

Spotlights

Spotlights on Recent *JACS* Publications

pp 2011–2012

Publication Date (Web): February 13, 2013 (Spotlights)

DOI: 10.1021/ja4011749

Perspectives

Strongly Coupled Inorganic/Nanocarbon Hybrid Materials for Advanced Electrocatalysis

Yongye Liang, Yanguang Li, Hailiang Wang, and Hongjie Dai

pp 2013–2036

Publication Date (Web): January 22, 2013 (Perspective)

DOI: 10.1021/ja3089923

 Section:

Electrochemical, Radiational, and Thermal Energy Technology

Communications

Engineering Bacterial Two-Component System PmrA/PmrB to Sense Lanthanide Ions

Haihua Liang, Xin Deng, Mike Bosscher, Quanjiang Ji, Mark P. Jensen, and Chuan He

pp 2037–2039

Publication Date (Web): January 27, 2013 (Communication)

DOI: 10.1021/ja312032c

 Section:

Biochemical Genetics

Fused Dithienogermolodithiophene Low Band Gap Polymers for High-Performance Organic Solar Cells without Processing Additives

Hongliang Zhong, Zhe Li, Florent Deledalle, Elisa Collado Fregoso, Munazza Shahid, Zhuping Fei, Christian B. Nielsen, Nir Yaacobi-Gross, Stephan Rossbauer, Thomas D. Anthopoulos, James R. Durrant, and Martin Heeney

pp 2040–2043

Publication Date (Web): January 25, 2013 (Communication)

DOI: 10.1021/ja311700u

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Electrochemical, Radiational, and Thermal Energy Technology

Colocalized Delivery of Adjuvant and Antigen Using Nanolipoprotein Particles Enhances the Immune Response to Recombinant Antigens

Nicholas O. Fischer, Amy Rasley, Michele Corzett, Mona H. Hwang, Paul D. Hoeprich, and Craig D. Blanchette

pp 2044–2047

Publication Date (Web): January 18, 2013 (Communication)

DOI: 10.1021/ja3063293

 Section:

Pharmaceuticals

Electrocatalytic Water Oxidation with a Copper(II) Polypeptide Complex

Ming-Tian Zhang, Zuofeng Chen, Peng Kang, and Thomas J. Meyer

pp 2048–2051

Publication Date (Web): January 27, 2013 (Communication)

DOI: 10.1021/ja3097515

 Section:

Electrochemistry

A Molecular Platinum Cluster Junction: A Single-Molecule Switch

Linda A. Zotti, Edmund Leary, Maria Soriano, Juan Carlos Cuevas, and Juan Jose Palacios

pp 2052–2055

Publication Date (Web): January 18, 2013 (Communication)

DOI: 10.1021/ja3100116

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Electric Phenomena

Liposome–Quantum Dot Complexes Enable Multiplexed Detection of Attomolar DNAs without Target Amplification

Juan Zhou, Qiang-xin Wang, and Chun-yang Zhang

pp 2056–2059

Publication Date (Web): January 30, 2013 (Communication)

DOI: 10.1021/ja3110329

Section:

Biochemical Genetics

Termini of Bottom-Up Fabricated Graphene Nanoribbons

Leopold Talirz, Hajo Söde, Jinming Cai, Pascal Ruffieux, Stephan Blankenburg, Rached Jafaar, Reinhard Berger, Xinliang Feng, Klaus Müllen, Daniele Passerone, Roman Fasel, and Carlo A. Pignedoli

pp 2060–2063

Publication Date (Web): January 27, 2013 (Communication)

DOI: 10.1021/ja311099k

Section:

General Physical Chemistry

A Nonribosomal Peptide Synthetase-Derived Iron(III) Complex from the Pathogenic Fungus *Aspergillus fumigatus*

Wen-Bing Yin, Joshua A. Baccile, Jin Woo Bok, Yiming Chen, Nancy P. Keller, and Frank C. Schroeder

pp 2064–2067

Publication Date (Web): January 29, 2013 (Communication)

DOI: 10.1021/ja311145n

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Microbial, Algal, and Fungal Biochemistry

Control of Diastereoselectivity for Iridium-Catalyzed Allylation of a Prochiral Nucleophile with a Phosphate Counterion

Wenyong Chen and John F. Hartwig

pp 2068–2071

Publication Date (Web): January 3, 2013 (Communication)

DOI: 10.1021/ja311363a

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Heterocyclic Compounds (More than One Hetero Atom)

DNAzyme Footprinting: Detecting Protein–Aptamer Complexation on Surfaces by Blocking DNAzyme Cleavage Activity

Yulin Chen and Robert M. Corn

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Publication Date (Web): January 27, 2013 (Communication)

