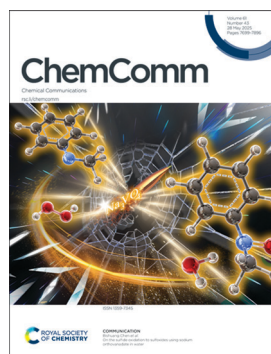


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Cover

See Bishuang Chen *et al.*, pp. 7795-7798.

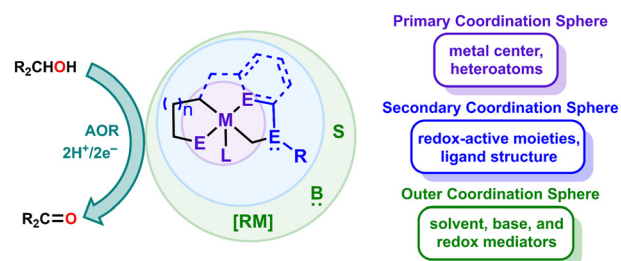
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HIGHLIGHT

7710

Molecular catalyst and co-catalyst systems based on transition metal complexes for the electrochemical oxidation of alcohols

Mollie C. Morrow and Charles W. Machan*

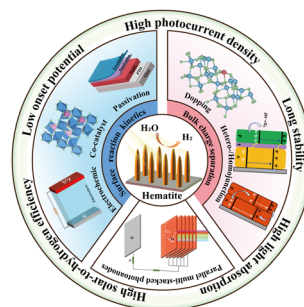


FEATURE ARTICLES

7724

Hematite photoanode for efficient photoelectrochemical water splitting: recent advances and outlook

Ke Liang, Jing Yang, Maoxuan Ye, Yuanming Zhang, Youn Jeong Jang and Hemin Zhang*



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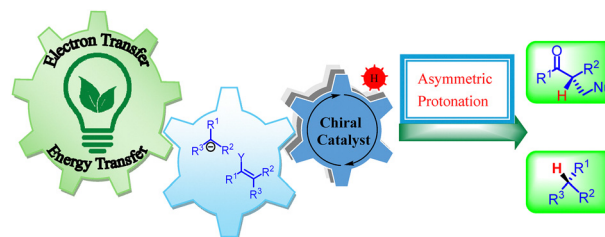
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FEATURE ARTICLES

7737

Visible-light-driven enantioselective protonation: a new Frontier in asymmetric catalysis

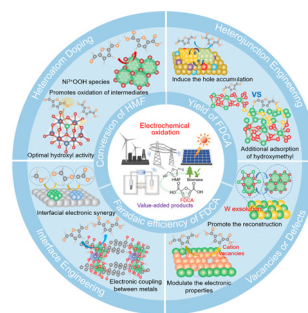
Chenhao Zhang and Zhiyong Jiang*



7751

Selective electrooxidation of 5-hydroxymethylfurfural to value-added 2,5-furanodiformic acid: mechanism, electrolyzer system, and electrocatalyst regulation

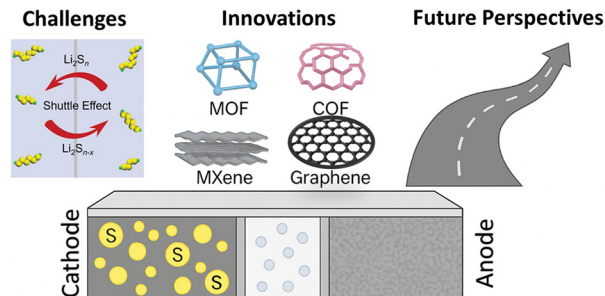
Yang Yu, Junqing Ma, LiLi Zhang, Tongming Sun, Minmin Wang, Jinli Zhu and Jiacheng Wang*



