistart Clustering Algorithm for Constrained Global Optimization Problems

José-Oscar H. Sendín, Julio R. Banga and Tibor Csendes

Publication Date (Web): February 10, 2009 (Article)

DOI: 10.1021/ie800319m

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF](#)[382K]
-  [PDF w/ Links](#)[285K]

Proactive Scheduling Strategy Applied to Decoking Operations of an Industrial Naphtha Cracking Furnace System

Heejin Lim , Jaein Choi , Matthew Realff and Jay H. Lee , Sunwon Park

Publication Date (Web): February 13, 2009 (Article)

DOI: 10.1021/ie800331z

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF](#)[1913K]
-  [PDF w/ Links](#)[382K]

Potential of Hyperspectral Imaging for Quality Control of Polymer Blend Films

Ryan Gosselin, Denis Rodrigue, Rubén González-Núñez and Carl Duchesne

Publication Date (Web): February 12, 2009 (Article)

DOI: 10.1021/ie800997x

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF](#)[1289K]
-  [PDF w/ Links](#)[353K]

Nonlinear MPC using an Identified LPV Model

Zuhua Xu, Jun Zhao and Jixin Qian, Yucai Zhu

Publication Date (Web): February 19, 2009 (Article)

DOI: 10.1021/ie801057q

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF](#)[705K]
-  [PDF w/ Links](#)[253K]

Incremental Modeling of Nonlinear Distributed Parameter Processes via Spatiotemporal Kernel Series Expansion

Han-Xiong Li and Chenkun Qi

Publication Date (Web): January 29, 2009 (Article)

DOI: 10.1021/ie801184a

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF](#)[1139K]
-  [PDF w/ Links](#)[284K]

Fault Detection and Identification Using Modified Bayesian Classification on PCA Subspace

Jialin Liu, Ding-Sou Chen

Publication Date (Web): February 3, 2009 (Article)

DOI: 10.1021/ie801243z

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF](#)[2267K]
-  [PDF w/ Links](#)[833K]

Stochastic Programming Approach for the Planning of Offshore Oil or Gas Field Infrastructure under Decision-Dependent Uncertainty

Bora Tarhan, Ignacio E. Grossmann and Vikas Goel

Publication Date (Web): February 23, 2009 (Article)

DOI: 10.1021/ie8013549

Abstract

-  [Full Text HTML](#)
-  [Hi-Res PDF](#)[481K]
-  [PDF w/ Links](#)[323K]

Enhanced Control of Unstable Cascade Processes with Time Delays Using a Modified Smith Predictor

S. Uma, M. Chidambaram and A. Seshagiri Rao

Publication Date (Web): February 5, 2009 (Article)

DOI: 10.1021/ie801590e

Abstract

-  [Full Text HTML](#)
-  [Hi-Res PDF](#)[2608K]
-  [PDF w/ Links](#)[544K]

Separations

Estimating Dosing Rates and Energy Consumption for Electrocoagulation Using Iron and Aluminum Electrodes

Zheng Gu, Zhaojun Liao, Matthew Schulz, Jake R. Davis, James C. Baygents and James Farrell

Publication Date (Web): February 9, 2009 (Article)

DOI: 10.1021/ie801086c

Abstract

-  [Full Text HTML](#)
-  [Hi-Res PDF](#)[141K]
-  [PDF w/ Links](#)[139K]

Liquid Membrane Process for the Selective Recovery of Uranium from Industrial Leach Solutions

P. S. Kulkarni, S. Mukhopadhyay and S. K. Ghosh

Publication Date (Web): February 5, 2009 (Article)

DOI: 10.1021/ie800819q

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[112K\]](#)
-  [PDF w/ Links\[130K\]](#)

Impact of Conventional Water Treatment Coagulants on Mineral Scaling in RO Desalting of Brackish Water

Myung-man Kim, James Au, Anditya Rahardianto, Julius Glater, Yoram Cohen, Fredrick W. Gerringer and Christopher J. Gabelich

Publication Date (Web): February 10, 2009 (Article)

DOI: 10.1021/ie800937c

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[1678K\]](#)
-  [PDF w/ Links\[478K\]](#)

Antifouling Property of a Weak Polyelectrolyte Membrane Based on Poly(acrylonitrile) during Protein Ultrafiltration

