

## Spotlights

### Spotlights on Recent *JACS* Publications

pp 529–529

**Publication Date (Web):** January 8, 2013 (Spotlights)

**DOI:** 10.1021/ja3127147

## Communications

### High Stability, High Activity Pt/ITO Oxygen Reduction Electrocatalysts

Ying Liu and William E. Mustain

pp 530–533

**Publication Date (Web):** December 27, 2012 (Communication)

**DOI:** 10.1021/ja307635r

 Section:

Electrochemical, Radiational, and Thermal Energy Technology

### Conversion of Fe–NH<sub>2</sub> to Fe–N<sub>2</sub> with release of NH<sub>3</sub>

John S. Anderson, Marc-Etienne Moret, and Jonas C. Peters

pp 534–537

**Publication Date (Web):** December 21, 2012 (Communication)

**DOI:** 10.1021/ja307714m

 Section:

Inorganic Chemicals and Reactions

### Real-Time Observation of Tight Au–Au Bond Formation and Relevant Coherent Motion upon Photoexcitation of [Au(CN)<sub>2</sub>]<sup>–</sup> Oligomers

Munetaka Iwamura, Koichi Nozaki, Satoshi Takeuchi, and Tahei Tahara

pp 538–541

**Publication Date (Web):** December 31, 2012 (Communication)

DOI: 10.1021/ja310004z

 Section:

Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes

## **d-Amino Acids Boost the Selectivity and Confer Supramolecular Hydrogels of a Nonsteroidal Anti-Inflammatory Drug (NSAID)**

Jiayang Li, Yi Kuang, Yuan Gao, Xuewen Du, Junfeng Shi, and Bing Xu

pp 542–545

**Publication Date (Web):** November 8, 2012 (Communication)

DOI: 10.1021/ja310019x

 Section:

Pharmaceuticals

## **Control of Crystallinity and Porosity of Covalent Organic Frameworks by Managing Interlayer Interactions Based on Self-Complementary $\pi$ -Electronic Force**

Xiong Chen, Matthew Addicoat, Stephan Irlé, Atsushi Nagai, and Donglin Jiang

pp 546–549

**Publication Date (Web):** December 27, 2012 (Communication)

DOI: 10.1021/ja3100319

 Section:

Surface Chemistry and Colloids

## **A Model of Smart G-Quadruplex Ligand**

Romain Haudecoeur, Loic Stefan, Franck Denat, and David Monchaud

pp 550–553

**Publication Date (Web):** December 29, 2012 (Communication)

DOI: 10.1021/ja310056y

 Section:

General Biochemistry

## **Molecular Marriage through Partner Preferences in Covalent Cage Formation and Cage-to-Cage Transformation**

Koushik Acharyya, Sandip Mukherjee, and Partha Sarathi Mukherjee

pp 554–557

**Publication Date (Web):** December 26, 2012 (Communication)

DOI: 10.1021/ja310083p

 Section:

Physical Organic Chemistry

## **Fullerene/Sulfur-Bridged Annulene Cocrystals: Two-Dimensional Segregated Heterojunctions with Ambipolar Transport Properties and Photoresponsivity**

Jing Zhang, Jiahui Tan, Zhiying Ma, Wei Xu, Guangyao Zhao, Hua Geng, Chong'an Di, Wenping Hu, Zhigang Shuai, Kamaljit Singh, and Daoben Zhu

pp 558–561

**Publication Date (Web):** December 28, 2012 (Communication)

**DOI:** 10.1021/ja310098k

 Section:

Electric Phenomena

## **Fine-Tuning Pore Size by Shifting Coordination Sites of Ligands and Surface Polarization of Metal–Organic Frameworks To Sharply Enhance the Selectivity for CO<sub>2</sub>**

Liting Du, Zhiyong Lu, Kaiyuan Zheng, Junyi Wang, Xin Zheng, Yi Pan, Xiaozeng You, and Junfeng Bai

pp 562–565

**Publication Date (Web):** December 26, 2012 (Communication)

**DOI:** 10.1021/ja309992a

 Section:

Surface Chemistry and Colloids

## **Visualizing the Perturbation of Cellular Cyclic di-GMP Levels in Bacterial Cells**

Chun Loong Ho, Kavin Shi Jie Chong, Jamila Akosua Oppong, Mary Lay Cheng Chuah, Suet Mien Tan, and Zhao-Xun Liang

pp 566–569

**Publication Date (Web):** January 4, 2013 (Communication)

**DOI:** 10.1021/ja310497x

 Section:

