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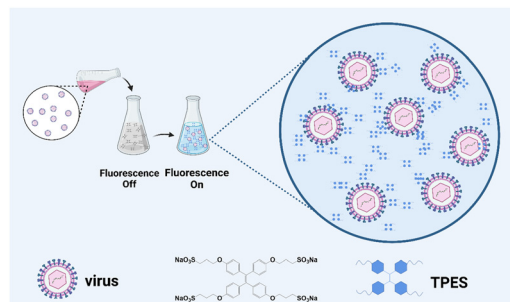
See Rufaro Razuwika and Orde Q. Munro, pp. 4229–4244. Image reproduced by permission of Orde Q. Munro from *New J. Chem.*, 2024, **48**, 4229.

COMMUNICATIONS

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A heparan sulfate proteoglycan-mimicking AIE fluorescent probe for SARS-CoV-2 detection

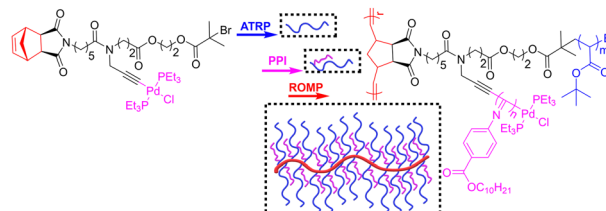
Fang Liu, Yue Huang, Yutong Li, Yongcheng Chen, Qiao Jin* and Jian Ji*



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Synthesis of branched bottlebrushes by the combination of ATRP, Pd(III)-initiated isocyanide polymerization, and ROMP

Benfa Chu* and Hui Zou*



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Elemental answers

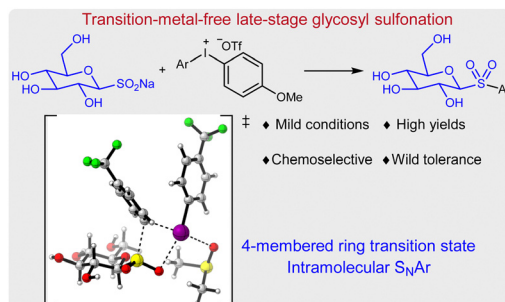


COMMUNICATIONS

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Transition-metal-free glycosyl sulfonation of diaryliodonium salts with sodium glycosyl sulfinate: an efficient approach to access glycosyl aryl sulfones

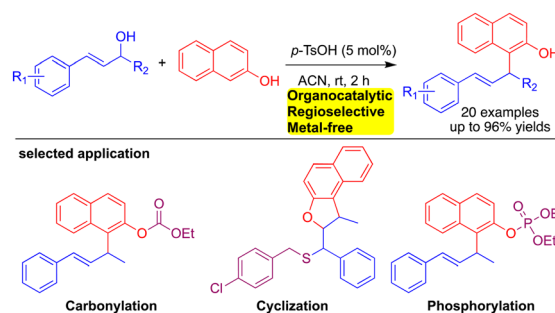
Jiaxin Luo, Xinyu Chen, Wenyan Ding, Jialu Ma, Zhaohui Ni, Lihuang Xie and Chunfa Xu*



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Catalytic, regioselective Friedel–Crafts alkylation of beta-naphthol

Jeffrey Ash, Emarose Ahmed, Ngantu Le, Hai Huang and Jun Yong Kang*

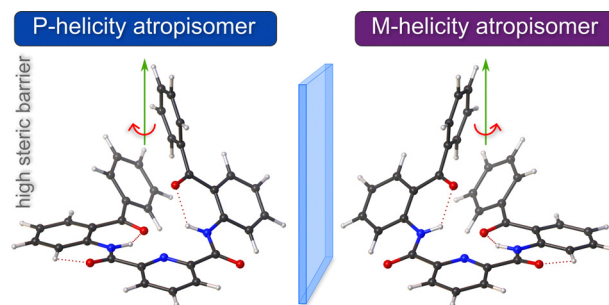


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Synthesis and characterization of C_2 -symmetric bis(carboxamide) pincer ligands

