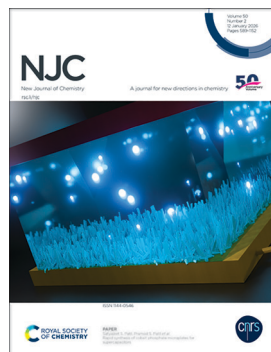


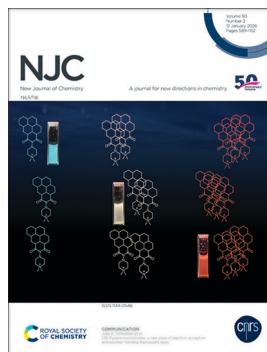
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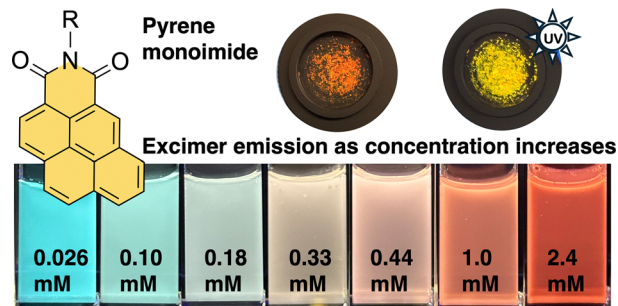
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COMMUNICATION

606

1,10-Pyrene-monoimides: a new class of electron acceptors and excimer-forming fluorescent dyes

Stephanie Diaz Feeney, Adeliene Shanahan and Julia A. Schneider*

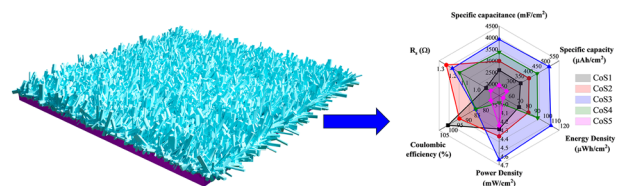


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Rapid synthesis of cobalt phosphate microplates for supercapacitors

Satyajeet S. Patil, Annapurna T. Paroji, Akhilesh P. Patil, Rahul S. Redekar, Minaj M. Faras, Shweta M. Pawar, Nilesh L. Tarwal and Pramod S. Patil*



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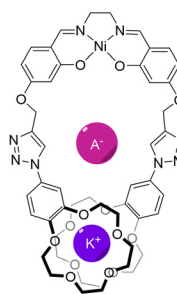


PAPERS

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Synthesis of halogen bonding and crown ether-functionalised Ni(II)-salen receptors for cation, anion and ion-pair recognition

Jamie T. Wilmore, Andrew Docker and Paul D. Beer*

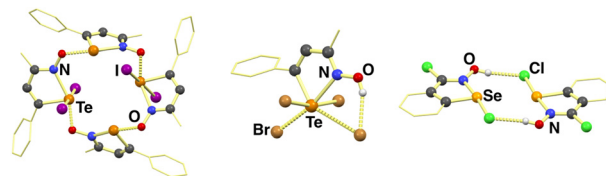


- ✓ Neutral Ni(II) salen complexes with cation and anion recognition sites.
- ✓ Binding of catalytically relevant anions in proximity to metal centre.
- ✓ Cation binding-induced conformational shifts.
- ✓ Potential for future catalyst development.

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Experimental and computational investigations of the products of halogenation of 1,2-chalcogenazole 2-oxides

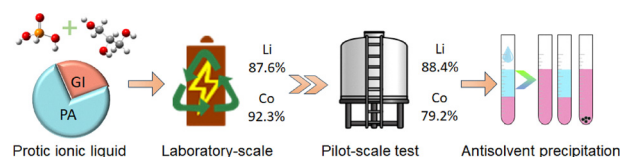
Phillip L. MacDougall, Mich W. Zeng, Jin Z. Wang, Peter C. Ho and Ignacio Vargas-Baca*



636

Lab-scale to pilot-scale framework for lithium-ion batteries cathode recovery using protic ionic liquids as green solvents

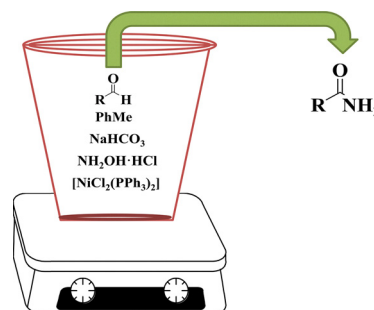
Xuemin Jing,* Pengli Zhang, Jingfa Yang, Congsheng Guo, Weixiang Zhou, Tongtong Yang, Ziheng Dai and Yu Chen*



