

## IN THIS ISSUE

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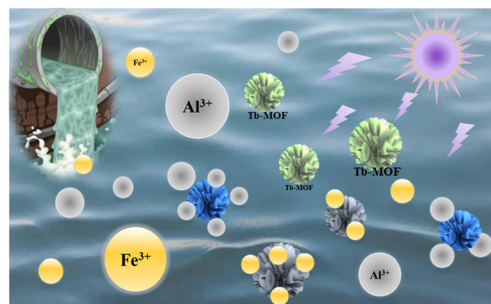
See Kang Hu *et al.*,  
pp. 13619–13625.  
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*New J. Chem.*,  
2023, 47, 13619.

## PAPERS

13619

### Facile synthesis of a fluorescent probe based on a terbium-based metal–organic framework for selective detection of Fe(III) and Al(III)

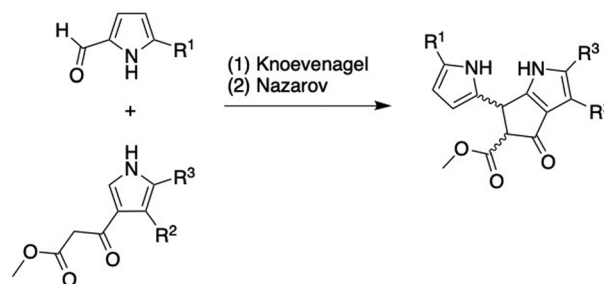
Xuequan Jing, Jiaming Liu, Meina Guo, Guoliang Chen, Guoqing Ren, Jiarong Li, Haonan Qin, Zhangwei Yao, Yinhua Wan, Weijie Song, Huifeng Zeng, Feifei Yang, Da Zhao and Kang Hu\*



13626

### Synthesis of model southern rim structures of photosynthetic tetrapyrroles and phyllobilins

Anh Thu Nguyen Tran, Zhiyuan Wu, Duy T. M. Chung, Phattananawee Nalaoh and Jonathan S. Lindsey\*



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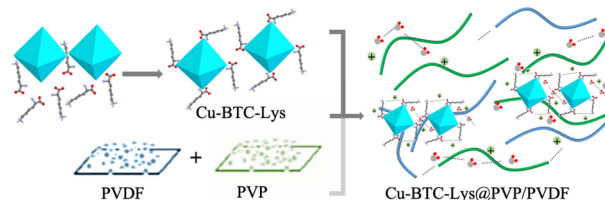


## PAPERS

13638

### Enhanced proton conductivity in a Cu-BTC thin-film membrane through lysine incorporation and a mixed matrix membrane

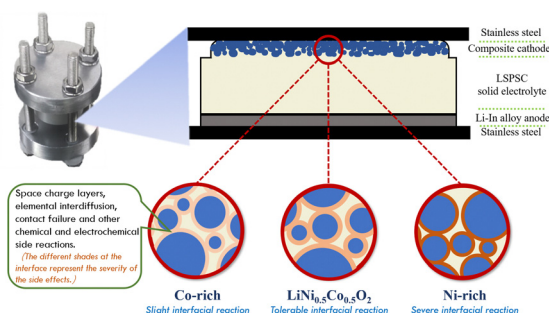
Yuan Gao, Bo Liu, Hanlu Xu, Caixia Shi, Ning Yan, Shaorong Wang\* and Rongli Jiang\*



13646

### The effect of electrochemically active element species on the stability of the layered cathode–sulfide electrolyte interface

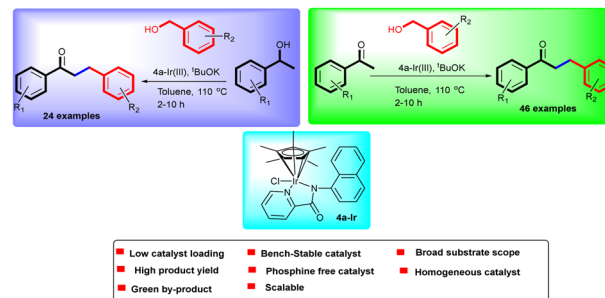
Yiming Sun, Senhao Li, Kai Yang, Yue Ma, Hongzhou Zhang, Dawei Song, Yi Wang\*, Chunliang Li, Defa Wang\* and Lianqi Zhang\*



13655

### Selective catalytic synthesis of $\alpha$ -alkylated ketones and $\beta$ -alkylated secondary alcohols via hydrogen-borrowing