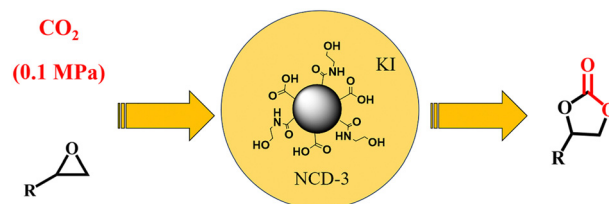
Rufaro Razuwika* and Orde Q. Munro



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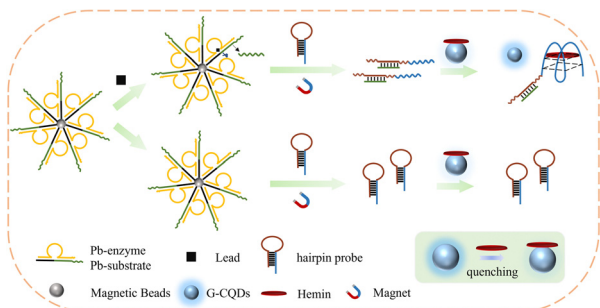
Nitrogen-doped carbon dots as acid–base bifunctional and efficient catalysts for the cycloaddition of CO_2 with epoxides

Jinfa Yu and Xiangying Sun*



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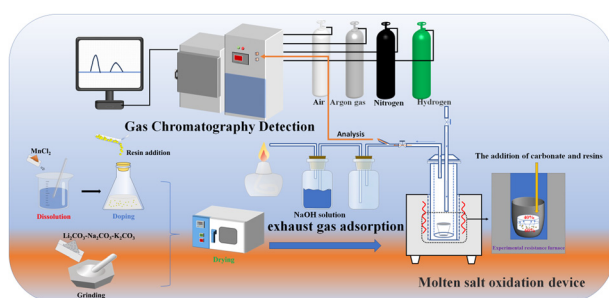
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A fluorescent DNAzyme-based biosensor for the detection of lead ions using carbon quantum dots prepared from grapefruit peel

Wei qin Zhao, Chun Huang, Youyu Zhu, Yuangang Li, Yingfeng Duan and Jie Gao*

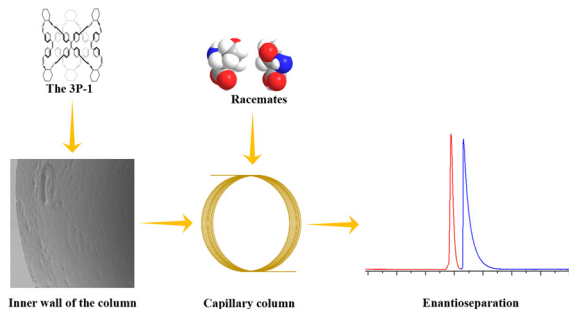
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Catalytic behavior of Mn during molten salt oxidation of cationic exchange resins in Li₂CO₃-Na₂CO₃-K₂CO₃ melt

Baoren Pan, Qingguo Zhang, Yongde Yan,* Xin Liu, Yun Xue, Fuqiu Ma, Yuelin Wang, Meng Zhang, Jingping Wang* and Milin Zhang

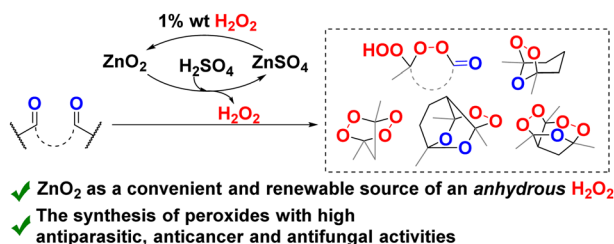
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A chiral emissive porous organic cage used for high-resolution gas chromatography separations

Zhen Wang, Wei Wang, Bo Tang, Liquan Sun, Fulai Zhang and Aiqin Luo*

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Zinc peroxide as a convenient and recyclable source of anhydrous hydrogen peroxide and its application in the peroxidation of carbonyls

