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See Kei Goto et al., pp. 9569-9574. Image reproduced by permission of Kei Goto from New J. Chem., 2023, 47, 9569.

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- Development of a mechanism for the formation of 3
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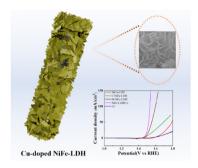
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## **COMMUNICATIONS**

Active-site-enriched Cu-doped Ni-Fe layered double hydroxide nanosheets for boosting the oxygen evolution reaction

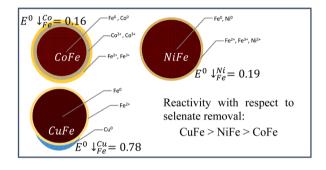
Zhenyu Ye, Peijia Wang, Wenjie Zhong, Xiaohang Zheng\* and Wei Cai



### 9540

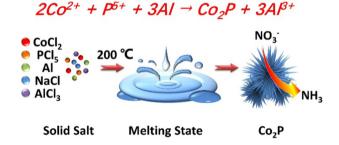
Bimetallic ZVI nanoparticles for the removal of selenate ions from simulated FGD wastewater

Alma Malibekova and Vadim Guliants\*



Hypotoxic synthesis of Co<sub>2</sub>P nanodendrites for boosting ammonia electrosynthesis from nitrate

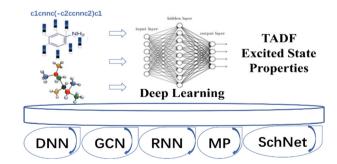
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A deep learning framework for predictions of excited state properties of light emissive molecules

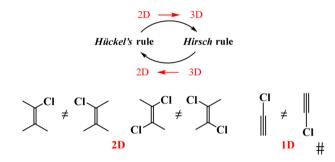
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Synthesis of 1,1'-diaryl-4,4'-bibenzo[c]thiophene derivatives with aryl substituents on the thiophene rings by Stille or Suzuki coupling reaction

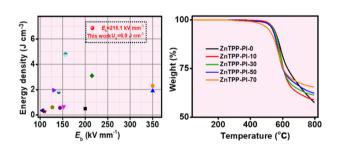
Taiki Higashino, Yasuto Hara, Keiichi Imato, Seiji Akiyama, Mio Ishida and Yousuke Ooyama\*



Aromaticity, chirality and dimensionality of space

Bagrat A. Shainyan

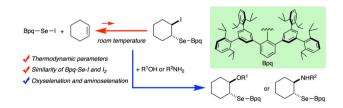
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Molecular engineering of a polyimide copolymer enables excellent dielectric and energy storage performance

Xuehui Peng, Huiping Liu, Zewei Zhu, Tao Xu, Gangyong Zhou,\* Wei Zhou, Ju Bai, Haoqing Hou and Xinwen Peng\*

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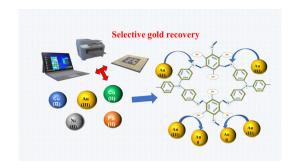


Efficient oxyselenation and aminoselenation utilizing a selenenyl iodide based on the characteristic thermodynamics of its reaction with olefins

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A covalent organic polymer containing nitrogen and oxygen groups with high adsorption capacity and selectivity for gold ions under strongly acidic conditions

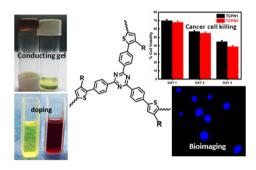
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Soluble and highly fluorescent conjugated polymer network: non-oxidative reversible doping, cell imaging and anticancer activity

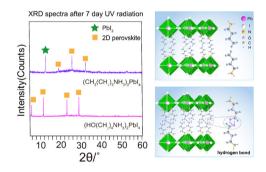
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Kaimeng Yang, Baiyi Shao, Aoping Guo, Fangming Cui\* and Xiaojing Yang\*

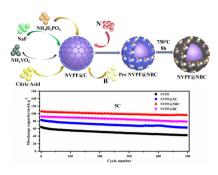


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Redox-responsive catalysis: fine tuning of chemoselectivity in the intramolecular reaction of diazo compounds catalysed by ferrocenefunctionalised dirhodium(II) complexes

