

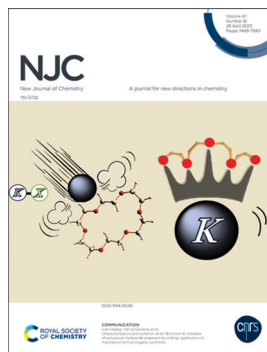
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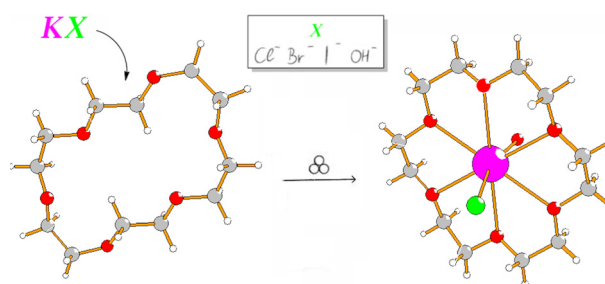
See Ivan Halasz, Hervé Geneste *et al.*, pp. 7466–7469. Image reproduced by permission of Leonarda Vogrin from *New J. Chem.*, 2023, 47, 7466.

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### Characterization and isolation of an 18-crown-6 complex of potassium hydroxide prepared by milling: application to mechanochemical organic synthesis

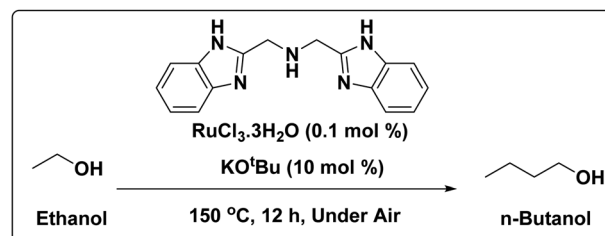
Leonarda Vogrin, Ivan Halasz\* and Hervé Geneste\*



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Mahitha P. M, Nakul S, Naveen V. Kulkarni,\* Balaji R. Jagirdar\* and William D. Jones\*



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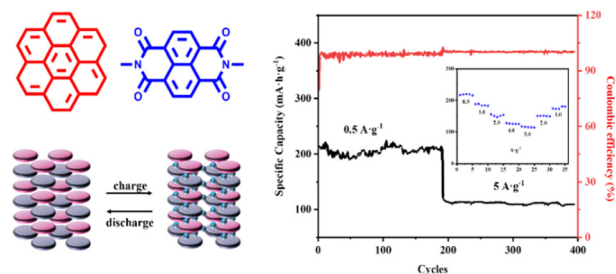


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### Napthalene diimide derivative based organic cocrystal frameworks as cathode electrodes for stable lithium batteries

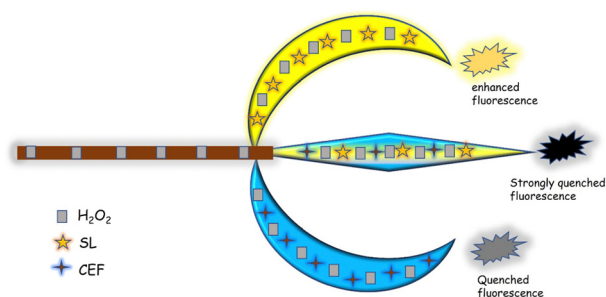
Zihang Zheng, Zhengkun Ju, Shuang Ma, Zhiqi Liu, Wenxin Xiang, Jinqiu Chen, Bo Yang, Zifeng Mu, Jing Zhang,\* Pan Li\* and Peng Sheng\*



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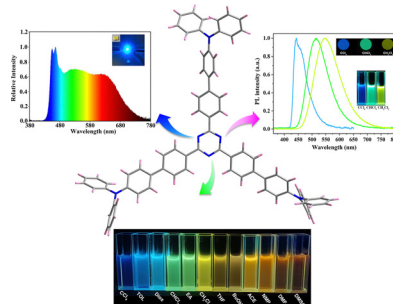
Priyanka Sharma and Mainak Ganguly\*



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### A $\pi$ -stacked pure organic material with room temperature phosphorescence

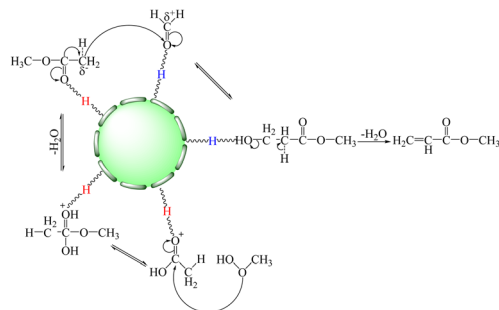
Yunzhe Zhou, Zhonghua Deng, Zhenyu Ji, Ziqing Zhang, Cheng Chen\* and Mingyan Wu\*



