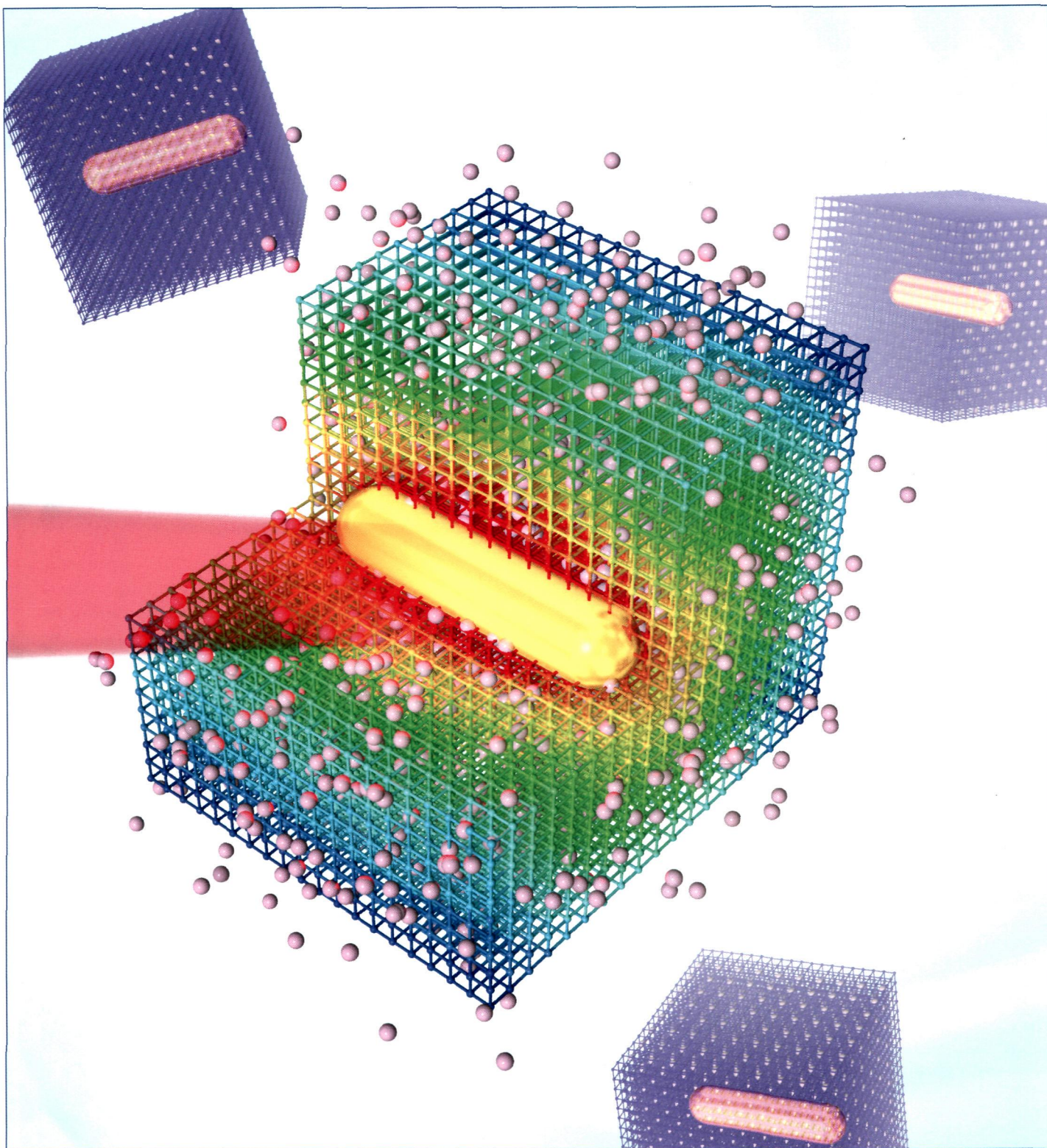


July 31, 2013
Volume 135
Number 30
pubs.acs.org/JACS

J | A | C | S

JOURNAL OF THE AMERICAN CHEMICAL SOCIETY



ACS Publications

MOST TRUSTED. MOST CITED. MOST READ.

www.acs.org

Log In Register 

ACS ACS Publications C&EN CAS

ACS Publications
MOST TRUSTED. MOST CITED. MOST READ.

ACS Journals

ACS ChemWorx

ACS Books

ACS Style Guide

C&EN Archives

Subscribe

Help

J | A | C | S
JOURNAL OF THE AMERICAN CHEMICAL SOCIETYSearch text Anywhere J. Am. Chem. Soc. All Publications/Website

Table of Contents

July 31, 2013
Volume 135, Issue 30
Pages 10881-11412

In this issue:

> SPOTLIGHTS

> COMMUNICATIONS

> ARTICLES

About the Cover:

Mesoscale core-shell composites, composed of an individual gold nanorod core and an aluminum-based porous coordination polymer shell, were successfully fabricated and characterized. Combination of the storage capacity of porous framework with the photothermal conversion property of nanorods resulted in the implementation of unique motion-induced molecular release. See Furukawa and co-workers, p 10998. [View the article.](#)

[Larger Cover](#)[Order Print Issue](#) ACS AuthorChoice indicates the article is freely available through sponsorship by the author or related funding agency. [More about this program.](#) For Selected: [View Abstracts](#) [Add to ACS ChemWorx](#) [Download Citations](#)

SPOTLIGHTS

 Spotlights on Recent JACS Publications

ACS Contributing Correspondents

pp 10881-10882

Publication Date (Web): July 31, 2013 (Spotlights)

DOI: 10.1021/ja4074535

Abstract

ACS ActiveView PDF
Hi-Res Print, Annotate, Reference QuickView

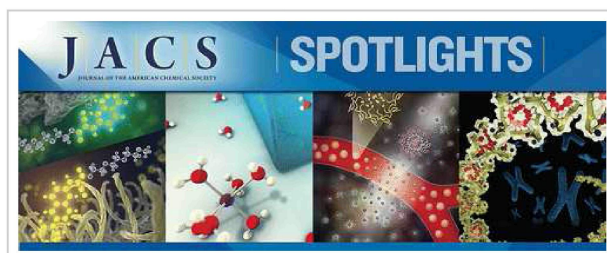
PDF [128K]