DOI: 10.1021/ja311367t

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Biochemical Methods

A Rechargeable Li–O₂ Battery Using a Lithium Nitrate/*N,N*-Dimethylacetamide Electrolyte

Wesley Walker, Vincent Giordani, Jasim Uddin, Vyacheslav S. Bryantsev, Gregory V. Chase, and Dan Addison

pp 2076–2079

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DOI: 10.1021/ja311518s

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Electrochemical, Radiational, and Thermal Energy Technology

Redox Mediator Effect on Water Oxidation in a Ruthenium-Based Chromophore–Catalyst Assembly

Michael R. Norris, Javier J. Concepcion, Daniel P. Harrison, Robert A. Binstead, Dennis L. Ashford, Zhen Fang, Joseph L. Templeton, and Thomas J. Meyer

pp 2080–2083

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DOI: 10.1021/ja311645d

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Catalysis, Reaction Kinetics, and Inorganic Reaction Mechanisms

Formation of [3]Catenanes from 10 Precursors via Multicomponent Coordination-Driven Self-Assembly of Metallarectangles

Shijun Li, Jianying Huang, Timothy R. Cook, J. Bryant Pollock, Hyunuk Kim, Ki-Whan Chi, and Peter J. Stang

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DOI: 10.1021/ja3118812

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Substrate-Initiated Synthesis of Cell-Penetrating Poly(disulfide)s

Eun-Kyoung Bang, Giulio Gasparini, Guillaume Molinard, Aurélien Roux, Naomi Sakai, and Stefan Matile

pp 2088–2091

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DOI: 10.1021/ja311961k

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Iridium-Catalyzed [3 + 2] Annulation of Cyclic *N*-Sulfonyl Ketimines with 1,3-Dienes via C–H Activation

Takahiro Nishimura, Yusuke Ebe, and Tamio Hayashi

pp 2092–2095

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DOI: 10.1021/ja311968d

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Thermally Persistent Fluorosulfonyl Nitrene and Unexpected Formation of the Fluorosulfonyl Radical

Xiaoqing Zeng, Helmut Beckers, and Helge Willner

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DOI: 10.1021/ja312073w

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Catalytic Asymmetric Protonation of Silyl Ketene Imines

Joyram Guin, Georgy Varseev, and Benjamin List

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DOI: 10.1021/ja312141b

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Bifunctional Ruthenium(II) Hydride Complexes with Pendant Strong Lewis Acid Moieties: Structure, Dynamics, and Cooperativity

Thomas G. Ostapowicz, Carina Merkens, Markus Hölscher, Jürgen Klankermayer, and Walter Leitner

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When Electron Transfer Meets Electron Transport in Redox-Active Molecular Nanojunctions

Marion Janin, Jalal Ghilane, and Jean-Christophe Lacroix

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DOI: 10.1021/ja3122125

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Selective Cell Death by Photochemically Induced pH Imbalance in Cancer Cells

Xiling Yue, Ciceron O. Yanez, Sheng Yao, and Kevin D. Belfield

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Iridium-Catalyzed Intermolecular Asymmetric Hydroheteroarylation of Bicycloalkenes

Christo S. Sevov and John F. Hartwig

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Michael C. D. Tayler and Malcolm H. Levitt

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Magnetic Phenomena

Palladium-Catalyzed Picolinamide-Directed Alkylation of Unactivated C(sp³)-H Bonds with Alkyl Iodides

Shu-Yu Zhang, Gang He, William A. Nack, Yingsheng Zhao, Qiong Li, and Gong Chen

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DOI: 10.1021/ja312277g

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Heterocyclic Compounds (One Hetero Atom)

Time-Resolved Radiation Chemistry: Photoelectron Imaging of Transient Negative Ions of Nucleobases

Margaret A. Yandell, Sarah B. King, and Daniel M. Neumark

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DOI: 10.1021/ja312414y

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Dinuclear Bis-Propagators for the Stereoselective Living Coordinative Chain Transfer Polymerization of Propene

Jia Wei, Wonseok Hwang, Wei Zhang, and Lawrence R. Sita

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On-Surface Azide–Alkyne Cycloaddition on Cu(111): Does It “Click” in Ultrahigh Vacuum?

