

ARTICLES

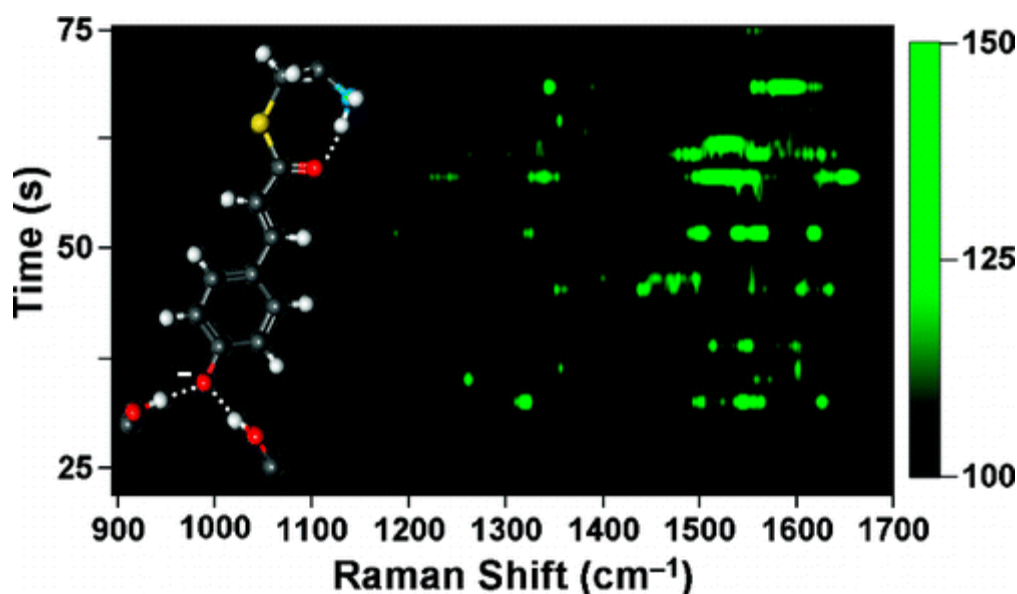
Surface-Enhanced Raman Scattering Captures Conformational Changes of Single Photoactive Yellow Protein Molecules under Photoexcitation

Kushagra Singhal and A. Kaan Kalkan

pp 429-431

Publication Date (Web): September 29, 2009 (Communication)

DOI: 10.1021/ja9028704



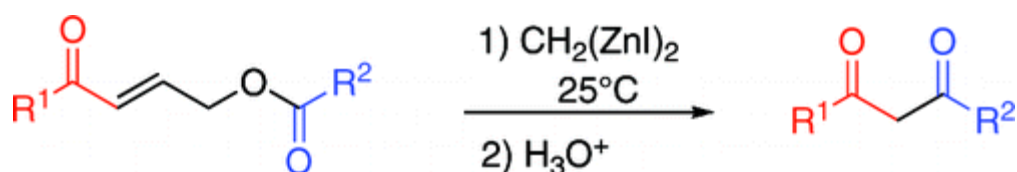
A Tandem Reaction Initiated by 1,4-Addition of Bis(iodozincio)methane for 1,3-Diketone Formation

Mutsumi Sada and Seiji Matsubara

pp 432-433

Publication Date (Web): December 22, 2009 (Communication)

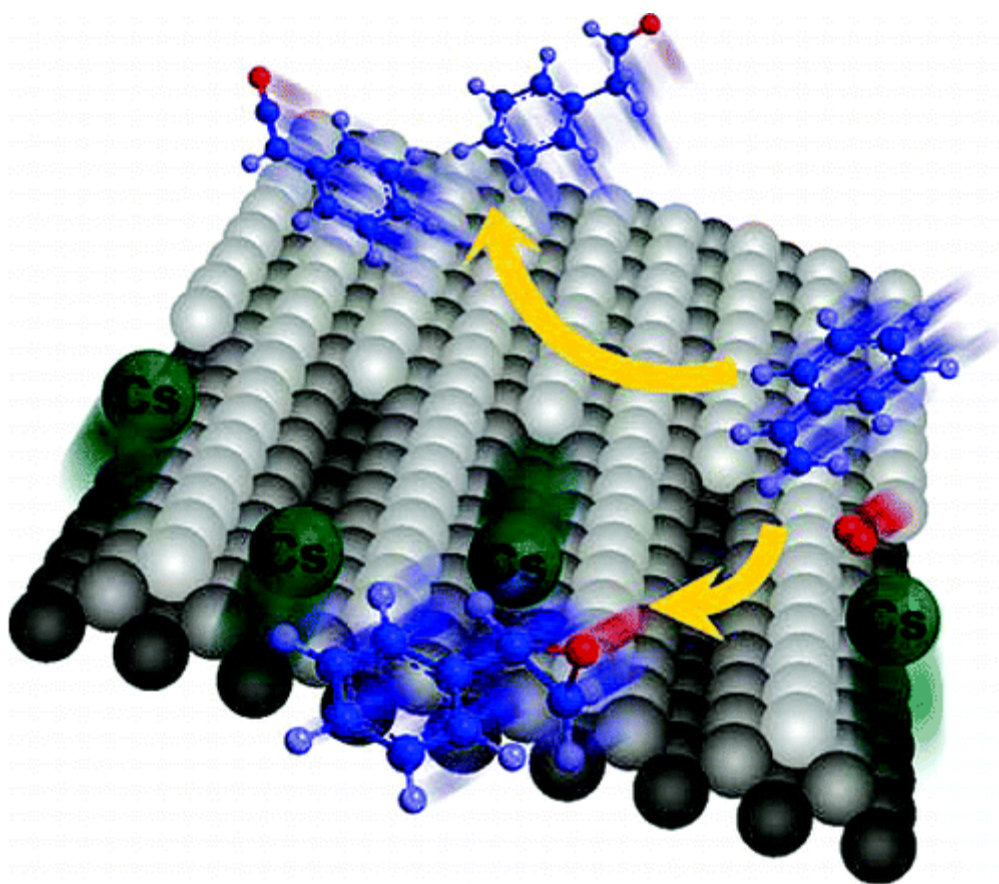
DOI: 10.1021/ja910428y



Cesium Promotion in Styrene Epoxidation on Silver Catalysts

Ling Zhou, Craig F. Gorin and Robert J. Madix

pp 434-435



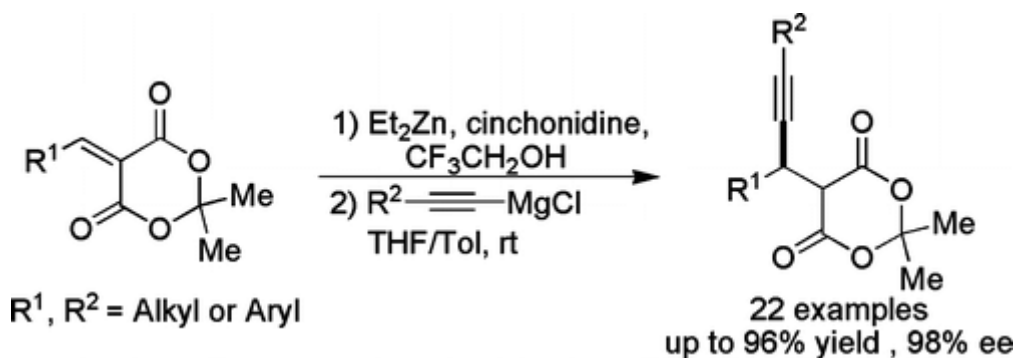
Practical Asymmetric Conjugate Alkynylation of Meldrum's Acid-Derived Acceptors: Access to Chiral β -Alkynyl Acids

Sheng Cui, Shawn D. Walker, Jacqueline C. S. Woo, Christopher J. Borths, Herschel Mukherjee, Maosheng J. Chen and Margaret M. Faul

pp 436-437

Publication Date (Web): December 18, 2009 (Communication)

DOI: 10.1021/ja909105s



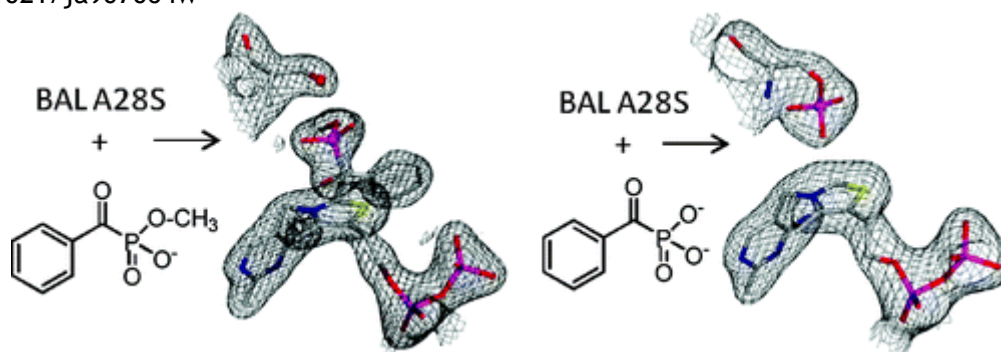
Active-Site Engineering of Benzaldehyde Lyase Shows That a Point Mutation Can Confer Both New Reactivity and Susceptibility to Mechanism-Based Inhibition

Gabriel S. Brandt, Malea M. Kneen, Gregory A. Petsko, Dagmar Ringe and Michael J. McLeish

pp 438-439

Publication Date (Web): December 23, 2009 (Communication)

DOI: 10.1021/ja907064w



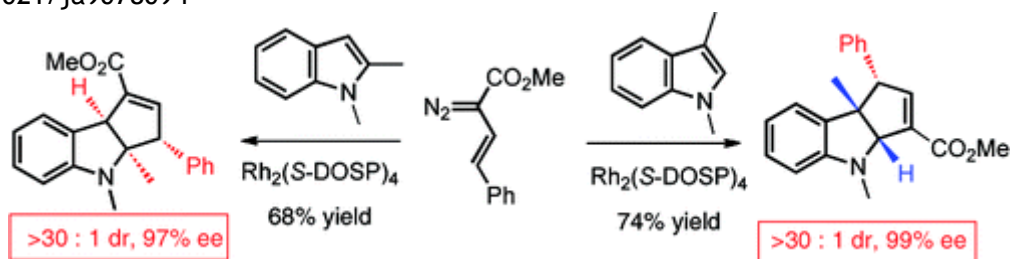
Rhodium-Catalyzed [3 + 2] Annulation of Indoles

Yajing Lian and Huw M. L. Davies

pp 440-441

Publication Date (Web): December 21, 2009 (Communication)

DOI: 10.1021/ja9078094



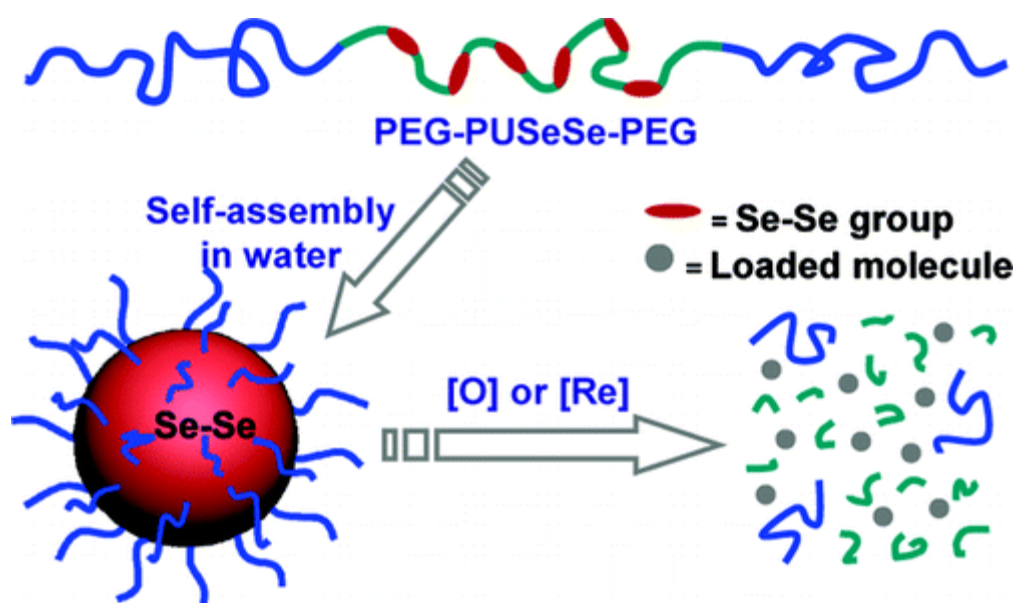
Dual Redox Responsive Assemblies Formed from Diselenide Block Copolymers

Ning Ma, Ying Li, Huaping Xu, Zhiqiang Wang and Xi Zhang

pp 442-443

Publication Date (Web): December 18, 2009 (Communication)

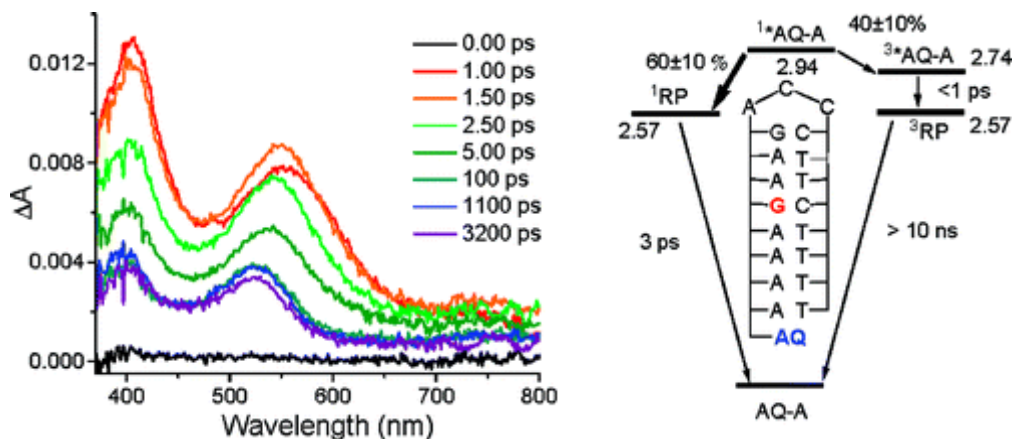
DOI: 10.1021/ja908124g



Frederick D. Lewis, Arun K. Thazhathveetil, Tarek A. Zeidan, Josh Vura-Weis and Michael R. Wasielewski

