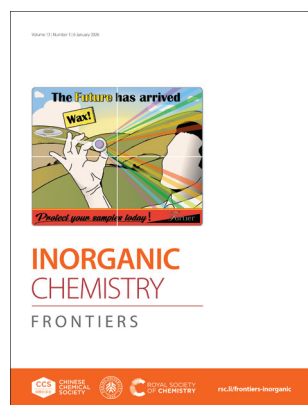


IN THIS ISSUE

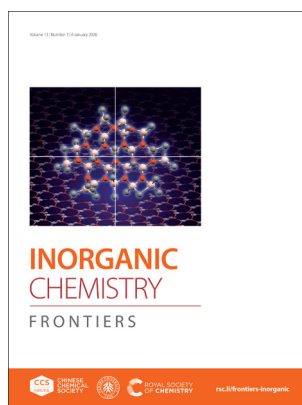
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Cover

See Skye Fortier *et al.*, pp. 12–19.

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See Mikko Linnolahti *et al.*, pp. 20–31.

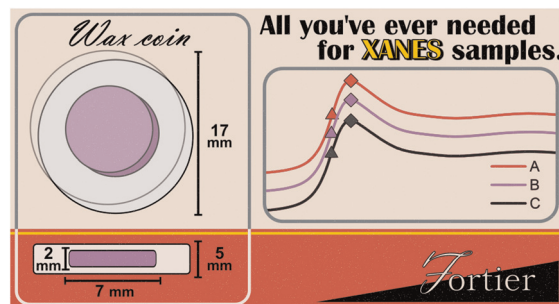
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RESEARCH ARTICLES

12

A simple and practical wax-encapsulation method for air-sensitive XAS samples

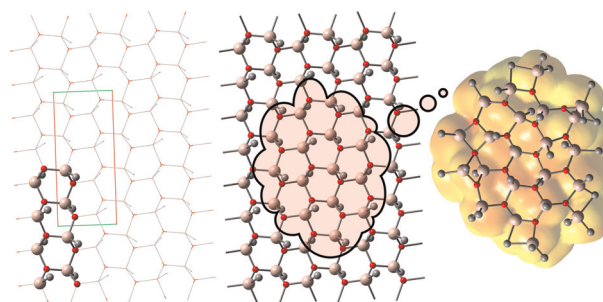
Oscar Oehlsen, Frank MacGregor, Matthew J. F. Jones, Alejandra Gómez-Torres, Liane M. Moreau, Joshua Wright, Lu Ma and Skye Fortier*



20

Structure of the most stable methylaluminoxane anion $[(\text{MeAlO})_{16}(\text{Me}_3\text{Al})_6\text{Me}]^-$ and its precursor

Munmun Bharti, Aleksi Vähäkangas, Perttu Hanhisalo, Scott Collins and Mikko Linnolahti*



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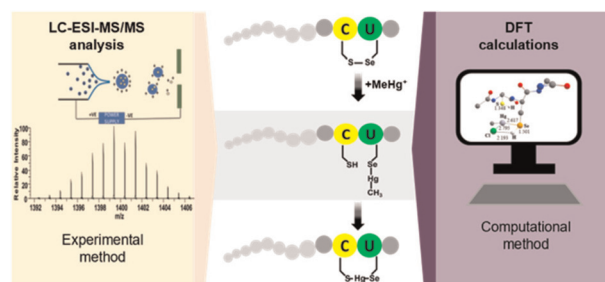
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RESEARCH ARTICLES

32

Molecular insights into the role of selenoenzymes in the toxicity of methylmercury

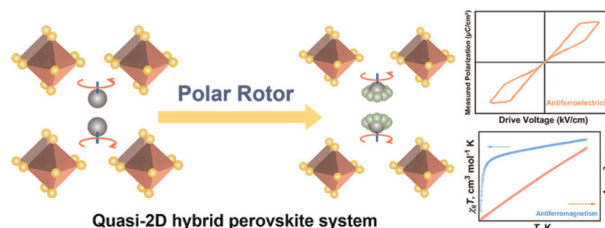
Mikel Bernabeu de Maria, Tshering Zangmo, Andrzej Gawor, Luigi Messori, Ewa Bulska, Joanna Szpunar, Ryszard Lobinski, Karinne Miqueu* and Luisa Ronga*



45

A polar rotor for designing antiferroelectricity–antiferromagnetism in a quasi-2D organic–inorganic hybrid perovskite