Peter S. Radulov, Alexey A. Mikhaylov, Alexander G. Medvedev, Yana A. Barseganyan, Evgeny S. Belyaev, Victoria E. Dmitrieva, Tatyana A. Tripol'skaya, Elena A. Mel'nik, Vera A. Vil', Ivan A. Yaremenko, Petr V. Prihodchenko* and Alexander O. Terent'ev*

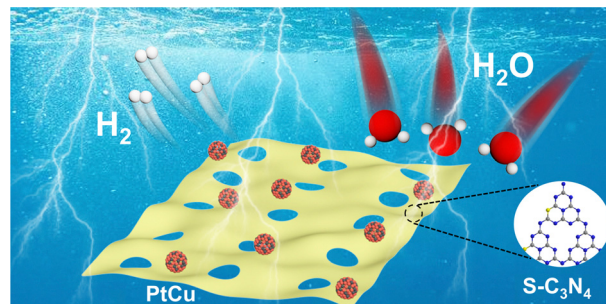


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PtCu nanoalloy loaded on sulfur-doped porous g-C₃N₄ for electrocatalytic hydrogen evolution

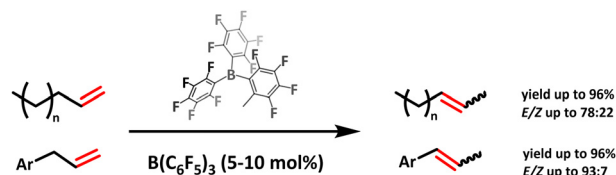
Can Chang, Jicheng Wu, Dandan Wu,* Guojian Jiang,* Xiaowei Xu and Shufang Chang



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B(C₆F₅)₃-catalysed isomerization of terminal olefins

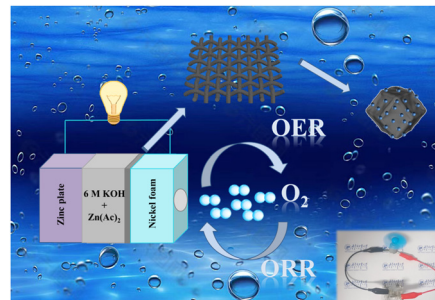
He Wang, Fanwei Meng and Xin Tao*



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ZIF-67-derived Se-doped CoSe₂ grown on carbon nanofibers as oxygen electrocatalysts for rechargeable Zn–air batteries

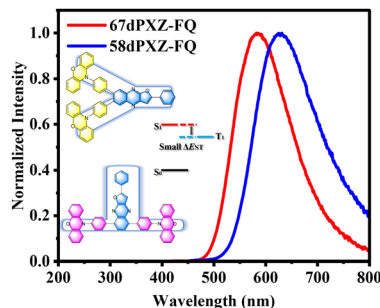
Wenjing Cui, Shaoshuai Xu, Jie Bai, Chunping Li and Xingwei Sun*



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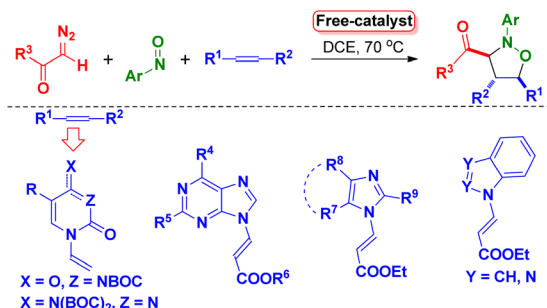
The effect of molecular configuration and donor on the photophysical properties of 2-phenylfuro[2,3-*b*]quinoxaline based emitters

MingXin Wu, ChuanMing Wu, BoHua Zhang, MeiTing Luo, Lei Gou* and DongDong Wang*



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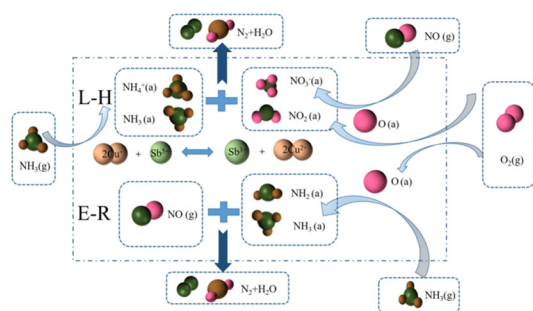
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Catalyst- and additive-free three-component construction of isoxazolidinyl nucleosides and azoles via 1,3-dipolar cycloaddition