Publication Date (Web): December 22, 2009 (Communication)

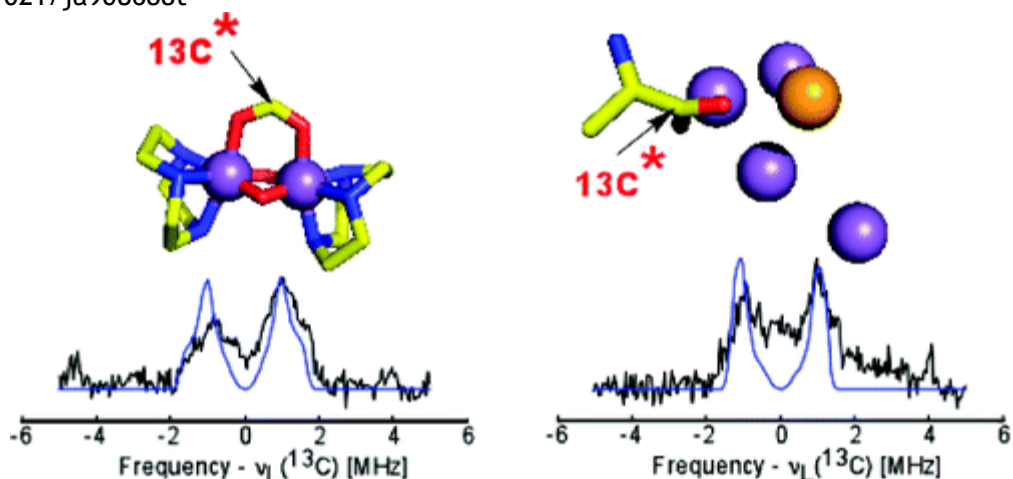
DOI: 10.1021/ja908470d



Jamie A. Stull, Troy A. Stich, Rachel J. Service, Richard J. Debus, Sanjay K. Mandal, William H. Armstrong and R. David Britt

Publication Date (Web): December 28, 2009 (Communication)

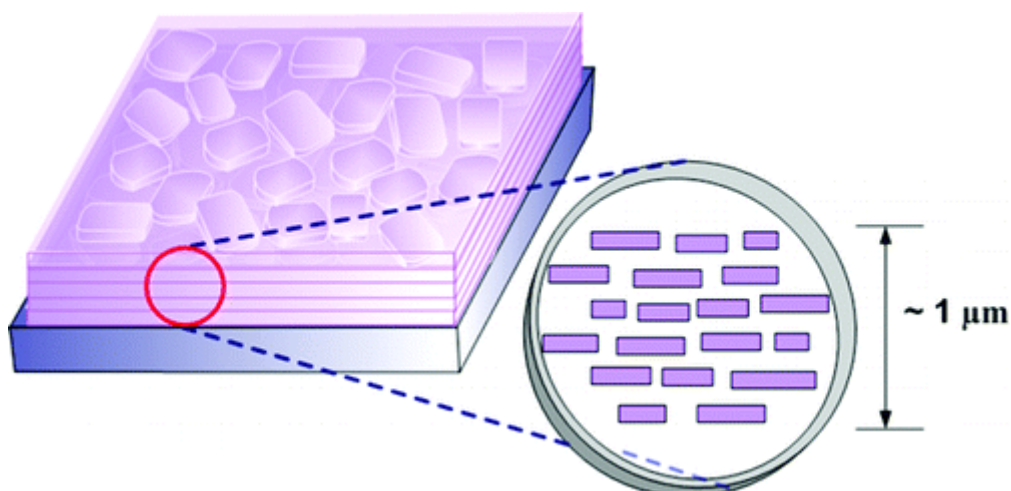
DOI: 10.1021/ja908688t



Jungkyu Choi and Michael Tsapatsis

Publication Date (Web): December 22, 2009 (Communication)

DOI: 10.1021/ja908864g



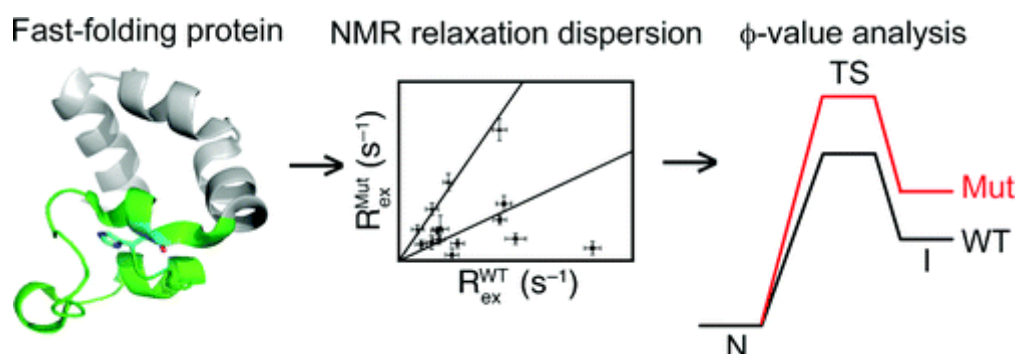
Φ -Value Analysis for Ultrafast Folding Proteins by NMR Relaxation Dispersion

Jae-Hyun Cho, Nichole O'Connell, Daniel P. Raleigh and Arthur G. Palmer, III

pp 450-451

Publication Date (Web): December 22, 2009 (Communication)

DOI: 10.1021/ja909052h



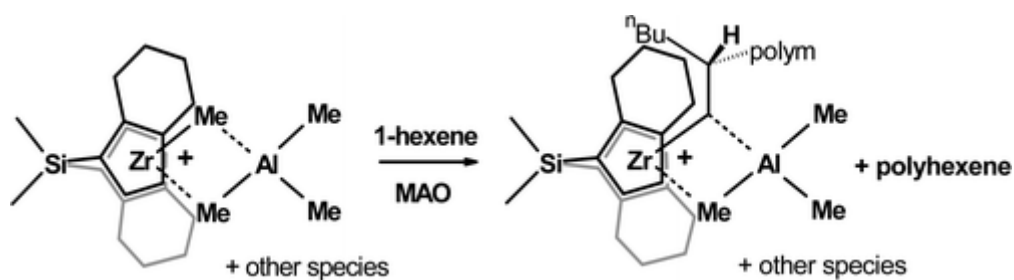
Reactive Intermediates Formed During Olefin Polymerization by Methylalumoxane-Activated *ansa*-Zirconocene Catalysts: Identification of a Chain-Carrying Intermediate by NMR Methods

Dmitrii E. Babushkin and Hans H. Brintzinger

pp 452-453

Publication Date (Web): December 18, 2009 (Communication)

DOI: 10.1021/ja909157r



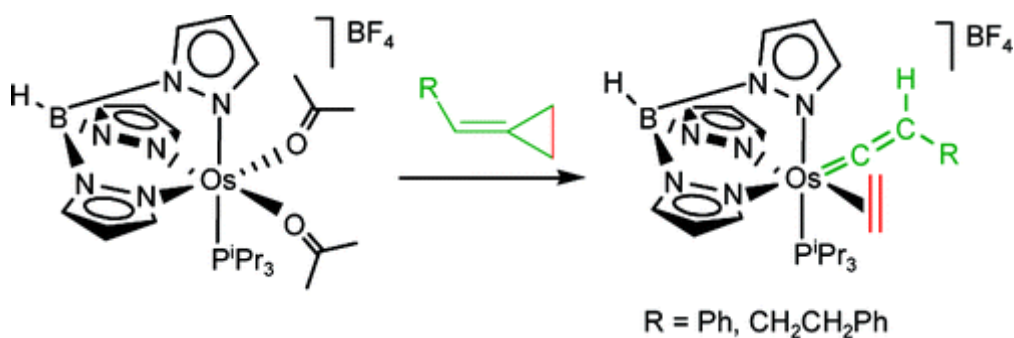
Cleavage of Both C(sp³)-C(sp²) Bonds of Alkylidenecyclopropanes: Formation of Ethylene-Osmium-Vinylidene Complexes

Ruth Castro-Rodrigo, Miguel A. Esteruelas, Ana M. López, Fernando López, José L. Mascareñas, Montserrat Oliván, Enrique Oñate, Lucía Saja and Lara Villarino

pp 454-455

Publication Date (Web): December 17, 2009 (Communication)

DOI: 10.1021/ja909240q



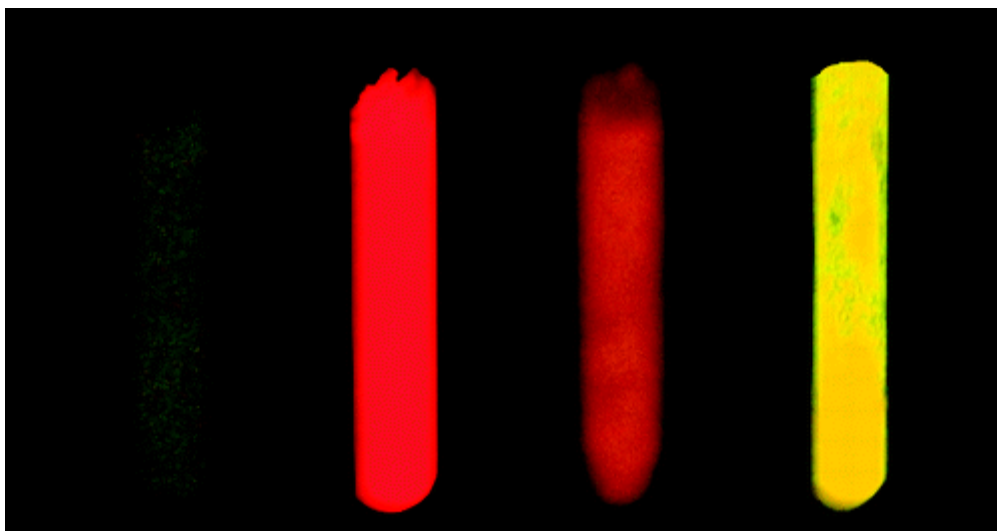
Combining Aurophilic Interactions and Halogen Bonding To Control the Luminescence from Bimetallic Gold-Silver Clusters

Antonio Laguna, Tania Lasanta, José M. López-de-Luzuriaga, Miguel Monge, Panče Naumov and M. Elena Olmos

pp 456-457

Publication Date (Web): December 23, 2009 (Communication)

DOI: 10.1021/ja909241m



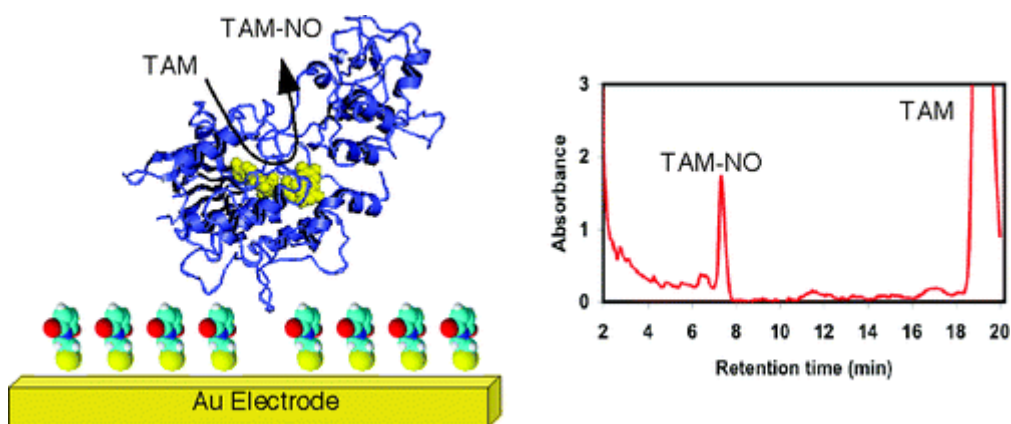
Direct Electrochemistry of Drug Metabolizing Human Flavin-Containing Monooxygenase: Electrochemical Turnover of Benzydamine and Tamoxifen

Sheila J. Sadeghi, Rita Meirinhos, Gianluca Catucci, Vikash R. Dodhia, Giovanna Di Nardo and Gianfranco Gilardi

pp 458-459

Publication Date (Web): December 22, 2009 (Communication)

DOI: 10.1021/ja909261p



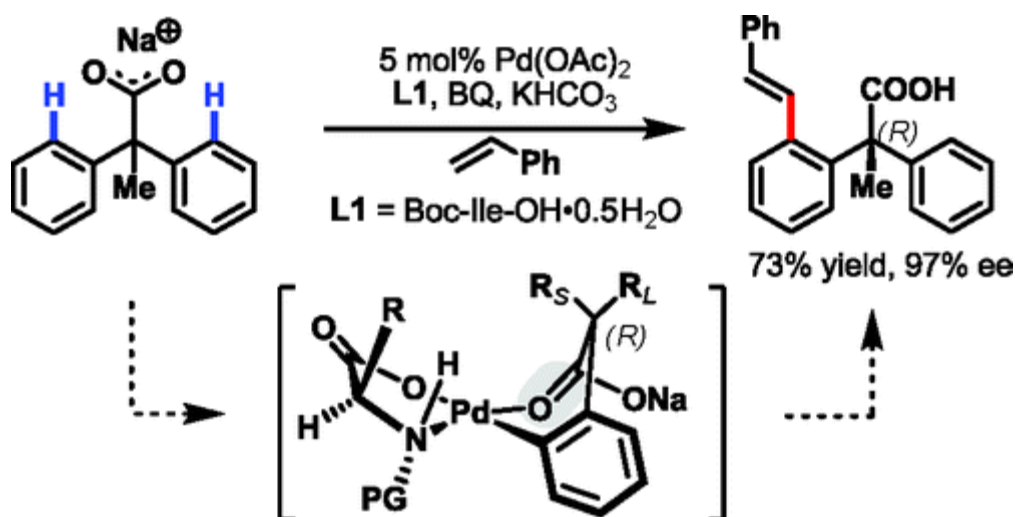
Pd(II)-Catalyzed Enantioselective C–H Olefination of Diphenylacetic Acids