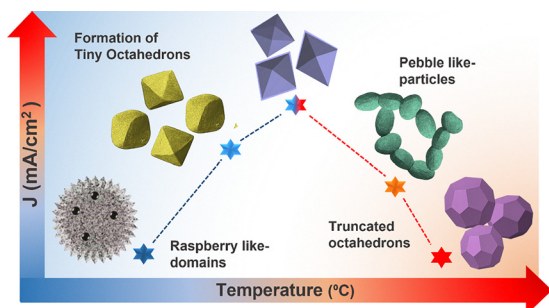
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Nickel-catalyzed rearrangement of aldoximes or aldehyde into primary amides

Neelakandan Devika,* Bellie Sundaram Krishnamoorthy and Nandhagopal Raja*



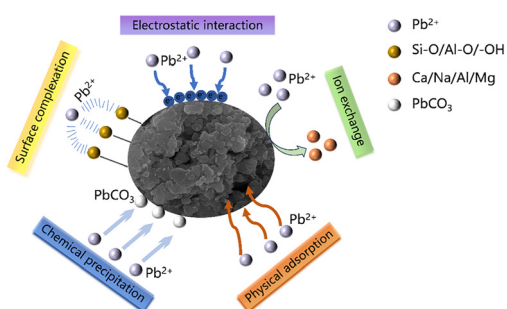
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Temperature effects on size and morphology controlled NiO nanomaterials and their electrocatalytic activity in methanol oxidation reactions

A. Catherine Swetha and Arumugam Murugadoss*

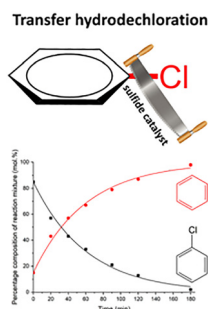
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Magnetically recoverable fly ash-based adsorbents for high-efficiency Pb(II) removal: performance and mechanism

Xiaoqing Zhu, Yongliang Chen,* Aojun Li, Masud Hassan, Yanju Liu and Tiejun Chen

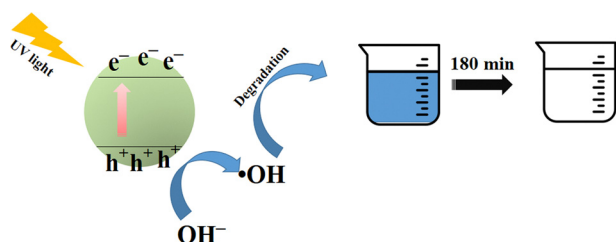
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Hydrogen transfer reactions in the presence of (Ni, Co)Mo-sulfide catalysts as an effective tool for hydrodechlorination: the role of the nature of lower alcohols

Alexander Romanov,* Nikolai Nesterov, Vera Pakharukova, Igor Prosvirin, Anna Salomatina, Oleg Klimov and Oleg Martyanov

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Mn-, Co-, Cu-, and Cd-substituted $\text{Ti}_2(\text{PO}_4)_3$ nanoparticles: optical, magnetic, and photocatalytic properties

Mehdi Rahbar,* Tahereh Barazandeh Behrooz, Shayma Muhammed Ahmed and Hossein Khojasteh*

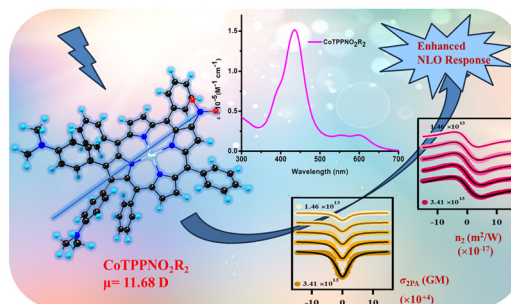


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Synthesis and characterization of unsymmetrical β -functionalized push–pull porphyrins: photophysical, electrochemical, and nonlinear optical (NLO) studies

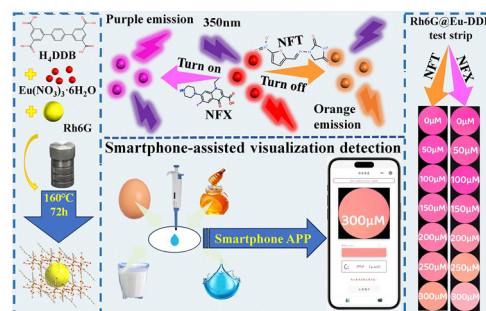
Rohit, Albin Kuriakose, G. Vijaya Prakash* and Muniappan Sankar*



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Dual-functional Rh6g@Eu-DDB as a fluorescence-enhanced ratiometric sensor for norfloxacin and a fluorescence turn-off sensor for nitrofurantoin in water and food samples