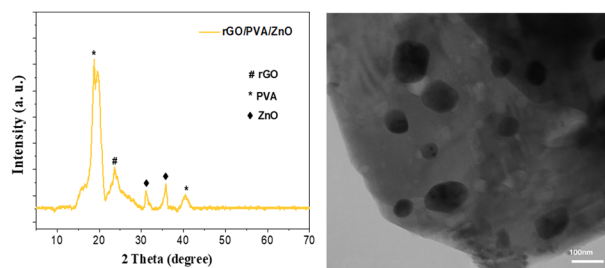
Md. Bakibillah, Sahin Reja, Kaushik Sarkar, Deboshmita Mukherjee and Rajesh Kumar Das\*



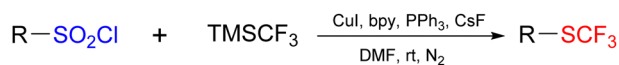
13661

### Increasing the photocatalytic degradation rate of a rGO/PVA nanocomposite decorated with ZnO nanoparticles

Rana Ismael Faeg, Safanah Sahib Jaafar, Amel Muhson Naji, Mustafa K. A. Mohammed\* and Olfat A. Nief



13671

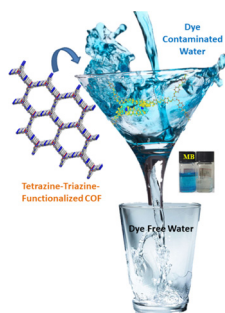


R = Aryl, Alkyl

### Copper-promoted indirect trifluoromethylthiolation of sulfonyl chloride with $\text{TMSCF}_3$ : facile access to trifluoromethyl thioethers

Changge Zheng,\* Kui Zhao, Chao Jiang, Ruilong Feng, Chunxiang Li, Xifei Chen, Chongbin Wei, Xinxin Gong and Jianquan Hong\*

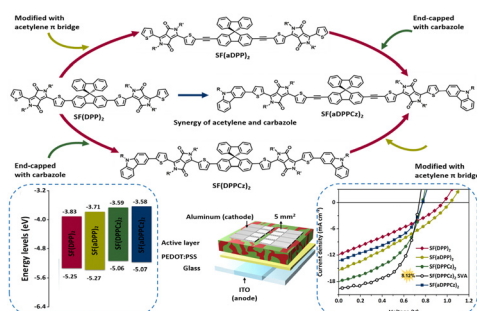
13676



### Amorphous tetrazine–triazine-functionalized covalent organic framework for adsorption and removal of dyes

Shubham Kumar, Kusum Kumari, Saurabh K. Singh, Bharat Z. Dholakiya and Ritambhara Jangir\*

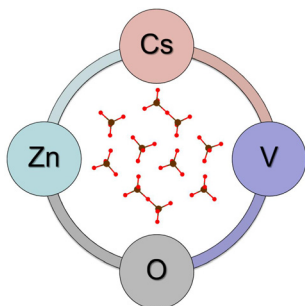
13687



### A two-armed skeleton extension strategy for the design of novel spirobifluorene-based small molecule donors

Yanli Guo, Yueting Liang, Lunxiang Yin,\* Chang Liu and Yanqin Li\*

13697

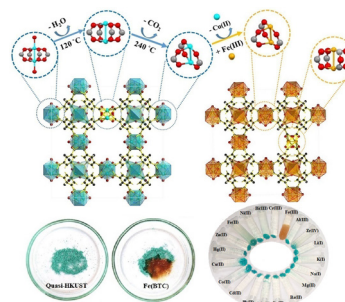


### Synthesis and characterization of $\text{Cs}_2\text{Zn}_4\text{V}_4\text{O}_{15}$ —a new vanadate in the Cs–Zn–V–O quaternary system

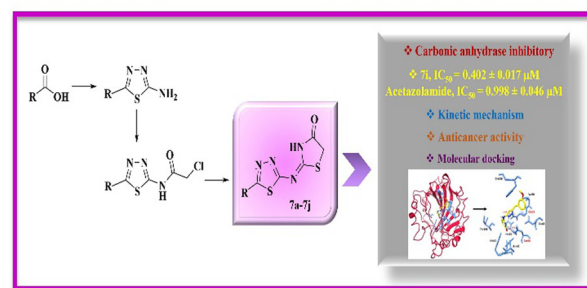
Qiuyuan Feng, Jianyi Zuo and Hong Du\*



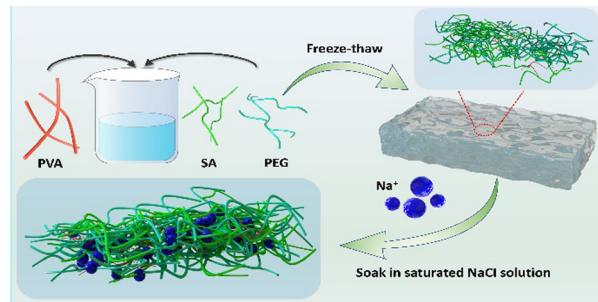
## Farzaneh Rouhani,\* Mahsa Ghiasvand and Nasser Safari