Bing-Feng Shi, Yang-Hui Zhang, Jonathan K. Lam, Dong-Hui Wang and Jin-Quan Yu

pp 460-461

Publication Date (Web): December 17, 2009 (Communication)

DOI: 10.1021/ja909571z



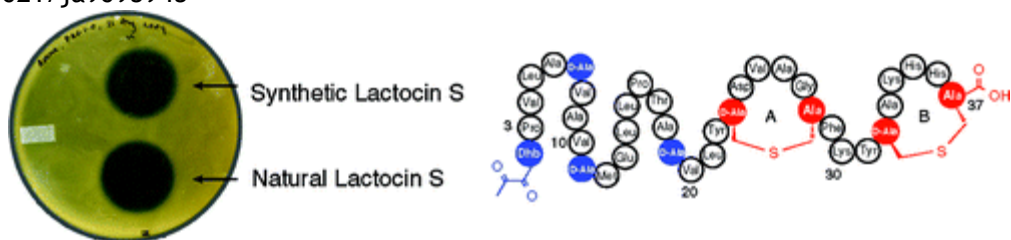
Synthesis of the Lantibiotic Lactocin S Using Peptide Cyclizations on Solid Phase

Avena C. Ross, Hongqiang Liu, Vijaya R. Pattabiraman and John C. Vederas

pp 462-463

Publication Date (Web): December 17, 2009 (Communication)

DOI: 10.1021/ja9095945



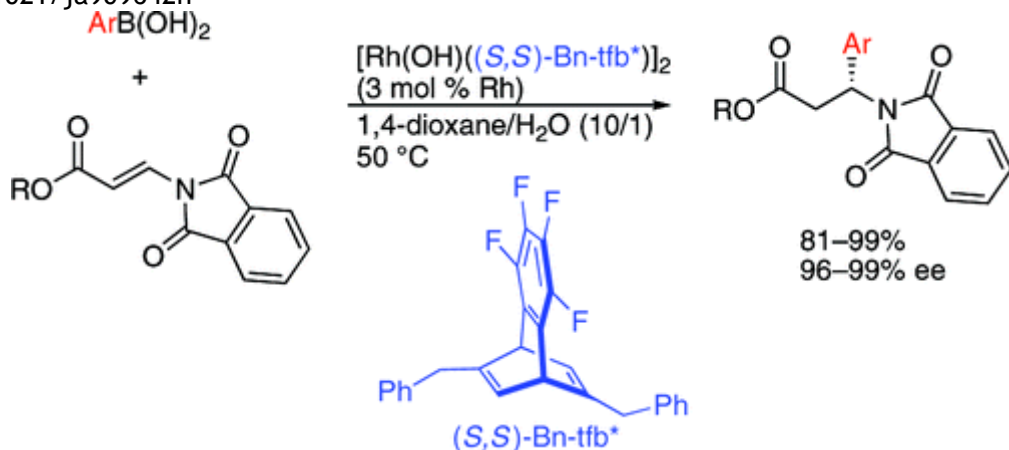
Rhodium-Catalyzed Asymmetric Addition of Arylboronic Acids to β -Phthaliminoacrylate Esters toward the Synthesis of β -Amino Acids

Takahiro Nishimura, Jun Wang, Makoto Nagaosa, Kazuhiro Okamoto, Ryo Shintani, Fuk-yee Kwong, Wing-yiu Yu, Albert S. C. Chan and Tamio Hayashi

pp 464-465

Publication Date (Web): December 22, 2009 (Communication)

DOI: 10.1021/ja909642h



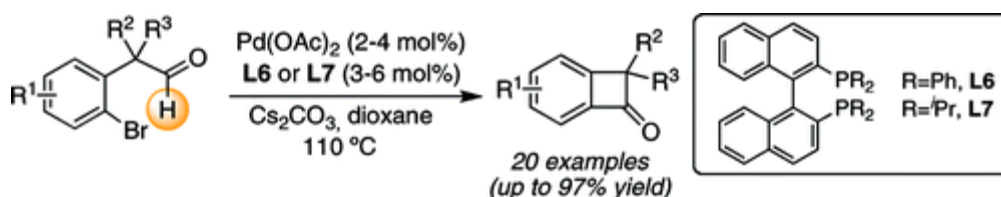
Pd-Catalyzed Intramolecular Acylation of Aryl Bromides via C–H Functionalization: A Highly Efficient Synthesis of Benzocyclobutenones

Paula Álvarez-Bercedo, Areli Flores-Gaspar, Arkaitz Correa and Ruben Martin

pp 466-467

Publication Date (Web): December 28, 2009 (Communication)

DOI: 10.1021/ja909811t



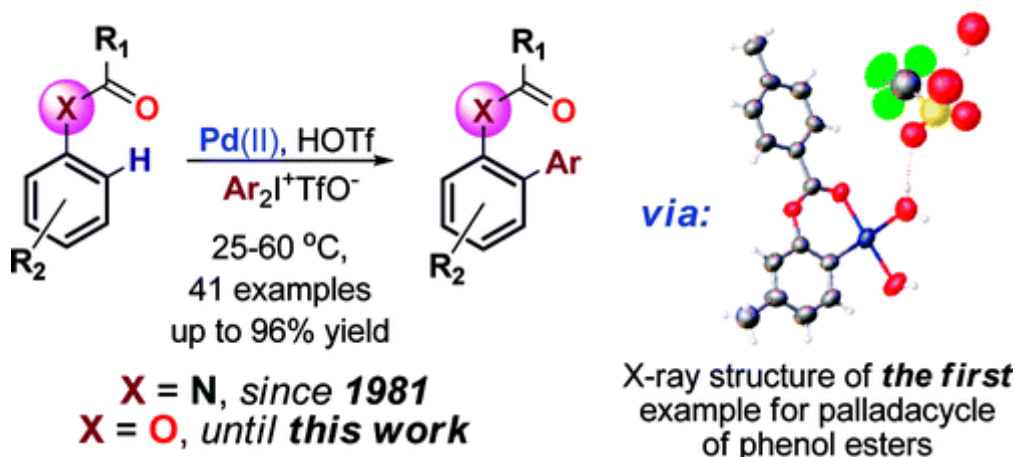
Pd(II)-Catalyzed C-H Activation/Aryl-Aryl Coupling of Phenol Esters

Bin Xiao, Yao Fu, Jun Xu, Tian-Jun Gong, Jian-Jun Dai, Jun Yi and Lei Liu

pp 468-469

Publication Date (Web): December 18, 2009 (Communication)

DOI: 10.1021/ja909818n



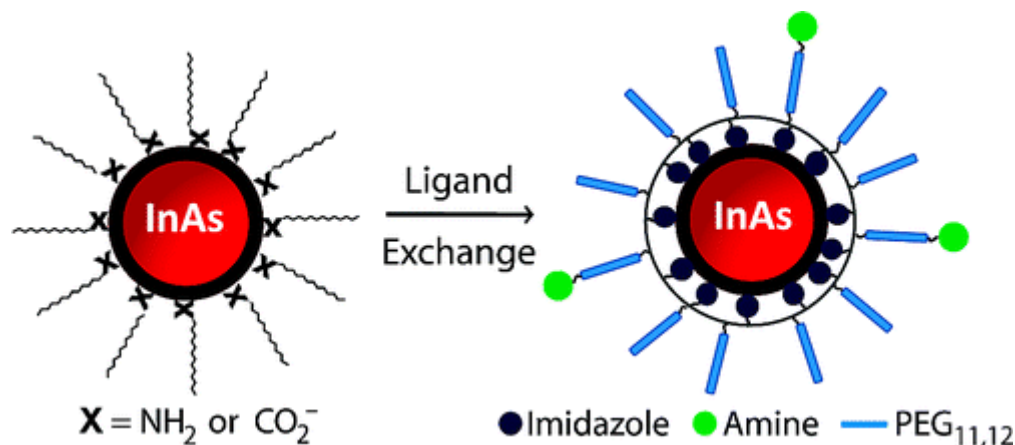
InAs(ZnCdS) Quantum Dots Optimized for Biological Imaging in the Near-Infrared

Peter M. Allen, Wenhao Liu, Vikash P. Chauhan, Jungmin Lee, Alice Y. Ting, Dai Fukumura, Rakesh K. Jain and Mounji G. Bawendi

pp 470-471

Publication Date (Web): December 21, 2009 (Communication)

DOI: 10.1021/ja908250r



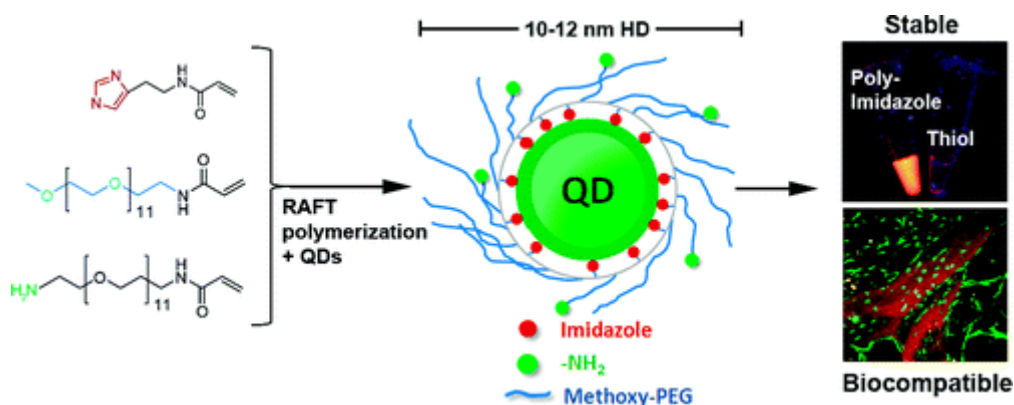
Compact Biocompatible Quantum Dots via RAFT-Mediated Synthesis of Imidazole-Based Random Copolymer Ligand

Wenhao Liu, Andrew B. Greytak, Jungmin Lee, Cliff R. Wong, Jongnam Park, Lisa F. Marshall, Wen Jiang, Peter N. Curtin, Alice Y. Ting, Daniel G. Nocera, Dai Fukumura, Rakesh K. Jain and Mouni G. Bawendi

pp 472-483

Publication Date (Web): December 21, 2009 (Article)

DOI: 10.1021/ja908137d



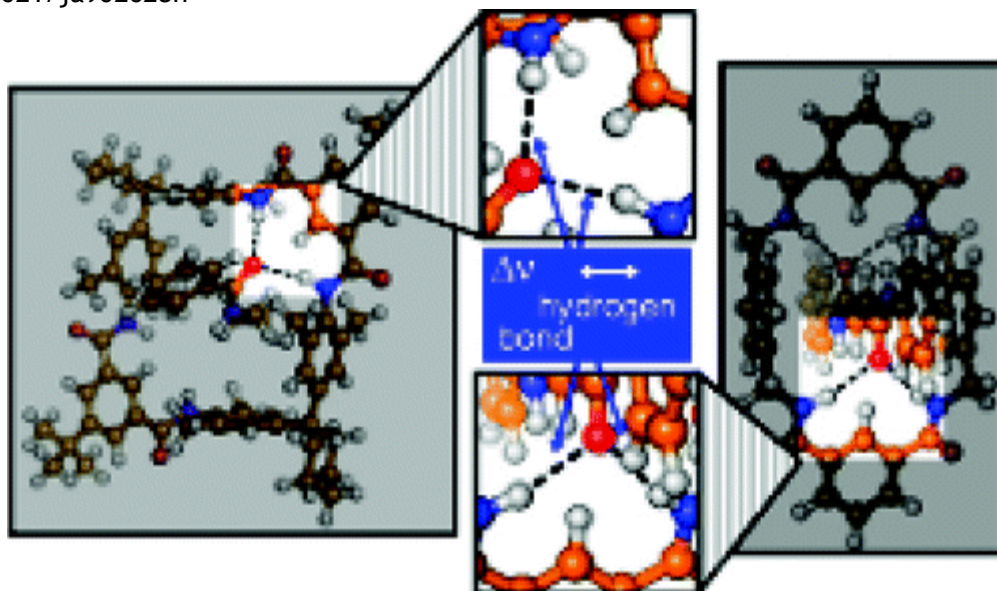
Uncovering Individual Hydrogen Bonds in Rotaxanes by Frequency Shifts

Barbara Kirchner, Christian Spickermann, Werner Reckien and Christoph A. Schalley

pp 484-494

Publication Date (Web): December 22, 2009 (Article)

DOI: 10.1021/ja902628n



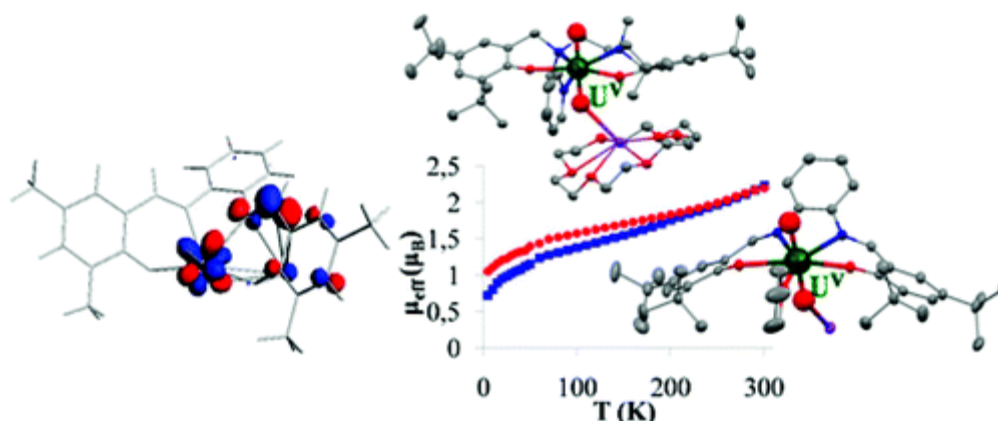
Synthesis, Structure, and Bonding of Stable Complexes of Pentavalent Uranyl