Xinyufei Yuan, Hang Gao, Xing Li,* Qin Zhang, Wenwen Chen* and Hui Wang*

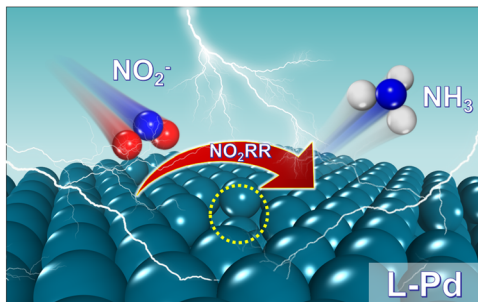
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Reasonably designed CuSbTiO_x series catalysts with high NH₃-SCR activity and obviously improved SO₂ tolerance

Jiali Zhang, Zhen Yan, Yanke Yu* and Yanpeng Li*

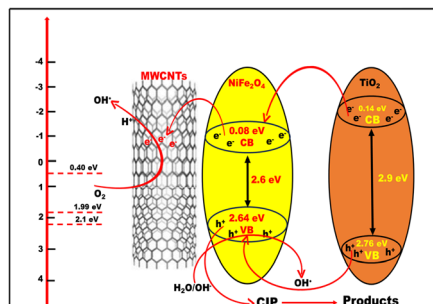
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Low-coordinated Pd metallene promotes the electrochemical reduction of nitrite to ammonia

Wenhuan Qu,* Tingting Wu, Jingxuan Wang, Xiaoxu Liu, Ye Tian and Ke Chu*

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Visible light-driven cubic structured NiFe₂O₄@MWCNTs/TiO₂ ternary nanocomposite for photocatalytic degradation of ciprofloxacin

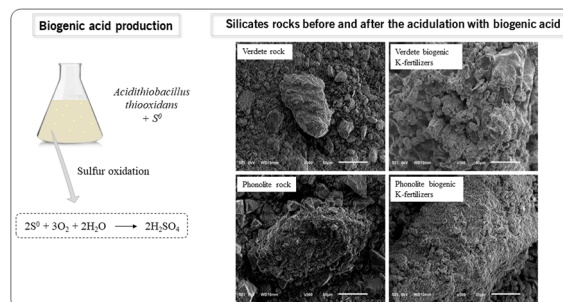
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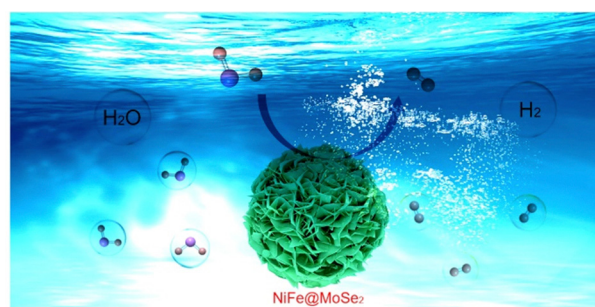
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Tailoring the electronic environment of MoSe₂ via cation metal doping for the enhanced alkaline hydrogen evolution reaction

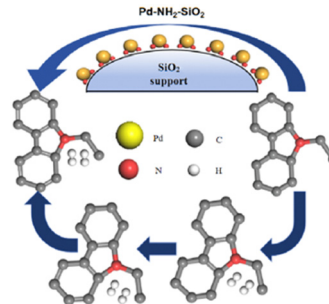
Saman Sajjad, Jiawei Ke, Tianheng Du, Jiabo Wang, Lifang Zhang, Yufei Li, Bin He, Tongfei Li,* Tao Qian and Chenglin Yan*



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Highly dispersed Pd nanoparticles on a SiO₂ support for dehydrogenation of dodecahydro-*N*-ethylcarbazole