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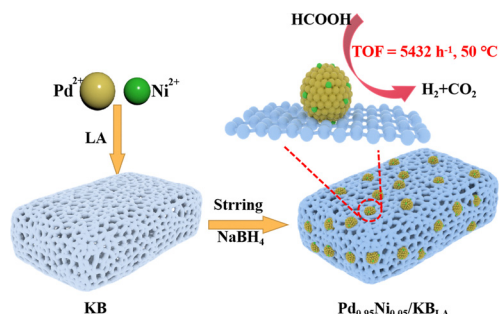
### Continuous production of methyl acrylate and acrylic acid *via* co-activation reaction of aldehyde condensation and esterification catalyzed by siloxane-functionalized vanadium phosphorus oxide-TiO<sub>2</sub> catalyst

Jun Liu, Youjun Yan, Meng Lian, Yongqi Yang, Hongchen Du, Fangfang Liu, Rongkai Pan, Xinzhen Feng\* and Weijie Ji



## COMMUNICATIONS

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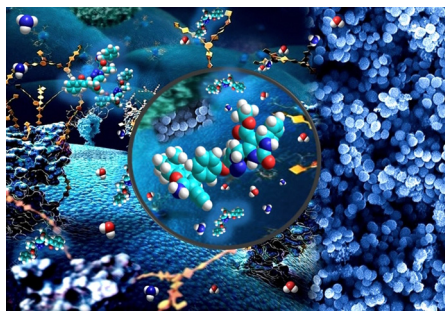


### Improving Pd-C catalysts via heteroatom doping for the dehydrogenation of formic acid: a non-noble-metal modulation strategy

Junhui Wang, Tianyou Zhou, Qiuju Wang,\* Jun Xiang, Shan Zhong, Lianli Zou\* and Xiangqian Shen

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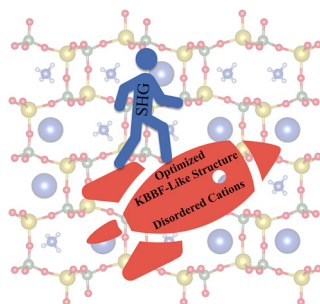
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### Chromene-dihydropyrimidinone and xanthene-dihydropyrimidinone hybrids: design, synthesis, and antibacterial and antibiofilm activities

Samuel J. Santos, Fernanda C. P. Rossatto, Natália S. Jardim, Daiana S. Ávila, Rodrigo Ligabue-Braun, Luiz A. M. Fontoura, Karine R. Zimmer\* and Dennis Russowsky\*

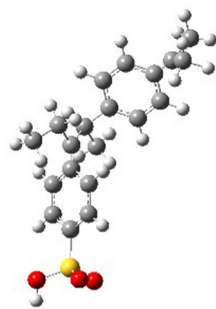
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### Tetrahedron-based deep-ultraviolet nonlinear optical crystal with optimized $\text{KBe}_2\text{BO}_3\text{F}_2$ -like structure and disordered cations

Junxin Xu, Hongyuan Sha, Yanran Shang, Zujian Wang,\* Rongbing Su, Chao He, Xiaoming Yang and Xifa Long

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### Study on the transformation of organic sulfur in cationic exchange resins in a ternary $\text{Li}_2\text{CO}_3$ – $\text{Na}_2\text{CO}_3$ – $\text{K}_2\text{CO}_3$ molten salt system

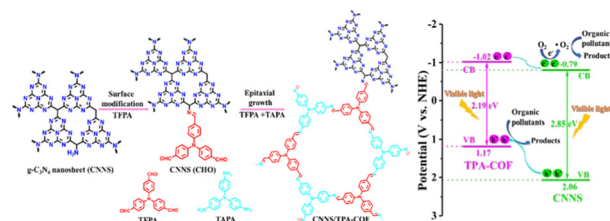
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### Facile fabrication of a visible-light stable metal-free g-C<sub>3</sub>N<sub>4</sub>/COF heterojunction with efficiently enhanced photocatalytic activity

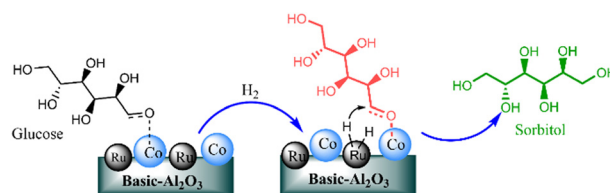
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### Designing an industrially viable bimetallic catalyst for the polyol synthesis

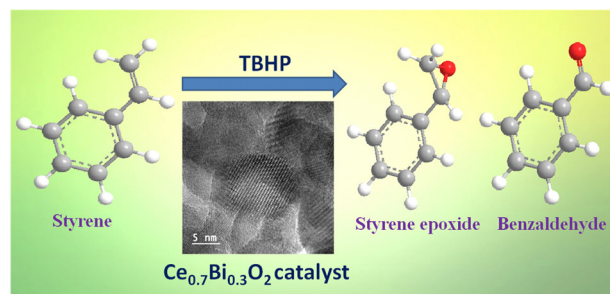
Jyoti R. Kadam, Tufeil Sartaj Khan and Paresh L. Dhepe\*