PDF w/ Links [128K]

Full Text HTML

[Add to ACS ChemWorx](#)

Sponsored Access



COMMUNICATIONS

Molybdopterin Biosynthesis: Trapping an Unusual Purine Ribose Adduct in the MoaA-Catalyzed Reaction

Angad P. Mehta, Sameh H. Abdelwahed, and Tadhg P. Begley

pp 10883-10885

Publication Date (Web): July 12, 2013 (Communication)

DOI: 10.1021/ja4041048

 Section: **Enzymes**

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

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[800K\]](#)

[PDF w/ Links \[260K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

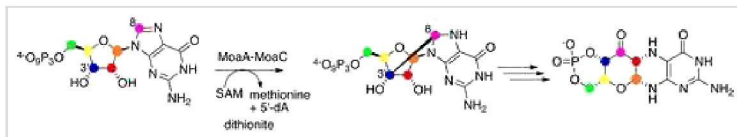


Figure 1 of 5

Enantioselective Total Synthesis of (-)-Citridinadine A and Revision of Its Stereochemical Structure

Zhiguo Bian, Christopher C. Marvin, and Stephen F. Martin

pp 10886-10889

Publication Date (Web): July 9, 2013 (Communication)

DOI: 10.1021/ja405547f

 Section: **Alkaloids**

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

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[823K\]](#)

[PDF w/ Links \[316K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

An Enantioselective Total Synthesis and Stereochemical Revision of (+)-Citridinadine B

Ke Kong, John A. Enquist, Jr., Monica E. McCallum, Genessa M. Smith, Takanori Matsumaru, Elnaz Menhaji-Klotz, and John L. Wood

pp 10890-10893

Publication Date (Web): July 9, 2013 (Communication)

DOI: 10.1021/ja405548b

 Section: **Alkaloids**

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

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[841K\]](#)

[PDF w/ Links \[341K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

Observation of Individual Semiconducting Nanoparticle Collisions by Stochastic Photoelectrochemical Currents

Ashantha Fernando, Suman Parajuli, and Mario A. Alpuche-Aviles

pp 10894-10897

Publication Date (Web): July 17, 2013 (Communication)

DOI: 10.1021/ja4007639

 Section: **Electric Phenomena**

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

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[368K\]](#)

[PDF w/ Links \[234K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

Tunable Heparan Sulfate Mimetics for Modulating Chemokine Activity

Gloria J. Sheng, Young In Oh, Shuh-Kuen Chang, and Linda C. Hsieh-Wilson

pp 10898-10901

Publication Date (Web): July 23, 2013 (Communication)

DOI: 10.1021/ja4027727

 ACS AuthorChoice  Section: **Immunochemistry**

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


[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView


[PDF \[1293K\]](#)


[PDF w/ Links \[279K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)


- Adaptive Pores: Charge Transfer Modules as Supramolecular Handles for Reversible Pore Engineering of Mesoporous Silica** [Abstract](#) | [Supporting Info](#)
B. V. V. S. Pavan Kumar, K. Venkata Rao, T. Soumya, Subi J. George, and M. Eswaramoorthy
pp 10902-10905
Publication Date (Web): July 17, 2013 (Communication)
DOI: 10.1021/ja403547z

- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[2092K\]](#)
[PDF w/ Links \[334K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)


- Deconstructing Activation Events in Rhodopsin** [Abstract](#) | [Supporting Info](#)
Elena N. Laricheva, Karunesh Arora, Jennifer L. Knight, and Charles L. Brooks, III
pp 10906-10909
Publication Date (Web): July 10, 2013 (Communication)
DOI: 10.1021/ja4042687

- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[1081K\]](#)
[PDF w/ Links \[250K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)


- Dehydrocoupling Reactions of Dimethylamine-Borane by Pt(II) Complexes: A New Mechanism Involving Deprotonation of Boronium Cations** [Abstract](#) | [Supporting Info](#)
Marta Roselló-Merino, Joaquín López-Serrano, and Salvador Conejero
pp 10910-10913
Publication Date (Web): July 3, 2013 (Communication)
DOI: 10.1021/ja404655v

- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[646K\]](#)
[PDF w/ Links \[259K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)


- Selective Synthesis of Co₈S₁₅ Cluster in Bowl-Shaped Template of the Pentaaryl[60]fullerene Ligand** [Abstract](#) | [Supporting Info](#)
Masashi Maruyama, Kenta Imoto, Matthias König, Dirk M. Guldi, Shin-ichi Ohkoshi, Eiichi Nakamura, and Yutaka Matsuo
pp 10914-10917
Publication Date (Web): July 18, 2013 (Communication)
DOI: 10.1021/ja405045t


- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[1374K\]](#)
[PDF w/ Links \[297K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)


- Nanoporous Poly(lactide) by Olefin Metathesis Degradation** [Abstract](#) | [Supporting Info](#)
Arthur Bertrand and Marc A. Hillmyer
pp 10918-10921
Publication Date (Web): July 19, 2013 (Communication)
DOI: 10.1021/ja405053z

- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[1051K\]](#)
[PDF w/ Links \[369K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)


- Patterned Silver Nanoparticles embedded in a Nanoporous Smectic Liquid Crystalline Polymer Network** [Abstract](#) | [Supporting Info](#)
Debarshi Dasgupta, Ielina K. Shishmanova, Amparo Ruiz-Carretero, Kangbo Lu, Martinus Verhoeven, Huub P. C. van Kuringen, Giuseppe Portale, Philippe Leclère, Cees W. M. Bastiaansen, Dirk J. Broer, and Albertus P. H. J. Schenning
pp 10922-10925
Publication Date (Web): July 8, 2013 (Communication)
DOI: 10.1021/ja404825y

- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[3991K\]](#)
[PDF w/ Links \[299K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)