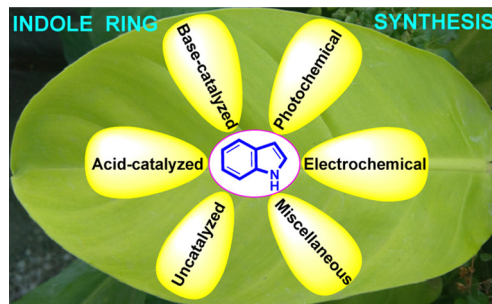
Narges Hosseini Nasab, Hussain Raza, Young Seok Eom,  
Mubashir Hassan, Andrzej Kloczkowski,  
Lloyd Christopher Chetty, Hendrik Gert Kruger and  
Song Ja Kim\*



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Yong Pan, Daohai Zhang\* and Shuhao Qin\*



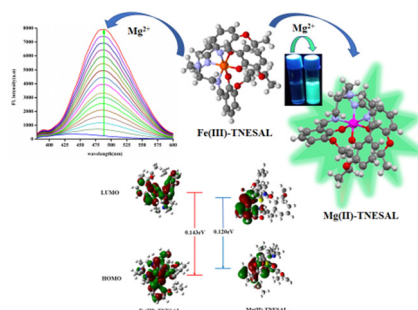
Suven Das





## PAPERS

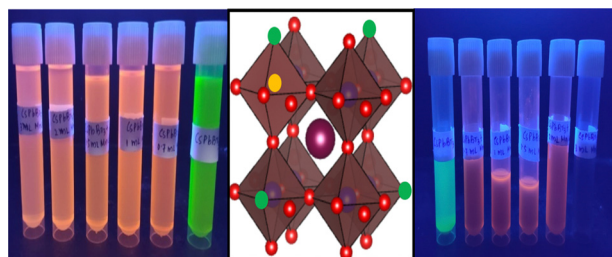
13776



**A tripodal imine-derived Fe(III) complex for the fluorescence recognition of Mg(II) via green emission: crystal structure, photophysical interactions and DFT studies**

Jayanta Das, Sangita Maji, Prasenjit Mandal, Subhasis Ghosh and Debasis Das\*

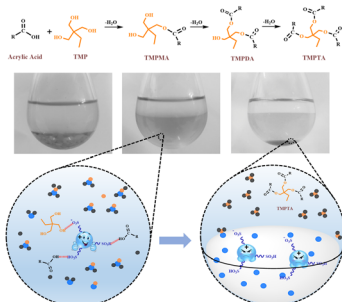
13783



**Synthesis of  $\text{Mn}^{2+}:\text{CsPb}(\text{Br}_{1-x}\text{Cl}_x)_3$  perovskite quantum dots in an ambient atmosphere: stability analysis and self-powered photodetector applications**

Malavika. A, Swapnika Suresh, Mohan Raj Subramaniam and Sudip K. Batabyal\*

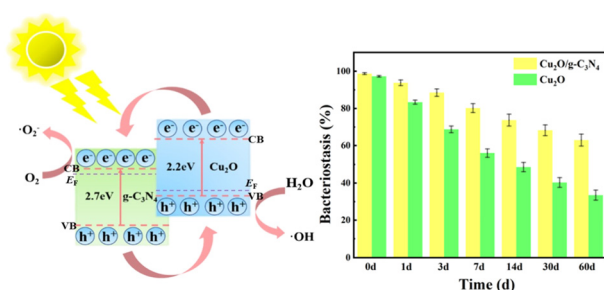
13789



**Sulfonated phenylamine ionic liquids as efficient phase-separation catalysts for the synthesis of trimethylolpropane triacrylate**

Mingjue Zhang, Shuang Li,\* Pingbo Zhang and Yan Leng\*

13797



**Preparation of a  $\text{Cu}_2\text{O}/\text{g-C}_3\text{N}_4$  heterojunction with enhanced photocatalytic antibacterial activity under visible light**

Bo Wang, Lianfeng Wu, Ao Sun, Tengfei Liu, Lifang Sun and Wen Li\*

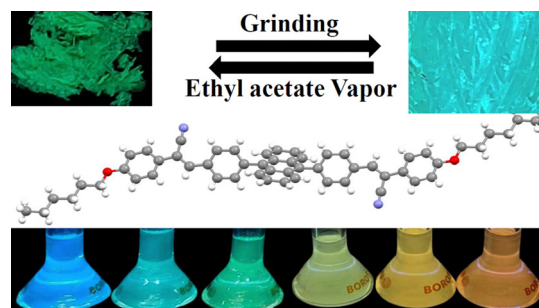


## PAPERS

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### Anthracene-incorporated cyanostilbene based donor–acceptor systems: intramolecular charge transfer and aggregation induced emission