7770

New materials for lithium–sulfur batteries: challenges and future directions

Montree Sawangphruk

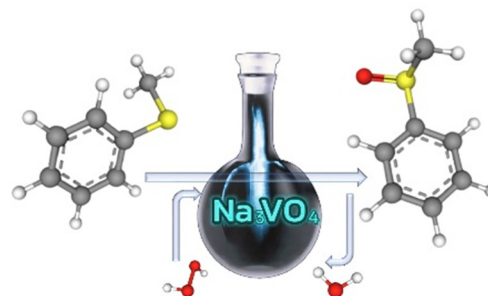


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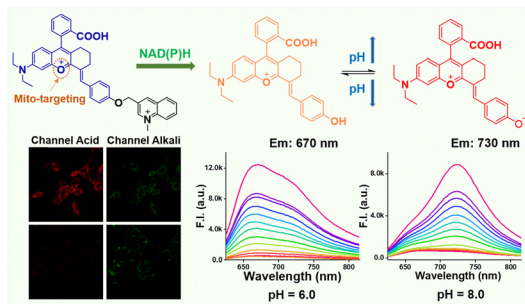
7795

On the sulfide oxidation to sulfoxides using sodium orthovanadate in water

Yunhan Zhang, Yiting Su, Lan Liu and Bishuang Chen*



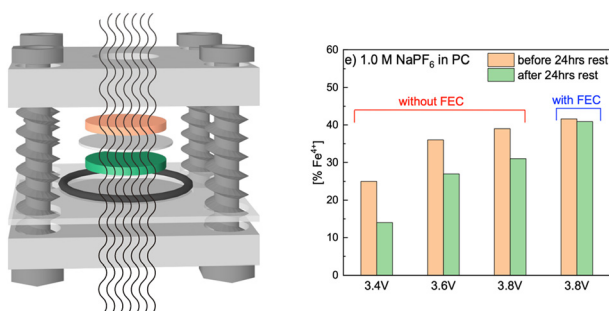
7799



A dual-response fluorescent probe Rh-O-QL for simultaneous monitoring of NAD(P)H and pH during mitochondrial autophagy

Liandi Guan, Wanting Hu, Shiyu Zhang, Yongjian Ai and Qionglian Liang*

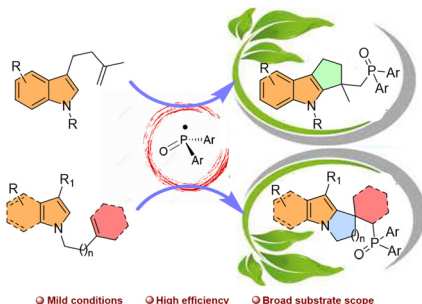
7803



In situ Mössbauer spectroscopy confirms that fluoroethylene carbonate stabilizes Fe⁴⁺ in charged NaFeO₂

Iddrisu Bachokun Abdul Razak, Dhillip Kanna Ashok Kumar, Bomin Li, Emma Anne Lynch, Dennis Brown and Yingwen Cheng*

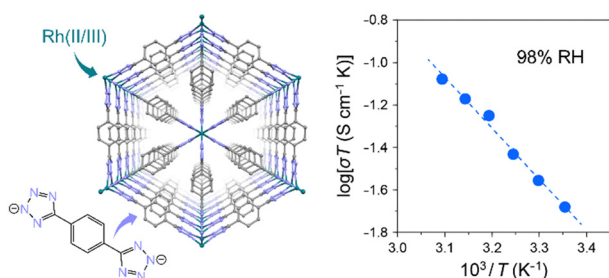
7807



Harnessing phosphorus-centered radicals for the synthesis of cyclopenta[*b*]indole and pyrrolo[1,2-*a*]indole frameworks

Palash Ghosh, Pralay Das, Prathama S. Mainkar, Rudrakshula Madhavachary* and Srivari Chandrasekhar*

7811



Self-assembled metal-organic framework composed of one-dimensional Rh(II/III) chains with an octahedral [RhN₆] coordination