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### Selective oxidation of styrene over nanostructured cerium–bismuth mixed oxide catalysts

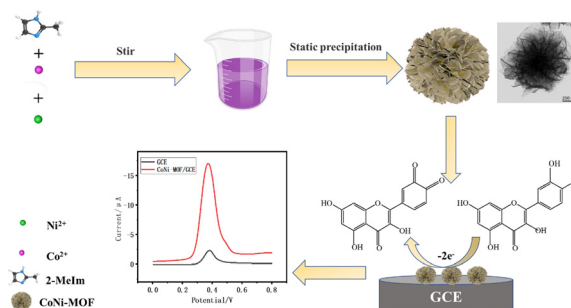
Palli Sitaramulu, Kamma Yogendra, Silligandla Nazeer, Ramineni Kishore, Benjaram M. Reddy and Tumula Venkateshwar Rao\*



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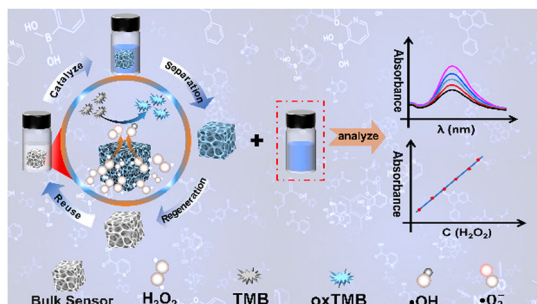
### A 3D flower-like Co/Ni bimetallic organic framework as an excellent material for electrochemical determination of quercetin

Shengbiao Zheng, Tianna Liu, Nini Zhang, Liang Li, Yanli Zhu, Erhui Zhang, Jing Tang\* and Jiahao Guo\*





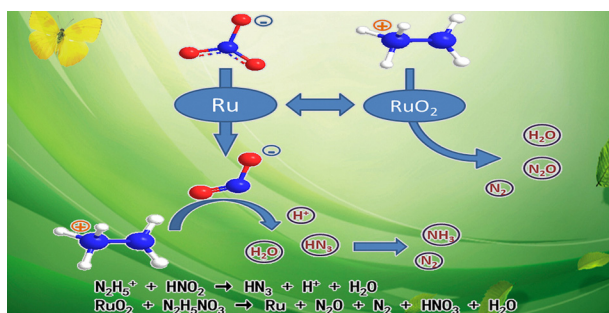
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### Reusable nickel foam supported 3D hierarchical Co–Fe–Ni mixed metal oxides with peroxidase-like activity as biosensors for the colorimetric detection of $\text{H}_2\text{O}_2$

Tao Wu, Fangyuan Liu, Xiangrong Lyu, Fengze Wu, Hui Zhao, Yan Xin, Leixuan Li, Gaochao Fan, Xixi Zhu,\* Qingyun Liu\* and Yan Gao

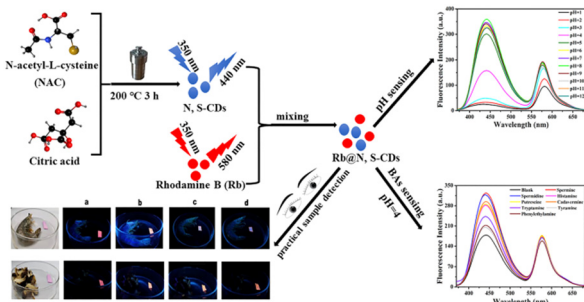
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### The reaction kinetics and mechanism of catalytic decomposition of hydrazine nitrate on Ru/C catalyst in nitric acid solutions

Baole Li,\* Tiansheng He, Chen Zuo, Zhi Cao, Taihong Yan and Weifang Zheng\*

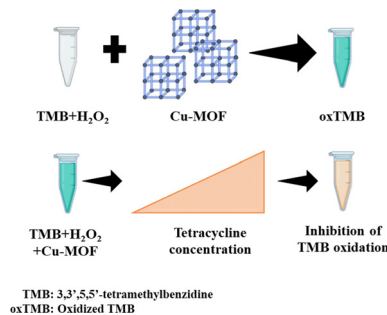
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### Fluorescent filter paper with pH-responsive carbon dots for the on-site detection of biogenic amines in food

Jianfeng Yan, Quanbin Fu, Shikai Zhang, Xianbao Shi, Yuanhong Zhang, Juying Hou, Junling Duan\* and Shiyun Ai\*

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### Controlled synthesis of Cu-MOF possessing peroxidase-mimetic activity for the colorimetric detection of tetracycline in aqueous solution