- Plasmon-Enhanced Photothermoelectric Conversion in Chemical Vapor Deposited Graphene p–n Junctions** [Abstract](#) | [Supporting Info](#)
- Di Wu, Kai Yan, Yu Zhou, Huan Wang, Li Lin, Hailin Peng, and Zhongfan Liu
pp 10926–10929
Publication Date (Web): July 12, 2013 (Communication)
DOI: 10.1021/ja404890n
-  **Section:** Optical, Electron, and Mass Spectroscopy and Other Related Properties
- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[1298K\]](#)
[PDF w/ Links \[264K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)


- Regioselective Carbonylation of *trans*-Disubstituted Epoxides to β -Lactones: A Viable Entry into *syn*-Aldol-Type Products** [Abstract](#) | [Supporting Info](#)
- Michael Mulzer, Bryan T. Whiting, and Geoffrey W. Coates
pp 10930–10933
Publication Date (Web): June 21, 2013 (Communication)
DOI: 10.1021/ja405151n
-  **Section:** Heterocyclic Compounds (One Hetero Atom)
- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[700K\]](#)
[PDF w/ Links \[299K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)


- Overtuning Established Chemoselectivities: Selective Reduction of Arenes over Malonates and Cyanoacetates by Photoactivated Organic Electron Donors** [Abstract](#) | [Supporting Info](#)
- Eswararao Doni, Bhaskar Mondal, Steven O'Sullivan, Tell Tuttle, and John A. Murphy
pp 10934–10937
Publication Date (Web): July 16, 2013 (Communication)
DOI: 10.1021/ja4050168
-  **Section:** Physical Organic Chemistry
- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[530K\]](#)
[PDF w/ Links \[308K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)


- Tunable Thioesters as “Reduction” Responsive Functionality for Traceless Reversible Protein PEGylation** [Abstract](#) | [Supporting Info](#)
- Jianwei Chen, Mingkun Zhao, Fude Feng, Antons Sizovs, and Jin Wang
pp 10938–10941
Publication Date (Web): July 12, 2013 (Communication)
DOI: 10.1021/ja405261u
-  **Section:** Pharmaceuticals
- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[1506K\]](#)
[PDF w/ Links \[291K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)


- Engineering the Optical Response of the Titanium-MIL-125 Metal–Organic Framework through Ligand Functionalization** [Abstract](#) | [Supporting Info](#)
- Christopher H. Hendon, Davide Tiana, Marc Fontecave, Clément Sanchez, Loïc D'arras, Capucine Sassoie, Laurence Rozes, Caroline Mellot-Draznieks, and Aron Walsh
pp 10942–10945
Publication Date (Web): July 10, 2013 (Communication)
DOI: 10.1021/ja405350u
-  **Section:** Optical, Electron, and Mass Spectroscopy and Other Related Properties
- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[2715K\]](#)
[PDF w/ Links \[330K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)


- Enantioconvergent Cross-Couplings of Racemic Alkylmetal Reagents with Unactivated Secondary Alkyl Electrophiles: Catalytic Asymmetric Negishi α -Alkylations of *N*-Boc-pyrrolidine** [Abstract](#) | [Supporting Info](#)
- Christopher J. Cordier, Rylan J. Lundgren, and Gregory C. Fu
pp 10946–10949
Publication Date (Web): July 19, 2013 (Communication)
DOI: 10.1021/ja4054114
-  **Section:** Heterocyclic Compounds (One Hetero Atom)
- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[740K\]](#)
[PDF w/ Links \[309K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)


- A Robust Molecular Porous Material with High CO₂ Uptake and Selectivity** [Abstract](#) | [Supporting Info](#)
Patrick S. Nugent, Vanessah Lou Rhodus, Tony Pham, Katherine Forrest, Lukasz Wojtas, Brian Space, and Michael J. Zaworotko
pp 10950-10953
Publication Date (Web): July 16, 2013 (Communication)
DOI: 10.1021/ja4054948
 ACS Section: Surface Chemistry and Colloids
[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[1707K\]](#)
[PDF w/ Links \[314K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)


- Palladium(II)-Catalyzed Direct Carboxylation of Alkenyl C–H Bonds with CO₂** [Abstract](#) | [Supporting Info](#)
Kota Sasano, Jun Takaya, and Nobuharu Iwasawa
pp 10954-10957
Publication Date (Web): July 18, 2013 (Communication)
DOI: 10.1021/ja405503y
 ACS Section: Heterocyclic Compounds (One Hetero Atom)
[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[464K\]](#)
[PDF w/ Links \[257K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)


- Bimetallic FeNi Concave Nanocubes and Nanocages** [Abstract](#) | [Supporting Info](#)
Nafiseh Moghimi, Marwa Abdellah, Joseph Palathinkal Thomas, Mamata Mohapatra, and K. T. Leung
pp 10958-10961
Publication Date (Web): July 9, 2013 (Communication)
DOI: 10.1021/ja405504q
 ACS Section: Waste Treatment and Disposal
[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[2022K\]](#)
[PDF w/ Links \[296K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)


- Spiro-Ring Formation is Catalyzed by a Multifunctional Dioxygenase in Austinol Biosynthesis** [Abstract](#) | [Supporting Info](#)
Yudai Matsuda, Takayoshi Awakawa, Toshiyuki Wakimoto, and Ikuro Abe
pp 10962-10965
Publication Date (Web): July 18, 2013 (Communication)
DOI: 10.1021/ja405518u
 ACS Section: Enzymes
[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[448K\]](#)
[PDF w/ Links \[274K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)


- Highly Ordered Protein Nanorings Designed by Accurate Control of Glutathione S-Transferase Self-Assembly** [Abstract](#) | [Supporting Info](#)
Yushi Bai, Quan Luo, Wei Zhang, Lu Miao, Jiayun Xu, Hongbin Li, and Junqiu Liu
pp 10966-10969
Publication Date (Web): July 18, 2013 (Communication)
DOI: 10.1021/ja405519s
 ACS Section: Biochemical Methods
[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[3774K\]](#)
[PDF w/ Links \[352K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)


- Photoselective DNA Hairpin Spin Switches** [Abstract](#) | [Supporting Info](#)
Raanan Carmieli, Arun K. Thazhathveetil, Frederick D. Lewis, and Michael R. Wasielewski
pp 10970-10973
Publication Date (Web): July 15, 2013 (Communication)
DOI: 10.1021/ja4055405
 ACS Section: Biochemical Methods
[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[816K\]](#)
[PDF w/ Links \[262K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)


