

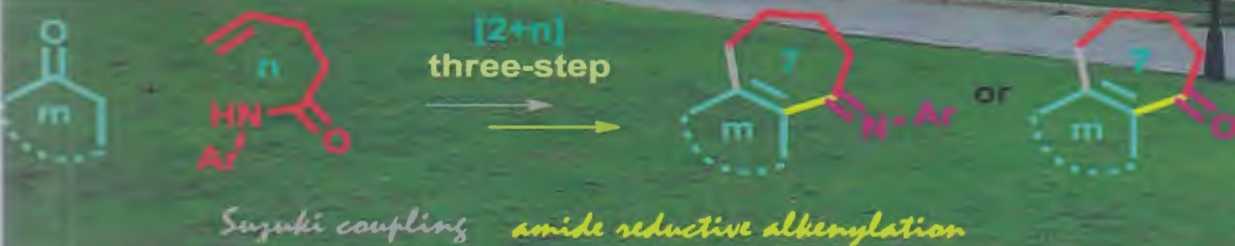
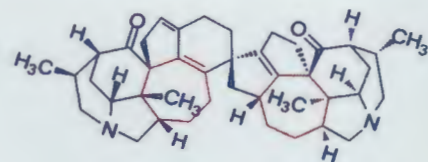
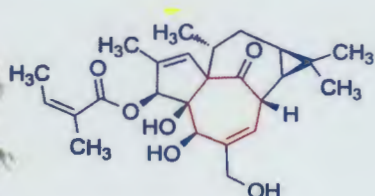
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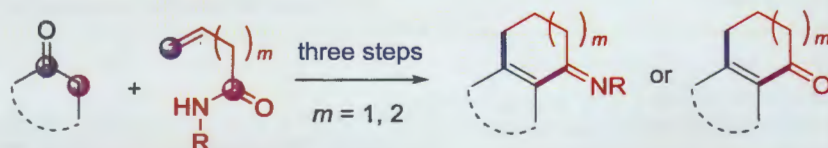
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Breaking Reports

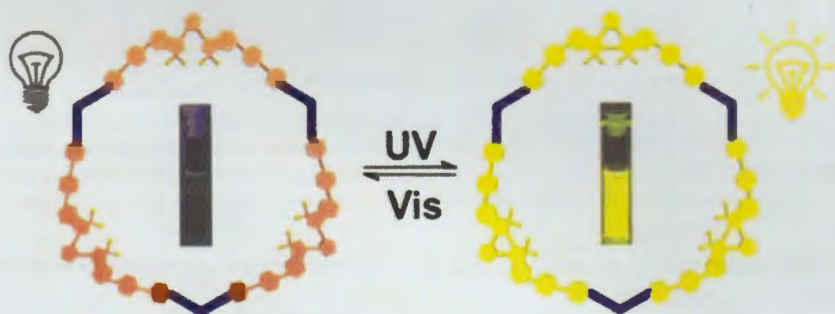
315

A Stepwise Annulation for the Transformation of Cyclic Ketones to Fused 6 and 7-Membered Cyclic Enamines and Enones

Dong-Ping Wu, Qian He, Dong-Huang Chen,
Jian-Liang Ye, Pei-Qiang Huang*An expedient protocol for the efficient assembly of cyclic ketones and ω -unsaturated amides in a "2+n" manner to produce fused enamines and enones has been developed.

323

Construction of Highly Emissive Pt(II) Metallacycles upon Irradiation

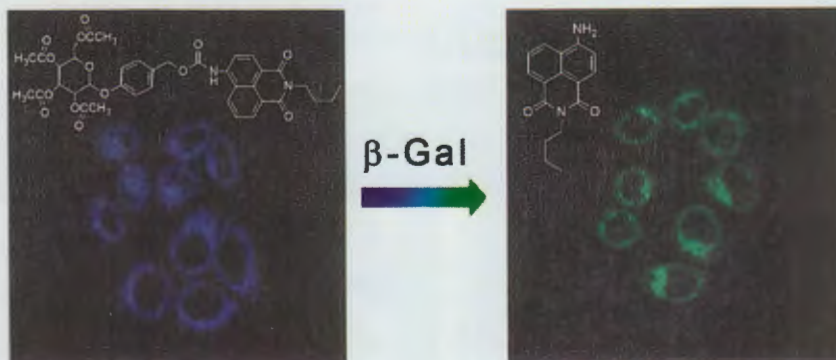


Yi Qin, Ying Zhang, Guangqiang Yin, Yuxuan Wang, Changwei Zhang, Lijun Chen, Hongwei Tan, Xiaopeng Li, Lin Xu,* Haibo Yang*

Upon UV irradiation, the metallacycles can transform from the open-ring isomers to their closed-ring isomers. Moreover, the closed-ring isomers featured a relatively high fluorescence quantum yield. This property of "turn-on" fluorescence switching will be very helpful in construction of new supramolecular fluorescent materials for sensing and bioimaging.