Grégory Nocton, Pawel Horeglad, Valentina Vetere, Jacques Pécaut, Lionel Dubois, Pascale Maldivi, Norman M. Edelstein and Marinella Mazzanti

pp 495-508

Publication Date (Web): December 15, 2009 (Article)

DOI: 10.1021/ja9037164



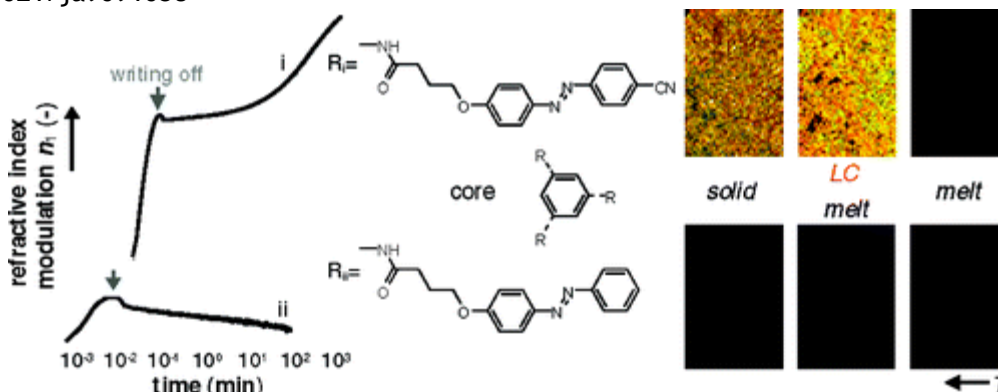
Stable Holographic Gratings with Small-Molecular Trisazobenzene Derivatives

Klaus Kreger, Pascal Wolfer, Hubert Audorff, Lothar Kador, Natalie Stingelin-Stutzmann, Paul Smith and Hans-Werner Schmidt

pp 509-516

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

DOI: 10.1021/ja9091038



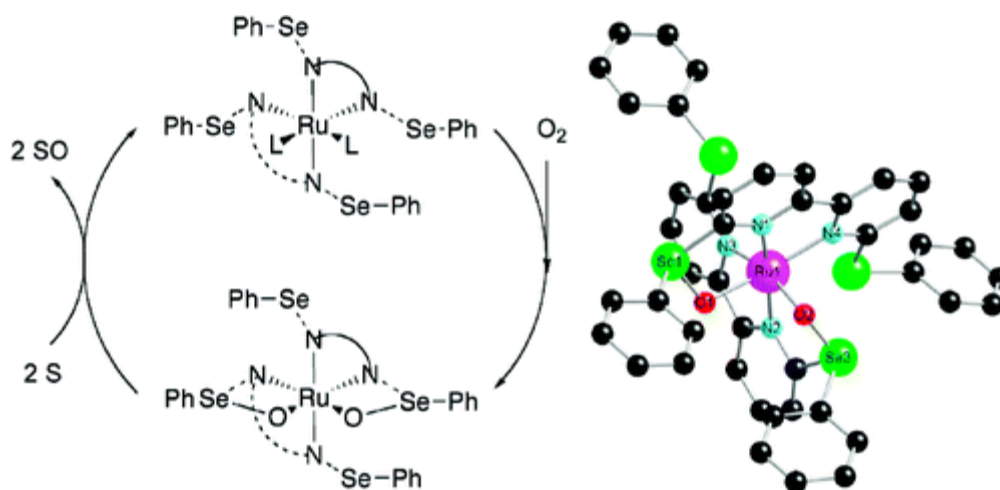
Activation of Molecular Oxygen by a Dioxygenase Pathway by a Ruthenium Bis-bipyridine Compound with a Proximal Selenium Site

Alexander Laskavy, Linda J. W. Shimon, Leonid Konstantinovski, Mark A. Iron and Ronny Neumann

pp 517-523

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

DOI: 10.1021/ja9047027



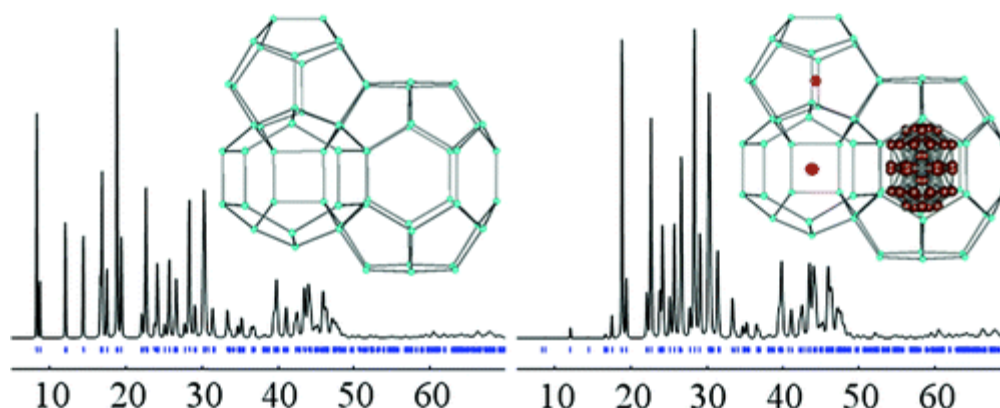
Direct Space Methods for Powder X-ray Diffraction for Guest–Host Materials: Applications to Cage Occupancies and Guest Distributions in Clathrate Hydrates

Satoshi Takeya, Konstantin A. Udachin, Igor L. Moudrakovski, Robin Susilo and John A. Ripmeester

pp 524-531

Publication Date (Web): December 14, 2009 (Article)

DOI: 10.1021/ja905426e



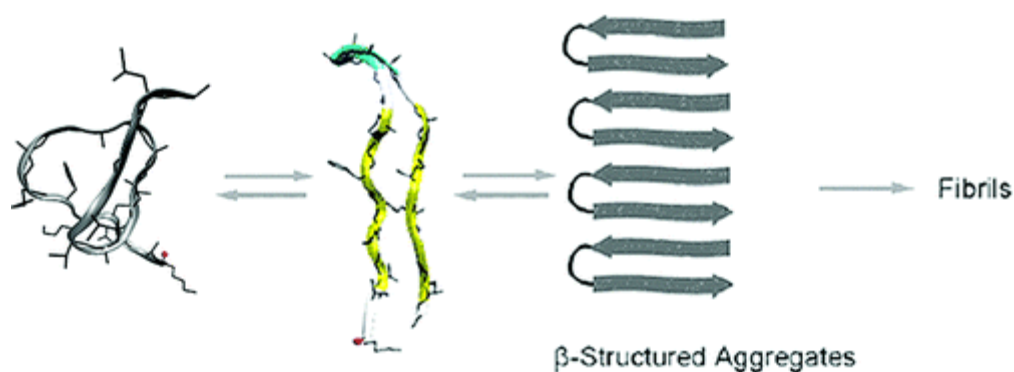
Oligomers of the Prion Protein Fragment 106–126 Are Likely Assembled from β -Hairpins in Solution, and Methionine Oxidation Inhibits Assembly without Altering the Peptide's Monomeric Conformation

Megan Grabenauer, Chun Wu, Patricia Soto, Joan-Emma Shea and Michael T. Bowers

pp 532-539

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

DOI: 10.1021/ja905595k



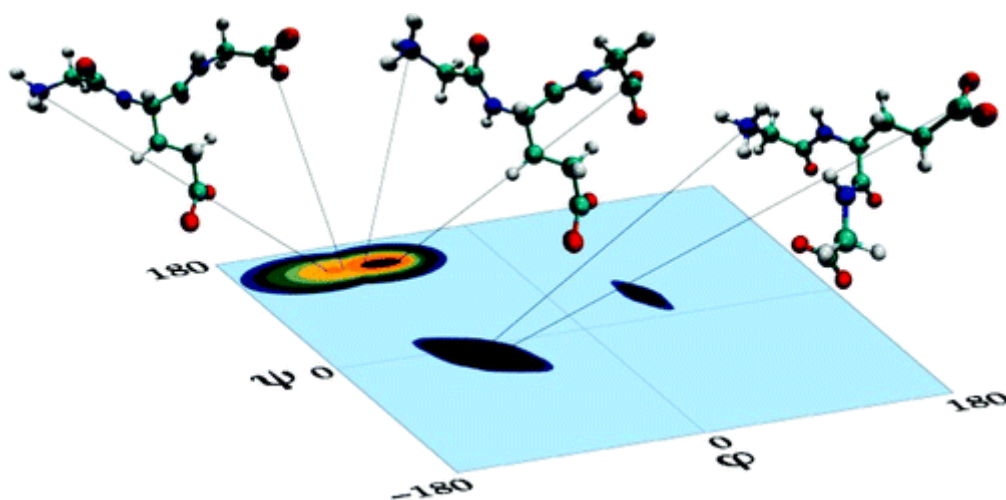
Intrinsic Propensities of Amino Acid Residues in GxG Peptides Inferred from Amide I' Band Profiles and NMR Scalar Coupling Constants

Andrew Hagarman, Thomas J. Measey, Daniel Mathieu, Harald Schwalbe and Reinhard Schweitzer-Stenner

pp 540-551

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

DOI: 10.1021/ja9058052



Uniform Mesoporous Dye-Doped Silica Nanoparticles Decorated with Multiple Magnetite Nanocrystals for Simultaneous Enhanced Magnetic Resonance Imaging, Fluorescence Imaging, and Drug Delivery

Ji Eun Lee, Nohyun Lee, Hyoungsu Kim, Jaeyun Kim, Seung Hong Choi, Jeong Hyun Kim, Taeho Kim, In Chan Song, Seung Pyo Park, Woo Kyung Moon and Taeghwan Hyeon

pp 552-557

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

DOI: 10.1021/ja905793q



Mechanistic Detail Revealed via Comprehensive Kinetic Modeling of [*rac*-C₂H₄(1-indenyl)₂ZrMe₂]-Catalyzed 1-Hexene Polymerization

Krista A. Novstrup, Nicholas E. Travia, Grigori A. Medvedev, Corneliu Stanciu, Jeffrey M. Switzer, Kendall T. Thomson, W. Nicholas Delgass, Mahdi M. Abu-Omar and James M. Caruthers

pp 558-566

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

DOI: 10.1021/ja906332r

Binding of Coenzyme B Induces a Major Conformational Change in the Active Site of Methyl-Coenzyme M Reductase

Sieglinde Ebner, Bernhard Jaun, Meike Goenrich, Rudolf K. Thauer and Jeffrey Harmer

pp 567-575

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

DOI: 10.1021/ja906367h

Control of Muscle Differentiation by a Mitochondria-Targeted Fluorophore

Yun Kyung Kim, Hyung-Ho Ha, Jun-Seok Lee, Xuezhi Bi, Young-Hoon Ahn, Siti Hajar, Jae-Jung Lee and Young-Tae Chang

pp 576-579

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

DOI: 10.1021/ja906862g

Electronic Properties of Pentacene versus Triisopropylsilylethynyl-Substituted Pentacene: Environment-Dependent Effects of the Silyl Substituent

Olga Lobanova Griffith, John E. Anthony, Adolphus G. Jones and Dennis L. Lichtenberger

pp 580-586

Publication Date (Web): December 15, 2009 (Article)

DOI: 10.1021/ja906917r

Helical Structure of Xylose-DNA

Amutha Ramaswamy, Mathy Froeyen, Piet Herdewijn and Arnout Ceulemans

pp 587-595

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

DOI: 10.1021/ja9065877

Electrochemical Stability of Nanometer-Scale Pt Particles in Acidic Environments

Lei Tang, Byungchan Han, Kristin Persson, Cody Friesen, Ting He, Karl Sieradzki and Gerbrand Ceder

pp 596-600

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

DOI: 10.1021/ja9071496

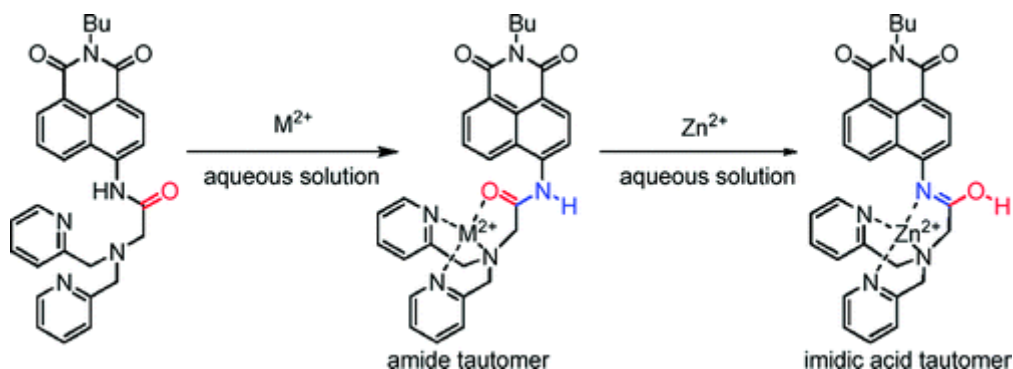
Zn²⁺-Triggered Amide Tautomerization Produces a Highly Zn²⁺-Selective, Cell-Permeable, and Ratiometric Fluorescent Sensor

Zhaochao Xu, Kyung-Hwa Baek, Ha Na Kim, Jingnan Cui, Xuhong Qian, David R. Spring, Injae Shin and Juyoung Yoon

pp 601-610

Publication Date (Web): December 15, 2009 (Article)

DOI: 10.1021/ja907334j



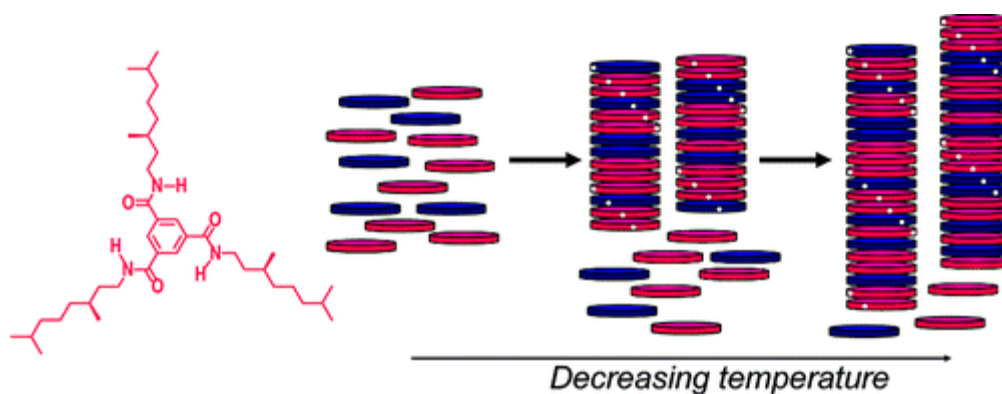
Tuning the Extent of Chiral Amplification by Temperature in a Dynamic Supramolecular Polymer