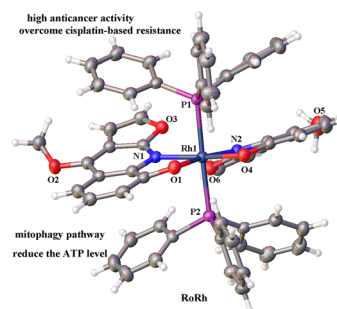
Zhi-Yong Chen, Bing Liu,* Zi-Hao Xue, Yu-Lin Zhu and Ling Xu*



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Designing mitophagy-targeted robustine- and 4-acridinol-rhodium(III) coordination compounds to overcome cisplatin resistance in A549/DDP lung cancer cells

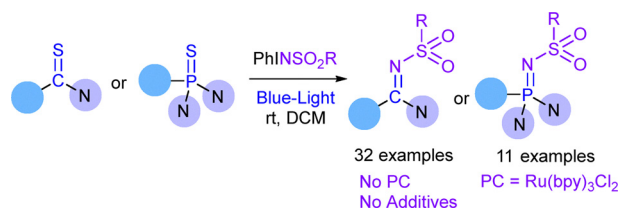
Tai-ming Shao, Hai-Xia Liao, Qiu-Ming Li, Ming-Xiong Tan,* Chun-Jie Liang,* Hong Liang and Qi-Pin Qin*



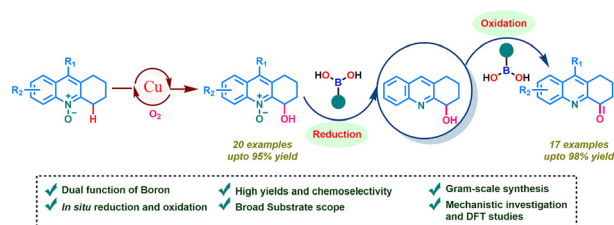
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Blue-light assisted transformation of C=S and P=S bonds of thioamides and thiophosphonyl diamides into C=N and P=N bonds of *N*-sulfonyl amidines via interaction with iminoiodinanes

Vladimir G. Ilkin,* Pavel S. Silaichev, Valery O. Filimonov, Alexey V. Nikulin, Nikolai A. Beliaev, Tetyana V. Beryozkina, Pavel A. Slepukhin, Wim Dehaen and Vasilii A. Bakulev*



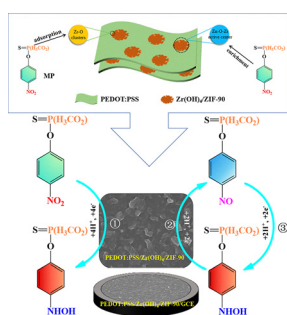
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Boric/boronic acid-promoted redox transformation of 4-hydroxy-1,2,3,4-tetrahydroacridine *N*-oxides to functionalized 2,3-dihydroacridin-4(1*H*)-ones and mechanistic studies using DFT calculations

Subir Majhi, Thangellapally Shirisha, Suman Das, Mohmmad Faizan, Ravinder Pawar* and Dhurke Kashinath*

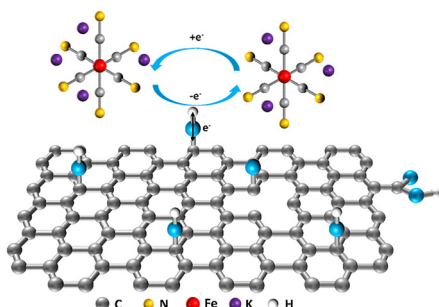
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Efficient electrochemical sensing of methyl parathion residues using a PEDOT:PSS/Zr(OH)₄/ZIF-90 composite

Huanjing Chen, Wanqiao Bai,* Hongmei Chai and Loujun Gao*

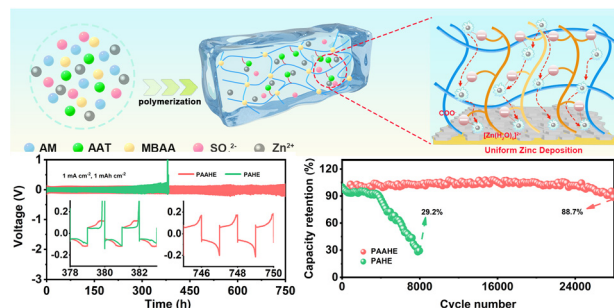
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Electrocatalysis for K₃[Fe(CN)₆]/K₄[Fe(CN)₆] reaction of graphite felt with functional groups in flow batteries