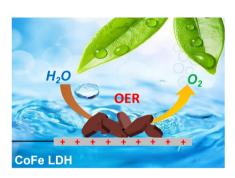
Illia Ruzhylo, Sandrine Vincendeau, Philippe Dauban, Eric Manoury, Rinaldo Poli and Agnès Labande\*

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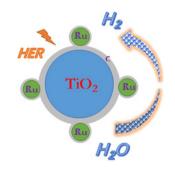
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Xuntao Zhang, Hualing Tian, Yanhui Zhang, Yanjun Cai, Xiang Yao\* and Zhi Su\*



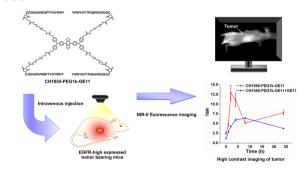
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## Preparation of carbon coated hyperdispersed Ru nanoparticles supported on TiO<sub>2</sub> HER electrocatalysts by dye-sensitization

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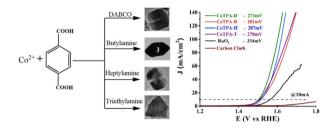
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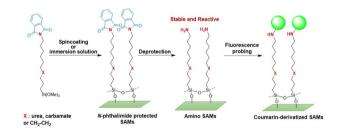
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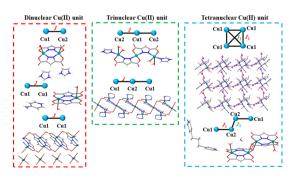
Self-assembly of amino-terminated monolayers depending on the chemical structure

Lisa Rouvière, Axelle Hachin, Svitlana Shinkaruk, Julien Hunel, Christian Aupetit, Thierry Buffeteau, Emilie Genin\* and Luc Vellutini\*

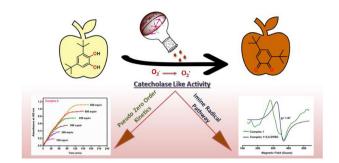


Synthesis, X-ray structures, and magnetic properties of seven polynuclear Cu(II) complexes containing pyrazole-3,5-dicarboxylate with various ancillary ligands

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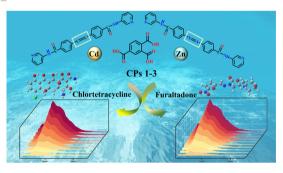
Sanchari Dasgupta,\* Suhana Karim, Somanjana Khatua, Amit Adhikary, Krishnendu Acharya, Ennio Zangrando, Suvendu Maity and Debasis Das\*



## N, O co-doped porous carbon derived from pine needles for zinc-ion hybrid supercapacitors

Jiangtao Zheng, Qiongyao Song, Ying Qi, Huitao Leng, Weiqiang Zhou,\* Sheng Li\* and Jingxia Qiu\*

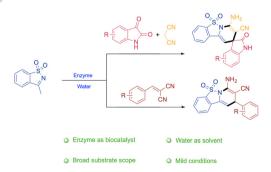
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Metal-regulated d<sup>10</sup> coordination polymers constructed from bis(pyridyl)-bis(amide) ligands with different spacers as high-efficiency fluorescence sensors for identifying chlortetracycline and furaltadone

Jun Geng, Jiaxin Sun, Hongyan Lin\* and Xiuli Wang\*

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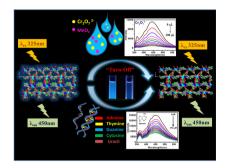
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Multifunctional cobalt metal-organic framework luminescent probe for the efficient sensing of Cr<sub>2</sub>O<sub>7</sub><sup>2-</sup>, MnO<sub>4</sub><sup>-</sup> and nucleobases

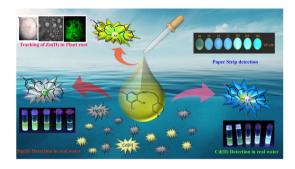
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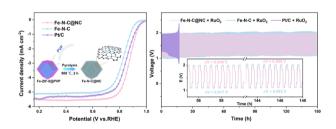
Manik Das, Pranabendu Das, Shubham Ray, Arijit Bag, Soumik Laha, Indranil Choudhuri, Nandan Bhattacharya, Bidhan Chandra Samanta and Tithi Maity\*



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Core-shell structured Fe-N-C wrapped by an ultrathin porous carbon shell as a robust electrocatalyst for the oxygen reduction reaction