Maarten M. J. Smulders, Ivo A. W. Filot, Janus M. A. Leenders, Paul van der Schoot, Anja R. A. Palmans, Albertus P. H. J. Schenning and E. W. Meijer

pp 611-619

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

DOI: 10.1021/ja908053d



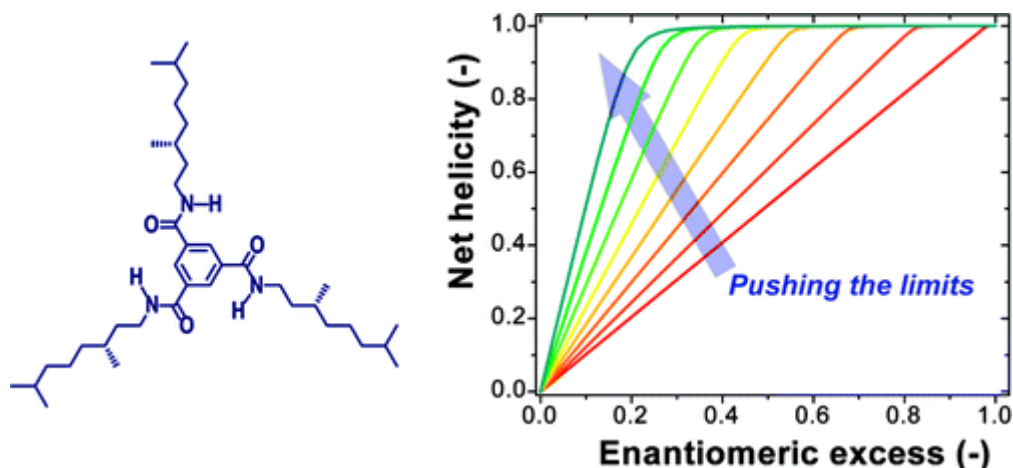
Probing the Limits of the Majority-Rules Principle in a Dynamic Supramolecular Polymer

Maarten M. J. Smulders, Patrick J. M. Stals, Tristan Mes, Tim F. E. Paffen, Albertus P. H. J. Schenning, Anja R. A. Palmans and E. W. Meijer

pp 620-626

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

DOI: 10.1021/ja9080875



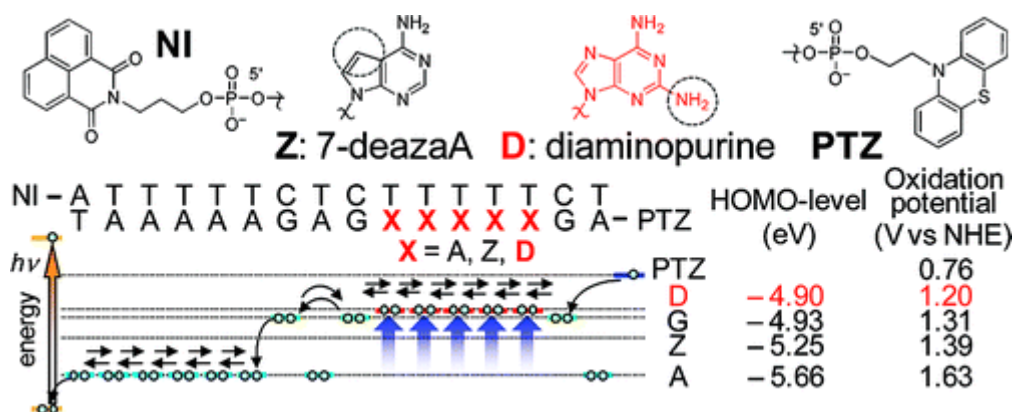
Long-Range Charge Transfer through DNA by Replacing Adenine with Diaminopurine

Kiyohiko Kawai, Haruka Kodera and Tetsuro Majima

pp 627-630

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

DOI: 10.1021/ja907409z



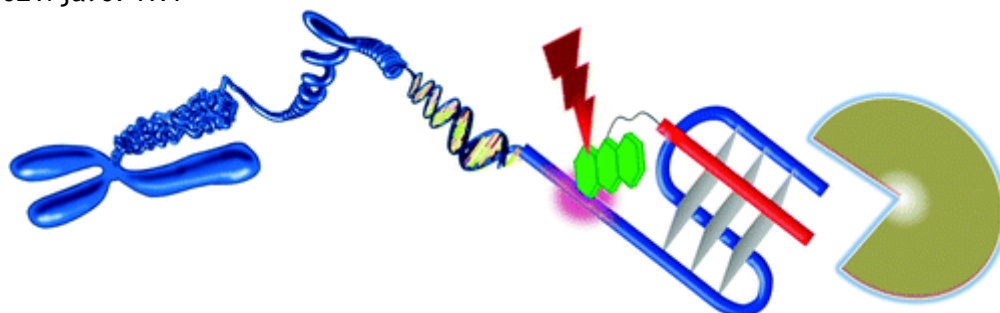
A 6-mer Photocontrolled Oligonucleotide as an Effective Telomerase Inhibitor

Yan Xu, Kenichiro Ito, Yuta Suzuki and Makoto Komiyama

pp 631-637

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

DOI: 10.1021/ja907417r



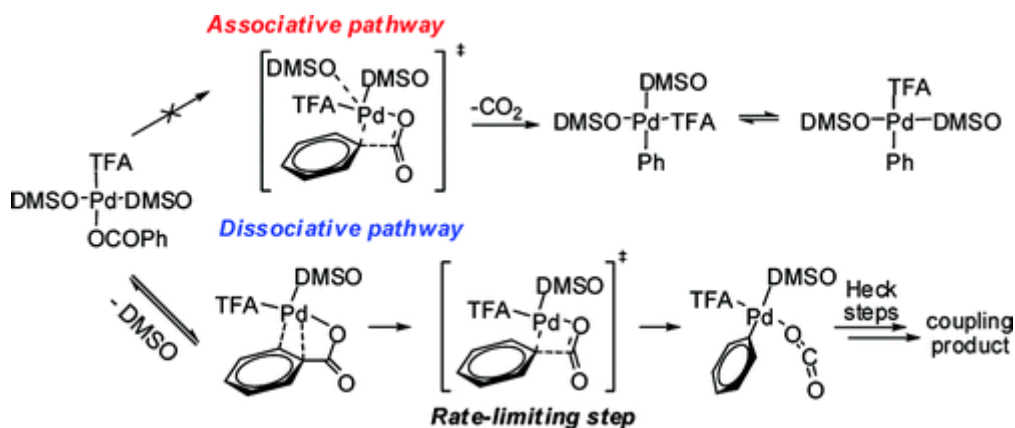
Theoretical Analysis of Factors Controlling Pd-Catalyzed Decarboxylative Coupling of Carboxylic Acids with Olefins

Song-Lin Zhang, Yao Fu, Rui Shang, Qing-Xiang Guo and Lei Liu

pp 638-646

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

DOI: 10.1021/ja907448t



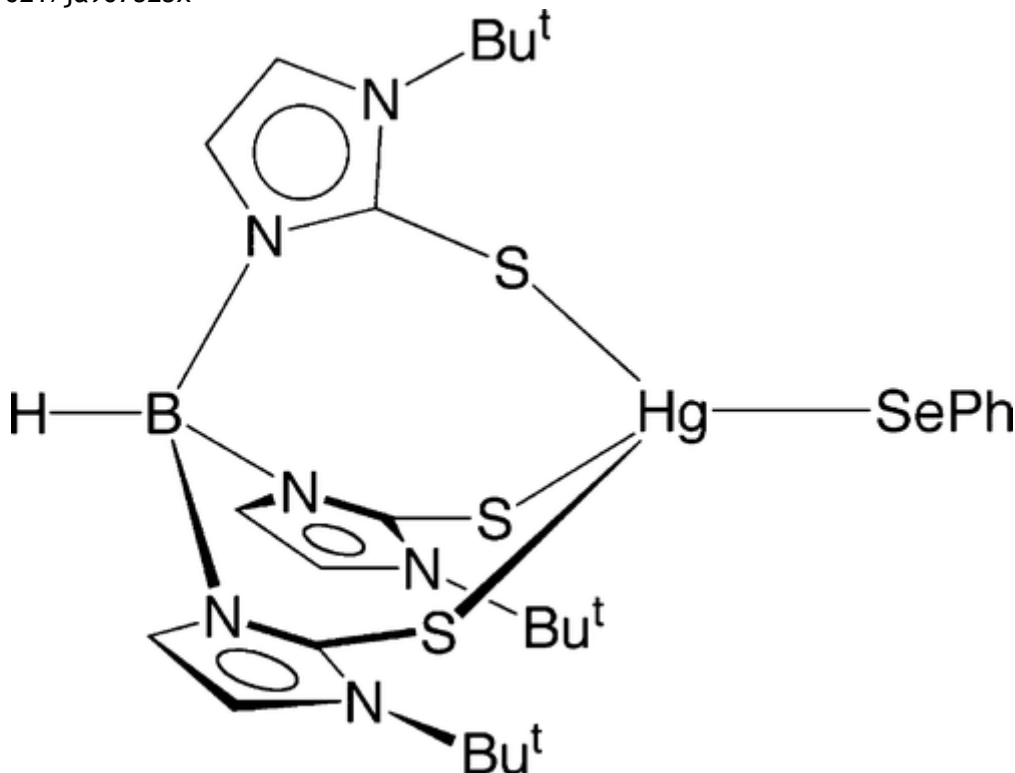
On the Chalcogenophilicity of Mercury: Evidence for a Strong Hg–Se Bond in $[\text{Tm}^{\text{Bu}_t}]\text{HgSePh}$ and Its Relevance to the Toxicity of Mercury

Jonathan G. Melnick, Kevin Yurkerwich and Gerard Parkin

pp 647-655

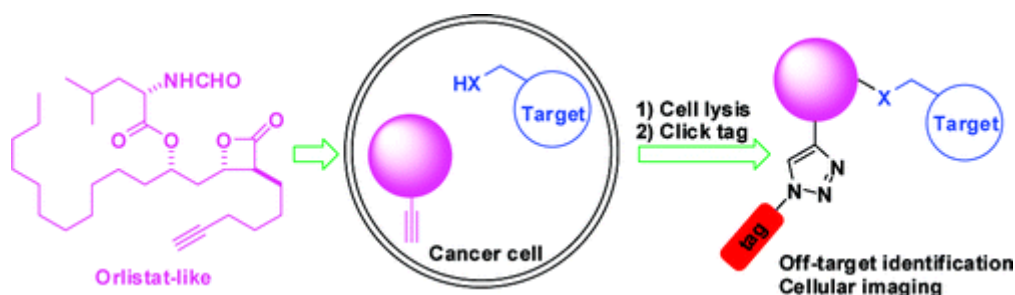
Publication Date (Web): December 18, 2009 (Article)

DOI: 10.1021/ja907523x



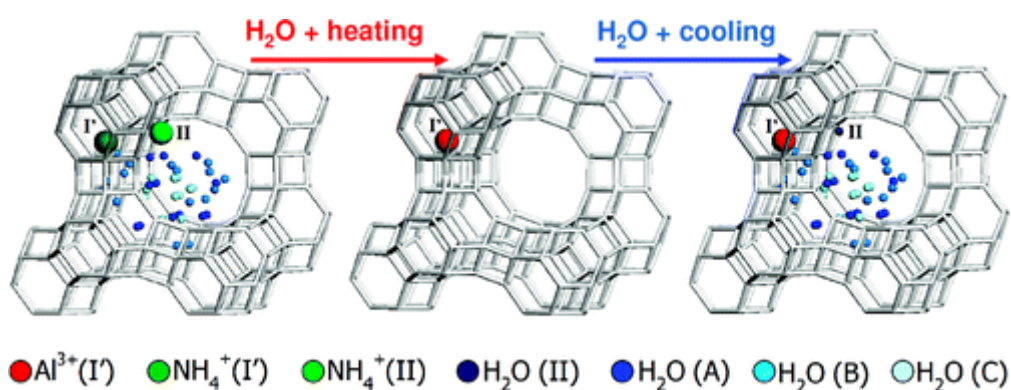
Activity-Based Proteome Profiling of Potential Cellular Targets of Orlistat – An FDA-Approved Drug with Anti-Tumor Activities

Peng-Yu Yang, Kai Liu, Mun Hong Ngai, Martin J. Lear, Markus R. Wenk and Shao Q. Yao
 pp 656-666
 Publication Date (Web): December 22, 2009 (Article)
 DOI: 10.1021/ja907716f



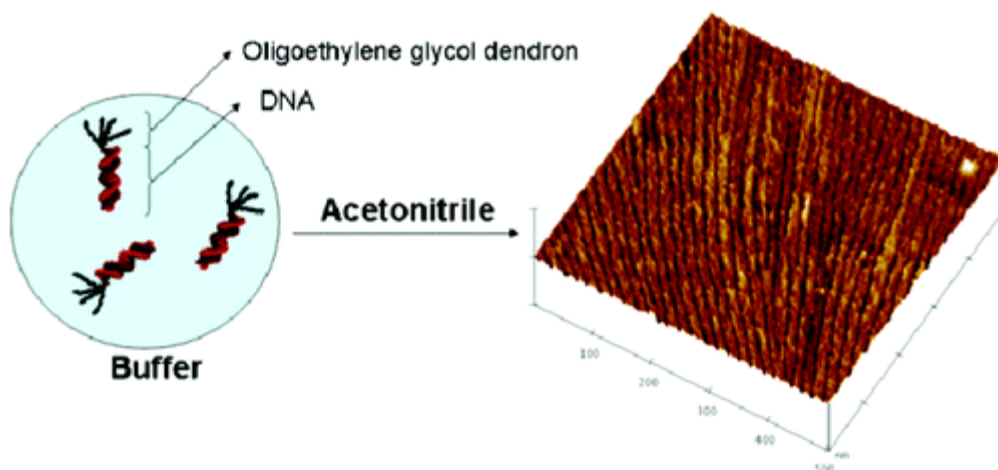
In Situ XAS and XRPD Parametric Rietveld Refinement To Understand Dealumination of Y Zeolite Catalyst