Concise Reports

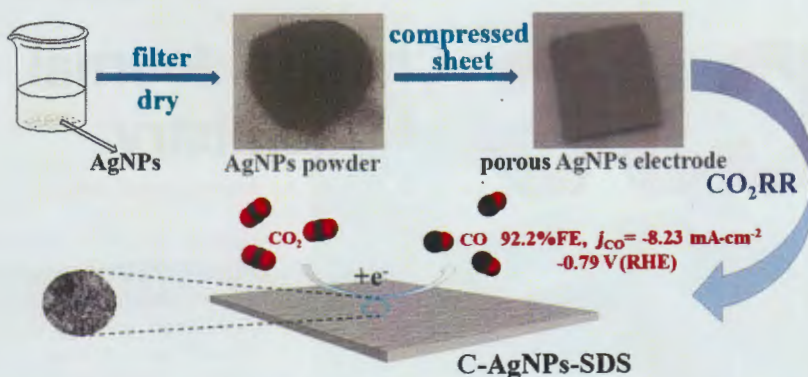
330

A Novel Ratiometric Fluorescent Probe for Highly Sensitive and Selective Detection of β -Galactosidase in Living Cells

Min Chen, Lixuan Mu,* Xingxing Cao, Guangwei She, Wensheng Shi*

A novel ratiometric fluorescent probe for β -galactosidase detection in living cells was designed and synthesized.

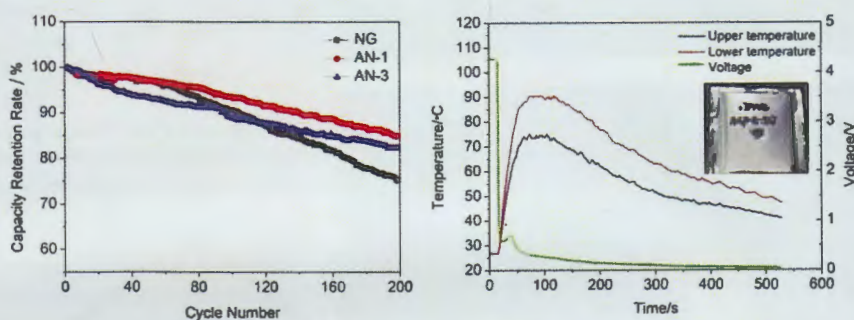
337
SDS-modified Nanoporous Silver as an Efficient Electrocatalyst for Selectively Converting CO₂ to CO in Aqueous Solution



Lei Shi, Yuning Zhang, Xiaofei Han, Dongfang Niu,* Jinlong Sun, Jenny Y. Yang, Shuozen Hu, Xinsheng Zhang*

Nanoporous Ag electrodes were prepared through mechanically compressing AgNPs which were synthesized by one-step reduction in the water phase without and with the surfactant sodium dodecyl sulfate (SDS). The SDS-modified AgNPs electrode (C-AgNPs-SDS) exhibits the best catalytic performance for selectively converting CO₂ to CO.

342
Synthesis of Alumina-Coated Natural Graphite for Highly Cycling Stability and Safety of Li-Ion Batteries

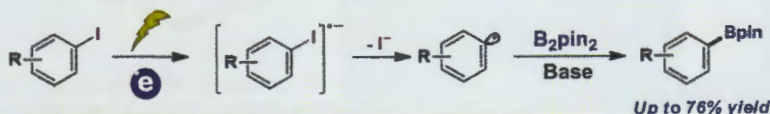


Tao Xu, Chengkun Zhou, Haihui Zhou,* Zekun Wang, Jianguo Ren

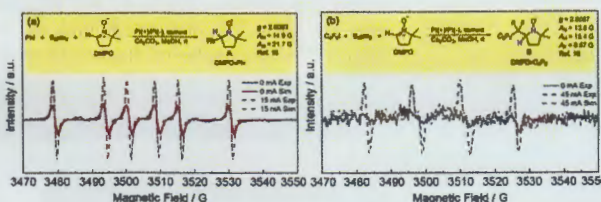
The aluminum plastic film soft-packed battery prepared using Al₂O₃-coated NG as anode material exhibits excellent cycle performance and safety performance.