Monika Nehra, Rajesh Kumar, Neeraj Dilbaghi and Sandeep Kumar\*

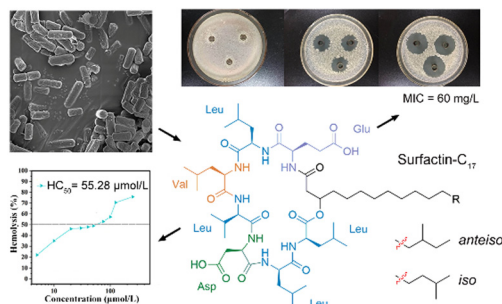


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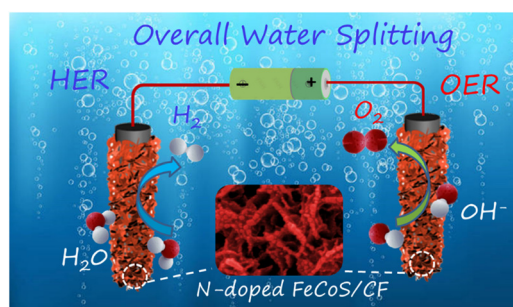
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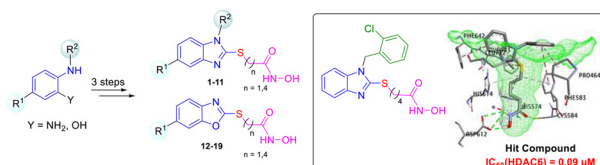
Xiangyu Zhang, Kai Zhao, Hong Li, Yanhui Li, Wenrong Yang,\* Jingquan Liu\* and Da Li\*



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### Novel histone deacetylase 6 inhibitors using benzimidazole as caps for cancer treatment

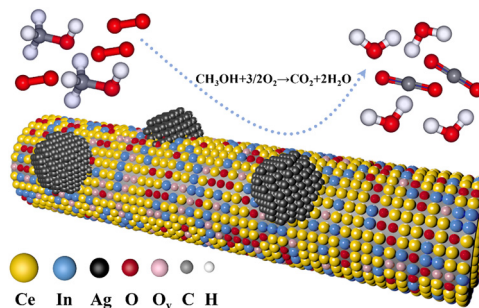
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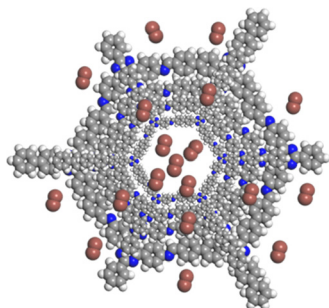
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### Effects of indium doping on methanol deep oxidation over Ag/CeO<sub>2</sub> catalysts

Yongli Xiao, Yongdong Chen,\* Jie Deng, Li Luo, Yue Li and Xinyu Bai



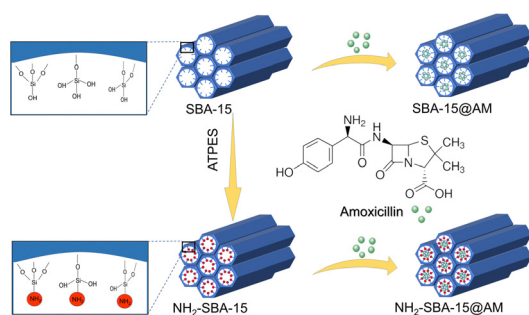
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### Covalent organic frameworks with triazine units for iodine capture *via* weak molecular interactions

Qianyuan Niu, Qingxue Cui, Xutong Meng, Pei Zhang, Yining Zhou, Hao Fu, Baiwei Ma,\* Na Qin\* and Lipeng Zhai

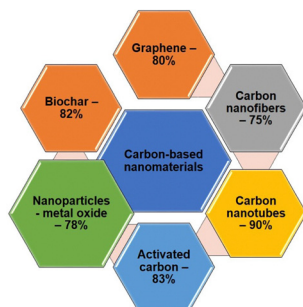
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### Mesoporous silica SBA-15 composite for the delivery of amoxicillin against *S. aureus* skin infection

Qingshuang Wang, Yurui Cui, Wei Ai, Siqi Li, Zhe Zhang and Xiangru Feng\*

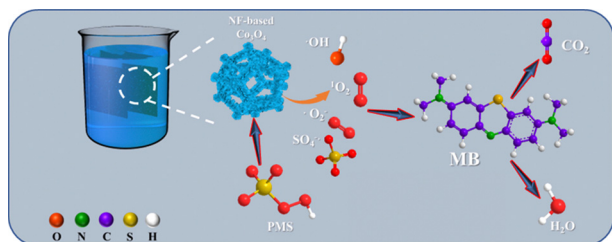
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### Recent advances in carbon-based nanomaterials for the treatment of toxic inorganic pollutants in wastewater

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### Fabrication of a $\text{Co}_3\text{O}_4$ monolithic membrane catalyst as an efficient PMS activator for the removal of methylene blue

Chengkai Zhang, Xiaogang Liao, Xiaoya Wang and Gang Li\*



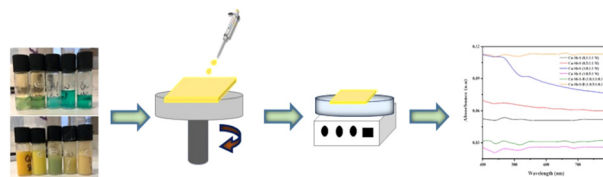


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# The effect of boron doping on the optical, morphological and structural properties of $\text{Cu}_3\text{SbS}_3$ thin films prepared *via* spin coating