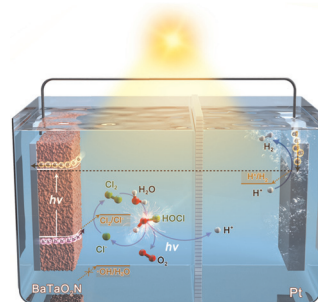
Zi-Ao Qiu, Hua-Kai Li, Ze-Jiang Xu, Liang-Han Shen, Xiang Zhang, Chao Shi, Na Wang, Xiao-Bin Fu, Nian-Tao Yao, Heng-Yun Ye and Le-Ping Miao*



51

Sustainable solar seawater splitting over a BaTaO₂N photoanode enabled by chloride recirculation

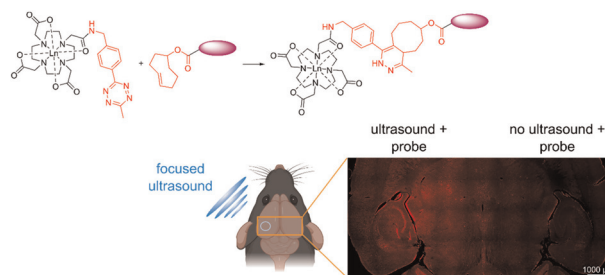
Jeongsuk Seo,* Seongeon Mun and Van-Huy Trinh



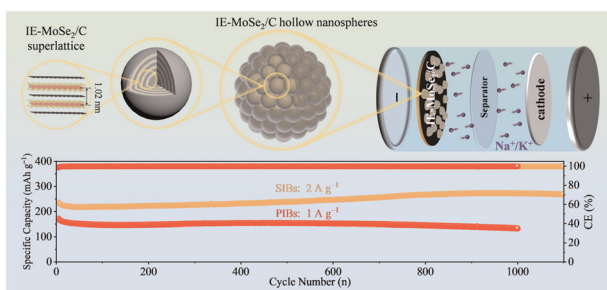
63

Tetrazine-*trans*-cyclooctene ligated lanthanide conjugates for biomedical imaging

Hongxuan Chen, William Lim Kee Chang, Grace T. McMullon, Yichao Yu, Benjamin P. Woolley, Gráinne Geoghegan, Ceren Yalcin, Sophie V. Morse, Mark F. Lythgoe, James J. Choi and Nicholas J. Long*



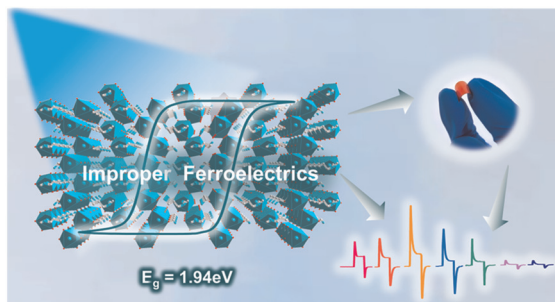
74



Interlayer-expanded MoSe₂/C superlattice hollow nanospheres as stable anodes for sodium/potassium ion batteries

Qiannian Li, Yanting Xia, Jinmao Fang, Junwei Chen, Yan Zhang,* Wenpei Kang* and Jun Xu*

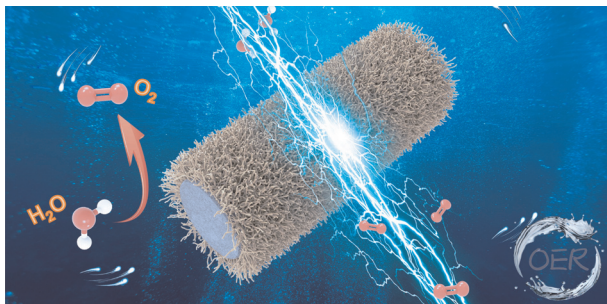
86



Improper narrow bandgap molecular ferroelectrics enable light-excited pyroelectricity for broadband self-powered photoactivities

Jialu Chen, Liwei Tang, Chen Gong, Linjie Wei, Jingtian Zhang, Xingguang Chen, Xiaoyu Zhang, Yi Liu,* Junhua Luo and Zhihua Sun*