Giovanni Agostini, Carlo Lamberti, Luca Palin, Marco Milanese, Nadiya Danilina, Bin Xu, Markus Janousch and Jeroen A. van Bokhoven
 pp 667-678
 Publication Date (Web): December 15, 2009 (Article)
 DOI: 10.1021/ja907696h



Long-Range Assembly of DNA into Nanofibers and Highly Ordered Networks Using a Block Copolymer Approach

Karina M. M. Carneiro, Faisal A. Aldaye and Hanadi F. Sleiman
 pp 679-685
 Publication Date (Web): December 21, 2009 (Article)
 DOI: 10.1021/ja907735m



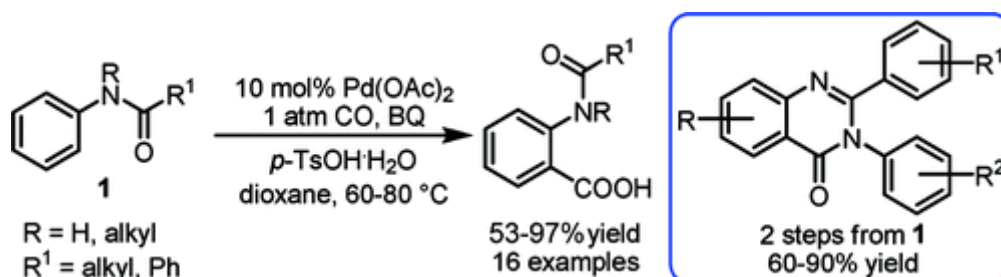
Synthetic Applications of Pd(II)-Catalyzed C–H Carboxylation and Mechanistic Insights: Expedient Routes to Anthranilic Acids, Oxazolinones, and Quinazolinones

Ramesh Giri, Jonathan K. Lam and Jin-Quan Yu

pp 686–693

Publication Date (Web): December 15, 2009 (Article)

DOI: 10.1021/ja9077705



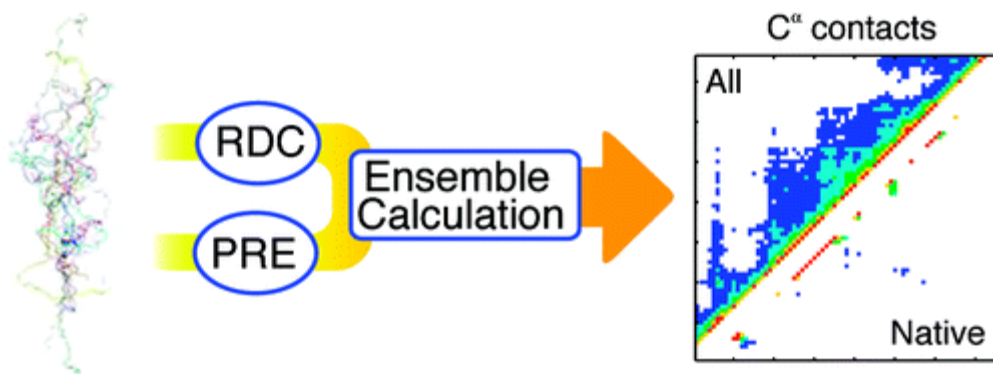
Ensemble Calculations of Unstructured Proteins Constrained by RDC and PRE Data: A Case Study of Urea-Denatured Ubiquitin

Jie-rong Huang and Stephan Grzesiek

pp 694–705

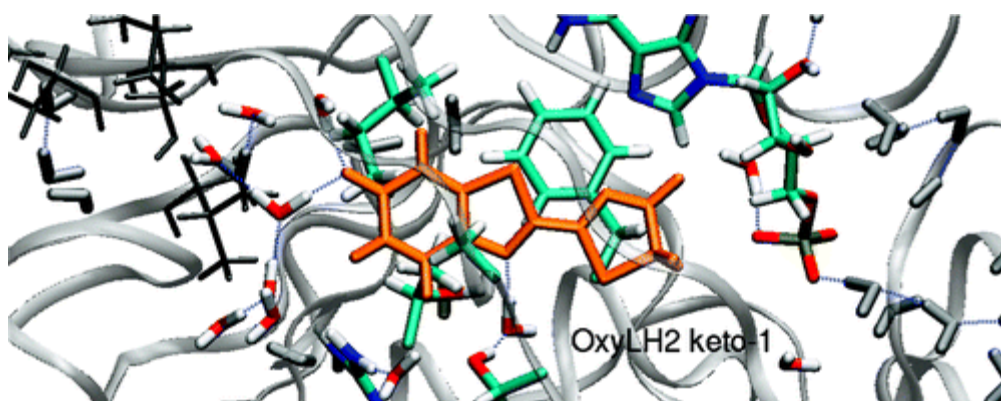
Publication Date (Web): December 15, 2009 (Article)

DOI: 10.1021/ja907974m



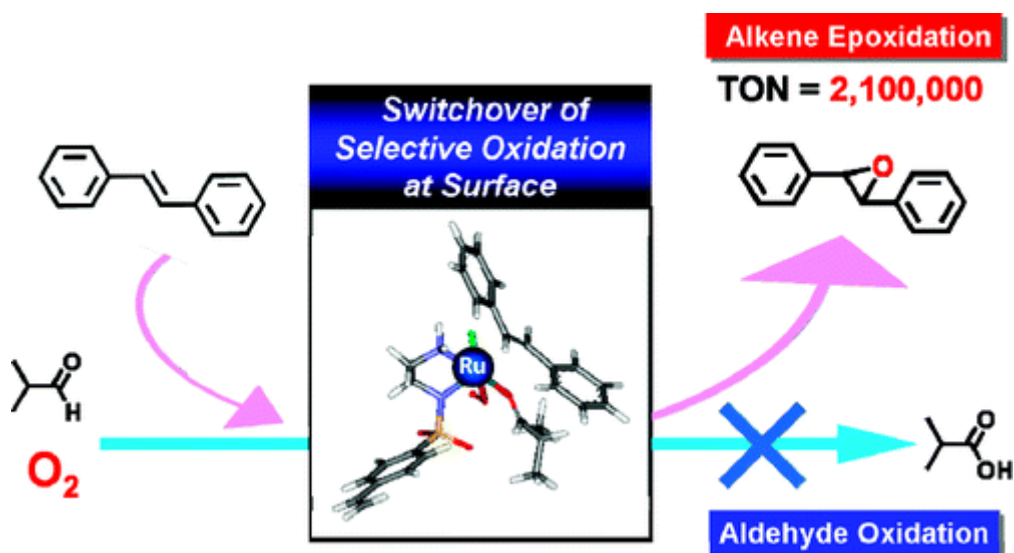
Color-Tuning Mechanism of Firefly Investigated by Multi-Configurational Perturbation Method

Isabelle Navizet, Ya-Jun Liu, Nicolas Ferré, Hong-Yan Xiao, Wei-Hai Fang and Roland Lindh
pp 706-712
Publication Date (Web): December 16, 2009 (Article)
DOI: 10.1021/ja908051h



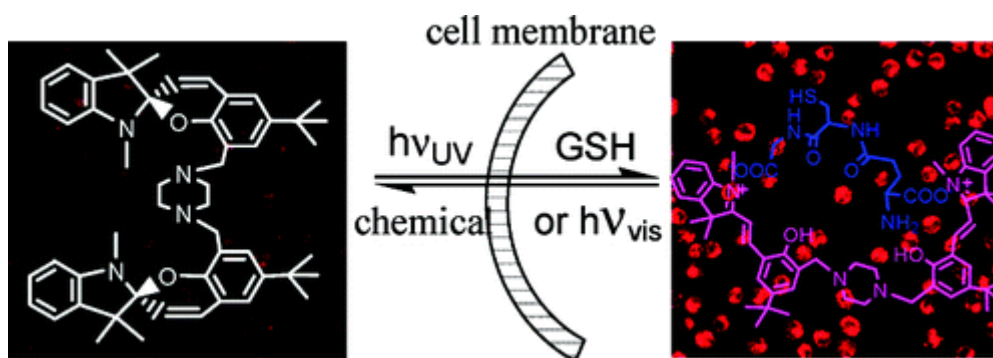
Alternative Selective Oxidation Pathways for Aldehyde Oxidation and Alkene Epoxidation on a SiO₂-Supported Ru-Monomer Complex Catalyst

Mizuki Tada, Satoshi Muratsugu, Mutsuo Kinoshita, Takehiko Sasaki and Yasuhiro Iwasawa
pp 713-724
Publication Date (Web): December 15, 2009 (Article)
DOI: 10.1021/ja9079513



Design of Bis-spiropyran Ligands as Dipolar Molecule Receptors and Application to in Vivo Glutathione Fluorescent Probes

Na Shao, Jianyu Jin, Hao Wang, Jing Zheng, Ronghua Yang, Winghong Chan and Zeper Abliz
pp 725-736
Publication Date (Web): December 23, 2009 (Article)
DOI: 10.1021/ja908215t



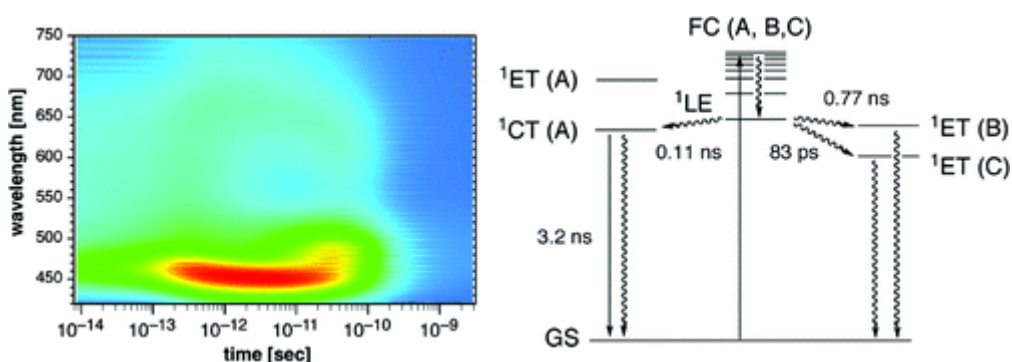
Kinetically Controlled Photoinduced Electron Transfer Switching in Cu(I)-Responsive Fluorescent Probes

Aneese F. Chaudhry, Manjusha Verma, M. Thomas Morgan, Maged M. Henary, Nisan Siegel, Joel M. Hales, Joseph W. Perry and Christoph J. Fahrni

pp 737-747

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

DOI: 10.1021/ja908326z



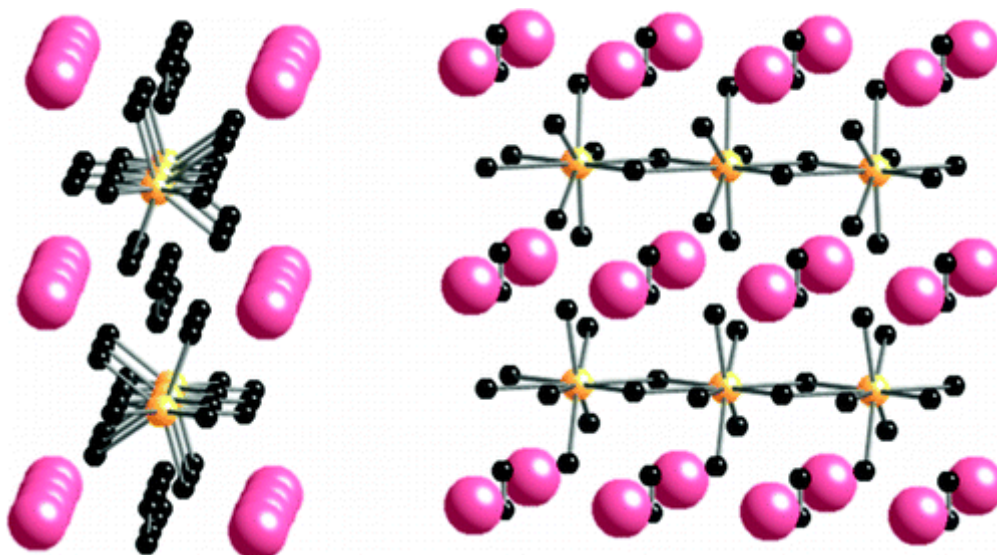
Compressing the Most Hydrogen-Rich Inorganic Ion

Georgios Markopoulos, Peter Kroll and Roald Hoffmann

pp 748-755

Publication Date (Web): December 21, 2009 (Article)

DOI: 10.1021/ja908345e



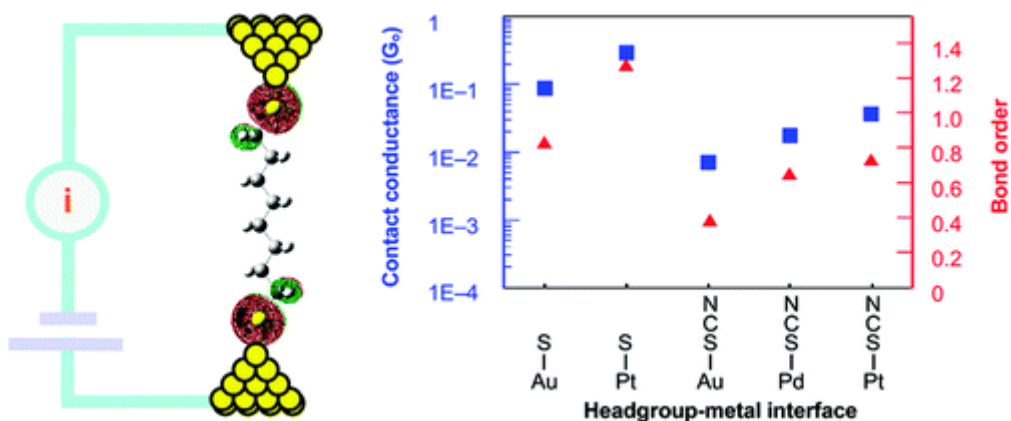
Superior Contact for Single-Molecule Conductance: Electronic Coupling of Thiolate and Isothiocyanate on Pt, Pd, and Au