Biochemical Methods

## **Ultrasensitive Electroanalytical Tool for Detecting, Sizing, and Evaluating the Catalytic Activity of Platinum Nanoparticles**

Radhika Dasari, Donald A. Robinson, and Keith J. Stevenson

pp 570–573

**Publication Date (Web):** December 27, 2012 (Communication)

**DOI:** 10.1021/ja310614x

 Section:

Electrochemistry

## Sequential Photo-oxidation of Methanol to Methyl Formate on TiO<sub>2</sub>(110)

Katherine R. Phillips, Stephen C. Jensen, Martin Baron, Shao-Chun Li, and Cynthia M. Friend  
pp 574–577

**Publication Date (Web):** December 26, 2012 (Communication)

**DOI:** 10.1021/ja3106797

Section:

Physical Organic Chemistry

## Superomniphobic Surfaces for Effective Chemical Shielding

Shuaijun Pan, Arun K. Kota, Joseph M. Mabry, and Anish Tuteja  
pp 578–581

**Publication Date (Web):** December 23, 2012 (Communication)

**DOI:** 10.1021/ja310517s

Section:

Surface Chemistry and Colloids

## Total Synthesis of (±)-Bisabosqual A

Christopher W. am Ende, Zhou Zhou, and Kathlyn A. Parker  
pp 582–585

**Publication Date (Web):** December 26, 2012 (Communication)

**DOI:** 10.1021/ja3108577

Section:

Biomolecules and Their Synthetic Analogs

## Fullerene Crystals with Bimodal Pore Architectures Consisting of Macropores and Mesopores

Lok Kumar Shrestha, Yusuke Yamauchi, Jonathan P. Hill, Kun'ichi Miyazawa, and Katsuhiko Ariga

pp 586–589

**Publication Date (Web):** December 31, 2012 (Communication)

**DOI:** 10.1021/ja3108752

Section:

Surface Chemistry and Colloids

## Exploiting the Modularity of Ion-Paired Chiral Ligands for Palladium-Catalyzed Enantioselective Allylation of Benzofuran-2(3*H*)-ones

Kohsuke Ohmatsu, Mitsunori Ito, Tomoatsu Kunieda, and Takashi Ooi  
pp 590–593

**Publication Date (Web):** December 27, 2012 (Communication)

**DOI:** 10.1021/ja312125a

Section:  
Heterocyclic Compounds (One Hetero Atom)

## **Diametric Stereocontrol in Dynamic Catalytic Reduction of Racemic Acyl Phosphonates: Divergence from $\alpha$ -Keto Ester Congeners**

Michael T. Corbett and Jeffrey S. Johnson

pp 594–597

**Publication Date (Web):** January 8, 2013 (Communication)

**DOI:** 10.1021/ja310980q

Section:  
Organometallic and Organometalloidal Compounds


## **Thermochemistry of Zeolitic Imidazolate Frameworks of Varying Porosity**

James T. Hughes, Thomas D. Bennett, Anthony K. Cheetham, and Alexandra Navrotsky

pp 598–601

**Publication Date (Web):** December 27, 2012 (Communication)

**DOI:** 10.1021/ja311237m

Section:  
Thermodynamics, Thermochemistry, and Thermal Properties


## **Top-Down Preparation of Self-Supporting Supramolecular Polymeric Membranes Using Highly Selective Photocyclic Aromatization of Cis–Cisoid Helical Poly(phenylacetylene)s in the Membrane State**

Lijia Liu, Takeshi Namikoshi, Yu Zang, Toshiki Aoki, Shingo Hadano, Yunosuke Abe, Ikuya Wasuzu, Toyokazu Tsutsuba, Masahiro Teraguchi, and Takashi Kaneko

pp 602–605

**Publication Date (Web):** December 20, 2012 (Communication)

**DOI:** 10.1021/ja3113214

Section:  
Plastics Fabrication and Uses


## **Shape Control from Thermodynamic Growth Conditions: The Case of hcp Ruthenium Hourglass Nanocrystals**

John Watt, Chenlong Yu, Shery L. Y. Chang, Soshan Cheong, and Richard D. Tilley

pp 606–609

**Publication Date (Web):** December 26, 2012 (Communication)

**DOI:** 10.1021/ja311366k

Section:  
Nonferrous Metals and Alloys

## **X-ray Spectroscopic Observation of an Interstitial Carbide in NifEN-Bound FeMoco Precursor**

Kyle M. Lancaster, Yilin Hu, Uwe Bergmann, Markus W. Ribbe, and Serena DeBeer  
pp 610–612