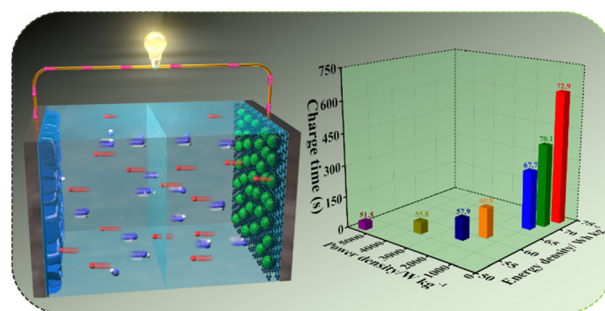
Cherumannil Femina, M. Shanthil, Pookkottu K. Sajith and Reji Thomas\*



13820

### Engineering hierarchical manganese molybdenum sulfide nanosheet integrated cathodes for high-energy density hybrid supercapacitors

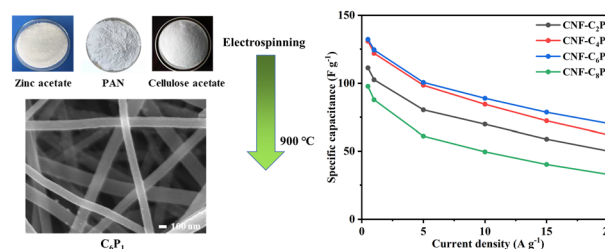
Chao Li, Qiong Liu, Lu Liu, Ge Wu, Yulong Zhang, Sihan Liu, Ruhua Zha, Yu Zhang\* and Qing Li\*



13831

### Capacitive properties of carbon nanofibers derived from blends of cellulose acetate and polyacrylonitrile

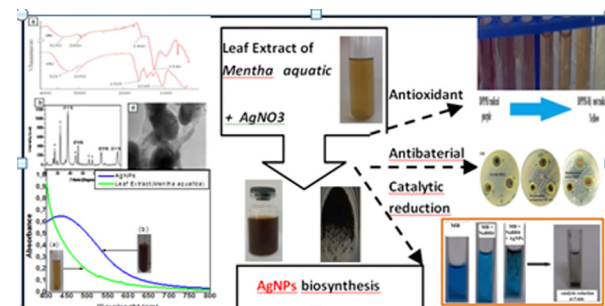
Zhenzhao Chen, Guoqing Chen, Changshui Wang, Dai Chen, Qian Zhang,\* Longjun Jiang, Chunmei Zhang,\* Kunming Liu and Shuijian He\*



13841

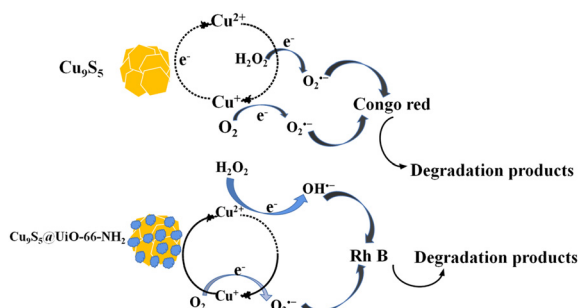
### *Mentha aquatica* leaf extract mediated phytosynthesis of silver nanoparticles: antioxidant, catalytic and anti-microbial activity

Yousra Taieb Amara,\* Mohammed Beldjilali, Fatima Zohra Kermezli, Ilyes Chikhi, Inas Taha, Issam Ismail, Lahcen Belarbi and Smain Bousalem



## PAPERS

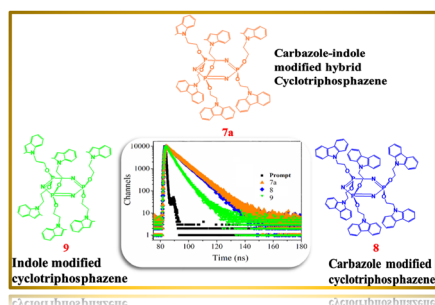
13855



**Cu<sub>9</sub>S<sub>5</sub> and Cu<sub>9</sub>S<sub>5</sub>@UiO-66-NH<sub>2</sub> composites exhibit excellent Fenton-like photocatalytic activities for the degradation of organic contaminants**