Ai Kurahashi, Yukihiko Yoshida* and Hiroshi Kitagawa*

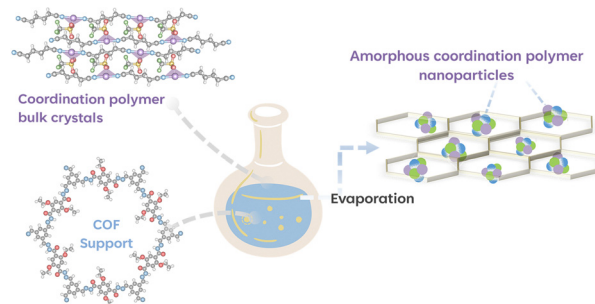


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7815

Stabilisation of amorphous coordination polymer nanoparticles in a covalent organic framework

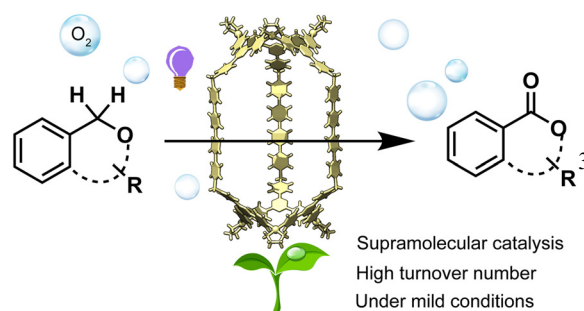
Boonrasri Seeleang, Soracha Kosasang,*
Karnjana Atthawilai, Thanakorn Tiyawarakul,
Thidarat Imyen, Kanokwan Kongpatpanich and
Satoshi Horike*



7819

Coordination-assembly of a redox-active Pd₆L₃ cage for aerobic C(sp³)-H bond photooxidation of aromatic cyclic ethers

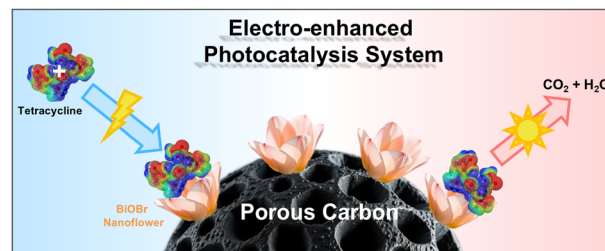
Yu-Hang Hu, Fan Yin, Shun-Xing Hong, Li-Peng Zhou,
Ke-Han Tang, Ying-Mei Zhong, Chen-Chen Li,
Li-Xuan Cai* and Qing-Fu Sun*



7823

Electro-enhanced mass transfer boosting photocatalysis towards ionized organic pollutants

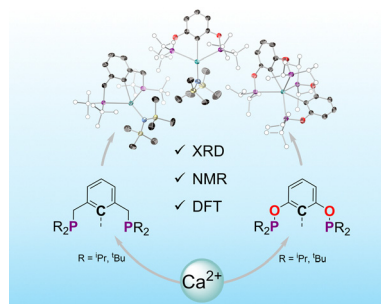
Ziquan Wang, Mengyu Zhao, Zengye Chen, Zhuji Liang,
Fengcheng Yang, Yongliang Li and Libo Deng*



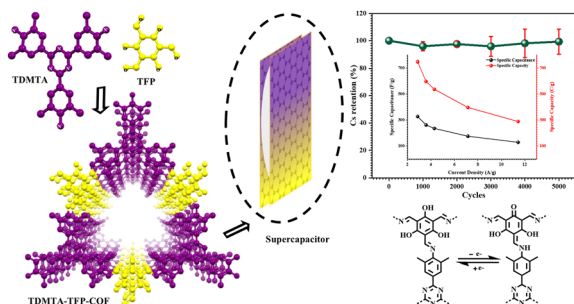
7827

PCP and POCOP complexes of calcium

Alessandro Messori, Marcel Potocnik, Sara Belazregue,
Richard Collins, Tobias Krämer and F. Mark Chadwick*