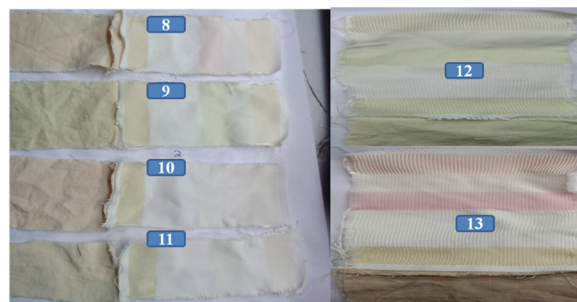
Monan Shi, Chunying Zhang, Mengnan Ma, Chen Zhang* and Long Huang*



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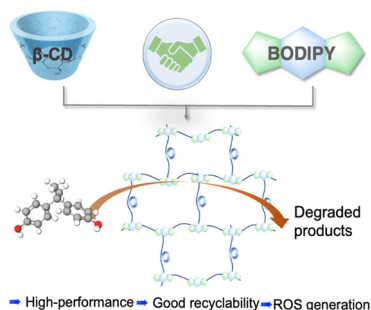
Synthesis, dyeing performance and evaluation of the antimicrobial and antioxidant activities of azo dye derivatives incorporated with 1,3,4-thiadiazole combined with *in silico* computational studies

Kibrom Mezgebe, Yadessa Melaku, Venkatesha Perumal Ramachandran and Endale Mulugeta*

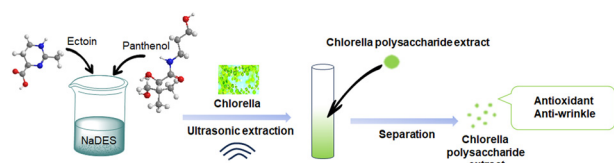


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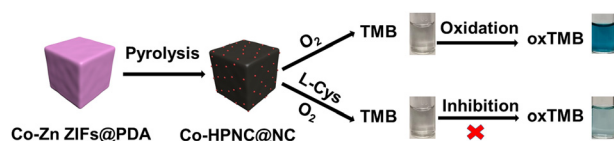
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 **β -CD-decorated BODIPY-based porous polymers for improved photodegradation**Xin Wang, Wuzi Zhao, Shiyuan Zhou, Peiyang Gu,*
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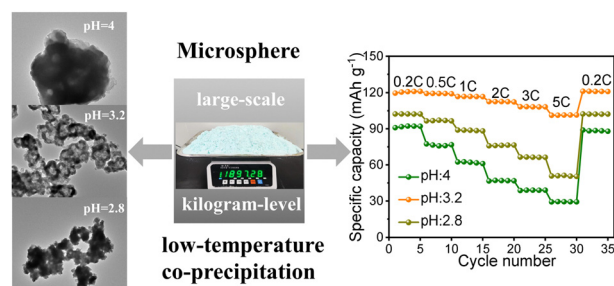
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**Ultrasound-assisted green and efficient extraction of polysaccharides from *Chlorella vulgaris* using deep eutectic solvents and improving their performance**Beibei Lu, Hui Hu, Guangzhen Yang, Ming Pan,*
Youdi Wang, Jichuan Zhang, Jianglin Zhang* and
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**Polydopamine-coated bimetallic ZIF derivatives as a H_2O_2 -free oxidase mimetic for the colorimetric sensing of L-cysteine**Ran Zhang, Shaohong Zhang, Junhao Lu, Ying Wu,
Jinjin Zhao and Zhijuan Wang*

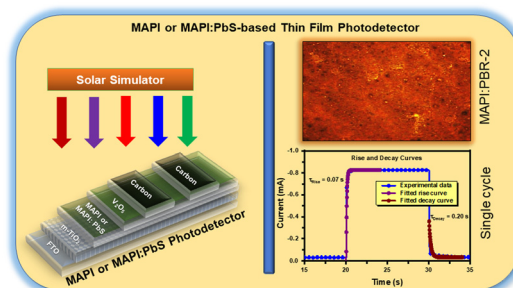
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**pH-manipulated large-scale synthesis of $\text{Na}_3(\text{VOPO}_4)_2\text{F}$ at low temperature for practical application in sodium ion batteries**Lianjie Li, Junjie Fan, Hao Chen, Hui Liu, Qiulin Li,
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High-performance $\text{CH}_3\text{NH}_3\text{PbI}_3:\text{PbS}$ nanorod-based photodetectors fabricated using a slot die technique