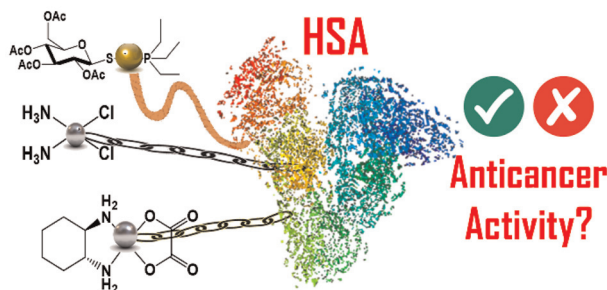
95



Dynamic reconstruction of a pearl-thread-like CoS₂-Cu_xS interface for an enhanced oxygen evolution reaction

Heyang Liu, Fengli Wei, Linlin Huang, Chenggong Niu, Zuyang Luo, Tayirjan Taylor Isimjan* and Xiulin Yang*

106



The impact of albumin conjugation on the cytotoxic properties of cisplatin, oxaliplatin and auranofin in cancer cells

Valentina Vitali, Lorenzo Chiaverini, Mirko Severi, Maria Letizia Trincavelli, Luigi Messori,* Lara Massai,* Tiziano Marzo* and Chiara Giacomelli

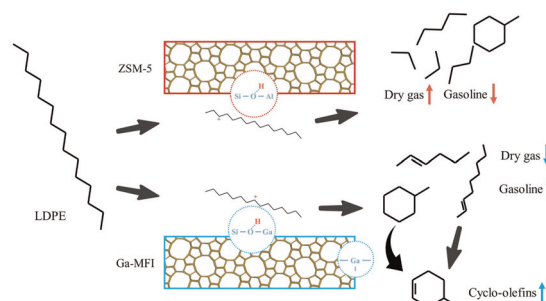


RESEARCH ARTICLES

112

Superior performance of Ga-MFI zeolite with a hierarchical structure and moderate acidity in the catalytic cracking of low-density polyethylene

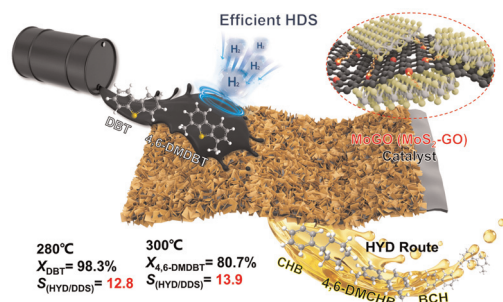
Hao Wu, Yi Wang, Pingping Wu, Hongchao Fan, Yuanhao Liu, Shuyan Liu, Peng Bai,* Zifeng Yan and Svetlana Mintova*



127

In situ synthesis of the MoS₂-GO catalyst and unveiling its potential for deep hydrogenation desulfurization

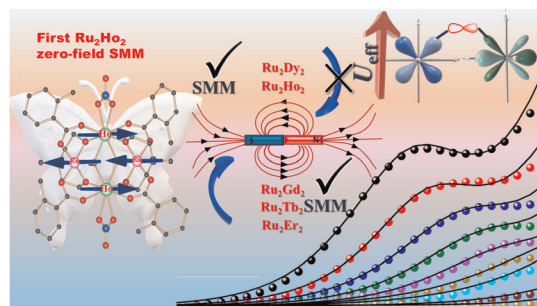
Xianglong Meng, Hailing Guo,* Kun Sun, Xuyu Zhao, Girolamo Giordano, Yongming Chai and Chenguang Liu



138

Quenching quantum tunnelling of the magnetization utilizing 4d-4f exchange interactions in butterfly-shaped {Ru₂^{III}Ln₂^{III}} (Ln = Gd, Tb, Dy, Ho, and Er) single-molecule magnets

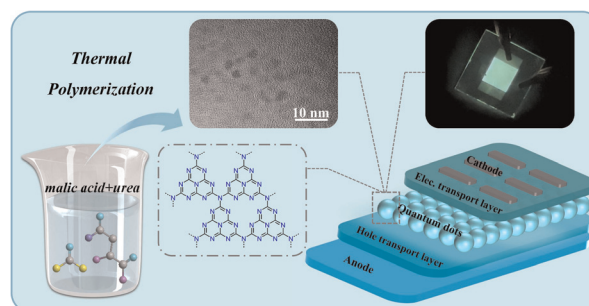
Imon J. Dutta, Vignesh Kasi, Deepanshu Chauhan, Keith S. Murray, Stuart K. Langley, Maheswaran Shanmugam* and Kuduva R. Vignesh*