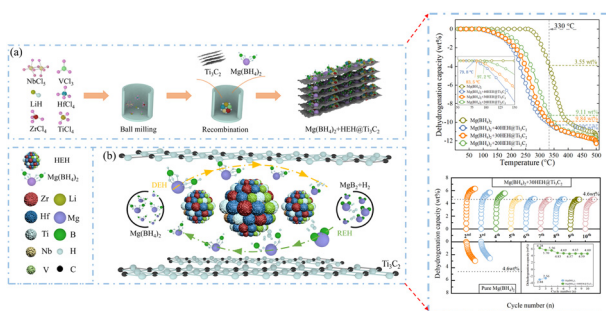
7831



An electron rich triazine-based covalent organic framework as an aqueous electrolyte symmetric supercapacitor

Divya, Ravi Rajan Panday, Shahjad Ali, Md Ehesan Ali, Sarita Kalla, Rakesh K. Pandey* and Ritambhara Jangir*

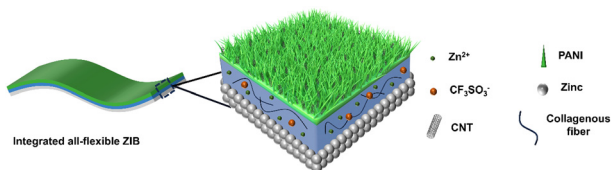
7835



Facile fabrication of an Mxene-supported nano high-entropy hydride unlocking reversible hydrogen storage in Mg(BH₄)₂

Ao Xia, Jianguang Zheng,* Zhenxuan Ma, Changhai Wu, Cong Li and Beibei Xiao*

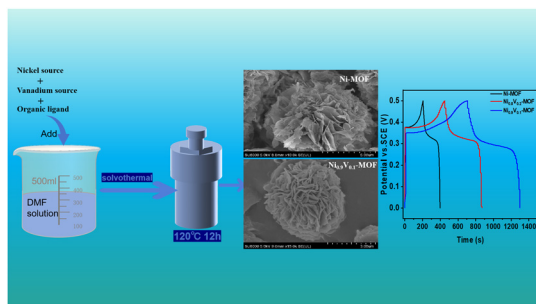
7839



An integrated all-flexible zinc-ion battery based on leather gel electrolyte

Shi-yi Shen, Jia-hua Guo, Si-qi Zheng, Shuang Gu, Wen-Bo Pei,* Jiansheng Wu,* Xia Liu, Xiao-Ming Ren and Fengwei Huo

7843



Fabrication of a vanadium-doped Ni-MOF with a hydrangea-like morphology as an electrode for high-performance supercapacitors

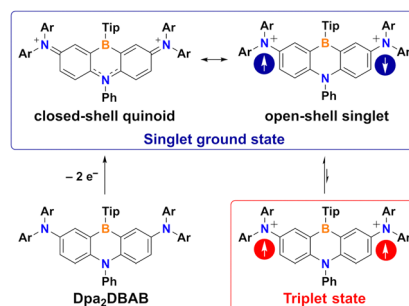
Sicong Zhang, Jingce Bi, Qingfeng Zhan, Ningning Liu, Xia Zhang, Zhuopeng Wang and Yide Han*



7847

Dicationic dibenzo[1,4]azaborine with an open-shell electronic structure

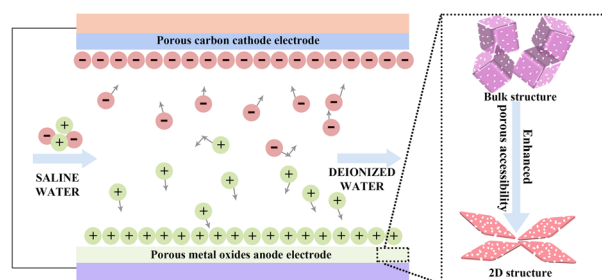
Peiyuan Yang, Yizhou Chen, Takuma Kuroda, Haruto Morishita, Hiroki Fukumoto, Masato Morita, Koichiro Masada, Takahiro Sasamori, Kazuya Kubo, Kazuhiro Marumoto,* Ryo Inoue,* Shin-ichiro Kato* and Tomohiro Agou*