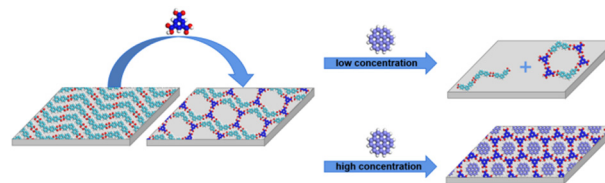
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Scanning tunneling microscopy study of [1,1:3,1''-terphenyl]-4,4''-dicarboxylic acid on HOPG

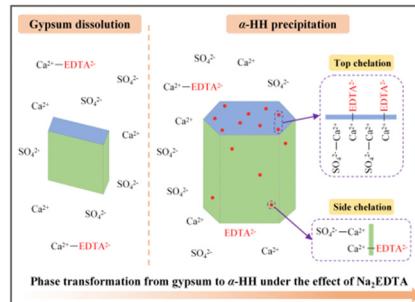
Siqi Li, Xuan Peng,* WenChao Zhai, XiaoLing Chen, Ke Deng* and Wei Li*



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Simultaneous effect of Na_2EDTA on the phase transformation and morphology evolution during the transformation of gypsum into α -calcium sulfate hemihydrate

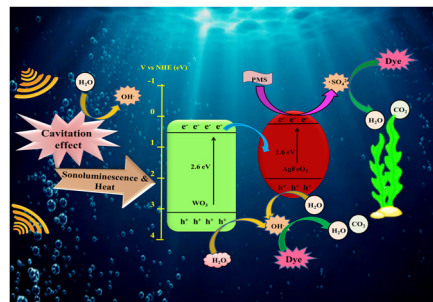
Anni Xiao, Caiyun Jia,* Xiaoxia Fang, Jiang Zhao and Haijun Zhang*



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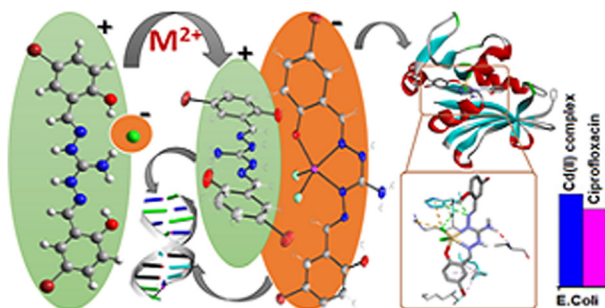
Preparation of a silver ferrite-assisted tungsten oxide nanocomposite for efficient sonocatalytic degradation of organic pollutants activated by PMS followed by toxicity evaluation

Romiyo Justinabraham, Arulappan Durairaj and Samuel Vasanthkumar*



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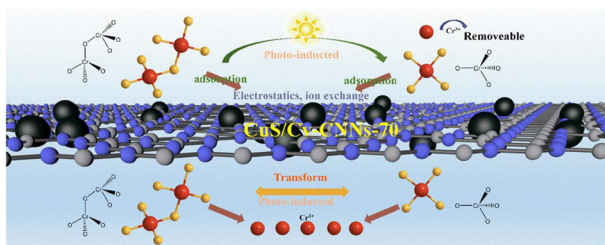
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An all-rounder aminoguanidine based ligand, its unusual anionic zinc(II) and cadmium(II) coordination complexes and their biological implications

Ansa Santu, K. K. Mohammed Hashim and E. Manoj*

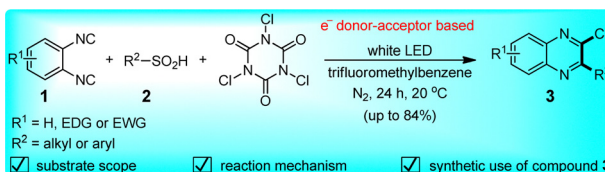
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Synergistic purification of chromium-containing wastewater via adsorption-photocatalysis induced by multiple defect-containing CuS/Cv-CNNs