Hanyu Li, Shaowen Tan, Xin Zheng, Fangcheng Qiu, Bowen Chen, Siyi Chen, Xue Han and Shengping Wang*

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An ammonium acetate-modulated gel electrolyte induces uniform zinc deposition for long-term cycling of zinc-ion hybrid supercapacitors

Chunjiang Jin,* Xinglei He, Changwang Pan, Congcong Yang* and Wentong Chen*

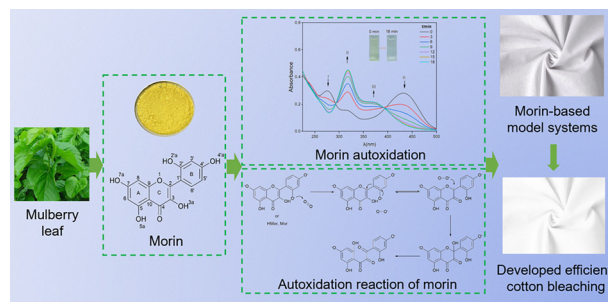


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The prone-to-autoxidation nature of morin in alkaline media: mechanisms, kinetics, and implications for cotton bleaching studies

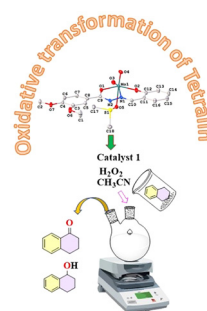
Yuxin Zheng, Yang Jiang, Jinmei Du, Zhonglin Xiang, Xiaoyan Wang* and Changhai Xu*



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Catalytic oxidation of tetralin by dioxomolybdenum complexes: design, synthesis, characterization and DFT investigations

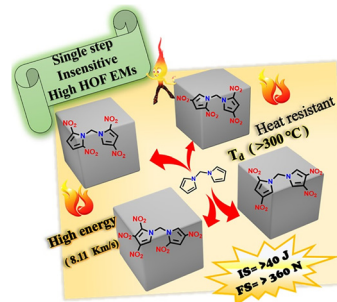
Nafisa, Lata Rana* and Kuldeep Mahiya



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Single-step nitration of *N,N'*-bispyrrolylmethane: polynitro derivatives as insensitive energetic materials

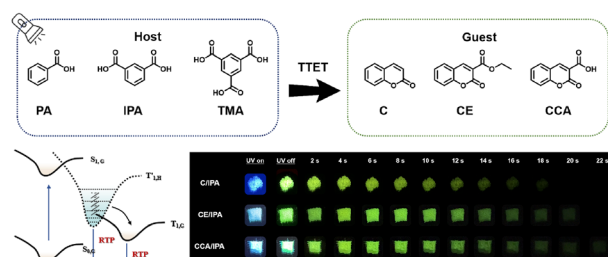
V. Shanmugapriya and Pradeepta K. Panda*



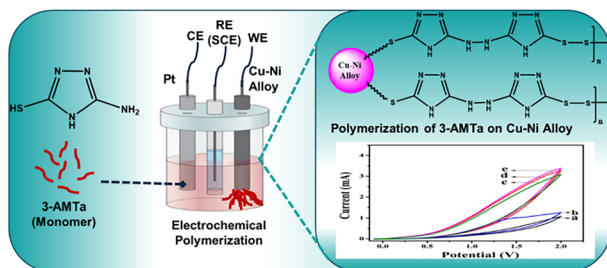
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Efficient triplet–triplet energy transfer that activates room-temperature phosphorescence of coumarin guests

Mingyue Dong, Hua Feng, Wanjuan Gao, Dan Li*, Fushun Liang,* Lili Wen and Zhongmin Su*



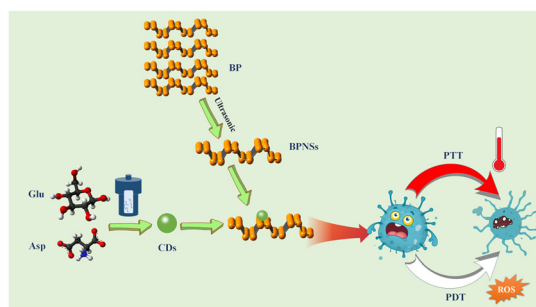
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Synergistic effects of inorganic oxides on poly(3-amino-5-mercapto-1,2,4-triazole) electropolymerized films for the corrosion inhibition of Cu–Ni (90/10) alloys in an aqueous sodium chloride medium