155

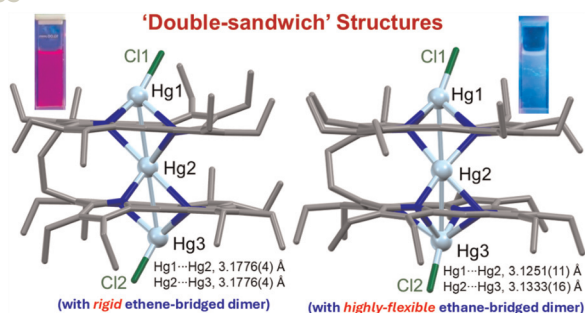
Bottom-up synthesized carbon nitride quantum dot-based light-emitting diodes

Xinyi Wang, Bingjie Li, Yingqin Xu, Mingming Zhang, Fangxu Dai, Qiang Cao, Lei Wang and Jun Xing*



RESEARCH ARTICLES

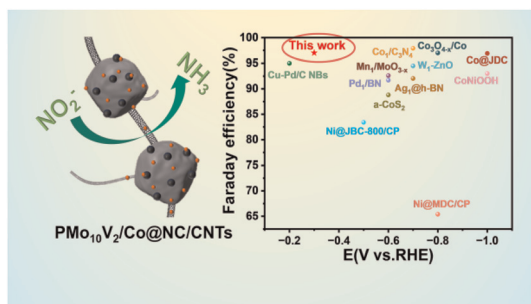
163



Stabilization of the double sandwich structure of mercury(II) porphyrins: Hg...Hg...Hg interactions and structure–function correlation

Anindya Sarkar, Dolly Chandel, Mirza Nasib Begg, Anjani Kumar Pandey, Nityananda Dutta, Chandrani Pal, Mohammad Usman, Anindya Datta and Sankar Prasad Rath*

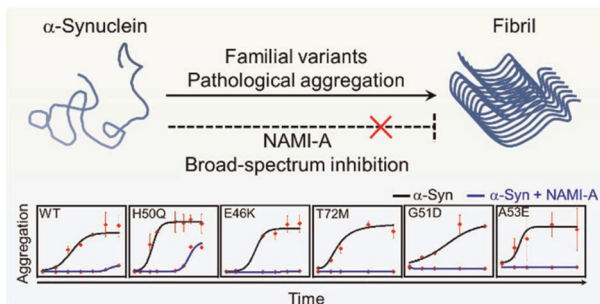
175



Cobalt nanoparticles coupled with polyoxometalate nanoclusters to boost electrocatalytic conversion of nitrite to ammonia at low potentials

Qiu-Feng Wang, Meng-Qi Jia, Xing-Yu Yin, Sha Zheng, Wei-Xin Yang, Cheng Ma, Lu-Bin Ni, Guo-Wang Diao and Lu-Nan Zhang*

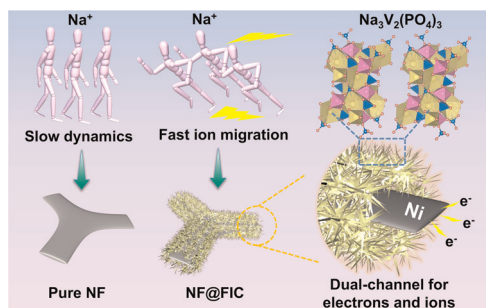
188



Broad-spectrum suppression and disassembly of α -synuclein variant aggregates mediated by a ruthenium metallodrug *via* conserved metal coordination

Shenghu Wang, Weiwei Wu, Lili Sun, Siming Yuan, Wanqian Wei, Kaiming Cao* and Yangzhong Liu*

195



Superionic-conductor-modified nickel foam enables region-induced deposition for stable sodium anodes

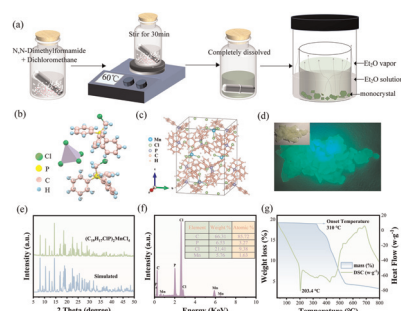
Yi Ding, Min Guo,* Song Lu, Tiancun Liu and Zhixin Yu*



208

High-performance organic–inorganic hybrid manganese halide scintillator array for superior-resolution X-ray imaging