Luhua Wang, Yi Ren, Hongfang Zhao, Hongxia Li, Xiaohui Niu, Deyi Zhang, Haiyan Fan and Kunjie Wang*

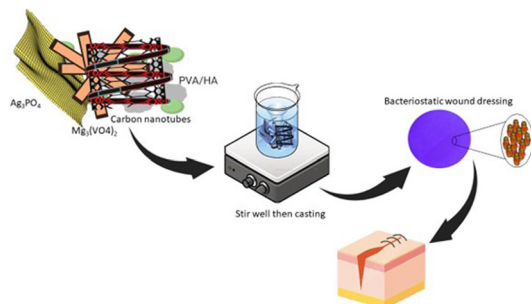
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Convenient synthesis of 2-chloro-3-substituted quinoxalines by visible-light-induced radical cascade cyclization of *ortho*-diisocyanoarenes with sulfinic acids

Palani Natarajan,* Partigya and Meena

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Development of wound healing scaffolds based on polymeric blends of polyvinyl alcohol and hyaluronic acid doped with super antibacterials of silver phosphate with magnesium vanadate

Hawra A. Alghasham

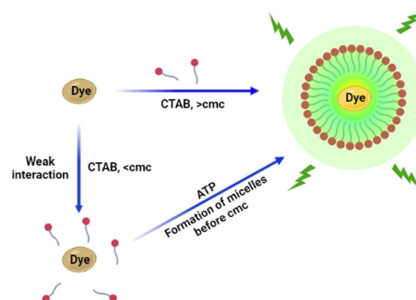


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A cationic detergent based dye supramolecular assembly as a unique turn-on probe for ATP quantification

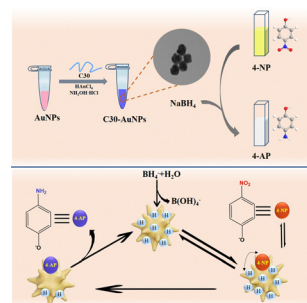
Fazil Fakhrul Hasan, Padma Nilaya Jonnalagadda, Trilochan Gadly and Goutam Chakraborty*



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Facile synthesis of C30-AuNPs for the effective catalytic reduction of nitrophenols and azo dyes

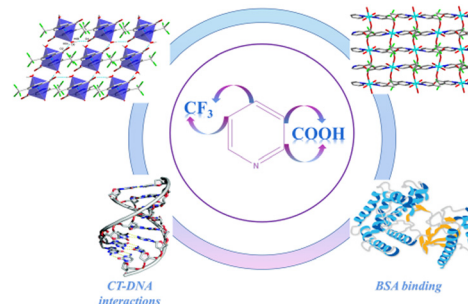
Weizhen Sun, Luyao Zang, Xia Zhang, Chenqi Zhang, Zhiqing Zhang, Xiufeng Wang, Guodong Zhang, Fang Wang and Ting Zhou*



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Trifluoromethyl-pyridine carboxylic acid Zn(II) complexes: isomeric effects on coordination and biological activity

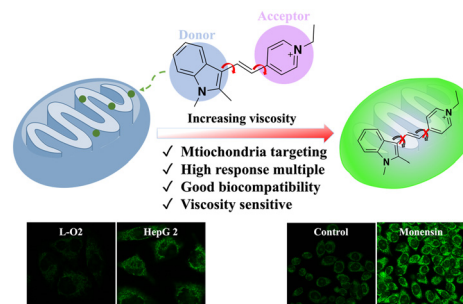
Xiaoshuang Zhu, Yanhong Yang, Bing Li,* Jiawei Liang, Shoufeng Fu, Hongyan Wu, Jiaying He and Xiaoyan Chen