Yanlei Su, Chunxia Mu, Chao Li and Zhongyi Jiang

Publication Date (Web): February 9, 2009 (Article)

DOI: 10.1021/ie801393z

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[188K\]](#)
-  [PDF w/ Links\[154K\]](#)

General Research

Experimental Investigation of Methane Gas Production from Methane Hydrate

Yue Zhou, Marco J. Castaldi and Tuncel M. Yegulalp

Publication Date (Web): February 5, 2009 (Article)

DOI: 10.1021/ie801004z

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[1238K\]](#)
-  [PDF w/ Links\[350K\]](#)

Flame Retardancy and Thermal Degradation of Intumescent Flame Retardant Starch-Based Biodegradable Composites

Kun Wu, Yuan Hu, Lei Song, Hongdian Lu and Zhengzhou Wang

Publication Date (Web): February 5, 2009 (Article)

DOI: 10.1021/ie801230h

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[922K\]](#)

-  [PDF w/ Links\[315K\]](#)

Methodology for the Screening of Signal Analysis Methods for Selective Detection of Hydrodynamic Changes in Fluidized Bed Systems

Malte Bartels, Bart Vermeer, Peter J. T. Verheijen, John Nijenhuis, Freek Kapteijn and J. Ruud van Ommen

Publication Date (Web): February 3, 2009 (Article)

DOI: 10.1021/ie8012105

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[1096K\]](#)
-  [PDF w/ Links\[261K\]](#)

Dynamic Thermodynamics with Internal Energy, Volume, and Amount of Moles as States: Application to Liquefied Gas Tank

A. R. J. Arendsen and G. F. Versteeg

Publication Date (Web): January 29, 2009 (Article)

DOI: 10.1021/ie801273a

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[2742K\]](#)
-  [PDF w/ Links\[491K\]](#)

Experimental and Numerical Study of Hydrodynamics with Heat

Transfer in a Gas–Solid Fluidized-Bed Reactor at Different Particle Sizes

Mahdi Hamzehei and Hassan Rahimzadeh

Publication Date (Web): February 2, 2009 (Article)

DOI: 10.1021/ie801413q

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF](#)[1679K]
-  [PDF w/ Links](#)[416K]

Modeling of an Industrial Vibrating Double-Deck Screen of a Urea Granulation Circuit

Ivana M. Cotabarren, José Rossit, Verónica Bucalá and Juliana Piñá

Publication Date (Web): February 17, 2009 (Article)

DOI: 10.1021/ie800968y

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF](#)[1208K]
-  [PDF w/ Links](#)[324K]

First-Principles Predictions of Vapor–Liquid Equilibria for Pure and Mixture Fluids from the Combined Use of Cubic Equations of State and Solvation Calculations

Chieh-Ming Hsieh and Shiang-Tai Lin

Publication Date (Web): February 10, 2009 (Article)

DOI: 10.1021/ie801118a

[Abstract](#) | [Supporting Info](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[197K\]](#)
-  [PDF w/ Links\[212K\]](#)

[Effect of Electrolytes on CO–Water Mass Transfer](#)

Haiyang Zhu, Brent H. Shanks and Theodore J. Heindel

Publication Date (Web): February 5, 2009 (Article)

DOI: 10.1021/ie8012924

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[255K\]](#)
-  [PDF w/ Links\[141K\]](#)

[Structural Changes of Sewage Sludge Char during Fixed-Bed Pyrolysis](#)

Javier Abrego, Jes s Arauzo, Jos  Luis S nchez, Alberto Gonzalo, Tom s Cordero and Jos  Rodr guez-Mirasol

Publication Date (Web): February 5, 2009 (Article)

DOI: 10.1021/ie801366t

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[1021K\]](#)
-  [PDF w/ Links\[391K\]](#)

Transient Flow Behavior of Crude Oil–Alcoflood Polymer Emulsions

Mamdouh T. Ghannam

Publication Date (Web): February 10, 2009 (Article)

DOI: 10.1021/ie801388z

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF](#)[120K]
-  [PDF w/ Links](#)[136K]

Research Notes

Deactivation by Filamentous Carbon Formation on Co/Aluminum Phosphate during Fischer–Tropsch Synthesis

Jong Wook Bae, Seung-Moon Kim, Seon-Ju Park, P.S. Sai Prasad, Yun-Jo Lee and Ki-Won Jun

