### **Chemical Reviews**

January 9, 2013 Volume 113, Issue 1 Pages 1-854



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# **Update 1 of:** Calorimetric Investigation of Phase Transitions Occurring in Molecule-Based Magnets

Michio Sorai, Yasuhiro Nakazawa, Motohiro Nakano, and Yuji Miyazaki

pp PR41-PR122

Publication Date (Web): December 27, 2012 (Review)

**DOI:** 10.1021/cr300156s

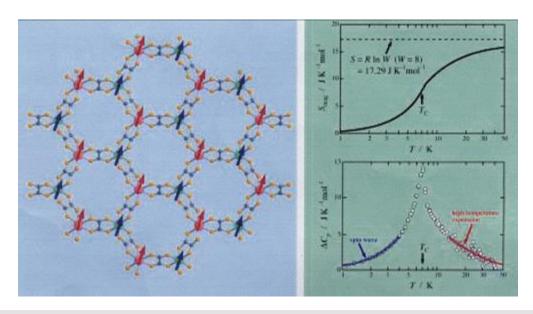


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### REVIEWS

# **Synthesis of Heterocycles via Palladium-Catalyzed Carbonylations**

Xiao-Feng Wu, Helfried Neumann, and Matthias Beller

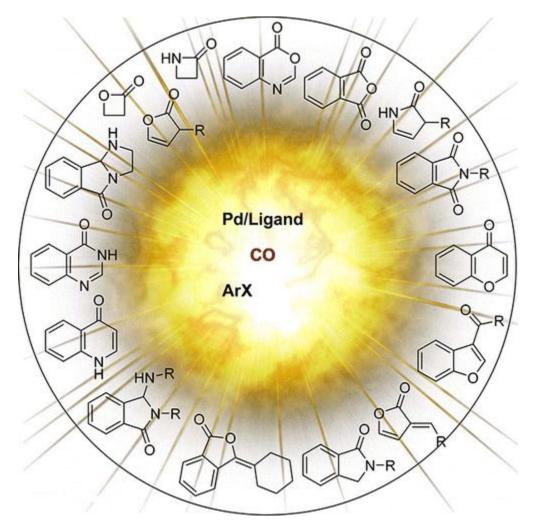
pp 1-35

Publication Date (Web): October 5, 2012 (Review)

**DOI:** 10.1021/cr300100s

Section:

Organometallic and Organometalloidal Compounds



# Born-Oppenheimer and Non-Born-Oppenheimer, Atomic and Molecular Calculations with Explicitly Correlated Gaussians

Sergiy Bubin, Michele Pavanello, Wei-Cheng Tung, Keeper L. Sharkey, and Ludwik Adamowicz pp 36-79

Publication Date (Web): October 1, 2012 (Review)

**DOI:** 10.1021/cr200419d

### Section:

**General Physical Chemistry** 

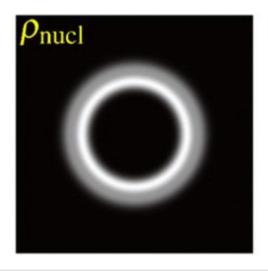




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# On the Versatility of Urethane/Urea Bonds: Reversibility, Blocked Isocyanate, and Non-isocyanate Polyurethane

Etienne Delebecq, Jean-Pierre Pascault, Bernard Boutevin, and François Ganachaud

pp 80-118

Publication Date (Web): October 19, 2012 (Review)

**DOI:** 10.1021/cr300195n

Section:

**Chemistry of Synthetic High Polymers** 

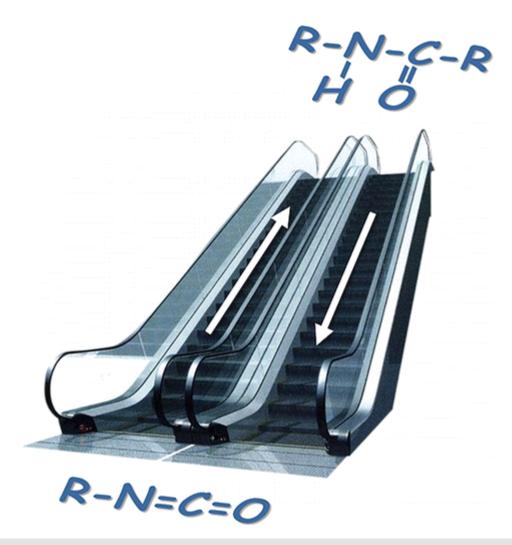


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# Photoremovable Protecting Groups in Chemistry and Biology: Reaction Mechanisms and Efficacy

Petr Klán, Tomáš Šolomek, Christian G. Bochet, Aurélien Blanc, Richard Givens, Marina Rubina, Vladimir Popik, Alexey Kostikov, and Jakob Wirz

pp 119-191

Publication Date (Web): December 21, 2012 (Review)

DOI: 10.1021/cr300177k

Section:

**General Organic Chemistry** 

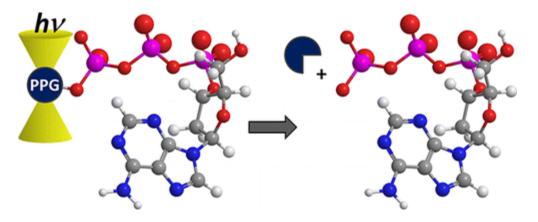


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### **Luminescent Chemodosimeters for Bioimaging**

Yuming Yang, Qiang Zhao, Wei Feng, and Fuyou Li

pp 192-270

Publication Date (Web): June 18, 2012 (Review)

DOI: 10.1021/cr2004103

# Section:

#### **Biochemical Methods**

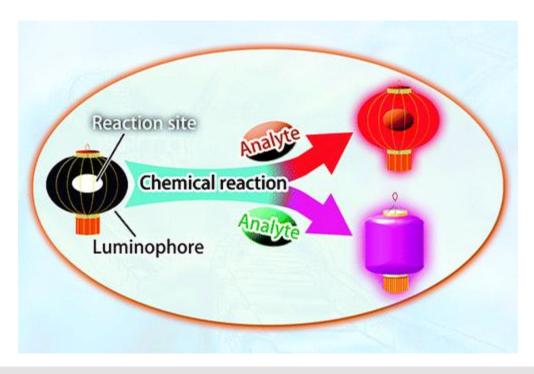


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### **Organoindium Reagents: The Preparation and Application in Organic Synthesis**

Zhi-Liang Shen, Shun-Yi Wang, Yew-Keong Chok, Yun-He Xu, and Teck-Peng Loh

pp 271-401

Publication Date (Web): October 31, 2012 (Review)

**DOI:** 10.1021/cr300051y

# Section:

### Organometallic and Organometalloidal Compounds

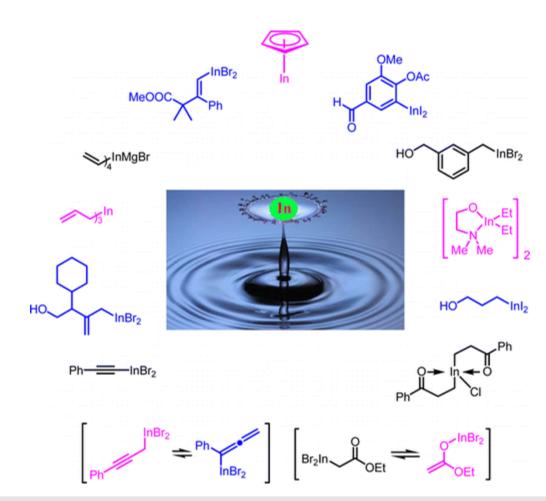


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#### Activation of the Si-B Interelement Bond: Mechanism, Catalysis, and Synthesis

Martin Oestreich, Eduard Hartmann, and Marius Mewald

pp 402-441

Publication Date (Web): November 20, 2012 (Review)

**DOI:** 10.1021/cr3003517

#### Section:

#### **General Organic Chemistry**

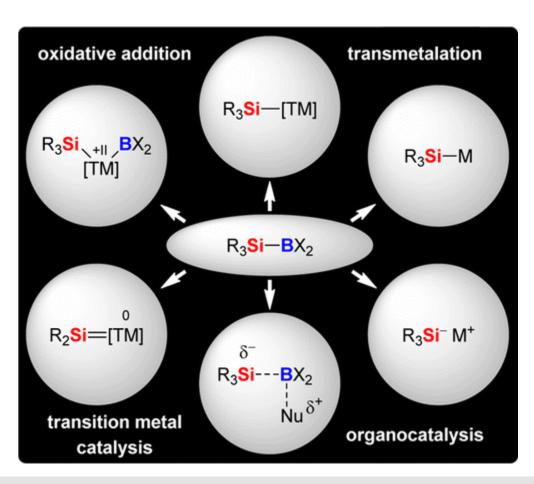


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#### **Stereocontrolled Domino Reactions**

Hélène Pellissier

pp 442-524

Publication Date (Web): November 16, 2012 (Review)

**DOI:** 10.1021/cr300271k

#### Section:

#### **General Organic Chemistry**

# Syntheses and Applications of Functionalized Bicyclo[3.2.1]octanes: Thirteen Years of Progress

Marc Presset, Yoann Coquerel, and Jean Rodriguez

pp 525-595

Publication Date (Web): October 19, 2012 (Review)

**DOI:** 10.1021/cr200364p

### Section:

#### **General Organic Chemistry**

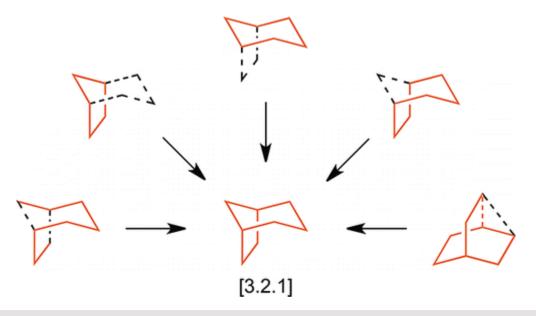


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# Redox Proteomics: Chemical Principles, Methodological Approaches and Biological/Biomedical Promises