Chih-Hung Ko, Min-Jie Huang, Ming-Dung Fu and Chun-hsien Chen

pp 756-764

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

DOI: 10.1021/ja9084012



Selectively Metallized Polymeric Substrates by Microcontact Printing an Aluminum(III) Porphyrin Complex

Michael S. Miller, Heather L. Filiatrault, Gregory J. E. Davidson, Minmin Luo and Tricia Breen Carmichael

pp 765-772

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



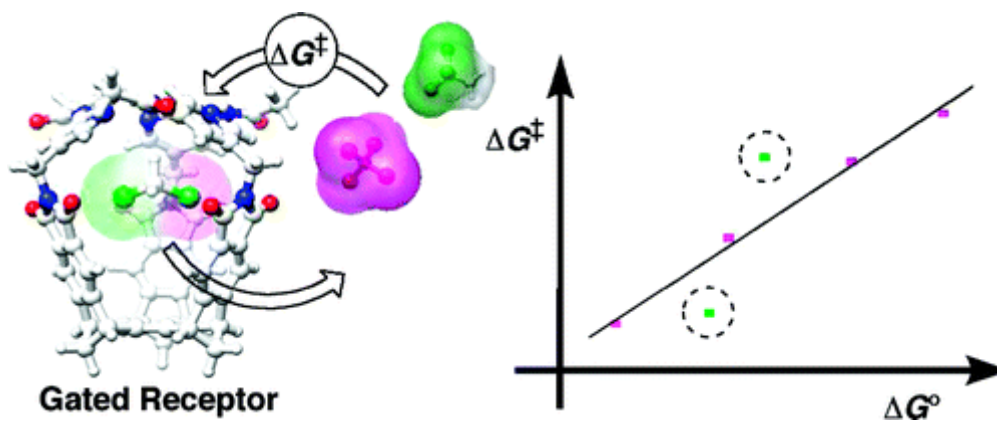
Gated Molecular Recognition and Dynamic Discrimination of Guests

Stephen Rieth, Xiaoguang Bao, Bao-Yu Wang, Christopher M. Hadad and Jovica D. Badji⁶

pp 773-776

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

DOI: 10.1021/ja908436c



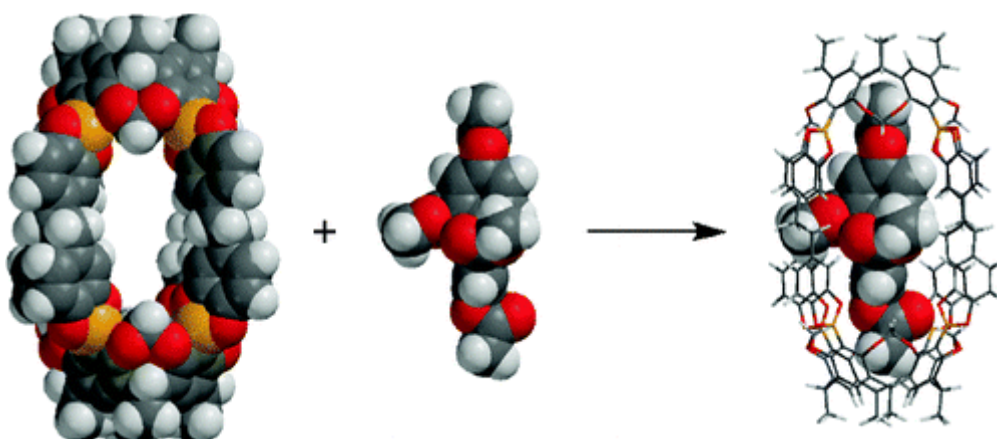
Guest-Encapsulation Properties of a Self-Assembled Capsule by Dynamic Boronic Ester Bonds

Naoki Nishimura, Kenji Yoza and Kenji Kobayashi

pp 777-790

Publication Date (Web): December 15, 2009 (Article)

DOI: 10.1021/ja9084918



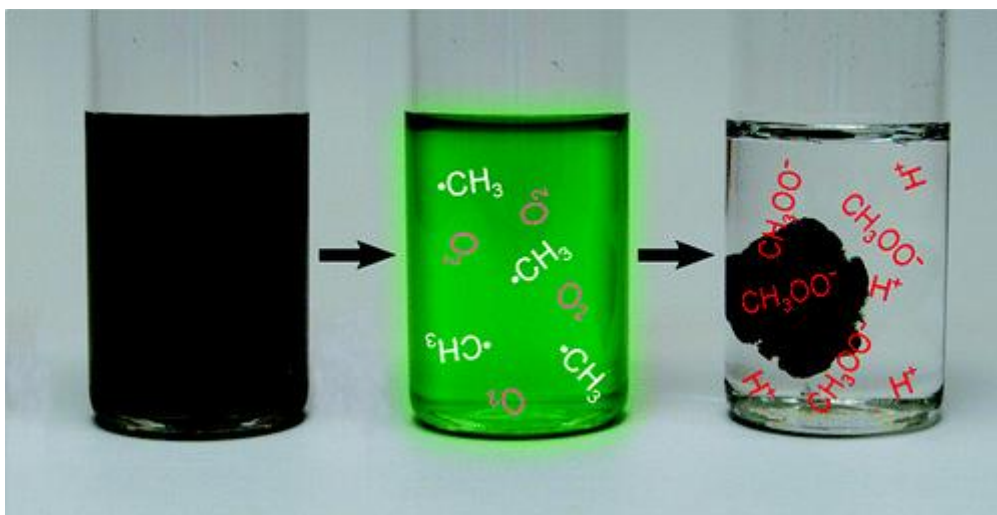
Sonochemical Formation of Methyl Hydroperoxide in Polar Aprotic Solvents and Its Effect on Single-Walled Carbon Nanotube Dispersion Stability

Michael W. Forney and Jordan C. Poler

pp 791-797

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

DOI: 10.1021/ja9085462



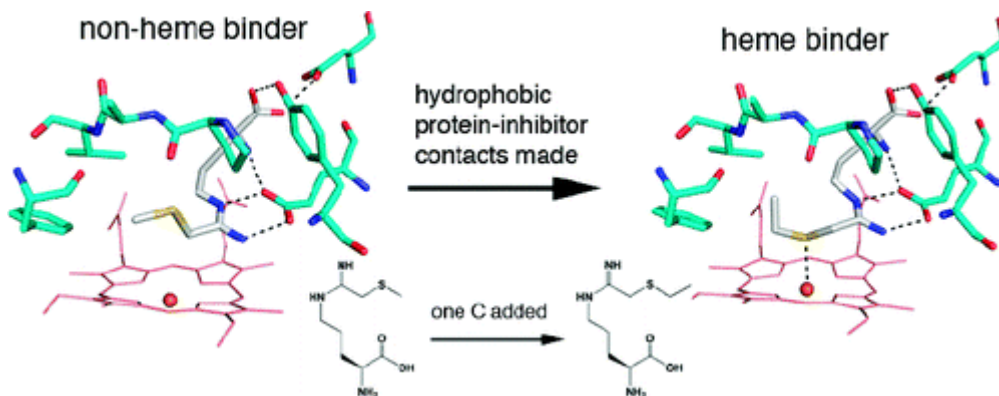
Heme-Coordinating Inhibitors of Neuronal Nitric Oxide Synthase. Iron–Thioether Coordination Is Stabilized by Hydrophobic Contacts without Increased Inhibitor Potency

Jeffrey D. Martell, Huiying Li, Tzanko Doukov, Pavel Martásek, Linda J. Roman, Michael Soltis, Thomas L. Poulos and Richard B. Silverman

pp 798-806

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

DOI: 10.1021/ja908544f



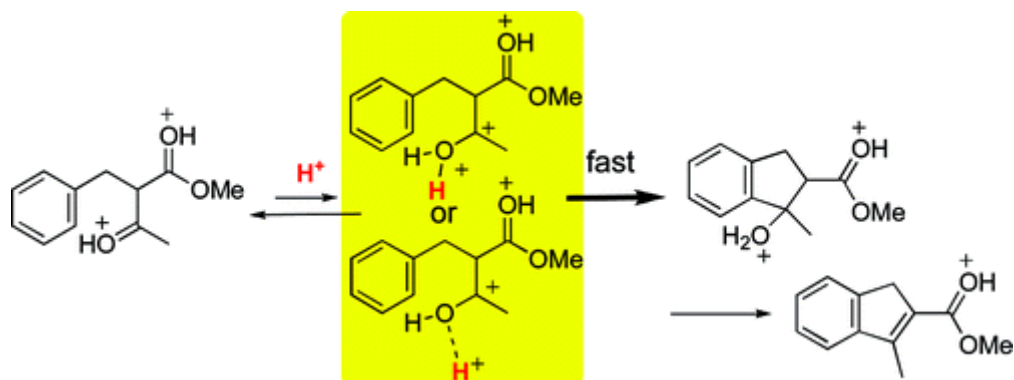
Cyclization of Arylacetoacetates to Indene and Dihydronaphthalene Derivatives in Strong Acids. Evidence for Involvement of Further Protonation of O,O-Diprotonated β -Ketoester, Leading to Enhancement of Cyclization

Hiroaki Kurouchi, Hiromichi Sugimoto, Yuko Otani and Tomohiko Ohwada

pp 807-815

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

DOI: 10.1021/ja908749u



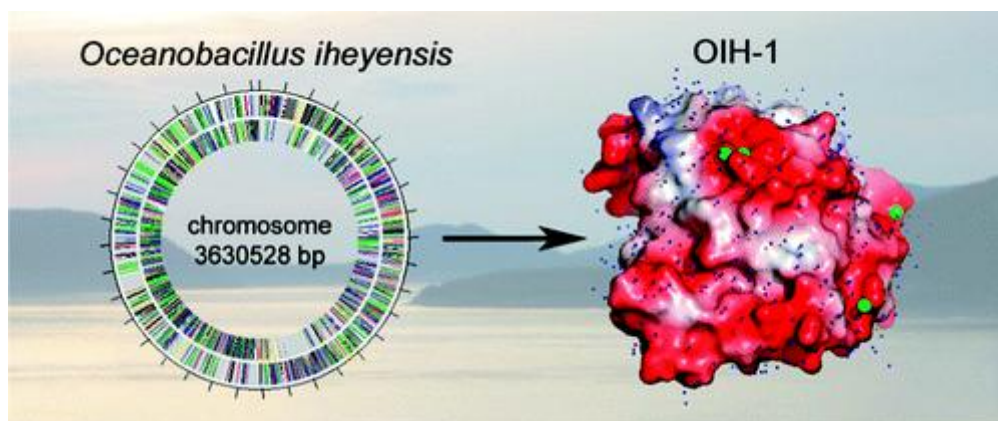
An Antibiotic-Resistance Enzyme from a Deep-Sea Bacterium

Marta Toth, Clyde Smith, Hilary Frase, Shahriar Mobashery and Sergei Vakulenko

pp 816-823

Publication Date (Web): December 14, 2009 (Article)

DOI: 10.1021/ja908850p



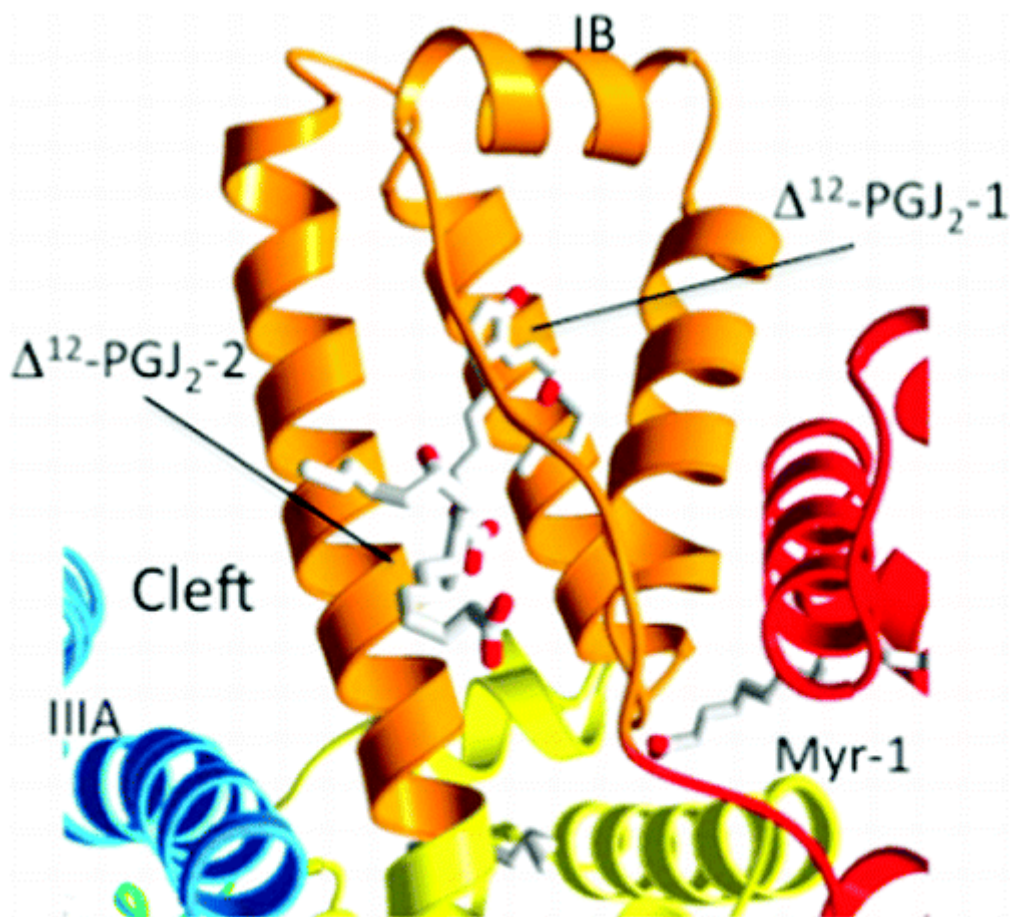
Δ^{12} -Prostaglandin J_2 as a Product and Ligand of Human Serum Albumin: Formation of an Unusual Covalent Adduct at His146