- Synthesis and Polymerization of Bicyclic Ketals: A Practical Route to High-Molecular Weight Polyketals**
Bryan T. Whiting and Geoffrey W. Coates
pp 10974-10977
Publication Date (Web): July 19, 2013 (Communication)
DOI: 10.1021/ja405581r
-  **Section:** Chemistry of Synthetic High Polymers
- [Abstract](#) | [Supporting Info](#)
[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[327K\]](#)
[PDF w/ Links \[243K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)

- Catalytic Generation of Borenum Ions by Cooperative B–H Bond Activation: The Elusive Direct Electrophilic Borylation of Nitrogen Heterocycles with Pinacolborane**
Timo Stahl, Kristine Mütter, Yasuhiro Ohki, Kazuyuki Tatsumi, and Martin Oestreich
pp 10978-10981
Publication Date (Web): July 15, 2013 (Communication)
DOI: 10.1021/ja405925w
-  **Section:** Organometallic and Organometalloidal Compounds
- [Abstract](#) | [Supporting Info](#)
[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[567K\]](#)
[PDF w/ Links \[313K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)

- Thermodynamic and Kinetic Destabilization of Magnesium Hydride Using Mg–In Solid Solution Alloys**
Chengshang Zhou, Zhigang Zak Fang, Jun Lu, and Xiaoyi Zhang
pp 10982-10985
Publication Date (Web): July 15, 2013 (Communication)
DOI: 10.1021/ja4058794
-  **Section:** Electrochemical, Radiational, and Thermal Energy Technology
- [Abstract](#) | [Supporting Info](#)
[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[2645K\]](#)
[PDF w/ Links \[313K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)

- Total Synthesis of (+)-Trienomycins A and F via C–C Bond-Forming Hydrogenation and Transfer Hydrogenation**
David J. Del Valle and Michael J. Krische
pp 10986-10989
Publication Date (Web): July 17, 2013 (Communication)
DOI: 10.1021/ja4061273
-  **Section:** Biomolecules and Their Synthetic Analogs
- [Abstract](#) | [Supporting Info](#)
[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[530K\]](#)
[PDF w/ Links \[380K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)

- Rhodium-Catalyzed Asymmetric Hydroarylation of 3-Pyrrolines Giving 3-Arylpyrrolidines: Protonation as a Key Step**
Chau Ming So, Satoshi Kume, and Tamio Hayashi
pp 10990-10993
Publication Date (Web): July 18, 2013 (Communication)
DOI: 10.1021/ja406169s
-  **Section:** Heterocyclic Compounds (One Hetero Atom)
- [Abstract](#) | [Supporting Info](#)
[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[576K\]](#)
[PDF w/ Links \[331K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)

- Asymmetric Copper(I)-Catalyzed Azide–Alkyne Cycloaddition to Quaternary Oxindoles**
Feng Zhou, Chen Tan, Jing Tang, Yan-Yan Zhang, Wei-Ming Gao, Hai-Hong Wu, Yi-Hua Yu, and Jian Zhou
pp 10994-10997
Publication Date (Web): July 15, 2013 (Communication)
DOI: 10.1021/ja4066656
-  **Section:** Heterocyclic Compounds (More than One Hetero Atom)
- [Abstract](#) | [Supporting Info](#)
[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[484K\]](#)
[PDF w/ Links \[302K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)

ARTICLES

Integration of Porous Coordination Polymers and Gold Nanorods into Core–Shell Mesoscopic Composites toward Light-Induced Molecular Release

Kira Khaletskaia, Julien Reboul, Mikhail Meilikov, Masashi Nakahama, Stéphane Diring, Masahiko Tsujimoto, Seiji Isoda, Franklin Kim, Ken-ichiro Kamei, Roland A. Fischer, Susumu Kitagawa, and Shuhei Furukawa

pp 10998–11005

Publication Date (Web): May 14, 2013 (Article)

DOI: 10.1021/ja403108x

 Section: [Pharmaceuticals](#)

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

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[1236K\]](#)

[PDF w/ Links \[402K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

 Effects of Odd–Even Side Chain Length of Alkyl-Substituted Diphenylbithiophenes on First Monolayer Thin Film Packing Structure

Hylke B. Akkerman, Stefan C. B. Mannsfeld, Ananth P. Kaushik, Eric Verploegen, Luc Burnier, Arjan P. Zoombelt, Jonathan D. Saathoff, Sanghyun Hong, Sule Atahan-Evrenk, Xueting Liu, Alán Aspuru-Guzik, Michael F. Toney, Paulette Clancy, and Zhenan Bao

pp 11006–11014

Publication Date (Web): July 4, 2013 (Article)

DOI: 10.1021/ja400015e

 Section: [Surface Chemistry and Colloids](#)

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

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[1378K\]](#)

[PDF w/ Links \[541K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

 Activatable Oligomerizable Imaging Agents for Photoacoustic Imaging of Furin-Like Activity in Living Subjects

Anca Dragulescu-Andrasi, Sri-Rajasekhar Kothapalli, Grigory A. Tikhomirov, Jianghong Rao, and Sanjiv S. Gambhir

pp 11015–11022

Publication Date (Web): July 16, 2013 (Article)

DOI: 10.1021/ja4010078

 Section: [Radiation Biochemistry](#)

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

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[5041K\]](#)

[PDF w/ Links \[471K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

 Hexagonal-Diamond-like Gold Lattices, Ba and (Au,T)₃ Interstitials, and Delocalized Bonding in a Family of Intermetallic Phases Ba₂Au₆(Au,T)₃ (T = Zn, Cd, Ga, In, or Sn)

Qisheng Lin, Trinath Mishra, and John D. Corbett

pp 11023–11031

Publication Date (Web): June 27, 2013 (Article)

DOI: 10.1021/ja401378q

 Section: [Nonferrous Metals and Alloys](#)

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

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[3013K\]](#)