Fabian Bebensee, Christian Bombis, Sundar-Raja Vadapoo, Jacob R. Cramer, Flemming Besenbacher, Kurt V. Gothelf, and Trolle R. Linderoth

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Copper-Catalyzed Enantioselective Allyl–Allyl Cross-Coupling

Valentín Hornillos, Manuel Pérez, Martín Fañanás-Mastral, and Ben L. Feringa

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Stereochemical Control of Polymorph Transitions in Nanoscale Reactors

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Cooperative Supramolecular Polymerization Driven by Metallophilic Pd \cdots Pd Interactions

María José Mayoral, Christina Rest, Vladimir Stepanenko, Jennifer Schellheimer, Rodrigo Q. Albuquerque, and Gustavo Fernández

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DOI: 10.1021/ja312628g

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Chiral Selective Transmembrane Transport of Amino Acids through Artificial Channels

Lei Chen, Wen Si, Liang Zhang, Gangfeng Tang, Zhan-Ting Li, and Jun-Li Hou

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Supramolecular Switching between Flat Sheets and Helical Tubules Triggered by Coordination Interaction

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Twisted Tethered Tolanes: Unanticipated Long-Lived Phosphorescence at 77 K

Sebastian Menning, Maximilian Krämer, Benjamin A. Coombs, Frank Rominger, Andrew Beeby, Andreas Dreuw, and Uwe H. F. Bunz

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DOI: 10.1021/ja306681d

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Asymmetric Ligand Binding Facilitates Conformational Transitions in Pentameric Ligand-Gated Ion Channels

David Mowrey, Mary Hongying Cheng, Lu Tian Liu, Dan Willenbring, Xinghua Lu, Troy Wymore, Yan Xu, and Pei Tang

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Sequence Effects on Peptide Assembly Characteristics Observed by Using Scanning Tunneling Microscopy

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A Unified Electrocatalytic Description of the Action of Inhibitors of Nickel Carbon Monoxide Dehydrogenase

Vincent C.-C. Wang, Mehmet Can, Elizabeth Pierce, Stephen W. Ragsdale, and Fraser A. Armstrong

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A Generic Approach for the Synthesis of Dimer Nanoclusters and Asymmetric Nanoassemblies

Yongxing Hu and Yugang Sun

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DOI: 10.1021/ja309501s

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Ruthenium-Mediated C–H Functionalization of Pyridine: The Role of Vinylidene and Pyridylidene Ligands

David G. Johnson, Jason M. Lynam, Neetisha S. Mistry, John M. Slattery, Robert J. Thatcher, and Adrian C. Whitwood

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Publication Date (Web): December 17, 2012 (Article)

DOI: 10.1021/ja3097256

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Organometallic and Organometalloidal Compounds

Long-Loop G-Quadruplexes Are Misfolded Population Minorities with Fast Transition Kinetics in Human Telomeric Sequences

Deepak Koirala, Chiran Ghimire, Christopher Bohrer, Yuta Sannohe, Hiroshi Sugiyama, and Hanbin Mao

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DOI: 10.1021/ja309668t

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Productive Chemical Interaction between a Bacterial Microcolony Couple Is Enhanced by Periodic Relocation

Chang Kyu Byun, Hyundoo Hwang, Woon Sun Choi, Toshiyuki Yaguchi, Jiwoon Park, Dasol Kim, Robert J. Mitchell, Taesung Kim, Yoon-Kyoung Cho, and Shuichi Takayama
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Formation Pathway for LTA Zeolite Crystals Synthesized via a Charge Density Mismatch Approach

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DOI: 10.1021/ja309831e

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Proton-Conductive Magnetic Metal–Organic Frameworks, $\{NR_3(CH_2COOH)\}[M_a^{II}M_b^{III}(ox)_3]$: Effect of Carboxyl Residue upon Proton Conduction

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DOI: 10.1021/ja309968u

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DOI: 10.1021/ja310377d

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Size-Dependent Dissociation of Carbon Monoxide on Cobalt Nanoparticles

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Tetrahalide Complexes of the $[U(NR)_2]^{2+}$ Ion: Synthesis, Theory, and Chlorine K-Edge X-ray Absorption Spectroscopy

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DOI: 10.1021/ja310777k

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DOI: 10.1021/ja311080j

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Tunable Biomimetic Chalcogels with Fe₄S₄ Cores and [Sn_nS_{2n+2}]⁴⁻ (n = 1, 2, 4) Building Blocks for Solar Fuel Catalysis

Yurina Shim, Benjamin D. Yuhas, Scott M. Dyar, Amanda L. Smeigh, Alexios P. Douvalis, Michael R. Wasielewski, and Mercouri G. Kanatzidis

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Critical Role of Alkyl Chain Branching of Organic Semiconductors in Enabling Solution-Processed N-Channel Organic Thin-Film Transistors with Mobility of up to $3.50 \text{ cm}^2 \text{ V}^{-1} \text{ s}^{-1}$

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DOI: 10.1021/ja311571v

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DOI: 10.1021/ja3117203

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Time-Resolved Observation of Chiral-Index-Selective Wrapping on Single-Walled Carbon Nanotube with Non-Aromatic Polysilane

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David Baudouin, Kai Chung Szeto, Pierre Laurent, Aimery De Mallmann, Bernard Fenet, Laurent Veyre, Uwe Rodemerck, Christophe Copéret, and Chloé Thieuleux

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