T. Srinivasan, J. Balaji, G. Rajkumar and M. G. Sethuraman*

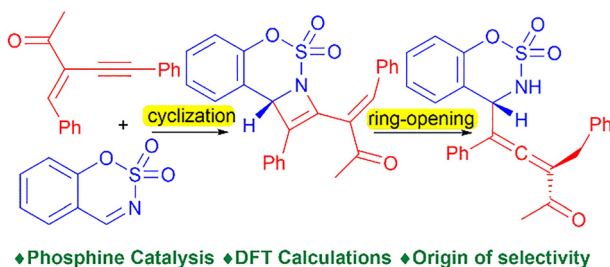
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Enhanced photochemical therapy of cancer cells using carbon dots integrated with black phosphorus nanosheets

Yafeng Zhuang, Limin Lai, Yurao Zeng, Jinghua Chen and Zhizhong Han*

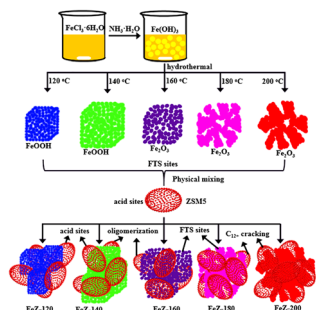
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Unraveling the mechanism of phosphine-catalyzed azetidine formation and BF_3 -mediated ring-opening to axially chiral alkenes: a DFT study

Mengmeng Wang, Bingli Wang and Lina Ding*

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Design of hierarchically structured cubic Fe-based catalysts with controllable assembly architectures for gasoline fuel synthesis

Yulan Zhang* and Xizhu Lin

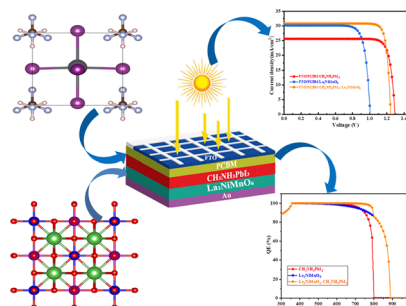


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AI-Guided SCAPS-1D optimization of $\text{CH}_3\text{NH}_3\text{PbI}_3/\text{La}_2\text{NiMnO}_6$ double absorber perovskite solar cells achieving over 33% efficiency

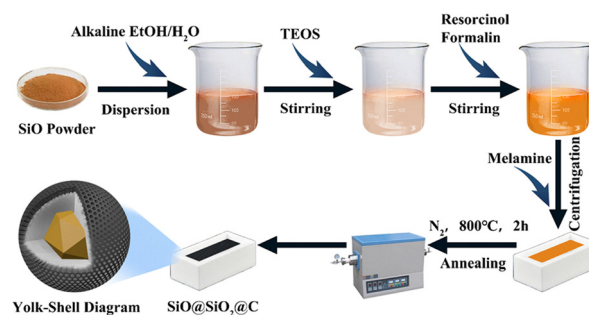
Rihan Akter, Md. Masum Mia, Md. Faruk Hossain, Mongi Amami, Safa Ezzine, Mutasem Z. Bani-Fwaz and Md. Ferdous Rahman*



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Void layer optimization in constant-composition yolk-shell $\text{SiO}@C$ anodes for improved lithium storage performance

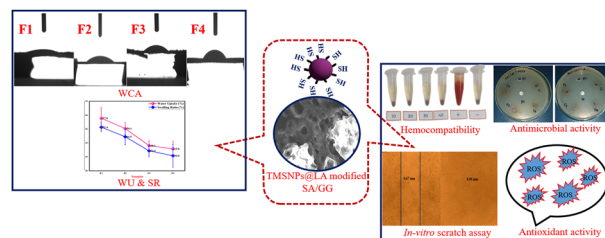
Jiayi Wu, Ziyi Zhou, Zhifeng Li,* Xiaojuan Liu, Yiming Wang, Chengzhou Li and Chunxiang Wang*



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Bioactive thiolated mesoporous silica@L-arginine modified sodium alginate/guar gum thin films for blood compatible wound healing

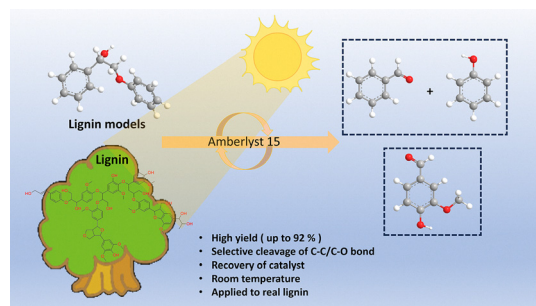
Anishia Ambrose, Kalaivizhi Rajappan,* Ganesh Munuswami Ramanujam and Aswathy Karanath Anilkumar



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Photocatalytic oxidation of lignin model compounds to benzaldehyde and phenol: a preliminary study on extracted lignin