347
Electrochemical Radical Borylation of Aryl Iodides

An electrochemical strategy for the radical borylation of aryl iodides



Up to 76% yield



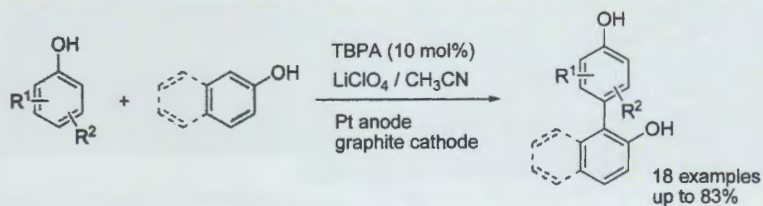
- Transition-metal-free
- Mild conditions
- Sustainable
- EPR mechanistic studies

Junting Hong, Qianyi Liu, Feng Li, Guangcan Bai, Guoquan Liu, Man Li, Onkar S. Nayal, Xuefeng Fu, Fanyang Mo*

The first electrochemical strategy for the radical borylation of aryl iodides is reported in this paper. The significant promoting effect of current in the aryl radical generation is revealed by EPR studies.

Comprehensive Reports

352
Electrocatalytic Synthesis of Non-Symmetric Biphenols Mediated by Tri(*p*-bromophenyl)-amine: Selective Oxidative Cross-Coupling of Different Phenols and Naphthols



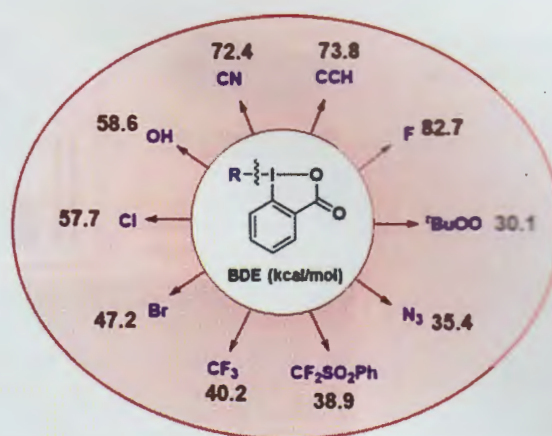
18 examples up to 83%

Qing-Qing Wang, Yang-Ye Jiang, Cheng-Chu Zeng,* Bao-Guo Sun*

Electrochemical cross-coupling of unprotected phenol with naphthols and phenols using tri(*p*-bromophenyl)amine as mediator has been reported.

359

Computational I(III)—X BDEs for Benziodoxol(on)e-based Hypervalent Iodine Reagents: Implications for Their Functional Group Transfer Abilities

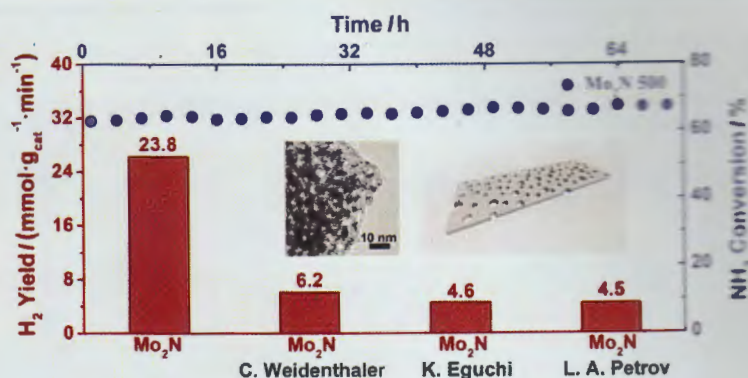


The first comprehensive I(III)—X BDE scale for benziodoxol(on)e-based hypervalent iodine reagents has been developed through DFT calculations.