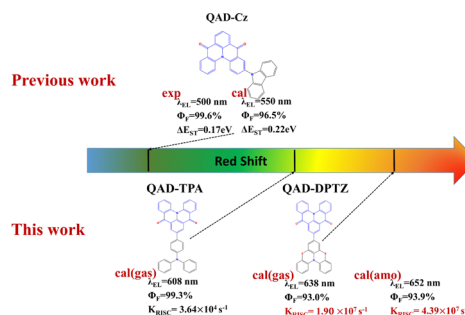
Özlem Yağci,\* Sureyya Aydın Yüksel, Kutsal Bozkurt and Ahmet Altındal



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# Carbonyl (C=O)/N-based thermally activated delayed fluorescent materials with high efficiency and fast reverse intersystem crossing rate: a theoretical design and study

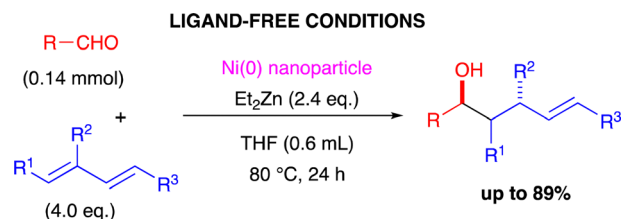
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# Ligand-free reductive coupling of aldehydes with 1,3-dienes using a sulfur-modified Au-supported nickel nanoparticle catalyst

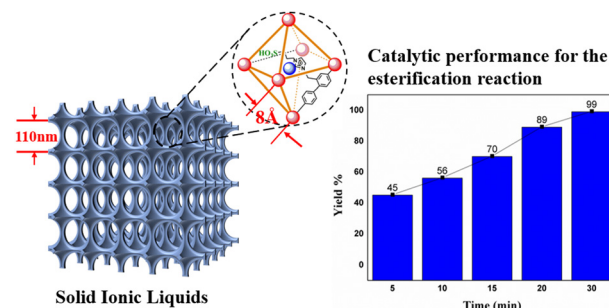
Ryosuke Ohta, Yasunori Shio, Toshiki Akiyama, Makito Yamada, Kazuo Harada and Mitsuhiro Arisawa\*



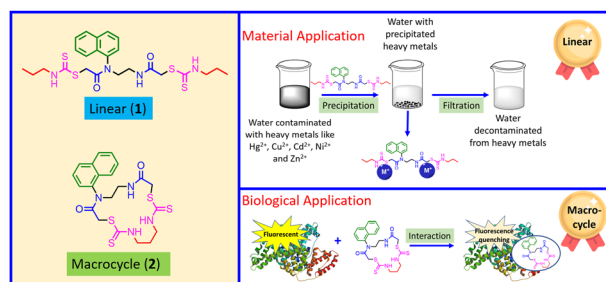
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# Solid ionic liquids with macro-microporous structure for efficient heterogeneous catalysis of biodiesel

Jiao Rong Li, Yu Chen Han, Wen Long Xue, Zhong Feng Li,\* Yu Heng Deng\* and Chong-Qing Wan\*



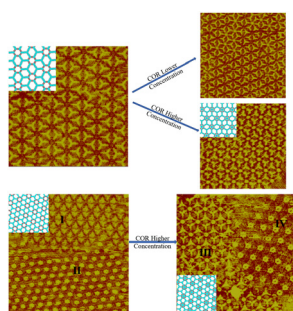
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### Dithiocarbamate-based linear *versus* macrocyclic architecture: comparative studies and applications in protein interaction and heavy metal removal

Liya Thurakkal, Sreelakshmi Vijayakumar, Ayushi Tripathi and Mintu Porel\*

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### Coronene guest molecule selectivity in host templates formed by hydrogen bonding and van der Waals forces at liquid/solid interfaces

Yufei Zhang, Peng Lei, Ting Meng, Ke Deng,\*  
Xunwen Xiao\* and Qingdao Zeng\*

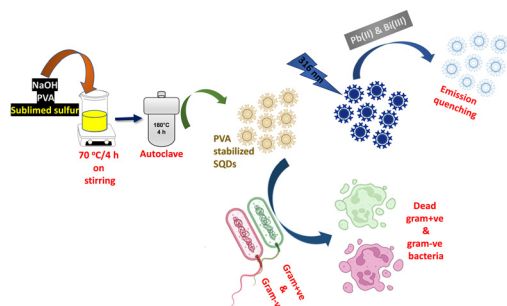
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### A combined UV-visible with fluorescence detection method based on an unlabeled aptamer and AuNPs for the sensitive detection of acetaminophen

Liran Tian, Xiangwei Song, Tianjiao Liu, Anfeng Li,  
Yang Ning, Xiuyi Hua, Deming Dong and Dapeng Liang\*