[PDF w/ Links \[507K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

 Small-Molecule-Induced Clustering of Heparan Sulfate Promotes Cell Adhesion

Naohiro Takemoto, Tetsuya Suehara, Heidie L. Frisco, Shin-ichi Sato, Takuhito Sezaki, Kosuke Kusamori, Yoshinori Kawazoe, Sun Min Park, Sayumi Yamazoe, Yoshiyuki Mizuhata, Rintaro Inoue, Gavin J. Miller, Steen U. Hansen, Gordon C. Jayson, John M. Gardiner, Toshiji Kanaya, Norihiro Tokitoh, Kazumitsu Ueda, Yoshinobu Takakura, Noriyuki Kioka, Makiya Nishikawa, and Motonari Uesugi

pp 11032–11039

Publication Date (Web): July 3, 2013 (Article)

DOI: 10.1021/ja4018682

 Section: [General Biochemistry](#)

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

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[1256K\]](#)

[PDF w/ Links \[359K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

 Direct Observation of Reductive Elimination of MeX (X = Cl, Br, I) from Rh^{III} Complexes: Mechanistic Insight and the Importance of Sterics

Moran Feller, Yael Diskin-Posner, Gregory Leitus, Linda J. W. Shimon, and David Milstein

pp 11040–11047

Publication Date (Web): July 8, 2013 (Article)

DOI: 10.1021/ja401852c

 Section: [Organometallic and Organometalloidal Compounds](#)

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


[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[1922K\]](#)

[PDF w/ Links \[563K\]](#)


[Full Text HTML](#)


[Add to ACS ChemWorx](#)


- Exploiting Localized Surface Binding Effects to Enhance the Catalytic Reactivity of Peptide-Capped Nanoparticles** [Abstract](#) | [Supporting Info](#)
Ryan Coppage, Joseph M. Slocik, Hadi Ramezani-Dakheh, Nicholas M. Bedford, Hendrik Heinz, Rajesh R. Naik, and Marc R. Knecht
pp 11048-11054
Publication Date (Web): July 18, 2013 (Article)
DOI: 10.1021/ja402215t

- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[4486K\]](#)
[PDF w/ Links \[454K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)


- Designed Synthesis, Structure, and Properties of a Family of Ferrocene Crystalline Compounds [(PbSe)_{1.00}]_m(MoSe₂)_n** [Abstract](#)
Colby L. Heideman, Sara Tepfer, Qiyin Lin, Raimar Rostek, Paul Zschack, Michael D. Anderson, Ian M. Anderson, and David C. Johnson
pp 11055-11062
Publication Date (Web): July 2, 2013 (Article)
DOI: 10.1021/ja402819q







- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[3830K\]](#)
[PDF w/ Links \[438K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)

- Ultrafast Structural Dynamics Inside Planar Phospholipid Multilayer Model Cell Membranes Measured with 2D IR Spectroscopy** [Abstract](#)
Oksana Kel, Amr Tamimi, Megan C. Thielges, and Michael D. Fayer
pp 11063-11074
Publication Date (Web): July 9, 2013 (Article)
DOI: 10.1021/ja403675x

- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[1749K\]](#)
[PDF w/ Links \[503K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)

- Coexistence of Helical Morphologies in Columnar Stacks of Star-Shaped Discotic Hydrazones** [Abstract](#) | [Supporting Info](#)
Jie Shu, Dmytro Dudenko, Morteza Esmaili, Jun Ha Park, Sreenivasa Reddy Puniredd, Ji Young Chang, Dag Werner Breiby, Wojciech Pisula, and Michael Ryan Hansen
pp 11075-11086
Publication Date (Web): July 5, 2013 (Article)
DOI: 10.1021/ja4029186

- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[1752K\]](#)
[PDF w/ Links \[683K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)

- Partial Oxidation of Ethane to Oxygenates Using Fe- and Cu-Containing ZSM-5** [Abstract](#) | [Supporting Info](#)
Michael M. Forde, Robert D. Armstrong, Ceri Hammond, Qian He, Robert L. Jenkins, Simon A. Kondrat, Nikolaos Dimitratos, Jose Antonio Lopez-Sanchez, Stuart H. Taylor, David Willock, Christopher J. Kiely, and Graham John Hutchings
pp 11087-11099
Publication Date (Web): June 26, 2013 (Article)
DOI: 10.1021/ja403060n

- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[1695K\]](#)
[PDF w/ Links \[656K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)

- New Pathways for Formation of Acids and Carbonyl Products in Low-Temperature Oxidation: The Korcek Decomposition of γ -Keto hydroperoxides** [Abstract](#) | [Supporting Info](#)
Amrit Jalan, Ionut M. Alecu, Rubén Meana-Pañeda, Jorge Aguilera-Iparraguirre, Ke R. Yang, Shamel S. Merchant, Donald G. Truhlar, and William H. Green
pp 11100-11114
Publication Date (Web): July 17, 2013 (Article)
DOI: 10.1021/ja4034439

- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[4135K\]](#)
[PDF w/ Links \[709K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)

- Inorganic Nanostructures with Sizes down to 1 nm: A Macromolecule Analogue** [Abstract](#) | [Supporting Info](#)
Shi Hu, Huiling Liu, Pengpeng Wang, and Xun Wang
pp 11115-11124
Publication Date (Web): July 9, 2013 (Article)
DOI: 10.1021/ja403471d

- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[3297K\]](#)
[PDF w/ Links \[825K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)
-
- Layered Perovskite Oxide: A Reversible Air Electrode for Oxygen Evolution/Reduction in Rechargeable Metal-Air Batteries** [Abstract](#) | [Supporting Info](#)
Tatsuya Takeguchi, Toshiro Yamanaka, Hiroki Takahashi, Hiroshi Watanabe, Tomohiro Kuroki, Haruyuki Nakanishi, Yuki Orihara, Yoshiharu Uchimoto, Hiroshi Takano, Nobuaki Ohguri, Motofumi Matsuda, Tadatoshii Murota, Kohei Uosaki, and Wataru Ueda
pp 11125-11130
Publication Date (Web): June 26, 2013 (Article)
DOI: 10.1021/ja403476v

- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[1419K\]](#)
[PDF w/ Links \[432K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)
-
- Reversible Generation of a Carbon-Centered Radical from Alkyl Iodide Using Organic Salts and Their Application as Organic Catalysts in Living Radical Polymerization** [Abstract](#) | [Supporting Info](#)
Atsushi Goto, Akimichi Ohtsuki, Haruki Ohfuji, Miho Tanishima, and Hironori Kaji
pp 11131-11139
Publication Date (Web): July 19, 2013 (Article)
DOI: 10.1021/ja4036016

- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[968K\]](#)
[PDF w/ Links \[472K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)
-
- Synthesis and Vaccine Evaluation of the Tumor-Associated Carbohydrate Antigen RM2 from Prostate Cancer** [Abstract](#) | [Supporting Info](#)
Hong-Yang Chuang, Chien-Tai Ren, Chung-An Chao, Chung-Yi Wu, Sachin S. Shivatare, Ting-Jen R. Cheng, Chung-Yi Wu, and Chi-Huey Wong
pp 11140-11150
Publication Date (Web): July 2, 2013 (Article)
DOI: 10.1021/ja403609x

- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[1845K\]](#)
[PDF w/ Links \[764K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)
-
- Electron Flow through Nitrotyrosinate in Pseudomonas aeruginosa Azurin** [Abstract](#) | [Supporting Info](#)
Jeffrey J. Warren, Nadia Herrera, Michael G. Hill, Jay R. Winkler, and Harry B. Gray
pp 11151-11158
Publication Date (Web): July 16, 2013 (Article)
DOI: 10.1021/ja403734n

- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[2785K\]](#)
[PDF w/ Links \[480K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)
-
- Mesoscale Modulation of Supramolecular Ureidopyrimidinone-Based Poly(ethylene glycol) Transient Networks in Water** [Abstract](#) | [Supporting Info](#)
Roxanne E. Kiełtyka, A. C. H. Pape, Lorenzo Albertazzi, Yoko Nakano, Maartje M. C. Bastings, Ilja K. Voets, Patricia Y. W. Dankers, and E. W. Meijer
pp 11159-11164
Publication Date (Web): July 7, 2013 (Article)
DOI: 10.1021/ja403745w

- [ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[3099K\]](#)
[PDF w/ Links \[351K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)

A Metallofullerene Electron Donor that Powers an Efficient Spin Flip in a Linear Electron Donor–Acceptor Conjugate

Marc Rudolf, Lai Feng, Zdenek Slanina, Takeshi Akasaka, Shigeru Nagase, and Dirk M. Guldi
pp 11165–11174
Publication Date (Web): June 27, 2013 (Article)
DOI: 10.1021/ja403763e

 Section: Radiation Chemistry,
Photochemistry, and Photographic
and Other Reprographic Processes

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

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[3360K\]](#)

[PDF w/ Links \[509K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

 A Single gD Glycoprotein Can Mediate Infection by *Herpes simplex* Virus

Richard W. Clarke, Anna Drews, Helena Browne, and David Klenerman
pp 11175–11180
Publication Date (Web): July 9, 2013 (Article)
DOI: 10.1021/ja4038406

 Section: Microbial, Algal, and Fungal
Biochemistry

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

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[1739K\]](#)

[PDF w/ Links \[505K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

 Measuring Electrostatic Fields in Both Hydrogen-Bonding and Non-Hydrogen-Bonding Environments Using Carbonyl Vibrational Probes

Stephen D. Fried, Sayan Bagchi, and Steven G. Boxer
pp 11181–11192
Publication Date (Web): June 28, 2013 (Article)
DOI: 10.1021/ja403917z

 Section: Enzymes

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

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[1520K\]](#)

[PDF w/ Links \[489K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

 A Bacterial Tyrosine Aminomutase Proceeds through Retention or Inversion of Stereochemistry To Catalyze Its Isomerization Reaction

Udayanga Wanninayake and Kevin D. Walker
pp 11193–11204
Publication Date (Web): June 25, 2013 (Article)
DOI: 10.1021/ja403918w

 Section: Enzymes

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

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[1566K\]](#)

[PDF w/ Links \[539K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

 Synthesis, Characterization, and Electrochemical Studies of PPh_{3-n}(dipp)_n (dipp = 2,6-Diisopropylphenyl): Steric and Electronic Effects on the Chemical and Electrochemical Oxidation of a Homologous Series of Triarylphosphines and the Reactivities of the Corresponding Phosphoniumyl Radical Cations

John P. Bullock, Alan M. Bond, René T. Boéré, Twyla M. Gietz, Tracey L. Roemmele, Sonja D. Seagrave, Jason D. Masuda, and Masood Parvez
pp 11205–11215
Publication Date (Web): June 28, 2013 (Article)
DOI: 10.1021/ja403555d

 Section: Organometallic and
Organometalloidal Compounds

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

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[2946K\]](#)

[PDF w/ Links \[645K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

 Herpes Virus Genome, The Pressure Is On

David W. Bauer, Jamie B. Huffman, Fred L. Homa, and Alex Evilevitch
pp 11216–11221
Publication Date (Web): July 5, 2013 (Article)
DOI: 10.1021/ja404008r

 Section: Microbial, Algal, and Fungal
Biochemistry

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

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[3055K\]](#)


[PDF w/ Links \[330K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

Scope and Mechanism of the Pt-Catalyzed Enantioselective Diboration of Monosubstituted Alkenes [Abstract](#) | [Supporting Info](#)


John R. Coombs, Fredrik Haeffner, Laura T. Kliman, and James P. Morken
pp 11222-11231
Publication Date (Web): July 18, 2013 (Article)
DOI: 10.1021/ja4041016

 Section: **Physical Organic Chemistry**

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[1911K\]](#)
[PDF w/ Links \[621K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)

Biocatalytic Synthesis of Pikromycin, Methymycin, Neomethymycin, Novamethymycin, and Ketomethymycin [Abstract](#) | [Supporting Info](#)


Douglas A. Hansen, Christopher M. Rath, Eli B. Eisman, Alison R. H. Narayan, Jeffrey D. Kittendorf, Jonathan D. Mortison, Yeo Joon Yoon, and David H. Sherman
pp 11232-11238
Publication Date (Web): June 18, 2013 (Article)
DOI: 10.1021/ja404134f