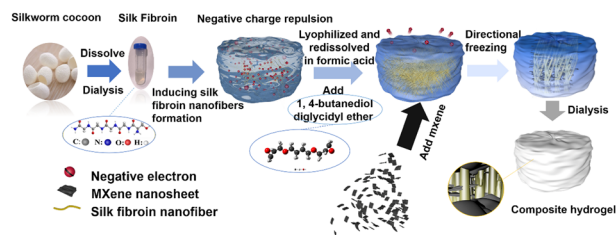
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A mitochondria-targeted fluorescent probe with viscosity sensitivity to distinguish between normal and cancer cells

Langdi Zhang, Guofang Li, Hua Zheng and Weiyang Lin*



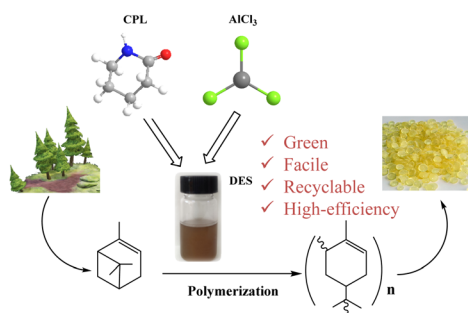
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An oriented MXene/silk fibroin nanofiber hydrogel with high strength and strain response ability

Nana Li, Yuncong Yang, Balaji Murugesan, Yong Zhang, Zhuo Chen, Xiaogang Yang and Yurong Cai*

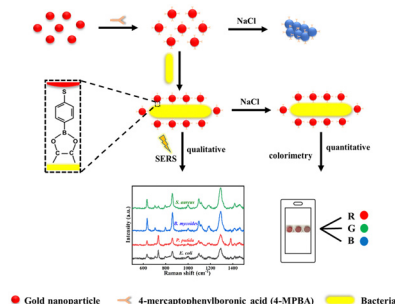
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Polymerization of α -pinene catalyzed by Lewis acidic deep eutectic solvents

Ningning Ji, Fengli Yu,* Bing Yuan, Congxia Xie and Shitao Yu

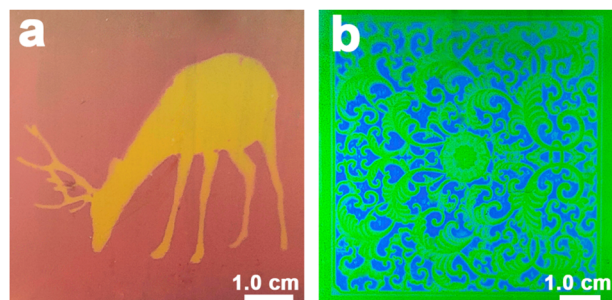
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A novel SERS and colorimetry synergistic strategy for rapid bacterial detection

Wei Wang, Guanwen Su, Yue Liu, Han Peng, Yulin Hou, Jie Zhang* and Leping Dang*

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Structural coloured epoxy resin patterns prepared using thermochromic epoxy liquid crystal mixtures

Yongxing Guo, Jinghua Zhao, Limin Wu,* Wei Liu, Yi Li and Yonggang Yang*

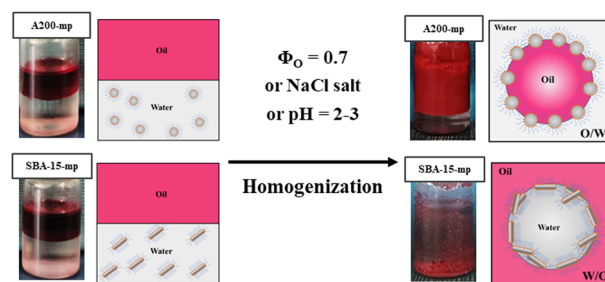


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Physicochemical properties of functionalized A200 and SBA-15 nanoparticles with enhanced amphiphilicity for Pickering emulsions

Ting Pan, Jiliang Zhang, Shuya Zhang, Xia Han* and Honglai Liu



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Synthesis of glycerol carbonate using Li/Mg/K modified zeolite beta: a kinetic study

Priyanka Gautam, Sanghamitra Barman* and Amjad Ali*