7851

Engineering the dimensionality of porous Co_3O_4 for enhanced capacitive deionization performance

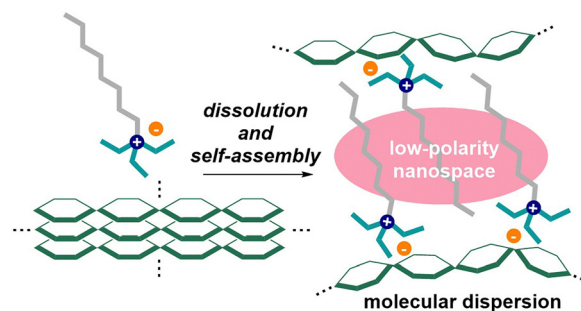
Mohua Li, Qi Ran, Jiarui Fan, Yue Liu, Wenjie Wu,* Yunyong She, Zhongxiang Liu, HaiYan Hu* and Xingtao Xu*



7855

A cellulose-stimulated self-assembling solvent for molecular dispersion of cellulose

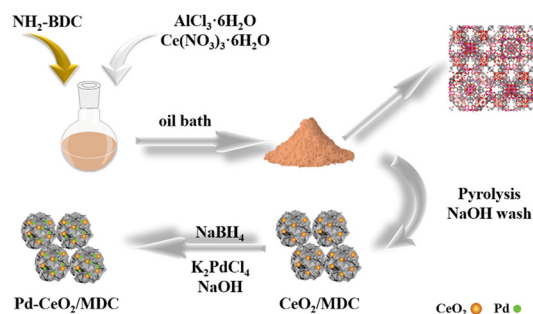
Keisuke Jono, Yuki Ogawa, Naoaki Yamasaki, Takuya Uto* and Kosuke Kuroda*



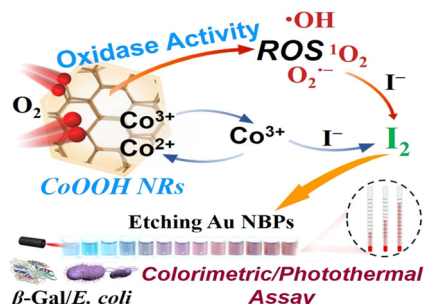
7859

$\text{Pd-CeO}_2/\text{C}$ nanocomposite derived from MIL-101(Al) for enhanced glycerol electrooxidation

Nuoyan Li, Chi Zhang, Songlin Lei, Wei Hong,* Shuguang Deng and Jun Wang*



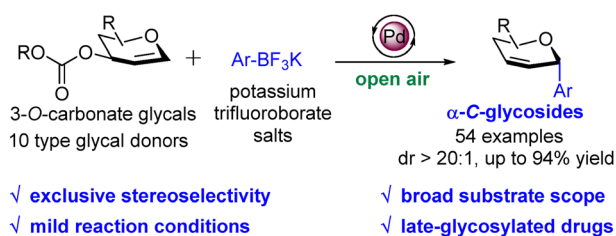
7863



Two birds with one stone: colorimetric and photothermal dual-mode biosensor based on CoOOH nanorings for detecting β -galactosidase activity and *Escherichia coli*

Yong Qiong Wang, Jia Hui Liu, De Yan Li, Jin Zhang, Long Huang, Jian Mei Yang and Tong Yang*

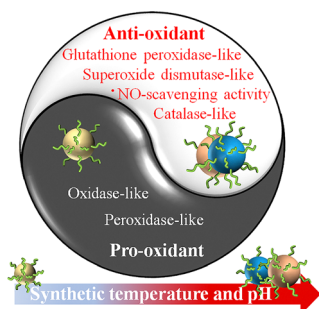
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Stereoselective synthesis of C-glycosides from glycols and organotrifluoroborate salts

