

Spotlights

Spotlights on Recent *JACS* Publications

pp 2865–2866

Publication Date (Web): February 27, 2013 (Spotlights)

DOI: 10.1021/ja401646m

Communications

On Terminal Alkynes That Can React with Active-Site Cysteine Nucleophiles in Proteases

Reggy Ekkebus, Sander I. van Kasteren, Yogesh Kulathu, Arjen Scholten, Ilana Berlin, Paul P. Geurink, Annemieke de Jong, Soenita Goerdayal, Jacques Neefjes, Albert J. R. Heck, David Komander, and Huib Ovaa

pp 2867–2870

Publication Date (Web): February 6, 2013 (Communication)

DOI: 10.1021/ja309802n



Mapping Molecular Perturbations by a New Form of Two-Dimensional Spectroscopy

Eriks Kupče and Ray Freeman

pp 2871–2874

Publication Date (Web): November 15, 2012 (Communication)

DOI: 10.1021/ja310107e

Section:

Magnetic Phenomena

Conjugation-Induced Fluorescent Labeling of Proteins and Polymers Using Dithiomaleimides

Mathew P. Robin, Paul Wilson, Anne B. Mabire, Jenny K. Kiviaho, Jeffery E. Raymond, David M. Haddleton, and Rachel K. O'Reilly

pp 2875–2878

Publication Date (Web): February 6, 2013 (Communication)

DOI: 10.1021/ja3105494

Site-Specific and Regiospecific Installation of Methylarginine Analogues into Recombinant Histones and Insights into Effector Protein Binding

Daniel D. Le, Arianna T. Cortesi, Samuel A. Myers, Alma L. Burlingame, and Danica Galonić Fujimori

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Publication Date (Web): February 11, 2013 (Communication)

DOI: 10.1021/ja3108214

Selective Tumor Cell Targeting by the Disaccharide Moiety of Bleomycin

Zhiqiang Yu, Ryan M. Schmaltz, Trevor C. Bozeman, Rakesh Paul, Michael J. Rishel, Krystal S. Tsosie, and Sidney M. Hecht

pp 2883–2886

Publication Date (Web): February 4, 2013 (Communication)

DOI: 10.1021/ja311090e

Fluorescent Probes Reveal a Minimal Ligase Recognition Motif in the Prokaryotic Ubiquitin-like Protein from *Mycobacterium tuberculosis*

Denis Smirnov, Abhinav Dhall, Kalkena Sivanesam, Rudy J. Sharar, and Champak Chatterjee

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

DOI: 10.1021/ja311376h

Effective Palladium-Catalyzed Hydroxycarbonylation of Aryl Halides with Substoichiometric Carbon Monoxide

Signe Korsager, Rolf H. Taaning, and Troels Skrydstrup

pp 2891–2894

Publication Date (Web): February 11, 2013 (Communication)

DOI: 10.1021/ja3114032

 Section:

Benzene, Its Derivatives, and Condensed Benzenoid Compounds

Raman Spectra of Interchanging β -Lactamase Inhibitor Intermediates on the Millisecond Time Scale

Hossein Heidari Torkabadi, Tao Che, Jingjing Shou, Sivaprakash Shanmugam, Michael W. Crowder, Robert A. Bonomo, Marianne Pusztai-Carey, and Paul R. Carey

pp 2895–2898

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

DOI: 10.1021/ja311440p

Hyperstability and Substrate Promiscuity in Laboratory Resurrections of Precambrian β -Lactamases

Valeria A. Risso, Jose A. Gavira, Diego F. Mejia-Carmona, Eric A. Gaucher, and Jose M. Sanchez-Ruiz

pp 2899–2902

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

DOI: 10.1021/ja311630a

Activatable Rotor for Quantifying Lysosomal Viscosity in Living Cells

Lu Wang, Yi Xiao, Wenming Tian, and Liezheng Deng

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Publication Date (Web): February 14, 2013 (Communication)

DOI: 10.1021/ja311688g

Supramolecular Nanostructures Formed by Anticancer Drug Assembly

Andrew G. Cheetham, Pengcheng Zhang, Yi-an Lin, Lye Lin Lock, and Honggang Cui

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Publication Date (Web): February 4, 2013 (Communication)

DOI: 10.1021/ja3115983

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Pharmaceuticals

Mallard Blue: A High-Affinity Selective Heparin Sensor That Operates in Highly Competitive Media

Stephen M. Bromfield, Anna Barnard, Paola Posocco, Maurizio Fermeglia, Sabrina Pricl, and David K. Smith

