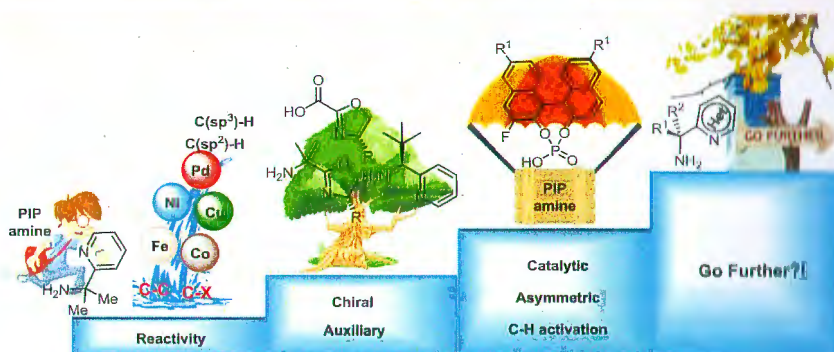


Chemistry Authors Up Close

647

From Reactivity and Regioselectivity to Stereoselectivity: An Odyssey of Designing PIP Amine and Related Directing Groups for C–H Activation



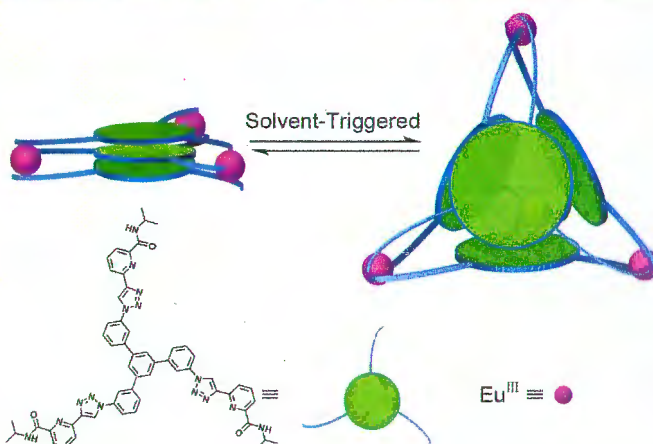
Qi Zhang, Bing-Feng Shi*

The journey of developing PIP amine auxiliary for C–H activation, from controlling the reactivity and regioselectivity to stereoselectivity.

Concise Reports

657

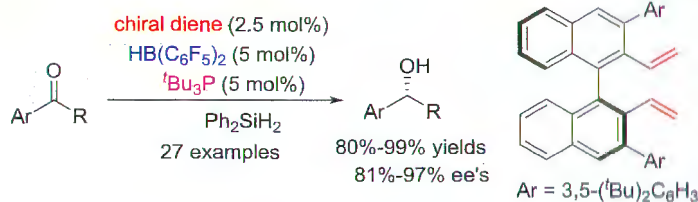
Coordination-Assembled Lanthanide-Organic Ln_3L_3 Sandwiches or Ln_4L_4 Tetrahedron: Structural Transformation and Luminescence Modulation



Shao-Jun Hu, Xiao-Qing Guo, Li-Peng Zhou, Li-Xuan Cai, Qing-Fu Sun*

663

Chiral Frustrated Lewis Pairs Catalyzed Highly Enantioselective Hydrosilylations of Ketones

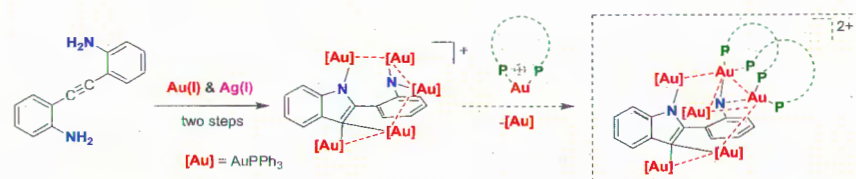


Xiaoqin Liu, Qiaotian Wang, Caifang Han, Xiangqing Feng,* Haifeng Du*

Asymmetric hydrosilylations of simple ketones were realized by using a frustrated Lewis of chiral diene-derived borane and $t\text{Bu}_3\text{P}$ as catalyst. A variety of optically active alcohols were obtained in high yields with up to 97% ee.

667

Pentanuclear Gold(I) Cluster with an Axially Chiral Biaryl Center: Synthesis and Chiral Transformation

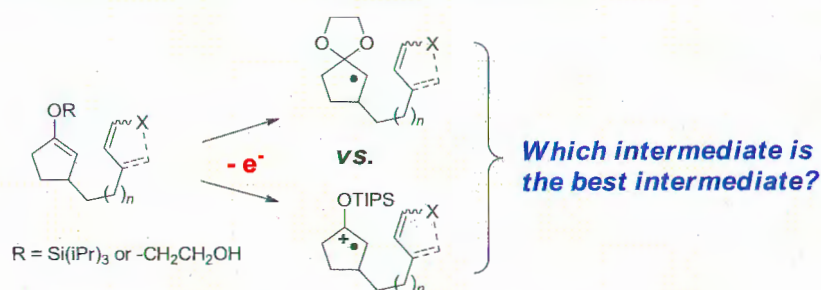


A novel axially pentanuclear chiral gold(I) cluster was constructed and studied in chiral transformation.