 Section: **Fermentation and Bioindustrial Chemistry**

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[1090K\]](#)
[PDF w/ Links \[426K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)

Realizing Molecular Pixel System for Full-Color Fluorescence Reproduction: RGB-Emitting Molecular Mixture Free from Energy Transfer Crosstalk [Abstract](#) | [Supporting Info](#)


Ji Eon Kwon, Sanghyuk Park, and Soo Young Park
pp 11239-11246
Publication Date (Web): July 11, 2013 (Article)
DOI: 10.1021/ja404256s

 Section: **Optical, Electron, and Mass Spectroscopy and Other Related Properties**

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[3410K\]](#)
[PDF w/ Links \[470K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)

Relation between Structure and Electronic Properties of Amorphous MEH-PPV Polymers [Abstract](#) | [Supporting Info](#)


Ting Qin and Alessandro Troisi
pp 11247-11256
Publication Date (Web): July 8, 2013 (Article)
DOI: 10.1021/ja404385y

 Section: **Physical Properties of Synthetic High Polymers**

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[3588K\]](#)
[PDF w/ Links \[665K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)

Interfacial Electric Field Effects on a Carbene Reaction Catalyzed by Rh Porphyrins [Abstract](#) | [Supporting Info](#)


Craig F. Gorin, Eugene S. Beh, Quan M. Bui, Graham R. Dick, and Matthew W. Kanan
pp 11257-11265
Publication Date (Web): July 9, 2013 (Article)
DOI: 10.1021/ja404394z

 Section: **Electrochemistry**

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[1973K\]](#)
[PDF w/ Links \[423K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)

Reactivity of TEMPO toward 16- and 17-Electron Organometallic Reaction Intermediates: A Time-Resolved IR Study [Abstract](#) | [Supporting Info](#)

Justin P. Lomont, Son C. Nguyen, and Charles B. Harris
pp 11266-11273
Publication Date (Web): July 2, 2013 (Article)
DOI: 10.1021/ja404476m


 Section: **Organometallic and Organometalloidal Compounds**

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[1063K\]](#)
[PDF w/ Links \[326K\]](#)
[Full Text HTML](#)
[Add to ACS ChemWorx](#)

Cellular Toxicity Induced by the Photorelease of a Caged Bioactive Molecule: Design of a Potential Dual-Action Ru(II) Complex [Abstract](#) | [Supporting Info](#)

Mark A. Sgambellone, Amanda David, Robert N. Garner, Kim R. Dunbar, and Claudia Turro

pp 11274-11282
Publication Date (Web): July 2, 2013 (Article)
DOI: 10.1021/ja4045604

 ACS Section: Radiation Biochemistry

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView


[PDF \[2652K\]](#)
[PDF w/ Links \[400K\]](#)
[Full Text HTML](#)

[Add to ACS ChemWorx](#)

Intercalators as Molecular Chaperones in DNA Self-Assembly [Abstract](#) | [Supporting Info](#)

Andrea A. Greschner, Katherine E. Bujold, and Hanadi F. Sleiman

pp 11283-11288
Publication Date (Web): July 8, 2013 (Article)
DOI: 10.1021/ja404402b

 ACS Section: Biochemical Methods

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView


[PDF \[1051K\]](#)
[PDF w/ Links \[429K\]](#)
[Full Text HTML](#)

[Add to ACS ChemWorx](#)

Unprecedented Boron-Functionalized Carborane Derivatives by Facile and Selective Cobalt-Induced B-H Activation [Abstract](#) | [Supporting Info](#)

Zhaojin Wang, Hongde Ye, Yuguang Li, Yizhi Li, and Hong Yan

pp 11289-11298
Publication Date (Web): July 8, 2013 (Article)
DOI: 10.1021/ja4047075

 ACS Section: Organometallic and Organometalloidal Compounds

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[3730K\]](#)
[PDF w/ Links \[626K\]](#)
[Full Text HTML](#)

[Add to ACS ChemWorx](#)

Hydration Layer Coupling and Cooperativity in Phase Behavior of Stimulus Responsive Peptide Polymers [Abstract](#) | [Supporting Info](#)

Dennis Kurzbach, Wafa Hassouneh, Jonathan R. McDaniel, Eva A. Jaumann, Ashutosh Chilkoti, and Dariush Hinderberger

pp 11299-11308
Publication Date (Web): July 3, 2013 (Article)
DOI: 10.1021/ja4047872

 ACS Section: Physical Properties of Synthetic High Polymers

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView


[PDF \[2620K\]](#)
[PDF w/ Links \[478K\]](#)
[Full Text HTML](#)

[Add to ACS ChemWorx](#)

Unexpected Interaction between PEDOT and Phosphonium Ionic Liquids [Abstract](#) | [Supporting Info](#)

Vanessa Armel, Jonathan Rivnay, George Malliaras, and Bjorn Winther-Jensen

pp 11309-11313
Publication Date (Web): July 8, 2013 (Article)
DOI: 10.1021/ja405032c

 ACS Section: Plastics Manufacture and Processing

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView


[PDF \[1169K\]](#)
[PDF w/ Links \[305K\]](#)
[Full Text HTML](#)

[Add to ACS ChemWorx](#)

Chemical Sensing of Polyols with Shapeshifting Boronic Acids As a Self-Contained Sensor Array [Abstract](#) | [Supporting Info](#)

Johannes F. Teichert, Dmitry Mazunin, and Jeffrey W. Bode

pp 11314-11321
Publication Date (Web): June 26, 2013 (Article)
DOI: 10.1021/ja404981q

 ACS Section: Biochemical Methods

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[2472K\]](#)
[PDF w/ Links \[578K\]](#)
[Full Text HTML](#)

[Add to ACS ChemWorx](#)

Quantifying Elongation Rhythm during Full-Length Protein Synthesis

Gabriel Rosenblum, Chunlai Chen, Jaskiran Kaur, Xiaonan Cui, Haibo Zhang, Haruichi Asahara, Shaorong Chong, Zeev Smilansky, Yale E. Goldman, and Barry S. Cooperman

pp 11322-11329

Publication Date (Web): July 3, 2013 (Article)