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DOI: 10.1021/ja311734d

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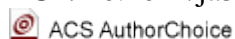
Biochemical Methods

Toward Understanding the Catalytic Synergy in the Design of Bimetallic Molecular Sieves for Selective Aerobic Oxidations

Rebecca M. Leithall, Vasudev N. Shetti, Sara Maurelli, Mario Chiesa, Enrica Gianotti, and Robert Raja
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Publication Date (Web): February 7, 2013 (Communication)

DOI: 10.1021/ja3119064



Minimal Peptide Motif for Non-covalent Peptide–Heparin Hydrogels

Robert Wieduwild, Mikhail Tsurkan, Karolina Chwalek, Priyanka Murawala, Mirko Nowak, Uwe Freudenberg, Christoph Neinhuis, Carsten Werner, and Yixin Zhang
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DOI: 10.1021/ja312022u

A Low-Overpotential Potassium–Oxygen Battery Based on Potassium Superoxide

Xiaodi Ren and Yiyang Wu

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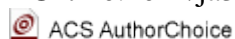
DOI: 10.1021/ja312059q

Synthesis and Activity of Biomimetic Biofilm Disruptors

Thomas Böttcher, Ilana Kolodkin-Gal, Roberto Kolter, Richard Losick, and Jon Clardy
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Nano-Encrypted Morse Code: A Versatile Approach to Programmable and Reversible Nanoscale Assembly and Disassembly

Ngo Yin Wong, Hang Xing, Li Huey Tan, and Yi Lu

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DOI: 10.1021/ja3122284

High-Field ¹³C Dynamic Nuclear Polarization with a Radical Mixture

Vladimir K. Michaelis, Albert A. Smith, Björn Corzilius, Olesya Haze, Timothy M. Swager, and Robert G. Griffin
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DOI: 10.1021/ja312265x

An Anodic Method for Covalent Attachment of Molecules to Electrodes through an Ethynyl Linkage

Matthew V. Sheridan, Kevin Lam, and William E. Geiger
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Publication Date (Web): February 5, 2013 (Communication)
DOI: 10.1021/ja312405h

Site-Specific Interaction between α -Synuclein and Membranes Probed by NMR-Observed Methionine Oxidation Rates

Alexander S. Maltsev, Jue Chen, Rodney L. Levine, and Ad Bax
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DOI: 10.1021/ja312415q

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Synthesis of Primary and Secondary Alkylboronates through Site-Selective C(sp³)-H Activation with Silica-Supported Monophosphine-Ir Catalysts

Soichiro Kawamorita, Ryo Murakami, Tomohiro Iwai, and Masaya Sawamura
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DOI: 10.1021/ja3126239


Superconducting Phases in Potassium-Intercalated Iron Selenides

Tianping Ying, Xiaolong Chen, Gang Wang, Shifeng Jin, Xiaofang Lai, Tingting Zhou, Han Zhang, Shijie Shen, and Wanyan Wang
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DOI: 10.1021/ja312705x


Silver-Mediated Trifluoromethylation–Iodination of Arynes

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DOI: 10.1021/ja312711c


RCA Strands as Scaffolds To Create Nanoscale Shapes by a Few Staple Strands

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Enantioselective Synthesis of Atropisomeric Benzamides through Peptide-Catalyzed Bromination

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Modulating Cocaine Vaccine Potency through Hapten Fluorination

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Dynamic Nuclear Polarization Enhanced Natural Abundance ^{17}O Spectroscopy

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A Genetically Encoded AND Gate for Cell-Targeted Metabolic Labeling of Proteins

Alborz Mahdavi, Thomas H. Segall-Shapiro, Songzi Kou, Granton A. Jindal, Kevin G. Hoff, Shirley Liu, Mohsen Chitsaz, Rustem F. Ismagilov, Jonathan J. Silberg, and David A. Tirrell
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DOI: 10.1021/ja400448f

Highly Enantioselective Construction of Trifluoromethylated All-Carbon Quaternary Stereocenters via Nickel-Catalyzed Friedel–Crafts Alkylation Reaction

Jian-Rong Gao, Hao Wu, Bin Xiang, Wu-Bin Yu, Liang Han, and Yi-Xia Jia
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DOI: 10.1021/ja400650m

Toward a Silicon Version of Metathesis: From Schrock-Type Titanium Silylidenes to Silatitanacyclobutenes

Vladimir Ya. Lee, Shinji Aoki, Taka Yokoyama, Satoru Horiguchi, Akira Sekiguchi, Heinz Gornitzka, Jing-Dong Guo, and Shigeru Nagase
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Organometallic and Organometalloidal Compounds