Yang Xue, Liang Zhao*

672

Anodic Cyclizations, Seven-Membered Rings, and the Choice of Radical Cation vs. Radical Pathways

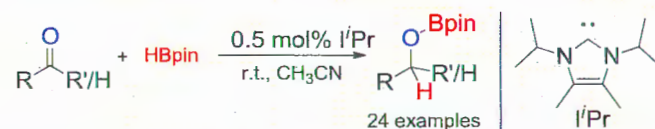


Anodic cyclization reactions can be channeled down one of two main pathways. This manuscript describes when to use each.

Robert J. Perkins, Ruozhu Feng, Qingquan Lu, Kevin D. Moeller*

679

Heterocyclic Carbene-Catalyzed Hydride Transfer in the Hydroboration of Carbonyl Compounds

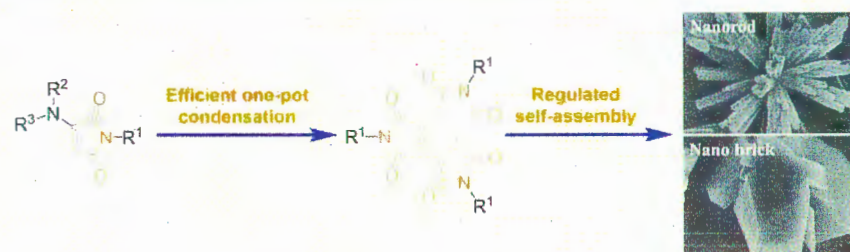


N-Heterocyclic carbene catalytically enabled the highly efficient hydroboration of various ketones and aldehydes in high conversions under mild conditions, and a new mechanism of catalytic hydroboration reaction which involves direct hydride transfer is proposed.

Tianhao Li, Jianying Zhang, Chunming Cui*

684

Benzene Triimides: Facile Synthesis and Self-Assembly Study

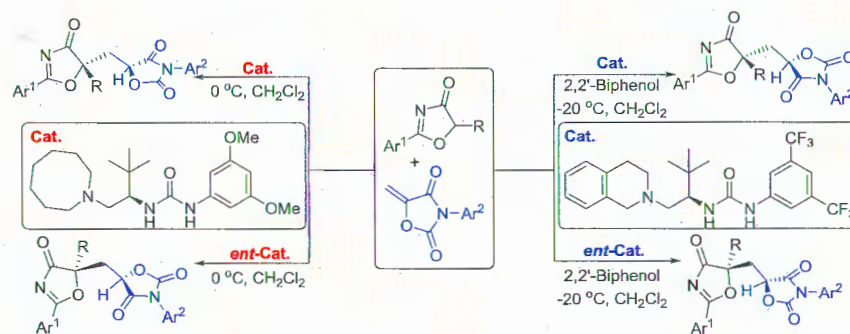


A facile and efficient synthetic strategy for benzene triimides was developed, and the use of BTIs as versatile building blocks for self-assembly was demonstrated.

De-Hui Tuo, Qing He, Qi-Qiang Wang,* Yu-Fei Ao, De-Xian Wang*

689

Enantioselective Conjugate Addition-Protonation of 5*H*-Oxazol-4-ones and 5-Methylene 1,3-Oxazolidine-2,4-diones: 2,2'-Biphenol-Induced Diastereoselectivity Switch

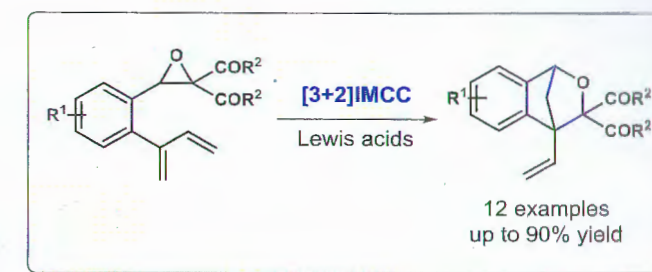


L-Amino acid-derived urea-tertiary amine-catalyzed asymmetric addition-protonation and diastereoselective switch of 5*H*-oxazol-4-ones with 5-methylene 1,3-oxazolidine-2,4-diones have been developed, affording conjugate addition-protonation products bearing 1,3-*O*-heterotertiary-*O*-heteroquarternary nonadjacent stereocenters and the corresponding diastereoisomers.