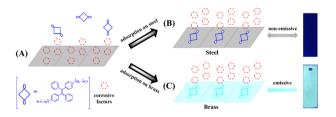
Bin Yue, Kang Yang, Huaming Xie, Ying Lei,\* Jianying Li and Yujun Si



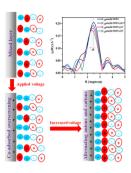
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Yiming An, Yumeng Chen, Xue Lei, Song Gao, Mudi Xin, Fulin Qiao, Yue Zhao, Lushen Zuo, Fei Sun\* and Chunlu Wang\*



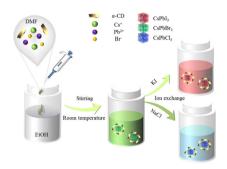
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## Monitoring of the voltage-induced microstructure of C<sub>12</sub>mimBr ionic liquids on a HOPG surface using in situ XAFS

Fangling Jiang, Yuting Song, Maolin Sha\* and Shimou Chen\*

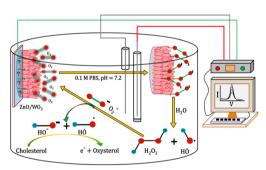
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## Toward the green synthesis of CsPbBr<sub>3</sub> perovskite nanocrystals using ethanol as an antisolvent and cyclodextrin as a ligand

Qin Zhang, Fang Guo, Run-Chi Zhao and Zhi-Hong Mo\*

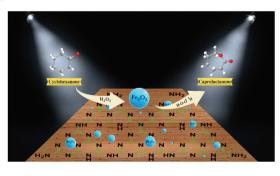
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## Hydroxyl radical assisted enzyme-free electrochemical detection and oxidation of cholesterol by a galvanically deposited layer-by-layer ZnO/WO<sub>3</sub> thin film nanocomposite

Uday Kumar Ghorui, Bibhutosh Adhikary\* and Anup Mondal\*

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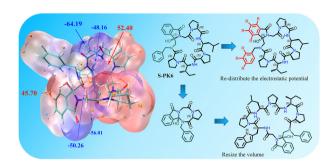


## Fe@g-C<sub>3</sub>N<sub>4</sub>: an effective photocatalyst for Baeyer-Villiger oxidation under visible light condition

Bharat A. Maru, Gaurang J. Bhatt, Urvi Lad, Pradeep T. Deota, Sanjeev Kane, U. K. Goutam and Chetan K. Modi\*

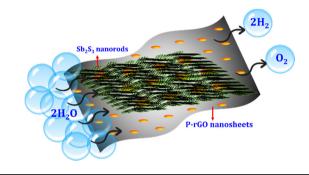
Molecular electrostatic potential and volume-aided drug design based on the isoindolinone-containing cyclopeptide S-PK6

Lei Zhao, Tingting Li, Hongyu Xu, Xiong Zhang, Huiming Lin, Na Liu, Yingxue Jin\* and Zhiqiang Wang\*



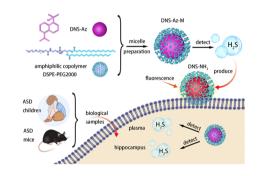
Controlled growth of Sb<sub>2</sub>S<sub>3</sub> nanorods on phosphorus doped reduced graphene oxide for enhanced overall water splitting

A. Gowrisankar, K. Selvadharshini. Krishnendu M. Nair and T. Selvaraju\*



Detection of H<sub>2</sub>S using a novel fluorescent nanoprobe in plasma and tissue samples from ASD patients and model mice

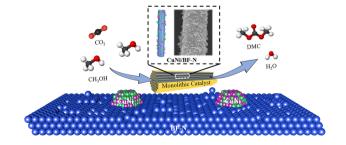
Changmei Zhang, Feng Wang, Zehui Liu, Peiwen Guo, Huirong Liang, Wenru Tian, Lingyuan Yang, Yaxin Shi, Mingyang Zou and Lijie Wu\*

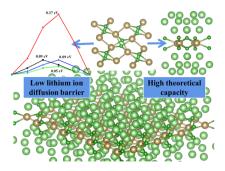


## 9842

Industrial basalt fiber-loaded CuNi for the continuous synthesis of DMC from CO<sub>2</sub> and methanol

Li Luo, Jie Deng, Yingying Wang, Qiang Tang, Mengyue Hou, Ziyue Zhang, Shijian Lu\* and Yongdong Chen\*