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Reactivity of Atomic Oxygen Radical Anions Bound to Titania and Zirconia Nanoparticles in the Gas Phase: Low-Temperature Oxidation of Carbon Monoxide

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DOI: 10.1021/ja311695t

ATPase Active-Site Electrostatic Interactions Control the Global Conformation of the 100 kDa SecA Translocase

Dorothy M. Kim, Haiyan Zheng, Yuanpeng J. Huang, Gaetano T. Montelione, and John F. Hunt
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DOI: 10.1021/ja306361q

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Controlled Integration of Gold Nanoparticles and Organic Fluorophores Using Synthetically Modified MS2 Viral Capsids

Stacy L. Capehart, Michael P. Coyle, Jeff E. Glasgow, and Matthew B. Francis
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DOI: 10.1021/ja3078472

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Giant Ising-Type Magnetic Anisotropy in Trigonal Bipyramidal Ni(II) Complexes: Experiment and Theory

Renaud Ruamps, Rémi Maurice, Luke Batchelor, Martial Boggio-Pasqua, Régis Guillot, Anne Laure Barra, Junjie Liu, El-Eulmi Bendeif, Sébastien Pillet, Stephen Hill, Talal Mallah, and Nathalie Guihéry

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Three-Mode Electrochemical Sensing of Ultralow MicroRNA Levels

Mahmoud Labib, Nasrin Khan, Shahrokh M. Ghobadloo, Jenny Cheng, John Paul Pezacki, and Maxim V. Berezovski

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Supramolecular Architectures with π -Acidic 3,6-Bis(2-pyridyl)-1,2,4,5-tetrazine Cavities: Role of Anion- π Interactions in the Remarkable Stability of Fe(II) Metallacycles in Solution

Helen T. Chifotides, Ian D. Giles, and Kim R. Dunbar
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DOI: 10.1021/ja3082473

Contrasting Photophysical Properties of Star-Shaped vs Linear Perylene Diimide Complexes

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DOI: 10.1021/ja3087449

It Is the Outside That Counts: Chemical and Physical Control of Dynamic Surfaces

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Publication Date (Web): January 15, 2013 (Article)
DOI: 10.1021/ja308080g

Strong Effects of Cluster Size and Air Exposure on Oxygen Reduction and Carbon Oxidation Electrocatalysis by Size-Selected Pt_{*n*} (*n* ≤ 11) on Glassy Carbon Electrodes

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DOI: 10.1021/ja309868z

Temperature Sculpting in Yoctoliter Volumes

Joseph E. Reiner, Joseph W. F. Robertson, Daniel L. Burden, Lisa K. Burden, Arvind Balijepalli, and John J. Kasianowicz
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DOI: 10.1021/ja309892e

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Visible Light-Driven O₂ Reduction by a Porphyrin–Laccase System

Theodore Lazarides, Igor V. Sazanovich, A. Jalila Simaan, Maria Chrisanthi Kafentzi, Milan Delor, Yasmina Mekmouche, Bruno Faure, Marius Réglier, Julia A. Weinstein, Athanassios G. Coutsoulelos, and Thierry Tron

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DOI: 10.1021/ja309969s



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Oriented Protein Immobilization using Covalent and Noncovalent Chemistry on a Thiol-Reactive Self-Reporting Surface

Dorothee Wasserberg, Carlo Nicosia, Eldrich E. Tromp, Vinod Subramaniam, Jurriaan Huskens, and Pascal Jonkheijm

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DOI: 10.1021/ja3102133

Evidence for Cardiolipin Binding Sites on the Membrane-Exposed Surface of the Cytochrome *bc*₁

Clement Arnarez, Jean-Pierre Mazat, Juan Elezgaray, Siewert-J Marrink, and Xavier Periolo

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DOI: 10.1021/ja310577u



Hydroxyl Ion Addition to One-Electron Oxidized Thymine: Unimolecular Interconversion of C5 to C6 OH-Adducts

Amitava Adhikary, Anil Kumar, Alicia N. Heizer, Brian J. Palmer, Venkata Pottiboyina, Yong Liang, Stanislaw F. Wnuk, and Michael D. Sevilla

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Microfluidic Screening of Electrophoretic Mobility Shifts Elucidates Riboswitch Binding Function

Kelly Karns, Jacob M. Vogan, Qian Qin, Scott F. Hickey, Stephen C. Wilson, Ming C. Hammond, and Amy E. Herr

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DOI: 10.1021/ja310742m

Genetically Encoded Copper(I) Reporters with Improved Response for Use in Imaging

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DOI: 10.1021/ja3106779

Hydrophobic Interaction Drives Surface-Assisted Epitaxial Assembly of Amyloid-like Peptides