Yong Cheng,\* Lin Deng, Dan Wang, Changchun Ji and Ying-Hua Zhou

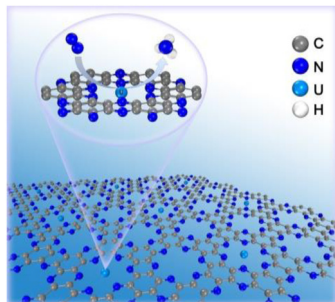
13866



**Designing inorganic–organic hybrid molecules based on carbazole/indole-appended cyclotriphosphazenes and the investigation of their photophysical properties**

Duygu Palabıyık, Ceylan Mutlu Balcı, Süreyya Oğuz Tümay and Serap Beşli\*

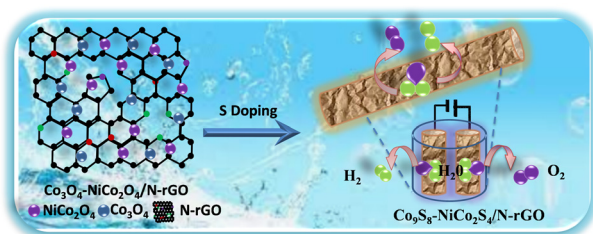
13880



**N<sub>2</sub> reduction in uranium-doped C<sub>2</sub>N/C<sub>3</sub>N<sub>4</sub> monolayers: a DFT computational study**

Huijie Liu, Mengnan Qu, Aijun Du and Qiao Sun\*

13888



**Binary Co<sub>9</sub>S<sub>8</sub>–NiCo<sub>2</sub>S<sub>4</sub> anchored on N-doped rGO backbone as an efficient bifunctional and durable hetero-catalyst for overall water-splitting in alkaline medium**

Mubashir Ali, Malik Wahid\* and Kowsar Majid\*



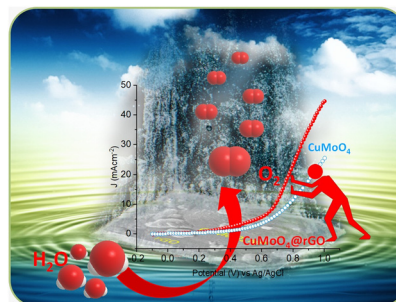


## PAPERS

13903

**rGO supported CuMoO<sub>4</sub> nanoparticles: synthesis, characterization, and electrocatalytic oxygen evolution reaction**

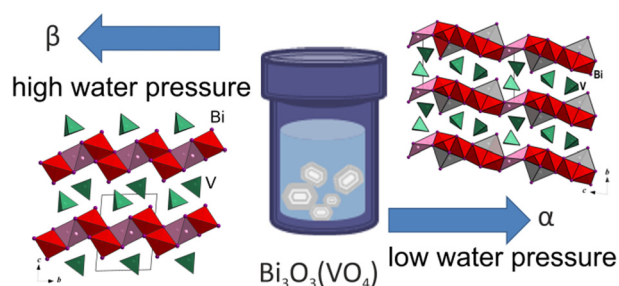
Jahangeer Ahmed,\* Tansir Ahamad and Saad M Alshehri\*



13911

**Novel bismuth oxosalts,  $\beta$ -Bi<sub>3</sub>O<sub>3</sub>(VO<sub>4</sub>) and KBi<sub>5</sub>O<sub>5</sub>(PO<sub>4</sub>)<sub>2</sub>: synthesis and effect of hydrothermal pressure on the crystal structure**

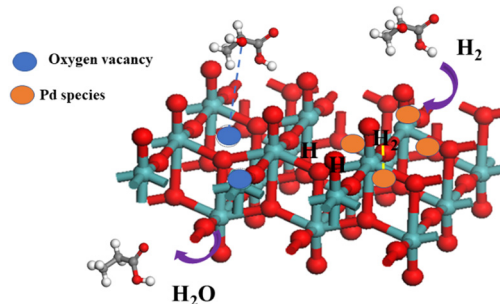
Larisa Shvanskaya,\* Polina Krikunova, Irina Nikolaeva, Konstantin Lyssenko, Nikolay Pokryshkin and Victor Timoshenko



13918

**Synergy of highly dispersed Pd and the oxygen-vacancy-promoted hydrodeoxygenation of lactic acid to propionic acid**

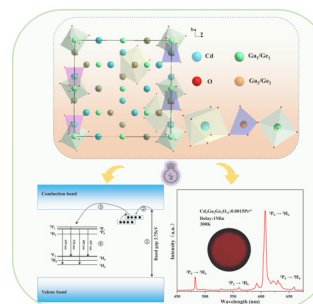
Mei Zhao, Congming Tang, Kai Ma and Xinli Li\*