DOI: 10.1021/ja405205c

 Section: **Biochemical Genetics**

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

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[2010K\]](#)

[PDF w/ Links \[407K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

 An Artificial Light-Harvesting Array Constructed from Multiple Bodipy Dyes

Raymond Ziesel, Gilles Ulrich, Alexandre Haefele, and Anthony Harriman

pp 11330-11344

Publication Date (Web): July 3, 2013 (Article)

DOI: 10.1021/ja4049306

 Section: **Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes**

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

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[3325K\]](#)

[PDF w/ Links \[780K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

 Integration of Intrinsic Proton Conduction and Guest-Accessible Nanospace into a Coordination Polymer

Daiki Umeyama, Satoshi Horike, Munehiro Inukai, and Susumu Kitagawa

pp 11345-11350

Publication Date (Web): July 5, 2013 (Article)

DOI: 10.1021/ja4051668

 Section: **Surface Chemistry and Colloids**

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

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[1185K\]](#)

[PDF w/ Links \[287K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

 Kinetics and Low Temperature Studies of Electron Transfers in Films of Small (<2 nm) Au Monolayer Protected Clusters

Tessa M. Carducci and Royce W. Murray

pp 11351-11356

Publication Date (Web): July 19, 2013 (Article)

DOI: 10.1021/ja405342r

 Section: **Catalysis, Reaction Kinetics, and Inorganic Reaction Mechanisms**

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

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[1620K\]](#)

[PDF w/ Links \[346K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

 Thermodynamic and Kinetic Study of Cleavage of the N–O Bond of N-Oxides by a Vanadium(III) Complex: Enhanced Oxygen Atom Transfer Reaction Rates for Adducts of Nitrous Oxide and Mesityl Nitrile Oxide

Taryn D. Palluccio, Elena V. Rybak-Akimova, Subhojit Majumdar, Xiaochen Cai, Megan Chui, Manuel Temprado, Jared S. Silvia, Anthony F. Cozzolino, Daniel Tofan, Alexandra Velian, Christopher C. Cummins, Burjor Captain, and Carl D. Hoff

pp 11357-11372

Publication Date (Web): June 27, 2013 (Article)

DOI: 10.1021/ja405395z

 Section: **Catalysis, Reaction Kinetics, and Inorganic Reaction Mechanisms**

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

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[3027K\]](#)

[PDF w/ Links \[753K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

 Synthesis of a Base-Free Hafnium Nitride from N₂ Cleavage: A Versatile Platform for Dinitrogen Functionalization

Scott P. Semproni and Paul J. Chirik

pp 11373-11383

Publication Date (Web): July 5, 2013 (Article)

DOI: 10.1021/ja405477m

 Section: **Organometallic and Organometalloidal Compounds**

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






[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[3449K\]](#)

[PDF w/ Links \[674K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

- General and Regioselective Synthesis of Pyrroles via Ruthenium-Catalyzed Multicomponent Reactions**
Min Zhang, Xianjie Fang, Helfried Neumann, and Matthias Beller
pp 11384-11388
Publication Date (Web): July 11, 2013 (Article)
DOI: 10.1021/ja406666r
 Section: **Heterocyclic Compounds (One Hetero Atom)**
Abstract | Supporting Info
ACS ActiveView PDF
Hi-Res Print, Annotate, Reference QuickView
PDF [777K]
PDF w/ Links [421K]
Full Text HTML
Add to ACS ChemWorx
- Combined Charge Carrier Transport and Photoelectrochemical Characterization of BiVO₄ Single Crystals: Intrinsic Behavior of a Complex Metal Oxide**
Alexander J. E. Rettie, Heung Chan Lee, Luke G. Marshall, Jung-Fu Lin, Cigdem Capan, Jeffrey Lindemuth, John S. McCloy, Jianshi Zhou, Allen J. Bard, and C. Buddie Mullins
pp 11389-11396
Publication Date (Web): July 8, 2013 (Article)
DOI: 10.1021/ja405550k
 Section: **Electrochemical, Radiational, and Thermal Energy Technology**
Abstract | Supporting Info
ACS ActiveView PDF
Hi-Res Print, Annotate, Reference QuickView
PDF [2061K]
PDF w/ Links [444K]
Full Text HTML
Add to ACS ChemWorx
- Asymmetric Free-Standing 2-D Photonic Crystal Films and Their Janus Particles**
Jian-Tao Zhang, Xing Chao, and Sanford A. Asher
pp 11397-11401
Publication Date (Web): July 11, 2013 (Article)
DOI: 10.1021/ja405629k
 Section: **Optical, Electron, and Mass Spectroscopy and Other Related Properties**
Abstract | Supporting Info
ACS ActiveView PDF
Hi-Res Print, Annotate, Reference QuickView
PDF [1197K]
PDF w/ Links [401K]
Full Text HTML
Add to ACS ChemWorx
- Asymmetric Cascade Annulation Based on Enantioselective Oxa-Diels–Alder Cycloaddition of in Situ Generated Isochromenyliums by Cooperative Binary Catalysis of Pd(OAc)₂ and (S)-Trip**
Shu-Yan Yu, Hao Zhang, Yang Gao, Lei Mo, Shaozhong Wang, and Zhu-Jun Yao
pp 11402-11407
Publication Date (Web): July 8, 2013 (Article)
DOI: 10.1021/ja405764p
 Section: **Heterocyclic Compounds (One Hetero Atom)**
Abstract | Supporting Info
ACS ActiveView PDF
Hi-Res Print, Annotate, Reference QuickView
PDF [1072K]
PDF w/ Links [484K]
Full Text HTML
Add to ACS ChemWorx
- The Mechanism of Photohydroxylation on Silicon and Porous Silicon Surfaces**
Kurt W. Kolasinski
pp 11408-11412
Publication Date (Web): July 9, 2013 (Article)
DOI: 10.1021/ja406063n
 Section: **Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes**
Abstract
ACS ActiveView PDF
Hi-Res Print, Annotate, Reference QuickView
PDF [454K]
PDF w/ Links [257K]
Full Text HTML
Add to ACS ChemWorx

For Selected: [View Abstracts](#) [Add to ACS ChemWorx](#) [Download Citations](#)