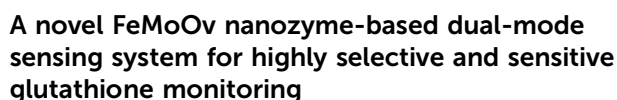
Xinwei Liu,* Ruimeng You, Ziqi Feng, Jianyu Huo and Fengxia Sun*





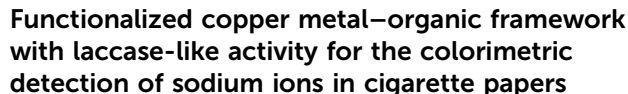
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Jianlong Gu, Jieyun Cai, Yuchen Liu, Jing Ma,
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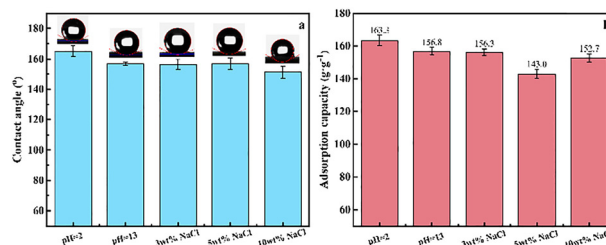


Ying Cheng, Fengxin Li, Yang Liu, Biqing Shi, Haodong Li,
Yiwen Yang, Mengyi Li, Danning Zhao and Wei Zhang*

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Superhydrophobic 3-aminopropyltriethoxysilane modified graphene oxide graft copolymer/melamine sponge for efficient oil/water separation

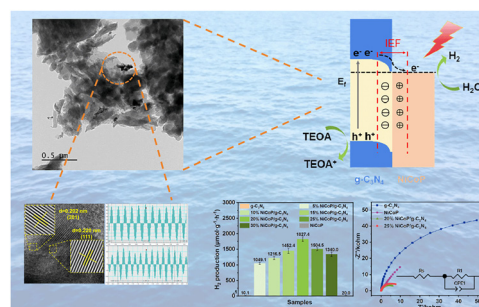
Yuan Zhou, Wenyue Jiao, Lei Tan, Yan Hao,*
Yicheng Wang, Tingrui Lin and Huazheng Sai



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NiCoP/g-C₃N₄ nanocomposites for efficient photocatalytic hydrogen production from seawater

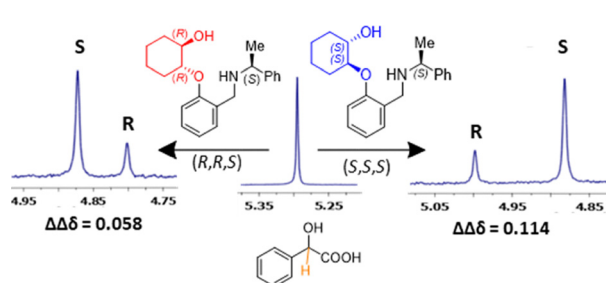
Zhufeng Lu, Qiaoyi Xiao, Yangjie Zhou, Li Zhou, Qiqi Gu,
Yuan Lian, Hongmei Wang,* Siqian Zhang and
Xiao Wang*



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Synthesis of chiral cyclohexanol derived benzylamines and their applications in enantiodiscrimination of optically active analytes by NMR spectroscopy

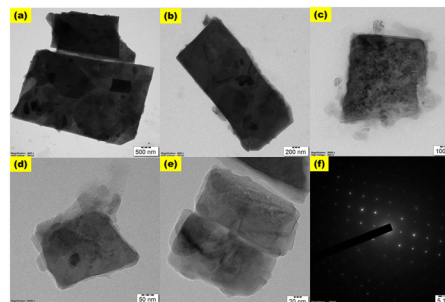
Binal B. Parmar, Alex Abraham, Raymond J. Butcher and
Ashutosh V. Bedekar*



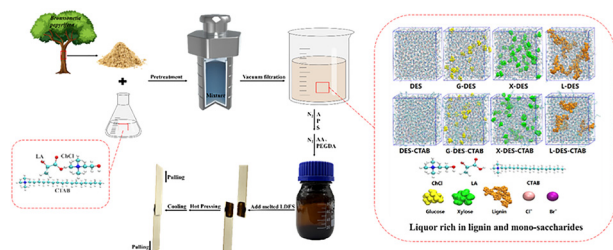
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Comparative synthesis of ammonium manganese phosphate (NH₄MnPO₄) and its electrochemical performance enhancement using ammonium metavanadate in sulfuric acid for supercapacitor applications