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### Dual functions of metal ion detection and antibacterial activity of sulfur quantum dots

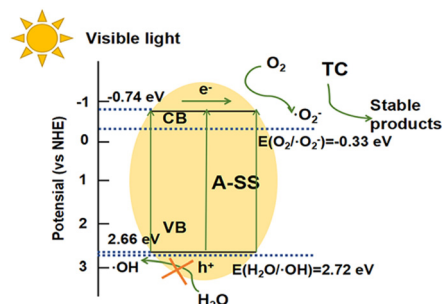
Sai Kumar Tammina, Ruchir Priyadarshi and  
Jong-Whan Rhim\*



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## Reuse of steel slag as a photocatalyst for tetracycline degradation: mechanism of oxygen vacancies

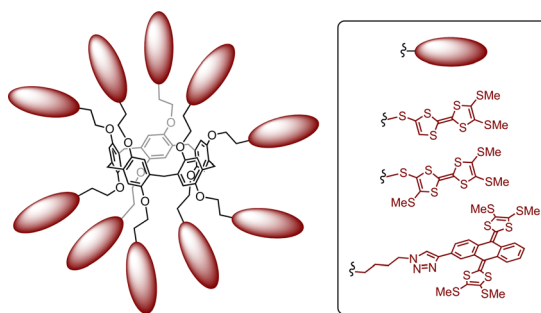
Xin Zhao, Taiyue Chen, Yu Xue and Jiaxiang Liu\*



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## Tetrathiafulvalene and $\pi$ -extended tetrathiafulvalene pillar[5]arene conjugates: synthesis, electrochemistry and host-guest properties

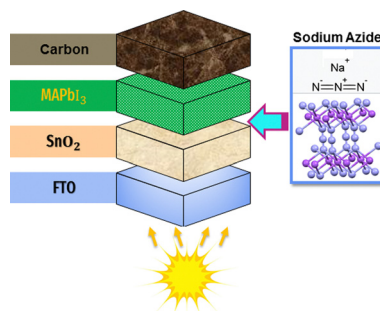
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## Additive engineering with sodium azide material for efficient carbon-based perovskite solar cells

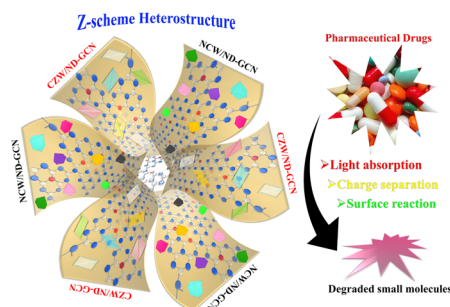
Anjan Kumar,\* M. I. Sayyed, Michael M. Sabugaa, Sangeeta Singh, Juan Carlos Orosco Gavilán and Amit Sharma



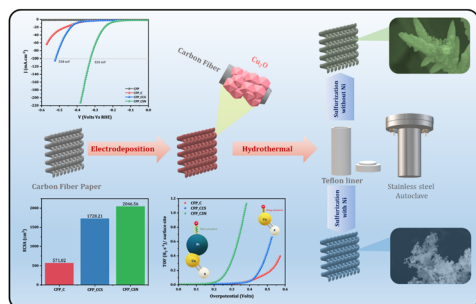
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## Development of Z-scheme bimetallic tungstate-supported nitrogen deficient g-C<sub>3</sub>N<sub>4</sub> heterojunction for the treatment of refractory pharmaceutical pollutants

H. Leelavathi, R. Muralidharan, N. Abirami and R. Arulmozhi\*



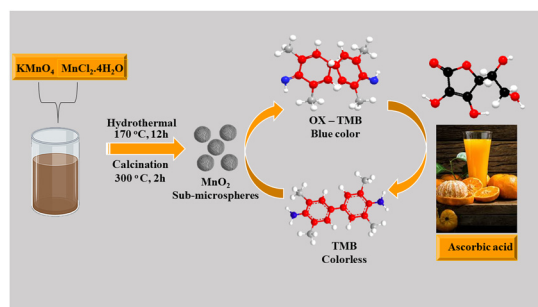
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### A Ni-modified CuS-based self-supported electrocatalyst with nanobead-like porous morphology for efficient hydrogen production in basic media

Vishal V. Burungale, Hyojung Bae, Pratik Mane, An-Na Cha, Sang-Wan Ryu, Soon-Hyung Kang and Jun-Seok Ha\*

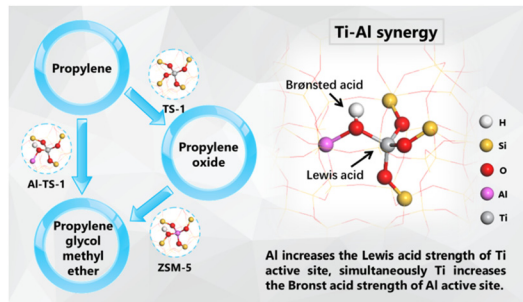
7800



### Synthesis of MnO<sub>2</sub> sub-microspheres with effective oxidase-mimicking nanozymes for the colorimetric assay of ascorbic acid in orange fruits and juice