Karwan Abdulmajed Othman, Yimin Xiang, Yue Wang, Nianyu Huang, Nengzhong Wang,* Linxuan Li* and Hui Yao*

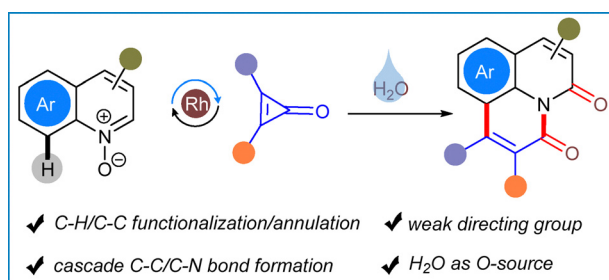
7871



Extremes meet: changeover between pro- and antioxidant activities of Cu-based nanozymes

Yuezhen He,* Yan Chen, Xue Yang, Chuncan Song, Xianyong Shen, Shirui Ma, Jian Sun, Feng Gao* and Lun Wang

7875



Rh-catalyzed [3+3]-annulation of quinolines with cyclopropanones: access to functionalized 2-quinolones

Bijoy Debnath, Santu Mandal, Sharajit Saha, Pallab Karjee and Tharmalingam Punniyamurthy*

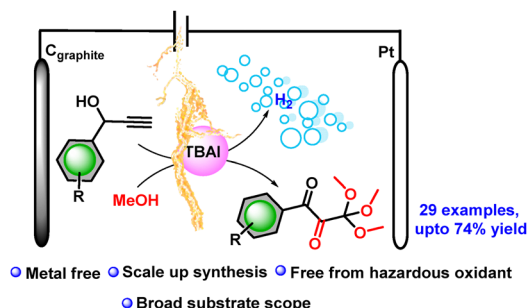


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7879

Electrochemical oxidation of propargyl alcohol: rapid access to an unprecedented dioxo-orthoester under mild conditions

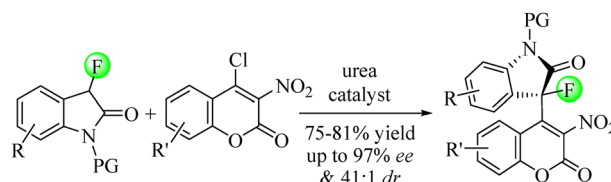
Sayan Bhadra, Manas Bandyopadhyay, Swastik Pathak, Jorge Escorihuela and Mrinal K. Bera*



7883

Organocatalytic atroposelective fluorooxindole addition to coumarin Michael acceptors

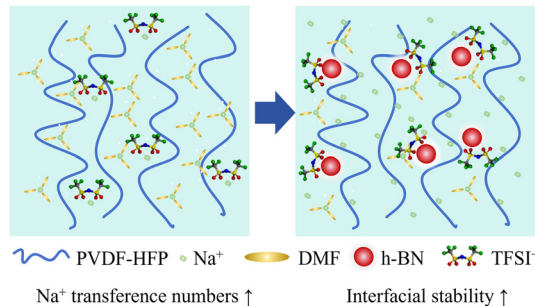
Maria Bouda, Grace E. Hana, Dea Xhili, Archita Sripada, Jeffery A. Bertke and Christian Wolf*



7887

A hexagonal-BN filler boosts the electrochemical performance of polymeric solid-state electrolytes for sodium-metal batteries

Shuangwu Xu, Le Zhao, Zheting Liu, Huapeng Sun, Dan Sun, Zhiguang Peng,* Yougen Tang, Wenyao Wang and Haiyan Wang*



7891

High voltage driven MnO₂/CuO for efficient oxidation of 5-hydroxymethylfurfural

Mengyang Yin, Hongliang Dai, Xi Chen, Weiqiang Fan* and Hongye Bai*