S. Mohammed Eliyas, R. Yuvakkumar* and G. Ravi*



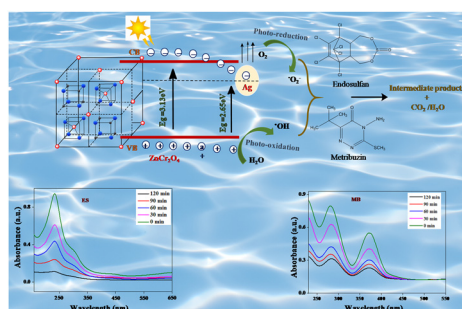
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Sustainable, strong performance of a lignin-strengthened adhesive formulation with novel deep eutectic solvents

Haitao Yang, Chenxu Li, Xingru Wu, Jie Yuan and Lan Yao*

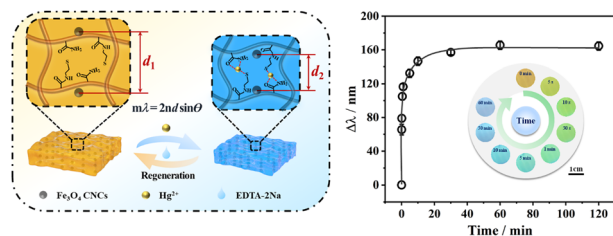
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A highly efficient Ag@ZnCr₂O₄ nanocomposite for rapid photocatalytic degradation of selected pesticides

Anita Meena, Manviri Rani* and Uma Shanker*

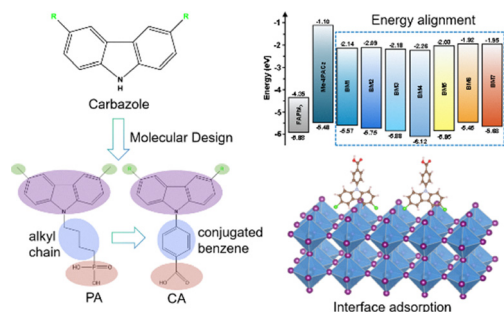
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A cysteamine-modified photonic crystal hydrogel sensor for visual detection of Hg²⁺ ions

Jingjing Mu, Xi Wang, Jia Li, Hairong Yu, Xingbin Lv, Ting Liang* and Changjing Cheng*

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Theoretical investigation on carbazole-based self-assembled monolayer hole transport materials: the effect of substituent and anchoring groups

Jianbing Zhu, Yucheng Li, Yu Pei, Zhiheng Li, Xue-Hua Ding, Xueqin Ran,* Kui Xu,* Lei Yang and Yonghua Chen

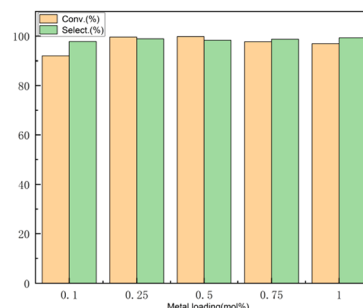


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Hydrosilylation of olefins catalyzed with cobalt(III)-dehydroacetic acid complexes and self-supported catalysts

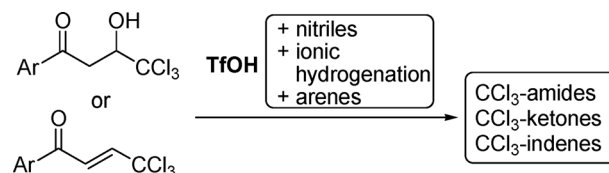
Xinyu Wang, Luoqi Liu, Weihong Huang, Ying Bai,*
Jiayun Li and Jiajian Peng*



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Synthesis of CCl₃-substituted amides, ketones, and indenenes by intermolecular reactions of β-CCl₃-enones or β-CCl₃-β-hydroxy ketones with various nucleophiles in CF₃SO₃H

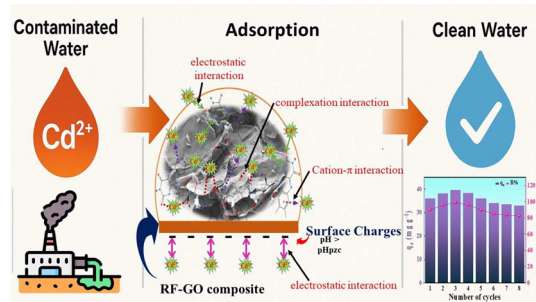
Vladislav A. Sokolov, Olga Yu. Bakulina,
Irina A. Boyarskaya, Dar'ya V. Spiridonova,
Mariya A. Kryukova and Aleksander V. Vasilyev*



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Synthesis, characterization, and application of riboflavin covalently functionalized graphene oxide (RF-GO composite) for selective removal of Cd²⁺