Jin-Dong Yang,* Man Li, Xiao-Song Xue*

364

Facile Synthesis of Stable Mo_2N Nanobelts with High Catalytic Activity for Ammonia Decomposition

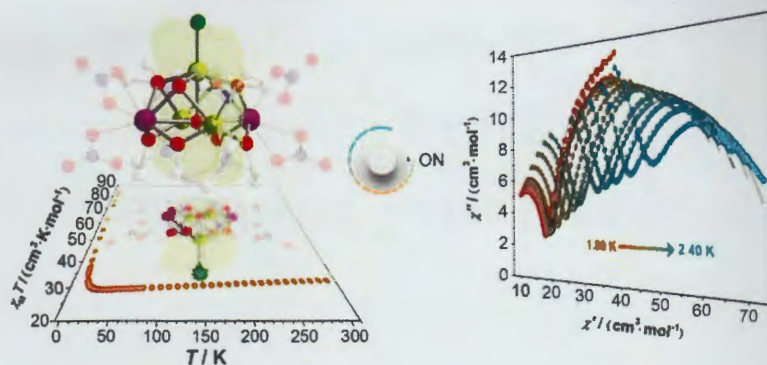


Mo_2N nanobelts were synthesized by facile method, which exhibited very high activity and stability for ammonia decomposition reaction.

Jun Xu, Han Yan, Zhao Jin,* Chun-Jiang Jia

373

A $\{\text{Tb}_2\text{Fe}_3\}$ Pyramid Single-Molecule Magnet with Ferromagnetic Tb-Fe Interaction



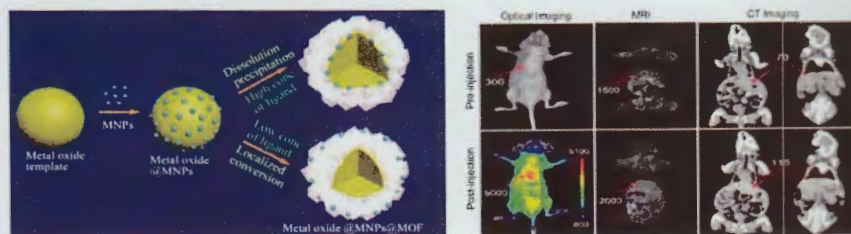
Han Li, Xixi Meng, Mengmeng Wang, Yu-Xia Wang, Wei Shi,* Peng Cheng*

The influence of ferromagnetic Tb-Fe interaction to the single-molecule magnet behavior in a $\{\text{Tb}_2\text{Fe}_3\}$ Pyramid was studied.

Recent Advances

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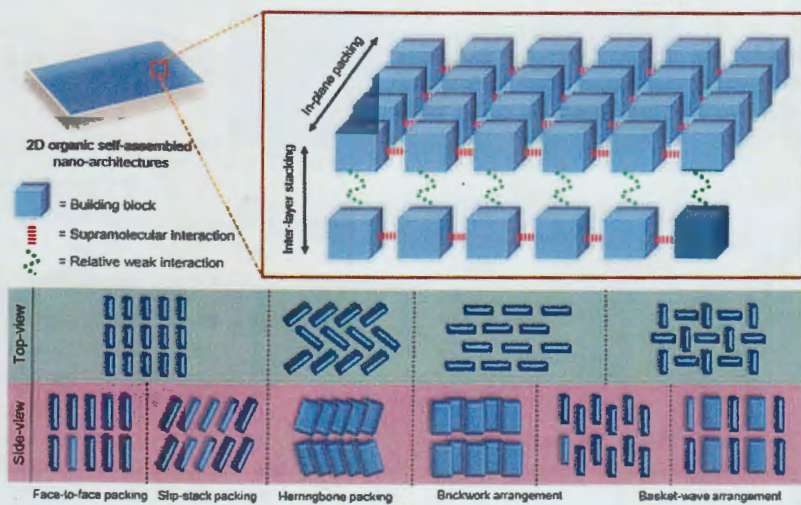
Current Trend in Synthesis, Post-Synthetic Modifications and Biological Applications of Nanometal-Organic Frameworks (NMOFs)



Ebenezer Baa,* Gary M. Watkins, Rui. W. Krause, Derek. N. Tantohb

Various synthetic approaches have ensued in view of obtaining materials with optimized properties. This has resulted to an extension in the scope of applications of these materials spanning from energy, gas sorption, catalysis to biological applications over the years.

405
 An Overview of Molecular Packing Mode in Two-Dimensional Organic Nanomaterials via Supramolecular Assembly



Ling-Zhi Jin, Sha-Sha Wang,* Ling-Hai Xie,* Wei Huang*

This review presents a collection of molecular packing modes in 2D organic nanomaterials via supramolecular assembly of different kinds of organic compounds.