Bohua Lu, Shuang Xin, Bo Zhu,* Junbiao Chang*

695

Lewis Acid-Catalyzed Intramolecular [3+2] Cross-Cycloaddition of Donor-Acceptor Epoxides with Alkenes for Construction of Oxa-[*n*.2.1] Skeletons



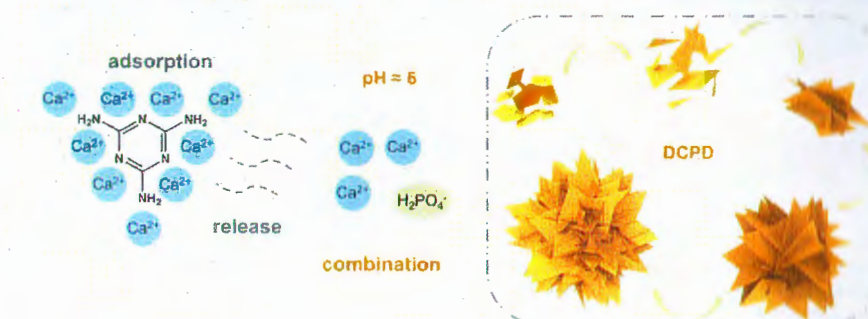
The first LA-catalyzed [3+2]IMCC of GDA-epoxides with carbon-carbon double bonds has been developed. This provides an efficient and general strategy for construction of bridged oxa-[*n*.2.1] skeletons.

Lu Chen, Jun Tian, Yizhou Zhan, Jun Ren, Zhong-Wen Wang*

Comprehensive Reports

700

A New Discovery of Calcium Phosphate Urinary Stones Formation Induced by Melamine: Nanocrystalline Assembly Mechanism

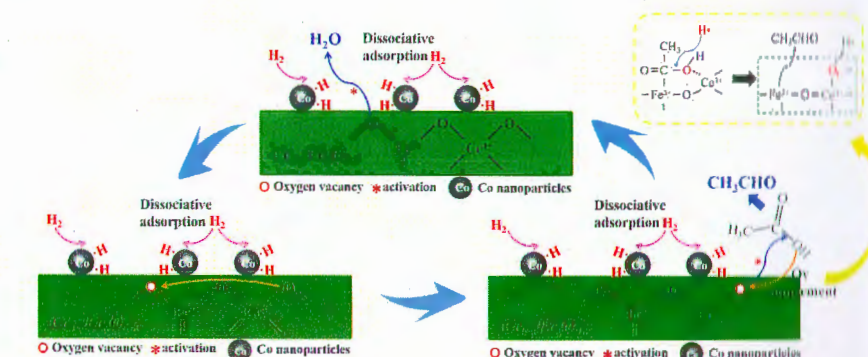


Schematic diagram of the mechanism of Mel-induced DCPD formation and nanocrystalline assembly process.

Wenya-Dong, Ruiming Hu, Qingsheng Wu*

709

Catalytic Hydrogenation of Acetic Acid to Acetaldehyde: Synergistic Effect of Bifunctional Co/Ce-Fe Oxide Solid Solution Catalysts

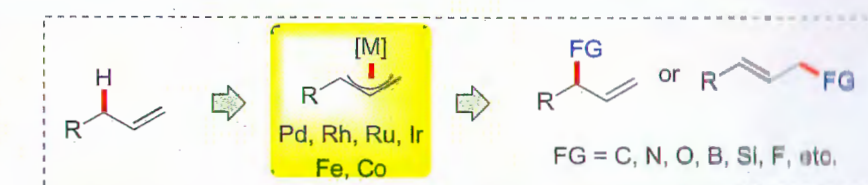


Naixu Li,* Qi Zhang, Rehana Bibi, Qianhao Shen, Richard Ngulube, Yunyi Liu, Jiancheng Zhou*

Critical Review

720

Transition Metal-Catalyzed Allylic C(sp³)-H Functionalization via η³-Allylmetal Intermediate



As an efficient and facile access to linear or branched allylic compounds, transition metal-catalyzed allylic C(sp³)-H functionalization reaction via η³-allylmetal intermediates has gained increasing interest in recent years. Pd, Rh, Ru, Ir, Fe and Co-catalyzed systems have all been successfully achieved, affording various allylic compounds bearing a diverse set of functionalities. Herein, we provide a comprehensive review of this burgeoning field according to different transition metal catalysts.

Ronghua Wang, Yuxin Luan,* Mengchun Ye*

Inside Story

744
An Electrochemical Synthesis Approach for
Tetrasubstituted Olefins



$\text{X} = \text{S}, \text{NR}^1, \text{CR}^1\text{R}^2, \text{POR}^1, \text{O}, \text{or SiR}^1\text{R}^2, \text{etc.}$

Fangling Lu, Yong Yuan*

We herein developed a new electrochemical synthesis approach for tetrasubstituted olefins.

Corrigendum

746
Direct C—H Bond Activation of Benzoxazole
and Benzothiazole with Aryl Bromides Cata-
lyzed by Palladium(II)-N-heterocyclic Carbene
Complexes

Murat Kaloğlu, Nazan Kaloğlu, İsmail Özdemir*

Chin. J. Chem. **2018**, *36*, 837—844.

DOI: 10.1002/cjoc.201800166

The second author “Nazan Kaloğlu” should be corrected as “Nazan Kaloğlu”.

747
Crystal Structure of Cytidine Deaminase Human
APOBEC3F Chimeric Catalytic Domain in Com-
plex with DNA

Chao Cheng, Tianlong Zhang, Chunxi Wang,
Wenxian Lan, Jianping Ding, Chunyang Cao*

Chin. J. Chem. **2018**, *36*, 1241—1248.

DOI: 10.1002/cjoc.201800508

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