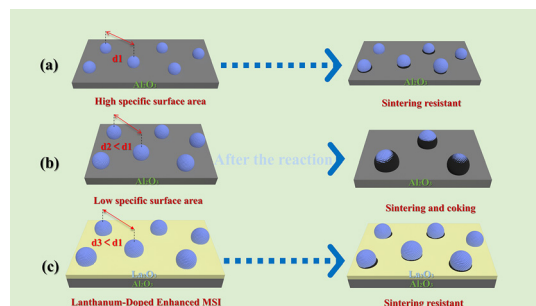
Fazal Muhammad Khoso, Mei-Yi Duan, Bi Yang,
Guo-Cong Liu, Xi Zhu and Jin-Gang Yu*



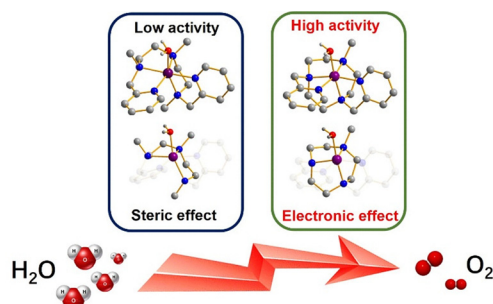
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The effect of nickel particle spacing and metal-support interaction on the activity and stability of Ni/Al₂O₃ catalysts for CH₄/CO₂ reforming

Chao Hu,* Guorui Wang, Zhiqiang Huang, Jinzheng Xu,
Hao Wang, Zhihan Chen, Gang Zhao and Yi Lv



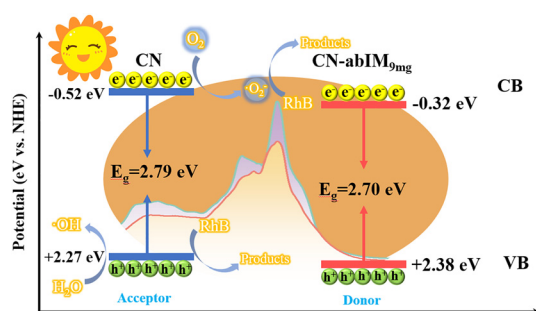
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Electrocatalytic water oxidation by nickel complexes: the effect of coordination number and ligand backbone structure on their catalytic properties

Jinlin Hu, Zhichao Qi, Lianghui Zhang, Xiangming Liang, Junqi Lin,* Zhijun Ruan* and Shanshan Liu*

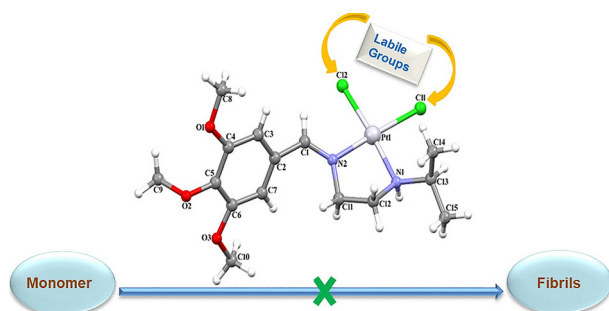
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The promotion effect of $n-\pi^*$ transition in carbon nitride modified by trace amounts of benzimidazole enhances photodegradation of Rhodamine B

Miao Wang, Feixiang Ding, Yuren Zhao and Ge Xu*

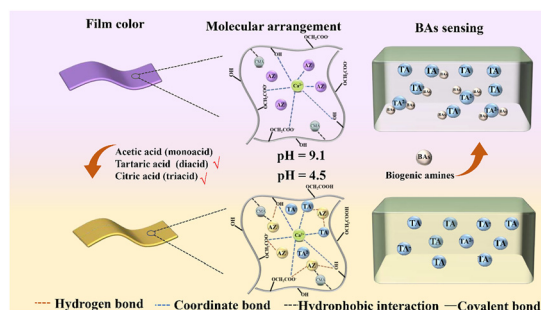
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Novel Schiff base-Pt(II) complexes: inhibition of A β aggregation via histidine interaction

Sevil İrişli,* Umut Doğan, Salih Günnaz, Fatma Yurt and Onur Şahin

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pH-responsive color indicator film based on sodium carboxymethylcellulose and natural acid buffering matrix for real-time beef sub-freshness monitoring

Shouyan Zhu, Huimin Wu, Rongrong Ma, Xiaoying Wang* and Qin Wu*



RETRACTION

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Retraction: An orange peel-derived zirconium-coordination polymer for highly efficient reductive upgradation of 5-hydroxymethylfurfural

Siyu Sun, Ying Wan, Zheng Li, Lumen Chao, Yuanyuan Bai, Qunhua Liu, Can Wang, Wen Liu* and Peijun Ji*