Satoru Yamaguchi, Giancarlo Aldini, Sohei Ito, Nozomi Morishita, Takahiro Shibata, Giulio Vistoli, Marina Carini and Koji Uchida

pp 824-832

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

DOI: 10.1021/ja908878n



The New Face of Rhodium Alloys: Revealing Ordered Structures from First Principles

Ohad Levy, Roman V. Chepulsii, Gus L. W. Hart and Stefano Curtarolo

pp 833-837

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

DOI: 10.1021/ja908879y

Experiment							Calculations						
Mn	Fe	Co	Ni	Cu	Zn?		Mn	Fe	Co	Ni	Cu	Zn	
Tc	Ru	Rh	Pd	Ag	Cd?		Tc	Ru	Rh	Pd	Ag	Cd	
Re	Os	Ir	Pt	Au	Hg		Re	Os	Ir	Pt	Au	Hg	

X - phase-separating	X - compound-forming	X? - insufficient data
-------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------	------------------------

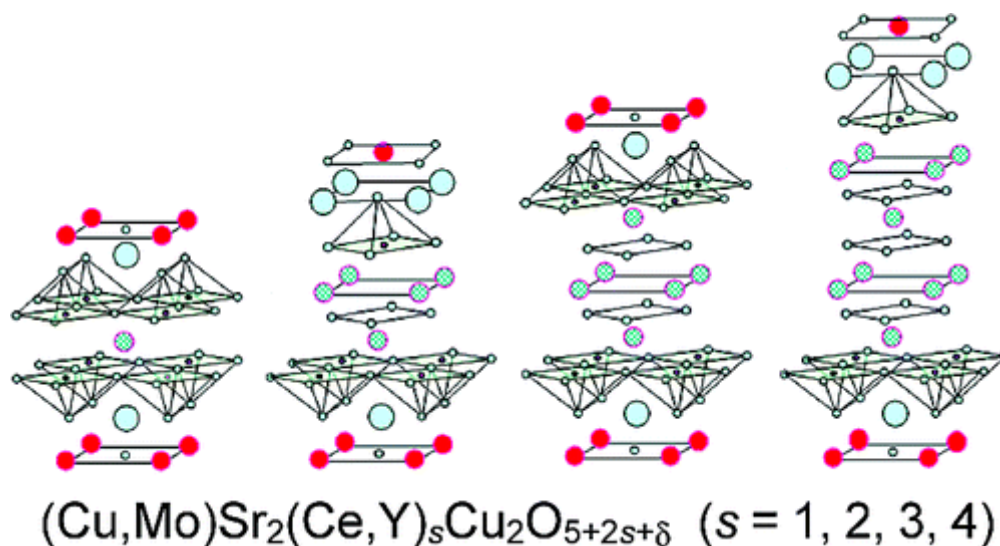
Electronic Structures, Hole-Doping, and Superconductivity of the $s = 1, 2, 3,$ and 4 Members of the $(\text{Cu}, \text{Mo})\text{-}12s2$ Homologous Series of Superconductive Copper Oxides

Inga Grigoraviciute, Maarit Karppinen, Ting-Shan Chan, Ru-Shi Liu, Jin-Ming Chen, Omar Chmaissem and Hisao Yamauchi

pp 838-841

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

DOI: 10.1021/ja9087067



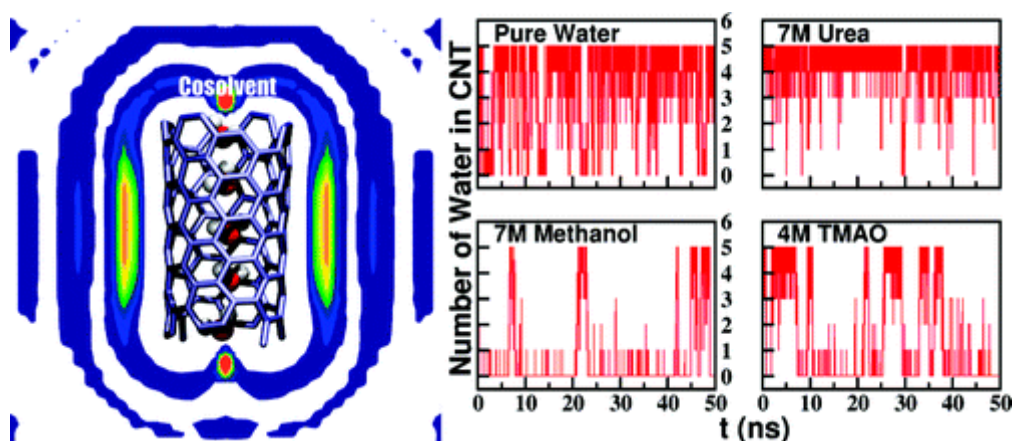
Effects of Cosolvents on the Hydration of Carbon Nanotubes

Lijiang Yang and Yi Qin Gao

pp 842-848

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

DOI: 10.1021/ja9091825



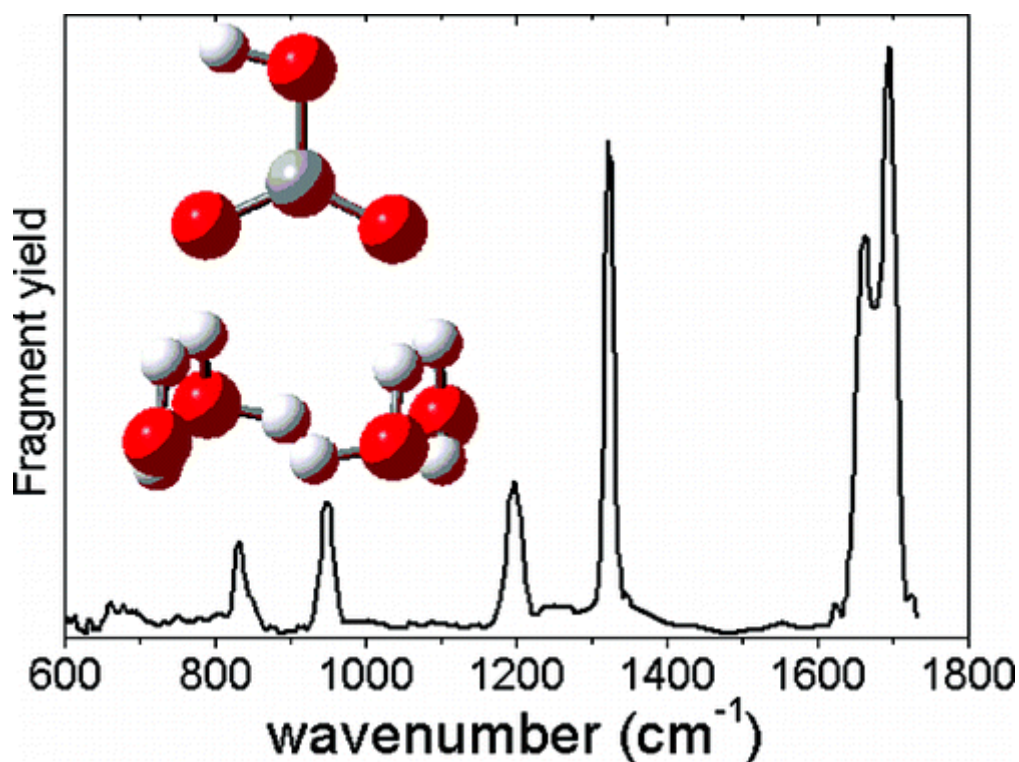
Infrared Spectroscopy of Hydrated Bicarbonate Anion Clusters: $\text{HCO}_3^- (\text{H}_2\text{O})_{1-10}$

Etienne Garand, Torsten Wende, Daniel J. Goebbert, Risshu Bergmann, Gerard Meijer, Daniel M. Neumark and Knut R. Asmis

pp 849-856

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

DOI: 10.1021/ja9093132



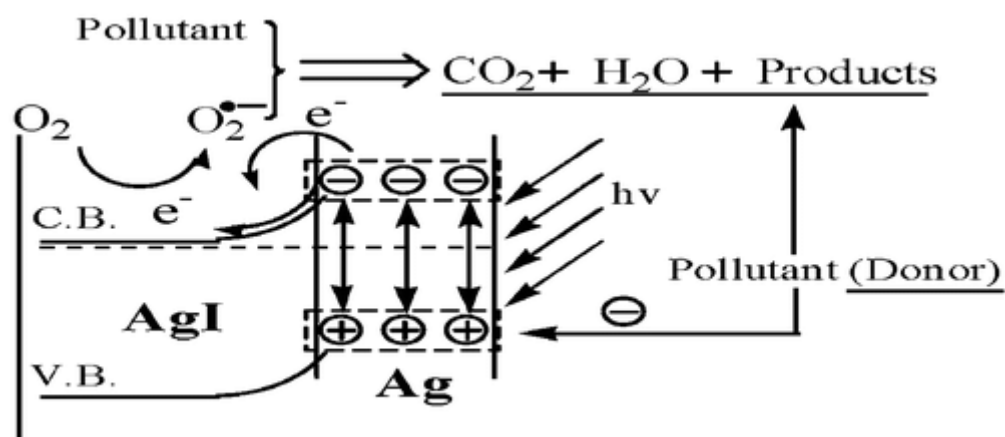
Plasmon-Induced Photodegradation of Toxic Pollutants with Ag-AgI/Al₂O₃ under Visible-Light Irradiation

Chun Hu, Tianwei Peng, Xuexiang Hu, Yulun Nie, Xuefeng Zhou, Jiuhui Qu and Hong He

pp 857-862

Publication Date (Web): December 22, 2009 (Article)

DOI: 10.1021/ja907792d



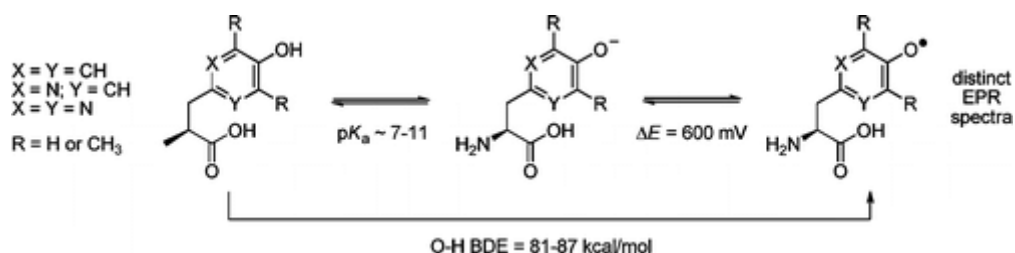
Tyrosine Analogues for Probing Proton-Coupled Electron Transfer Processes in Peptides and Proteins

Susheel J. Nara, Luca Valgimigli, Gian Franco Pedulli and Derek A. Pratt

pp 863-872

Publication Date (Web): December 15, 2009 (Article)

DOI: 10.1021/ja907921w



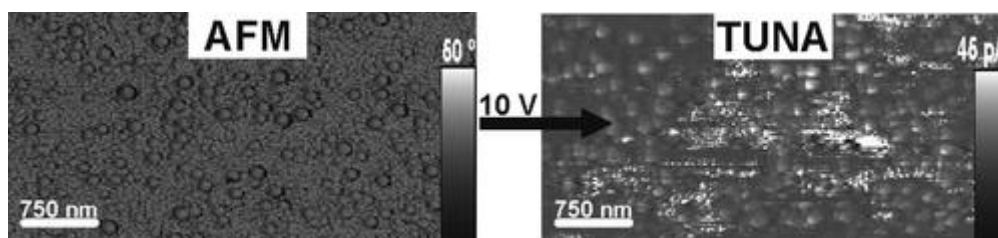
Conductive Behavior of High TiO_2 Nanoparticle Content of Inorganic/Organic Nanostructured Composites

Junkal Gutierrez, Agnieszka Tercjak and Iñaki Mondragon

pp 873-878

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

DOI: 10.1021/ja908359k



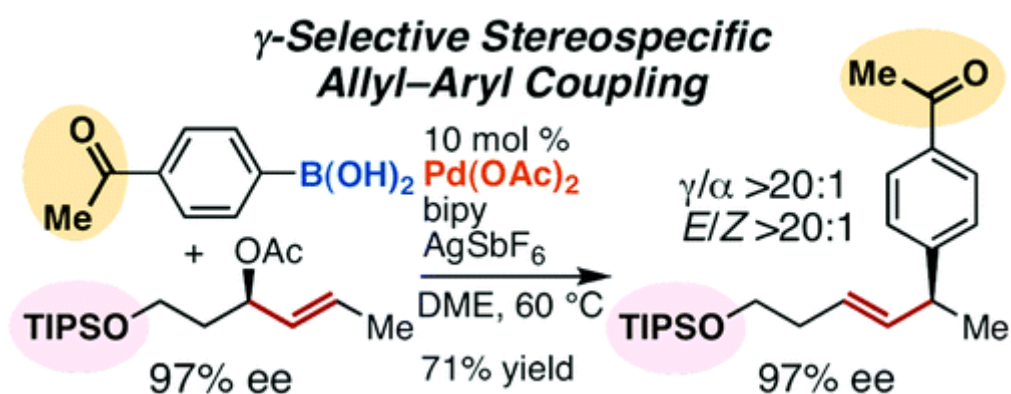
Palladium-Catalyzed γ -Selective and Stereospecific Allyl-Aryl Coupling between Acyclic Allylic Esters and Arylboronic Acids

Hirohisa Ohmiya, Yusuke Makida, Dong Li, Masahito Tanabe and Masaya Sawamura

pp 879-889

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

DOI: 10.1021/ja9092264



Reductive and Transition-Metal-Free: Oxidation of Secondary Alcohols by Sodium Hydride

Xinbo Wang, Bo Zhang and David Zhigang Wang

p 890

Publication Date (Web): December 23, 2009 (Addition/Correction)

DOI: 10.1021/ja910615z