**Publication Date (Web):** December 31, 2012 (Communication)

**DOI:** 10.1021/ja309254g

 Section:

Enzymes

## **Noncovalent Tailoring of the Binding Pocket of Self-Assembled Cages by Remote Bulky Ancillary Groups**

Yu Fang, Takashi Murase, Sota Sato, and Makoto Fujita  
pp 613–615

**Publication Date (Web):** December 27, 2012 (Communication)

**DOI:** 10.1021/ja311373f

 Section:

Inorganic Chemicals and Reactions

## **Palladium-Catalyzed C–H Activation/Cross-Coupling of Pyridine *N*-Oxides with Nonactivated Secondary Alkyl Bromides**

Bin Xiao, Zhao-Jing Liu, Lei Liu, and Yao Fu  
pp 616–619

**Publication Date (Web):** January 2, 2013 (Communication)

**DOI:** 10.1021/ja3113752

 Section:

Heterocyclic Compounds (One Hetero Atom)

## **Iron(II) Bromide-Catalyzed Intramolecular C–H Bond Amination [1,2]-Shift Tandem Reactions of Aryl Azides**

Quyen Nguyen, Tuyen Nguyen, and Tom G. Driver  
pp 620–623

**Publication Date (Web):** December 24, 2012 (Communication)

**DOI:** 10.1021/ja3113565

 Section:

Heterocyclic Compounds (One Hetero Atom)

## **Nickel-Catalyzed Carbon–Carbon Bond-Forming Reactions of Unactivated Tertiary Alkyl Halides: Suzuki Arylations**

Susan L. Zultanski and Gregory C. Fu  
pp 624–627

**Publication Date (Web):** January 2, 2013 (Communication)

**DOI:** 10.1021/ja311669p

 Section:

General Organic Chemistry

## **Catalytic Enantioselective Cyclization and C3-Fluorination of Polyenes**

Nikki A. Cochrane, Ha Nguyen, and Michel R. Gagne

pp 628–631

**Publication Date (Web):** January 2, 2013 (Communication)

**DOI:** 10.1021/ja3116795

 Section:

Heterocyclic Compounds (One Hetero Atom)

## **Bromine Radical-Mediated Sequential Radical Rearrangement and Addition Reaction of Alkylidenecyclopropanes**

Takashi Kippo, Kanako Hamaoka, and Ilhyong Ryu

pp 632–635

**Publication Date (Web):** December 26, 2012 (Communication)

**DOI:** 10.1021/ja311821h

 Section:

General Organic Chemistry

## **A Tunable Class of Chiral Cp Ligands for Enantioselective Rhodium(III)-Catalyzed C–H Allylations of Benzamides**

Baihua Ye and Nicolai Cramer

pp 636–639

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

**DOI:** 10.1021/ja311956k

 Section:

Benzene, Its Derivatives, and Condensed Benzenoid Compounds

## **Photoalignment Layers for Liquid Crystals from the Di- $\pi$ -methane Rearrangement**

Jason R. Cox, Jeffrey H. Simpson, and Timothy M. Swager

pp 640–643

**Publication Date (Web):** January 2, 2013 (Communication)

**DOI:** 10.1021/ja312090p

 Section:

Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes

## **Enantioselective Total Synthesis of Hyperforin**

Brian A. Sparling, David C. Moebius, and Matthew D. Shair

pp 644–647

**Publication Date (Web):** December 28, 2012 (Communication)

**DOI:** 10.1021/ja312150d

Section:

Biomolecules and Their Synthetic Analogs

## **Bi-reforming of Methane from Any Source with Steam and Carbon Dioxide Exclusively to Metgas (CO–2H<sub>2</sub>) for Methanol and Hydrocarbon Synthesis**

George A. Olah, Alain Goeppert, Miklos Czaun, and G. K. Surya Prakash

pp 648–650

**Publication Date (Web):** December 20, 2012 (Communication)

**DOI:** 10.1021/ja311796n

Section:

Fossil Fuels, Derivatives, and Related Products

### **Articles**

## **First Observation of a Kondo Resonance for a Stable Neutral Pure Organic Radical, 1,3,5-Triphenyl-6-oxoverdazyl, Adsorbed on the Au(111) Surface**

Jie Liu, Hironari Isshiki, Keiichi Katoh, Takaumi Morita, Brian, K. Breedlove, Masahiro Yamashita, and Tadahiro Komeda

pp 651–658

**Publication Date (Web):** December 15, 2012 (Article)

**DOI:** 10.1021/ja303510g

Section:

Physical Organic Chemistry

## **Regioselective Aliphatic Carbon–Carbon Bond Cleavage by a Model System of Relevance to Iron-Containing Acireductone Dioxygenase**

Caleb J. Allpress, Katarzyna Grubel, Ewa Szajna-Fuller, Atta M. Arif, and Lisa M. Berreau

pp 659–668

**Publication Date (Web):** December 7, 2012 (Article)

**DOI:** 10.1021/ja3038189

Section:

Enzymes



## **High-Affinity, Small-Molecule Peptidomimetic Inhibitors of MLL1/WDR5 Protein–Protein Interaction**

Hacer Karatas, Elizabeth C. Townsend, Fang Cao, Yong Chen, Denzil Bernard, Liu Liu, Ming Lei, Yali Dou, and Shaomeng Wang

pp 669–682

**Publication Date (Web):** December 4, 2012 (Article)

**DOI:** 10.1021/ja306028q

 Section:

Pharmacology

## **Anionic Substituent Control of the Electronic Structure of Aromatic Nitrenes**

Nathan J. Rau, Emily A. Welles, and Paul G. Wenthold

pp 683–690

**Publication Date (Web):** December 31, 2012 (Article)

**DOI:** 10.1021/ja306364z

 Section:

Physical Organic Chemistry

## **Control of Intermolecular Bonds by Deposition Rates at Room Temperature: Hydrogen Bonds versus Metal Coordination in Trinitrile Monolayers**

Thomas Sirtl, Stefan Schlögl, Atena Rastgoo-Lahrood, Jelena Jelic, Subhadip Neogi, Michael Schmittel, Wolfgang M. Heckl, Karsten Reuter, and Markus Lackinger

pp 691–695

**Publication Date (Web):** December 18, 2012 (Article)

**DOI:** 10.1021/ja306834a

 Section:

Surface Chemistry and Colloids

## **Single-Step Rapid Assembly of DNA Origami Nanostructures for Addressable Nanoscale Bioreactors**

Yanming Fu, Dongdong Zeng, Jie Chao, Yanqiu Jin, Zhao Zhang, Huajie Liu, Di Li, Hongwei Ma, Qing Huang, Kurt V. Gothelf, and Chunhai Fan

pp 696–702

**Publication Date (Web):** December 14, 2012 (Article)

**DOI:** 10.1021/ja3076692

 Section:

Biochemical Methods

## **A One-Pot Three-Component Radiochemical Reaction for Rapid Assembly of <sup>125</sup>I-Labeled Molecular Probes**

Ran Yan, Kerstin Sander, Eva Galante, Vineeth Rajkumar, Adam Badar, Mathew Robson, Ethaar El-Emir, Mark F. Lythgoe, R. Barbara Pedley, and Erik Årstad  
pp 703–709

**Publication Date (Web):** November 29, 2012 (Article)

**DOI:** 10.1021/ja307926g

Section:

Heterocyclic Compounds (More than One Hetero Atom)

## **Ionization state of l-Phenylalanine at the Air–Water Interface**

Elizabeth C. Griffith and Veronica Vaida

pp 710–716

**Publication Date (Web):** December 15, 2012 (Article)

**DOI:** 10.1021/ja308089n

Section:

Physical Organic Chemistry

## **Calculation of Vibrational Shifts of Nitrile Probes in the Active Site of Ketosteroid Isomerase upon Ligand Binding**

Joshua P. Layfield and Sharon Hammes-Schiffer

pp 717–725

**Publication Date (Web):** December 5, 2012 (Article)

**DOI:** 10.1021/ja3084384

Section:

Enzymes

## **Phonon Scattering through a Local Anisotropic Structural Disorder in the Thermoelectric Solid Solution $\text{Cu}_2\text{Zn}_{1-x}\text{Fe}_x\text{GeSe}_4$**

Wolfgang G. Zeier, Yanzhong Pei, Gregory Pomrehn, Tristan Day, Nicholas Heinz, Christophe P. Heinrich, G. Jeffrey Snyder, and Wolfgang Tremel

pp 726–732

**Publication Date (Web):** December 20, 2012 (Article)

**DOI:** 10.1021/ja308627v

Section:

Electric Phenomena

## **Mammalian Frataxin Controls Sulfur Production and Iron Entry during de Novo $\text{Fe}_4\text{S}_4$ Cluster Assembly**

Florent Colin, Alain Martelli, Martin Clémancey, Jean-Marc Latour, Serge Gambarelli, Laura Zeppieri, Catherine Birck, Adeline Page, Hélène Puccio, and Sandrine Ollagnier de Choudens  
pp 733–740

**Publication Date (Web):** December 22, 2012 (Article)

DOI: 10.1021/ja308736e

 Section:

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## Development of a Robust Model System of FRET using Base Surrogates Tethering Fluorophores for Strict Control of Their Position and Orientation within DNA Duplex

Tomohiro Kato, Hiromu Kashida, Hideo Kishida, Hiroyuki Yada, Hiroshi Okamoto, and Hiroyuki Asanuma

pp 741–750

**Publication Date (Web):** December 14, 2012 (Article)

DOI: 10.1021/ja309279w

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Biochemical Methods

## Nickel-Catalyzed Reductive Conjugate Addition to Enones via Allylnickel Intermediates

Ruja Shrestha, Stephanie C. M. Dorn, and Daniel J. Weix

pp 751–762

**Publication Date (Web):** December 27, 2012 (Article)

DOI: 10.1021/ja309176h

 Section:

Aliphatic Compounds

## Lithium–Sulfur Battery Cathode Enabled by Lithium–Nitrile Interaction

Juchen Guo, Zichao Yang, Yingchao Yu, Héctor D. Abruña, and Lynden A. Archer

pp 763–767

**Publication Date (Web):** December 12, 2012 (Article)

DOI: 10.1021/ja309435f

 Section:

Electrochemical, Radiational, and Thermal Energy Technology

## Nanoscale Stabilization of New Phases in the PbTe–Sb<sub>2</sub>Te<sub>3</sub> System: Pb<sub>m</sub>Sb<sub>2n</sub>Te<sub>m+3n</sub> Nanocrystals

Ronald B. Soriano, Indika U. Arachchige, Christos D. Malliakas, Jinsong Wu, and Mercuri G. Kanatzidis

pp 768–774

**Publication Date (Web):** December 28, 2012 (Article)

DOI: 10.1021/ja309626q

 Section:

Crystallography and Liquid Crystals

## **High-Affinity Manganese Coordination by Human Calprotectin Is Calcium-Dependent and Requires the Histidine-Rich Site Formed at the Dimer Interface**

Joshua A. Hayden, Megan Brunjes Brophy, Lisa S. Cunden, and Elizabeth M. Nolan  
pp 775–787

**Publication Date (Web):** December 31, 2012 (Article)

**DOI:** 10.1021/ja3096416

 Section:

General Biochemistry

## **Mechanism-based Inhibition Reveals Transitions between Two Conformational States in the Action of Lysine 5,6-Aminomutase: A Combination of Electron Paramagnetic Resonance Spectroscopy, Electron Nuclear Double Resonance Spectroscopy, and Density Functional Theory Study**

Yung-Han Chen, Amarendra N. Maity, Perry A. Frey, and Shyue-Chu Ke  
pp 788–794

**Publication Date (Web):** December 12, 2012 (Article)

**DOI:** 10.1021/ja309603a

 Section:

Enzymes

## **Assignment of Pterin Deaminase Activity to an Enzyme of Unknown Function Guided by Homology Modeling and Docking**

Hao Fan, Daniel S. Hitchcock, Ronald D. Seidel, II, Brandan Hillerich, Henry Lin, Steven C. Almo, Andrej Sali, Brian K. Shoichet, and Frank M. Raushel  
pp 795–803