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Effect of Doping on the Magnetostructural Ordered Phase of Iron Arsenides: A Comparative Study of the Resistivity Anisotropy in Doped BaFe₂As₂ with Doping into Three Different Sites

Shigeyuki Ishida, Masamichi Nakajima, Tian Liang, Kunihiro Kihou, Chul-Ho Lee, Akira Iyo, Hiroshi Eisaki, Teruhisa Kakeshita, Yasuhide Tomioka, Toshimitsu Ito, and Shin-ichi Uchida

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Unusual Negative Photochromism via a Short-Lived Imidazolyl Radical of 1,1'-Binaphthyl-Bridged Imidazole Dimer

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DOI: 10.1021/ja311344u

Fully Convergent Chemical Synthesis of Ester Insulin: Determination of the High Resolution X-ray Structure by Racemic Protein Crystallography

Michal Avital-Shmilovici, Kalyaneswar Mandal, Zachary P. Gates, Nelson B. Phillips, Michael A. Weiss, and Stephen B. H. Kent

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DOI: 10.1021/ja311408y

***Cis–Trans* Isomerizations of Proline Residues Are Key to Bradykinin Conformations**

Nicholas A. Pierson, Liuxi Chen, David H. Russell, and David E. Clemmer

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DOI: 10.1021/ja3114505

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Evidence for Metal–Surface Interactions and Their Role in Stabilizing Well-Defined Immobilized Ru–NHC Alkene Metathesis Catalysts

Manoja K. Samantaray, Johan Alauzun, David Gajan, Santosh Kavitate, Ahmad Mehdi, Laurent Veyre, Moreno Lelli, Anne Lesage, Lyndon Emsley, Christophe Copéret, and Chloé Thieuleux

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DOI: 10.1021/ja311722k

Surface Facet of Palladium Nanocrystals: A Key Parameter to the Activation of Molecular Oxygen for Organic Catalysis and Cancer Treatment

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Quantum Dots as Templates for Self-Assembly of Photoswitchable Polymers: Small, Dual-Color Nanoparticles Capable of Facile Photomodulation

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Diniobium Inverted Sandwich Complexes with $\mu\text{-}\eta^6\text{:}\eta^6\text{-}$ Arene Ligands: Synthesis, Kinetics of Formation, and Electronic Structure

Thomas L. Gianetti, Grégory Nocton, Stefan G. Minasian, Neil C. Tomson, A. L. David Kilcoyne, Stosh A. Kozimor, David K. Shuh, Tolek Tyliczszak, Robert G. Bergman, and John Arnold

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Zwitterions and Unobserved Intermediates in Organocatalytic Diels–Alder Reactions of Linear and Cross-Conjugated Trienamines

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DOI: 10.1021/ja312043g

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Total Syntheses of Lyconadins A–C

Takuya Nishimura, Aditya K. Unni, Satoshi Yokoshima, and Tooru Fukuyama

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DOI: 10.1021/ja312065m

Picosecond Binding of the His Ligand to Four-Coordinate Heme in Cytochrome *c'*: A One-Way Gate for Releasing Proximal NO

Byung-Kuk Yoo, Isabelle Lamarre, Jean-Louis Martin, Colin R. Andrew, and Michel Negrier

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DOI: 10.1021/ja312140f

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Jae Hyuk Lee, Michael Wulff, Savo Bratos, Jakob Petersen, Laurent Guerin, Jean-Claude Leicknam, Marco Cammarata, Qingyu Kong, Jeongho Kim, Klaus B. Møller, and Hyotcherl Ihee
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Iodine (I₂) as a Janus-Faced Ligand in Organometallics

Andrey Yu. Rogachev and Roald Hoffmann

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DOI: 10.1021/ja312584u

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Bryan R. Bzdek, Joseph W. DePalma, Douglas P. Ridge, Julia Laskin, and Murray V. Johnston
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Comparison of High-Spin and Low-Spin Nonheme Fe^{III}–OOH Complexes in O–O Bond Homolysis and H-Atom Abstraction Reactivities

Lei V. Liu, Seungwoo Hong, Jaeheung Cho, Wonwoo Nam, and Edward I. Solomon
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DOI: 10.1021/ja400183g

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Correction to Improved Ruthenium Catalysts for Z-Selective Olefin Metathesis

Benjamin K. Keitz, Koji Endo, Paresma R. Patel, Myles B. Herbert, and Robert H. Grubbs
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Publication Date (Web): February 19, 2013 (Addition/Correction)

DOI: 10.1021/ja3119288