Publication Date (Web): February 16, 2009 (Research Note)

DOI: 10.1021/ie801956t

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF](#)[563K]
-  [PDF w/ Links](#)[252K]

Development of a Scheduling Model for Polarizer Manufacturing Logistics

Kyung Tae Park, Jun-hyung Ryu, Ho-Kyung Lee and In-Beum Lee

Publication Date (Web): February 24, 2009 (Research Note)

DOI: 10.1021/ie8009044

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[1891K\]](#)
-  [PDF w/ Links\[512K\]](#)

Microwave-Assisted Preparation and Hydrazine Decomposition Properties of Nanostructured Tungsten Carbides on Carbon Nanotubes

Changhai Liang, Ling Ding, Aiqin Wang, Zhiqiang Ma, Jieshan Qiu and Tao Zhang

Publication Date (Web): February 17, 2009 (Research Note)

DOI: 10.1021/ie801591x

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[1118K\]](#)
-  [PDF w/ Links\[216K\]](#)

Kinetic Analysis of Solid-State Reactions: A General Empirical Kinetic Model

Junmeng Cai and Ronghou Liu

Publication Date (Web): February 20, 2009 (Research Note)

DOI: 10.1021/ie8018615

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[117K\]](#)
-  [PDF w/ Links\[129K\]](#)

Correlations

Density of Ionic Liquids Using Group Contribution and Artificial Neural Networks

José O. Valderrama, Alfonso Reategui and Roberto E. Rojas

Publication Date (Web): February 18, 2009 (Correlation)

DOI: 10.1021/ie801113x

[Abstract](#) | [Supporting Info](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[79K\]](#)
-  [PDF w/ Links\[96K\]](#)

Additions and Corrections

Estimation of the Molar Heat Capacity Change on Melting of Organic Compounds

Min Wu and Samuel Yalkowsky

Publication Date (Web): February 19, 2009 (Addition/Correction)

DOI: 10.1021/ie900184v

[Abstract](#)

-  [Full Text HTML](#)
-  [Hi-Res PDF\[20K\]](#)
-  [PDF w/ Links\[21K\]](#)

Select All For Selected Content:

[Previous Issue](#) [Next Issue](#)



Browse By Issue

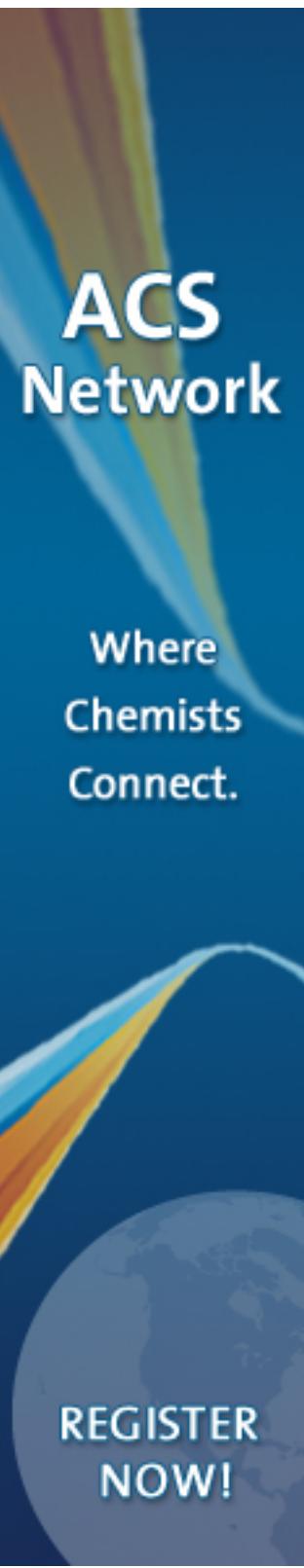
[List of Issues](#)

Stay Current

Get your research ASAP.

[e-Alerts](#) | [RSS Feeds](#)

Advertisements



[Info for Advertisers](#)

Copyright © 2009 American Chemical Society
1155 Sixteenth Street N.W., Washington, DC 20036

[Journals A-Z](#) | [Books](#) | [Authors & Reviewers](#) | [Librarians](#) | [ACS Members](#) | [Help](#)

   ACS Publications is a partner of:
Technology Partner - [Atypon Systems, Inc.](#)