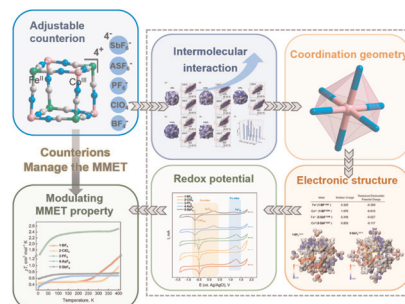
Mengyue Wu, Jun'an Lai,* Yongqiang Zhou, Faguang Kuang, Kang An, Sijun Cao, Yayun Pu,* Heng Luo, Peng He, Baofei Sun and Xiaosheng Tang*



220

Counterions manage metal-to-metal electron transfer: the role of intermolecular interactions in MMET-active $[\text{Fe}_4\text{Co}_4]$ cubes

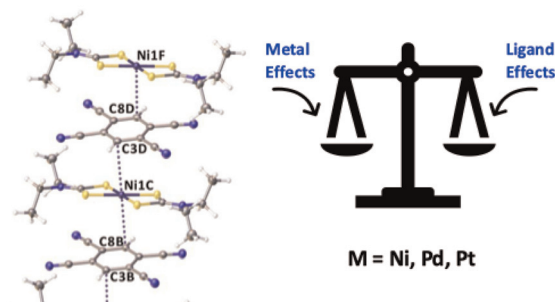
Ren-He Zhou, Hui-Ying Sun, Du-Yong Chen, Yu-Jing Gao, Cheng Yi, Meng-Jia Shang, Liang Zhao, Yin-Shan Meng* and Tao Liu*



232

Structural resilience in organic–inorganic stacked assemblies: sulfur-mediated self-compensating interaction and metal identity masking in group 10 dithiocarbamate cocrystals with tetracyanobenzene

Lev E. Zelenkov, Sergey V. Baykov, Maxim L. Kuznetsov, Evgeny Kh. Sadykov, Pavel V. Nikul'shin, Eugene V. Ignatov, Nadezhda A. Bokach* and Vadim Yu. Kukushkin*

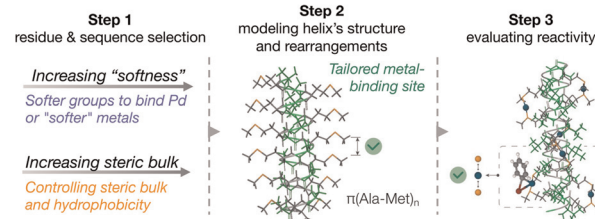


246

Computational design of helical artificial metallopeptides: from sequence to activity in Pd-peptide systems

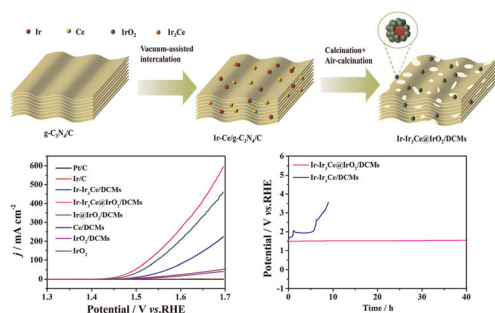
Anton V. Domnin, Yaroslav V. Solovov, Denis S. Syrko, Andrey V. Golovin, Robert A. Evarestov and Mikhail V. Polynski*

Bottom-up design strategy



RESEARCH ARTICLES

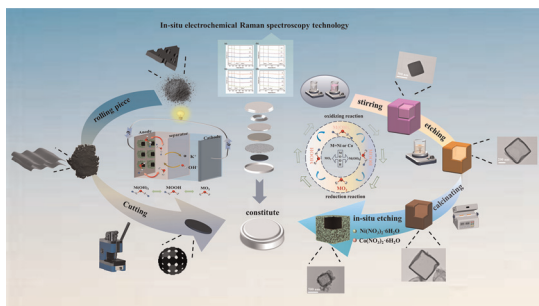
260



Janus structure Ir-Ir₃Ce@IrO₂ nanocrystals as excellent bifunctionality catalysts for acidic overall water splitting