**Publication Date (Web):** December 20, 2012 (Article)

**DOI:** 10.1021/ja309680b

 Section:

Enzymes

## **Methane Reacts with Heteropolyacids Chemisorbed on Silica to Produce Acetic Acid under Soft Conditions**

Miao Sun, Edy Abou-Hamad, Aaron J. Rossini, Jizhe Zhang, Anne Lesage, Haibo Zhu, Jeremie Pelletier, Lyndon Emsley, Valerie Caps, and Jean-Marie Basset  
pp 804–810

**Publication Date (Web):** December 26, 2012 (Article)

**DOI:** 10.1021/ja309966j

Section:

Industrial Organic Chemicals, Leather, Fats, and Waxes

## **Cationic, Neutral, and Anionic Allyl Magnesium Compounds: Unprecedented Ligand Conformations and Reactivity Toward Unsaturated Hydrocarbons**

Crispin Lichtenberg, Thomas P. Spaniol, Ilja Peckermann, Timothy P. Hanusa, and Jun Okuda  
pp 811–821

**Publication Date (Web):** December 14, 2012 (Article)

**DOI:** 10.1021/ja310112e

Section:

Organometallic and Organometalloidal Compounds

## **Interplay between Structure and Relaxations in Perfluorosulfonic Acid Proton Conducting Membranes**

Guinevere A. Giffin, Gregory M. Haugen, Steven J. Hamrock, and Vito Di Noto  
pp 822–834

**Publication Date (Web):** December 18, 2012 (Article)

**DOI:** 10.1021/ja3099799

Section:

Plastics Fabrication and Uses

## **General Methodology of Using Oil-in-Water and Water-in-Oil Emulsions for Coiling Nanofilaments**

Liyong Chen, Suzhu Yu, Hong Wang, Jun Xu, Cuicui Liu, Wen Han Chong, and Hongyu Chen  
pp 835–843

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

**DOI:** 10.1021/ja310405d

Section:

Surface Chemistry and Colloids

## **Synthesis, Electronic Structure, Molecular Packing/Morphology Evolution, and Carrier Mobilities of Pure Oligo-/Poly(alkylthiophenes)**

Lei Zhang, Nicholas S. Colella, Feng Liu, Stephan Trahan, Jayanta K. Baral, H. Henning Winter, Stefan C. B. Mannsfeld, and Alejandro L. Briseno  
pp 844–854

**Publication Date (Web):** December 11, 2012 (Article)

**DOI:** 10.1021/ja3104796

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Plastics Manufacture and Processing

## Fluorescence Coupling for Direct Imaging of Electrocatalytic Heterogeneity

Joshua P. Guerrette, Stephen J. Percival, and Bo Zhang  
pp 855–861

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

**DOI:** 10.1021/ja310401b

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Electrochemistry

## Light-Harvesting and Ultrafast Energy Migration in Porphyrin-Based Metal–Organic Frameworks

Ho-Jin Son, Shengye Jin, Sameer Patwardhan, Sander J. Wezenberg, Nak Cheon Jeong, Monica So, Christopher E. Wilmer, Amy A. Sarjeant, George C. Schatz, Randall Q. Snurr, Omar K. Farha, Gary P. Wiederrecht, and Joseph T. Hupp

pp 862–869

**Publication Date (Web):** December 18, 2012 (Article)

**DOI:** 10.1021/ja310596a

 Section:

Electrochemical, Radiational, and Thermal Energy Technology

## Spherical Assemblies from $\pi$ -Conjugated Alternating Copolymers: Toward Optoelectronic Colloidal Crystals

Taeko Adachi, Liang Tong, Junpei Kuwabara, Takaki Kanbara, Akinori Saeki, Shu Seki, and Yohei Yamamoto

pp 870–876

**Publication Date (Web):** December 28, 2012 (Article)

**DOI:** 10.1021/ja3106626

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Physical Properties of Synthetic High Polymers

## Tandem-Layered Quantum Dot Solar Cells: Tuning the Photovoltaic Response with Luminescent Ternary Cadmium Chalcogenides

Pralay K. Santra and Prashant V. Kamat

pp 877–885

**Publication Date (Web):** December 18, 2012 (Article)

**DOI:** 10.1021/ja310737m

 Section:

Electrochemical, Radiational, and Thermal Energy Technology

## Universal Transients in Polymer and Ionic Transition Metal Complex Light-Emitting Electrochemical Cells

Stephan van Reenen, Takeo Akatsuka, Daniel Tordera, Martijn Kemerink, and Henk J. Bolink  
pp 886–891

**Publication Date (Web):** December 20, 2012 (Article)

**DOI:** 10.1021/ja3107803

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Optical, Electron, and Mass Spectroscopy and Other Related Properties

## **Anion– $\pi$ Interactions: Generality, Binding Strength, and Structure**

De-Xian Wang and Mei-Xiang Wang

pp 892–897

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

**DOI:** 10.1021/ja310834w

Section:

Physical Organic Chemistry

## **Unveiling the Reactivity of Propargylic Hydroperoxides under Gold Catalysis**

Benito Alcaide, Pedro Almendros, M. Teresa Quirós, Ramón López, María I. Menéndez, and Aleksandra Sochacka-Ćwikła

pp 898–905

**Publication Date (Web):** December 11, 2012 (Article)

**DOI:** 10.1021/ja3108966

Section:

Physical Organic Chemistry

## **Generation of Oxygen Vacancies at a Au/TiO<sub>2</sub> Perimeter Interface during CO Oxidation Detected by in Situ Electrical Conductance Measurement**

Yasushi Maeda, Yasuo Iizuka, and Masanori Kohyama

pp 906–909

**Publication Date (Web):** December 26, 2012 (Article)

**DOI:** 10.1021/ja310999c

Section:

Air Pollution and Industrial Hygiene

## **Y<sub>3</sub>MnAu<sub>5</sub>: Three Distinctive *d*-Metal Functions in an Intergrown Cluster Phase**

Saroj L. Samal, Abhishek Pandey, David C. Johnston, and John D. Corbett

pp 910–917

**Publication Date (Web):** December 21, 2012 (Article)

**DOI:** 10.1021/ja3110208

Section:

## **A Structural Diagnostics Diagram for Metallofullerenes Encapsulating Metal Carbides and Nitrides**

Sachiko Maki, Eiji Nishibori, Ikuya Terauchi, Masayuki Ishihara, Shinobu Aoyagi, Makoto Sakata, Masaki Takata, Hisashi Umemoto, Takashi Inoue, and Hisanori Shinohara  
pp 918–923

**Publication Date (Web):** December 21, 2012 (Article)

**DOI:** 10.1021/ja311070v

 Section:

Crystallography and Liquid Crystals

## **Synthesis of N3'-P5'-linked Phosphoramidate DNA by Nonenzymatic Template-Directed Primer Extension**

Shenglong Zhang, Na Zhang, J. Craig Blain, and Jack W. Szostak  
pp 924–932

**Publication Date (Web):** December 19, 2012 (Article)

**DOI:** 10.1021/ja311164j

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 Section:

General Biochemistry

## **Acid-Active Cell-Penetrating Peptides for in Vivo Tumor-Targeted Drug Delivery**

Erlei Jin, Bo Zhang, Xuanrong Sun, Zhuxian Zhou, Xinpeng Ma, Qihang Sun, Jianbin Tang, Youqing Shen, Edward Van Kirk, William J. Murdoch, and Maciej Radosz  
pp 933–940

**Publication Date (Web):** December 19, 2012 (Article)

**DOI:** 10.1021/ja311180x

 Section:

Pharmaceuticals

## **Mechanistic Studies on the Metal-Free Activation of Dihydrogen by Antiaromatic Pentarylboroles**

Adrian Y. Houghton, Virve A. Karttunen, Cheng Fan, Warren E. Piers, and Heikki M. Tuononen  
pp 941–947

**Publication Date (Web):** December 21, 2012 (Article)

**DOI:** 10.1021/ja311842r

 Section:

Organometallic and Organometalloidal Compounds

**Additions and Corrections**



# Correction to “Affinity-Based Probes Based on Type II Kinase Inhibitors”

Pratistha Ranjitkar, B. Gayani K. Perera, Danielle L. Swaney, Sanjay B. Hari, Eric T. Larson, Ratika Krishnamurty, Ethan A. Merritt, Judit Villén, and Dustin J. Maly  
pp 948–948

**Publication Date (Web):** January 7, 2013 (Addition/Correction)

**DOI:** 10.1021/ja3120967

 Section:

Enzymes