13929

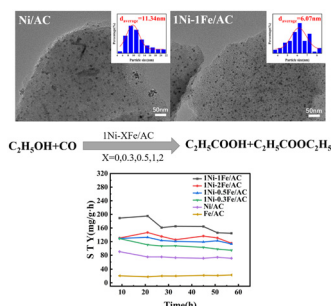
**Investigation on the luminescence properties and mechanism of a novel Pr<sup>3+</sup>-based red persistent luminescence phosphor Cd<sub>3</sub>Ga<sub>2</sub>Ge<sub>3</sub>O<sub>12</sub>:Pr<sup>3+</sup>**

Xinxing Ming, Zikai Meng, Jiajia Cao,\* Wang Zhenbin\* and Mingjin Zhang



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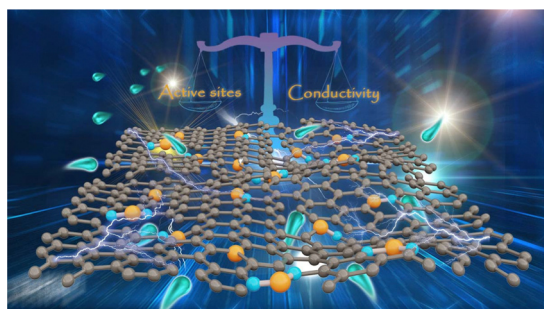
13938



### A Ni–Fe alloy supported by active carbon efficiently promotes the vapor phase catalytic carbonylation of ethanol

Qichen Wang, Mingyi Wang, Xuehao Li, Peng Liu, Chuanmin Ding,\* Lian Wang, Junwen Wang,\* Kan Zhang and Ping Liu

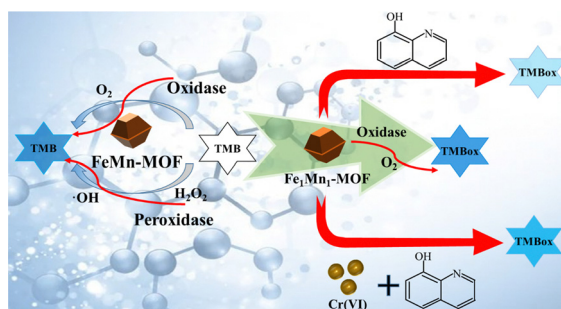
13945



### An ecofriendly and universal strategy to balance the active sites and electrical conductivity of biomass-derived carbon for superior lithium storage

Xi Chen, Yanmeng Zhang, Heng Zhang, Song Yang, Tao Li,\* Bing Sun\* and Shibing Ni\*

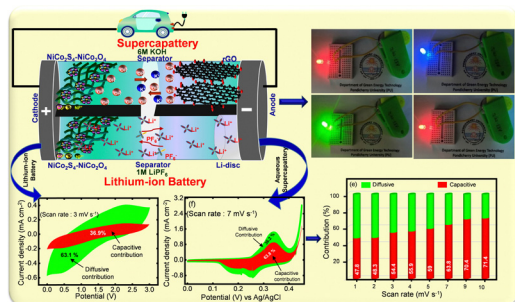
13952



### The iron-manganese bimetal-MOF with double mimic enzyme: DFT verification and colorimetric detection of Cr(vi)

Dehong Bai, Ziyu Xue, Shaohui Li, Ran Meng, Dongxia Zhang and Xibin Zhou\*

13963



### Deconvolution of capacitive and diffusive charge/lithium storage in lyophilized NiCo<sub>2</sub>S<sub>4</sub>–NiCo<sub>2</sub>O<sub>4</sub> composite for supercapattery and lithium-ion battery

Kalidoss Kannadasan, Vaithyanathan Sankar Devi, Suresh Archana, Paramanandam Thomas and Perumal Elumalai\*

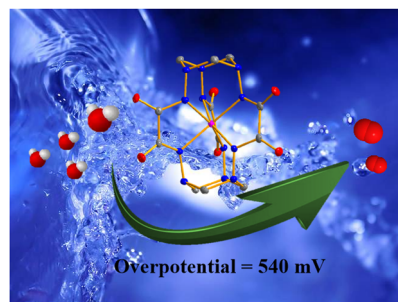


## PAPERS

13979

### Electrochemical water oxidation using a stable water-soluble mononuclear manganese clathrochelate

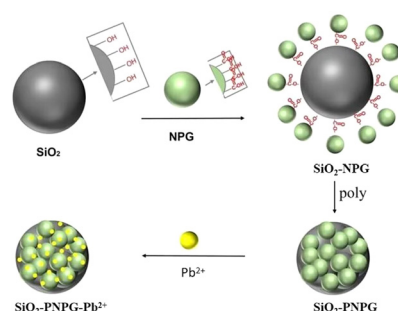
Shenke Zheng,\* Xiangming Liang,\* Chang Dai, Xueli Yang, Ziyang Li, Yilong Lai, Li Hong and Junqi Lin\*