Ramya D. Isho, Nidhal M. Sher Mohammad\* and Khalid M. Omer\*

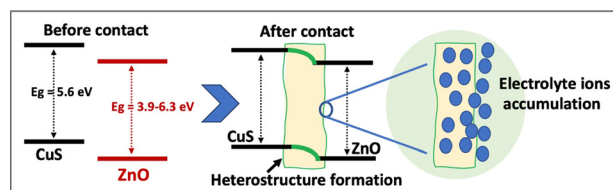
7810



### Direct synthesis of propylene glycol methyl ether from propylene using an Al-TS-1 catalyst: Ti–Al synergy

Yanke Guo, Qiaoyun Qin, Jing Zhu and Baohe Wang\*

7819



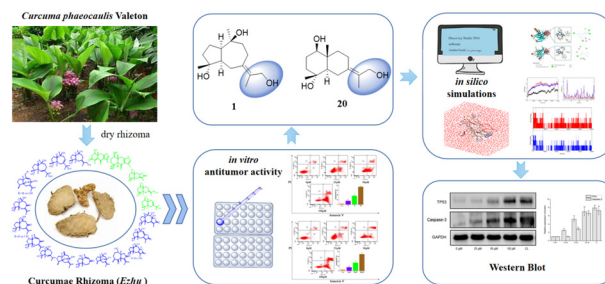
### Boosting the electrochemical performance of ZnO nanomaterials through a conductive CuS matrix for aqueous supercapacitors

Khalida Mubeen, Muhammad Zia Ullah Shah,\* Muhammad Sajjad,\* Afshan Irshad, Zahid Ali, Zainab Zafar and A. Shah\*



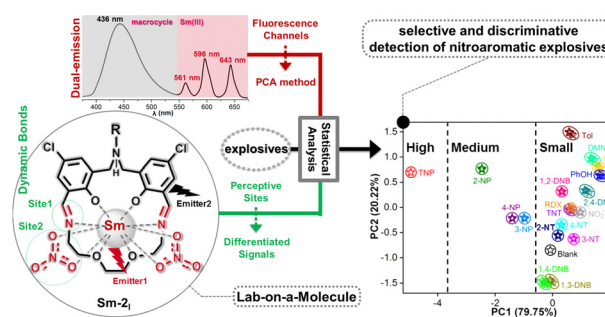
Xiangjian Zhong, Xin Yan, Weirui Liu, Yuxin Tian,  
Ruolan Song, Ying Dong, Xueyang Ren, Yuan Zheng,  
Dongjie Shan, Fang Lv, Xianxian Li, Qingyue Deng,  
Yingyu He, Ruijuan Yuan\* and Gaimei She\*

Xiangjian Zhong, Xin Yan, Weirui Liu, Yuxin Tian,  
Ruolan Song, Ying Dong, Xueyang Ren, Yuan Zheng,  
Dongjie Shan, Fang Lv, Xianxian Li, Qingyue Deng,  
Yingyu He, Ruijuan Yuan\* and Gaimei She\*



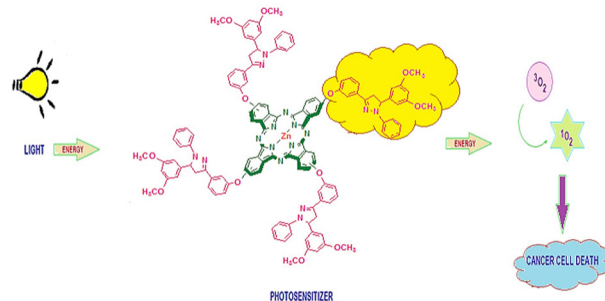
Chengjian Zhang, Ruijie Zheng, Sichen Li, Kang Yang,  
Shengdi Tai, Yinsong Tao, Shishen Zhang and  
Kun Zhang\*

Chengjian Zhang, Ruijie Zheng, Sichen Li, Kang Yang,  
Shengdi Tai, Yinsong Tao, Shishen Zhang and  
Kun Zhang\*



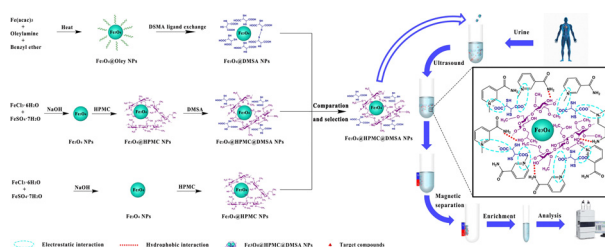
# Peripherally, non-peripherally and axially pyrazoline-fused phthalocyanines: synthesis, aggregation behaviour, fluorescence, singlet oxygen generation, and photodegradation studies