Angela Bachi, Isabella Dalle-Donne, and Andrea Scaloni

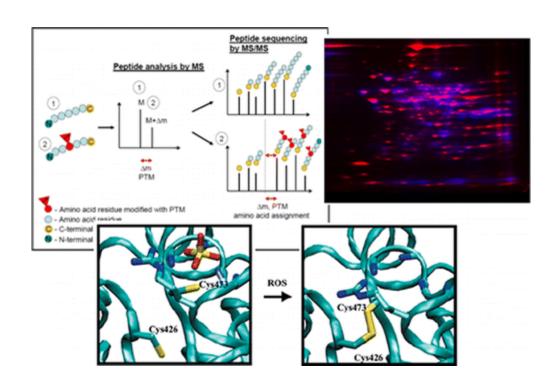
pp 596-698

Publication Date (Web): November 26, 2012 (Review)

**DOI:** 10.1021/cr300073p

#### Section:

#### **Biochemical Methods**



#### **Trifluoromethanesulfonamides and Related Compounds**

Bagrat A. Shainyan and Ljudmila L. Tolstikova

pp 699-733

Publication Date (Web): November 20, 2012 (Review)

DOI: 10.1021/cr300220h

#### Section:

#### **Aliphatic Compounds**

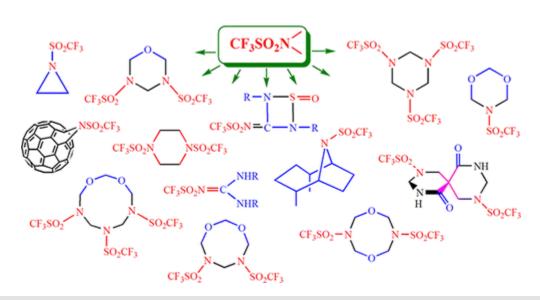


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Metal-Organic Frameworks and Self-Assembled Supramolecular Coordination Complexes: Comparing and Contrasting the Design, Synthesis, and Functionality of Metal-Organic Materials

Timothy R. Cook, Yao-Rong Zheng, and Peter J. Stang

pp 734-777

Publication Date (Web): November 2, 2012 (Review)

DOI: 10.1021/cr3002824

## Section:

#### **Inorganic Chemicals and Reactions**

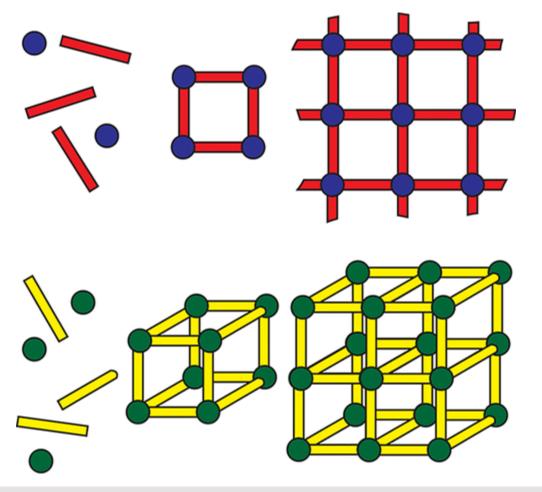


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# **Element Speciation Analysis Using Capillary Electrophoresis: Twenty Years of Development and Applications**

Andrei R. Timerbaev

pp 778-812

Publication Date (Web): October 11, 2012 (Review)

**DOI:** 10.1021/cr300199v

Section:

**Inorganic Analytical Chemistry** 

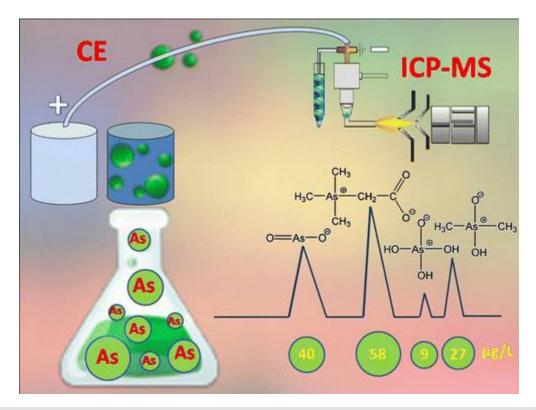


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# Radical Cascades Initiated by Intermolecular Radical Addition to Alkynes and Related Triple Bond Systems

Uta Wille

pp 813-853

Publication Date (Web): November 2, 2012 (Review)

**DOI:** 10.1021/cr100359d

# Section:

### **Physical Organic Chemistry**