13985

### One-pot synthesis of polymer SiO<sub>2</sub>-PNPG electrodes as a transducer for the measurement of Pb(II) in soil

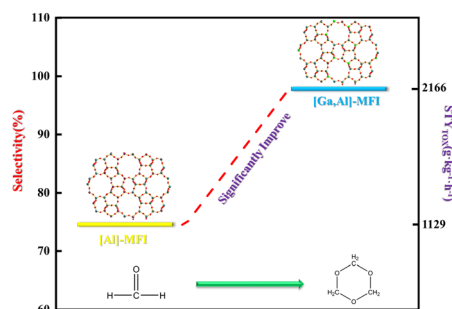
Luo Xu, Fang Yang, Jiagen Li, Qihui Wang, Lin Du, Min Yang and Xiaohong Fu\*



13993

### Synthesis of trioxane from formaldehyde catalyzed by [Ga, Al]-MFI zeolites

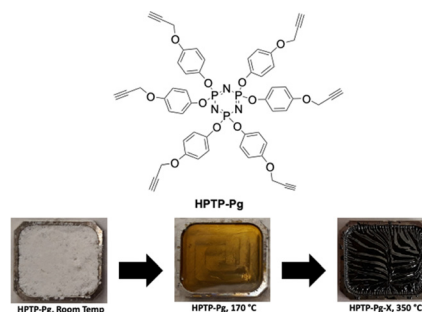
Wenhui Wu, Conger Deng, Qian Lei and Honglin Chen\*



14002

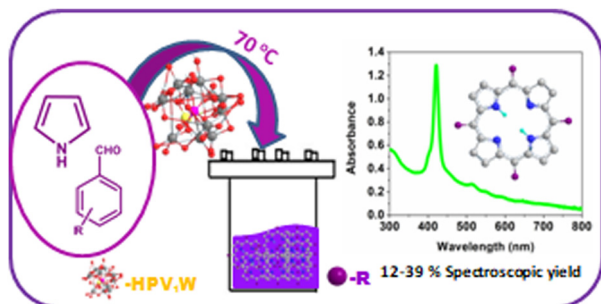
### Annealing of acetylene containing cyclotriphosphazene to generate nitrogen- and phosphorus-containing layered graphitic materials

M. Nazir Tahir, Audithya Nyayachavadi, Kory Schlingman, Megan Wan, S. Holger Eichhorn\* and Simon Rondeau-Gagné\*



## PAPERS

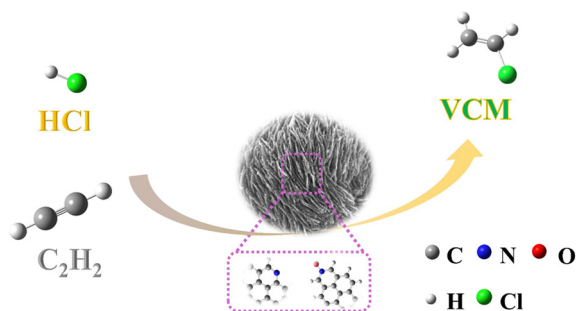
14010



### Keggin type heteropolyacid-mediated novel green protocol for the synthesis of porphyrins

Gopika Jagannivasan, Arun R., Mohit Kumar, Challapalli Subrahmanyam, Sebastian Nybin Remello and Suja Haridas\*

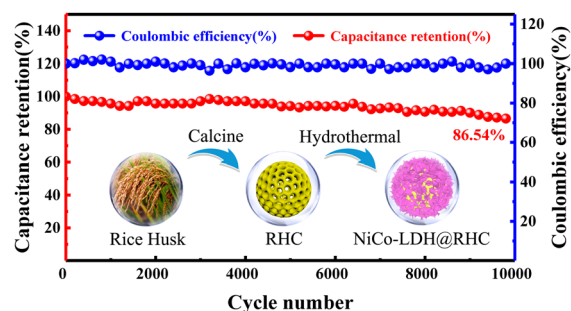
14019



### Hydrochlorination of acetylene catalyzed by mesoporous carbon with hierarchical assembly of polyimide nanosheets

Zihan Guo, Wencai Peng, Jian Li, Feng Li, Qiangang Zhang, Lijie Yang, Dongyang Xie, Yanzhao Dong,\* Jinli Zhang and Haiyang Zhang\*