Halise Yalazan, Halit Kantekin\* and Mahmut Durmuş



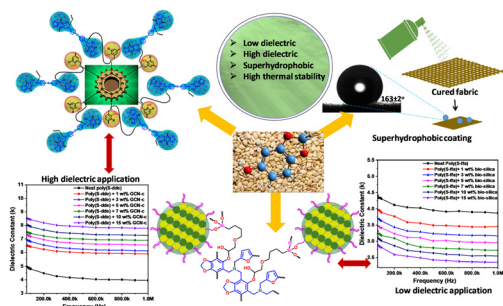
# A novel magnetic fluid for ultra-fast and highly efficient extraction of *N*<sup>1</sup>-methylnicotinamide in urine samples

Zhuhui Chen, Yue Xiong, Ranran Ma, Pei Chen, Le Duan,  
Shuying Yang, Ineza Urujeni Gisèle, Linjun You\* and  
Deli Xiao\*





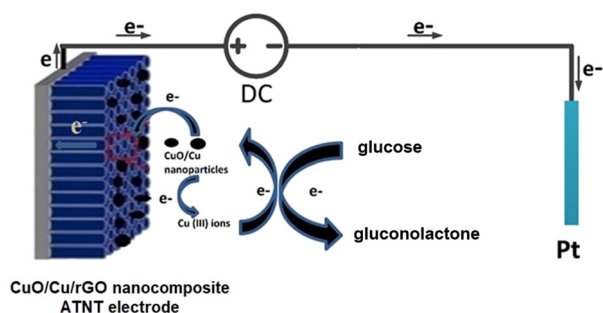
7873



### Sesamol-based polybenzoxazines for ultra-low-*k*, high-*k* and hydrophobic coating applications

Mohamed Mydeen K, Hariharan Arumugam,\*  
Balaji Krishnasamy\* and Alagar Muthukaruppan\*

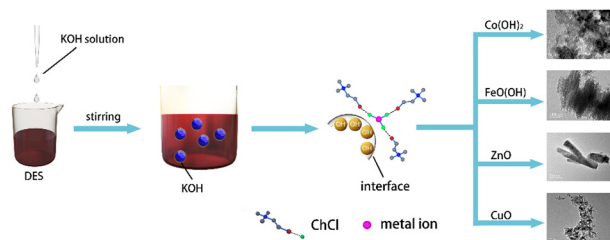
7890



### CuO/Cu/rGO nanocomposite anodic titania nanotubes for boosted non-enzymatic glucose biosensors

Khaled M. Chahrour,\* Poh Choon Ooi,\*  
Ahmed Abdel Nazeer,\* Latifa A. Al-Hajji,  
Peverga R. Jubu, Chang Fu Dee, Mohsen Ahmadipour  
and Azrul Azlan Hamzah\*

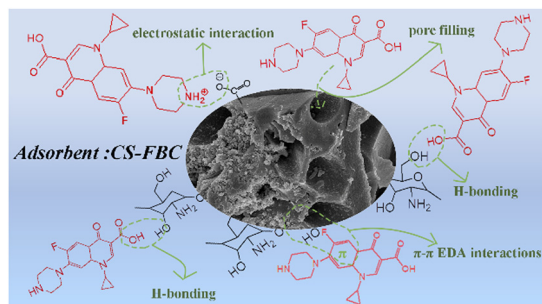
7903



### A novel method for synthesizing one or two-dimensional metal oxide (hydroxide) nanomaterials using deep eutectic solvents

Hanzhang Chen, Wei Jiang, Nana Zhao, Xinyao Zhang,  
Xieli Ma, Hailang Jia, Yan Zhuang and Mingyun Guan\*

7910



### Adsorptive removal of ciprofloxacin by a chitosan modified Fe pretreatment biochar composite from aqueous solution

Ruiyao Huang, Qi Zhu,\* Weixin Wang and Yuhua Hu

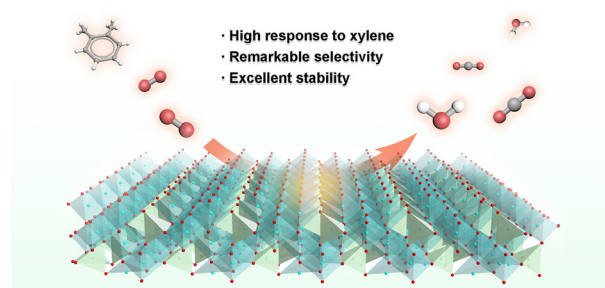


## PAPERS

7922

### Synthesis of $\text{NiGa}_2\text{O}_4$ ultra-thin nanosheets for improved xylene sensing properties and selectivity

Xinhua Tian, Jiayu Li, Qiuju Li,\* Mingcheng Zhang, Xiaoxin Zou, Jiaqi Jia and Guo-Dong Li\*



7930

### Ultralight, super-compression, and hydrophobic nanofibrous aerogels from cellulose acetate/polyethylene oxide nanofibers for efficient and recyclable oil absorption

Lingyun Wu, Liang Gao, JiaMing Li, Tianyu Wu, Dongli Chen, Zhou Manxi\* and Gang Sui\*