Yue Feng, Ying Chang,* Shaohong Guo, Yaqiong Su,* Jingchun Jia* and Meilin Jia

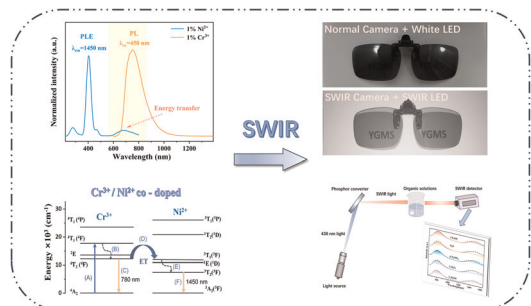
273



Engineering multiscale hollow core-shell nanostructures via *in situ* surface functionalization for advanced electrochemical energy storage applications

Wang Yan, Wang Hanbo, Xu Yahui, Zhu Dongyu, Wang Ziming, Li Yiduo, Tian Yumei* and Lu Haiyan*

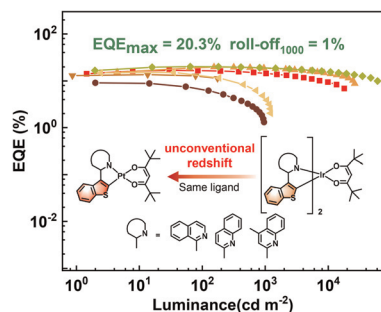
286



Ultra-broadband shortwave infrared emission under blue light excitation of a Cr³⁺/Ni²⁺ co-doped Y₃Al₃MgSiO₁₂ garnet phosphor through effective energy transfer and its applications

Qian Zhang, Xinyu Li, Ziyang Wang, Qi Zhu, Xuejiao Wang* and Jiguang Li*

302



Anomalous redshifted emission in Pt(II) vs. Ir(III) complexes with identical ligands and the application of these complexes in high-efficiency OLEDs

Wenping Liu, Shipan Xu, Xuyang Du, An Yan, Shengli Li, Xiaolong Yang,* Jun Xi, Yousong Ding, Guijiang Zhou* and Yuanhui Sun*

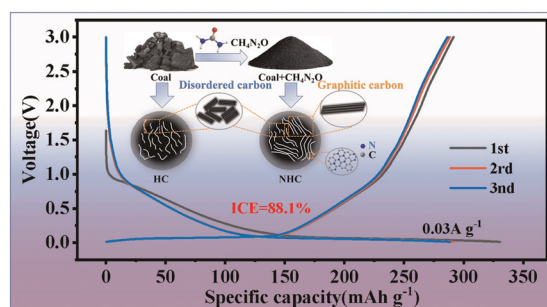


RESEARCH ARTICLES

310

Nitrogen-doped and partially graphitized coal-based hard carbon materials for high-performance sodium-ion storage in SIBs

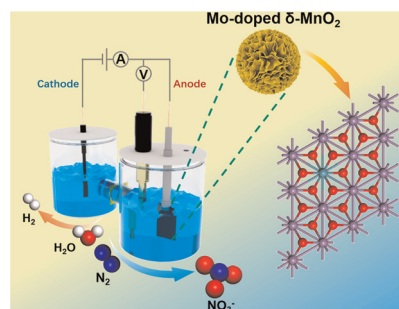
Dong Wang, Lirong Feng, Dejie Mo, Yutong Zhang, Xinru Zheng, Gang Xie and Xiaohui Guo*



319

Mo-doped δ -MnO₂ nanoflowers enable efficient nitrogen oxidation to nitrate under mild conditions

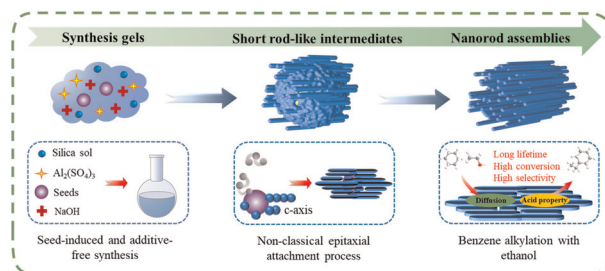
Mingrui Wu, Quan Li, Zhengting Xiao, Dongcai Shen, Minghui Hao and Wentai Wang*



330

Scalable and mesopore-free synthesis of a highly oriented nanorod-assembled ZSM-5 zeolite for efficient benzene alkylation with ethanol

Peng Zhu, Cun Liu,* Yue Han, Zhanming Gao, Xiongfeng Zhang,* Guodong Liu* and Guohui Yang*



341

Spin state modulation and chiral hierarchical assembly via amine-driven single-crystal-to-single-crystal transformation

Xu Ying, Zhenhua Zhu,* Peng Xu, Quan Zhou and Jinkui Tang*