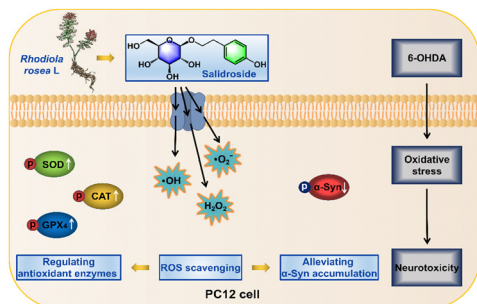
14030



### Facile fabrication of NiCo-LDH on activated rice husk carbon for high-performance all-solid-state asymmetric supercapacitors

Hexiang Hu, Kaidi Li, Xuesong Li, Liying Wang, Xijia Yang\* and Qixian Zhang\*

14039



### Neuroprotective effects of salidroside against 6-OHDA-induced oxidative stress in PC12 cells

Minyan Li, Sha Wang, Chunmei Fu, Hongyu Chen, Yuxia Su, Peng Wu,\* Xinhao Yan\* and Juanjuan Gao\*



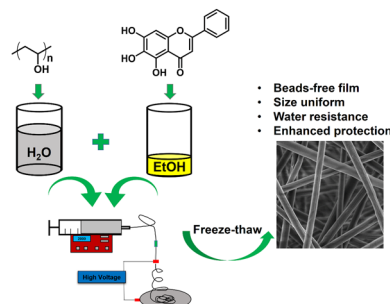


## PAPERS

14046

## Naturally flavonoid-derived PVA nanofibers for antioxidation

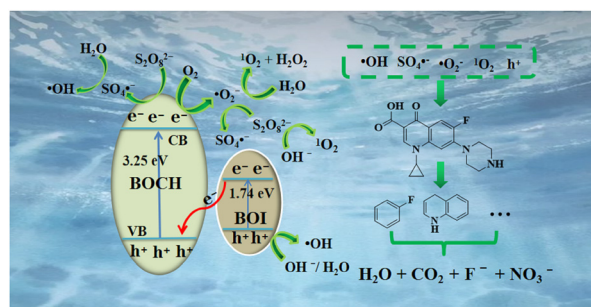
Meng Sun,\* Yuyang Wang, Anni Huang, Yuxin Tian, Runqi Yang, Hanlu Wang, Xinmei Zhao\* and Xinqiang Song\*



14056

## Visible-light persulfate activation by a BiOI/BiOOH composite photocatalyst for accelerated organic pollutant degradation

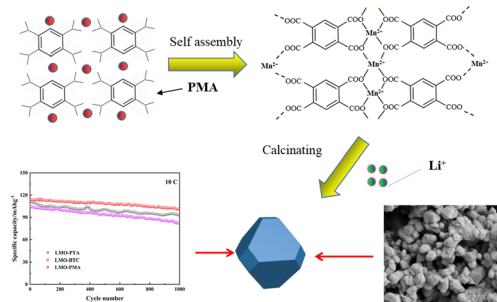
Yanan Duan, Jianjiang Lu,\* Yujun Yan,\* Yanbin Tong, Yalong Song and Jinfeng Xiao



14068

## Improved electrochemical performance of spinel LiMn2O4 derived from manganese-based metal-organic frameworks by organic ligands

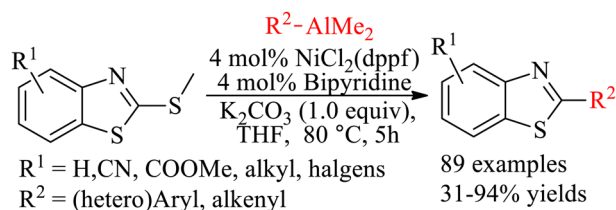
Yong-Lin Huo, Yi-Jing Gu,\* Zi-Liang Chen, Xiao-Yu Ma, Fu-Zhong Wu and Xin-Yi Dai



14078

## The cross-coupling reaction of organoalane reagents with 2-methylthiobenzo[d]thiazoles via C-S bond cleavage catalyzed by nickel

Xin Jiang, Hongliu Xiao, Xiaoying Jia, Jiaxia Pu, Lirong Han and Qinghan Li\*





## CORRECTIONS

14095

**Correction: Heterocycle-derived organosilatrane as naked eye sensors for  $\text{Sn}^{2+}$  ions and their potential inhibiting activity against HIV-1 protease via a computational approach**

Gurjaspreet Singh,\* Diksha,\* Mohit, Priyanka, Anita Devi, Swati Devi, Harshbir Kaur, Jandeep Singh and Gurleen Singh

14096

**Correction: Recent developments in the solvent-free synthesis of heterocycles**

Nilabrata Dey, Arabinda Mandal, Rathin Jana, Anirban Bera, Sk Abulkalam Azad, Soumen Giri,\* Mohammed Iqbal\* and Shubhankar Samanta\*