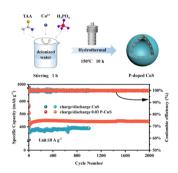




## Theoretical study of a novel porous penta-TaB with two-dimensional furrow surface as an anode for lithium-ion batteries

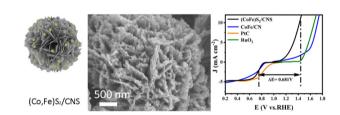
Haipeng Zhang, Jing Ren, Rui-Peng Ren\* and Yong-Kang Lv\*

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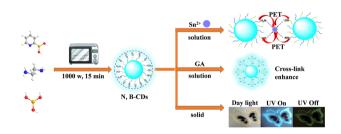
## Phosphorus-doped copper sulfide microspheres with a hollow structure for high-performance sodium-ion batteries

Xinyue Tong, Zhen Wang, Zhaoyang Liu, Biao Yang, Zhenjiang Lu, Jing Xie, Jindou Hu and Yali Cao\*



## MOF-derived nanocarbon materials loaded with bimetallic sulfides as cathode catalysts for zinc-air batteries

Junjie Liu, Jingsheng Ma, Kun Tang, Rui Wang, Yongjian Wu, Cheng Qu and Mingzai Wu\*



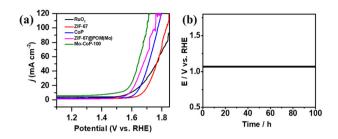
## One-step synthesis of N, B-doped carbon dots and their multifunctional applications in the detection of tin ions and gallic acid and information encryption

Xiaopeng Wang, Jianping Zeng, Shixin Xie, Liangliang Tao and Xiangying Sun\*

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## ZIF-67@POM hybrid-derived unique willow-shaped two-dimensional Mo-CoP nanostructures as efficient electrocatalysts for the oxygen evolution reaction

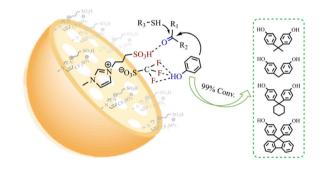
Yao Tang, Zijun Zou, Xingen Wu, Pengfei Zuo, Lei Wang,\* Guiwen Huang, Jia Zhu and Shengliang Zhong\*



### 9894

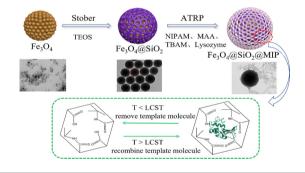
## Polystyrene-supported imidazolium acidic ionic liquids: highly efficient catalysts for the synthesis of bisphenols

Dan Su, Fei Xu,\* Heng Wang, Jingxue Xie, Shijie Wang, Ming Jiang, Mi Feng, Zhencai Zhang, Zhiqiang Song and Na Liu\*



## Lysozyme imprinted Fe<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub> nanoparticles via SI-ATRP with temperature-controlled reversible adsorption

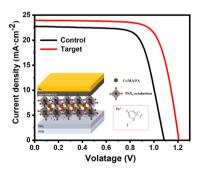
Jun Tian, Yi Pang, Hongjuan Gu, Dongyan Tang and Zaiqian Yu\*

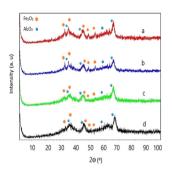


## 9913

## 4-lodo-1H-imidazole dramatically improves the open-circuit voltages of perovskite solar cells to 1.2 V

Jinbiao Jia,\* Beibei Shi, Jia Dong, Zhe Jiang, Shuaibing Guo, Jihuai Wu and Bingqiang Cao\*

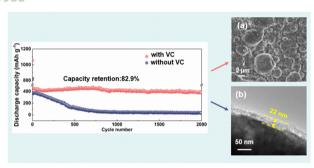




Investigation of Mn and Ca promoter effects in iron-based catalysts: CO hydrogenation reaction

Mahin Jabalameli, Yahya Zamani,\* Sahar Baniyaghoob and Laleh Shirazi

9933



Vinylene carbonate as a highly effective electrolyte additive for Li<sub>3</sub>VO<sub>4</sub> anodes with enhanced electrochemical performance

Miaomiao Zhang, Cunyuan Pei,\* Huijuan Ma, Zhongxu Dai,\* Tao Li, Ting Xiao and Shibing Ni\*