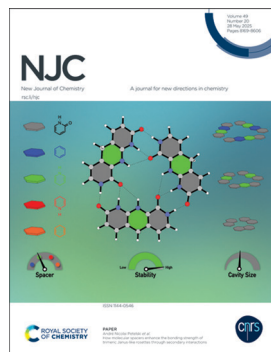


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Cover

See André Nicolai Petelski et al., pp. 8183–8191.

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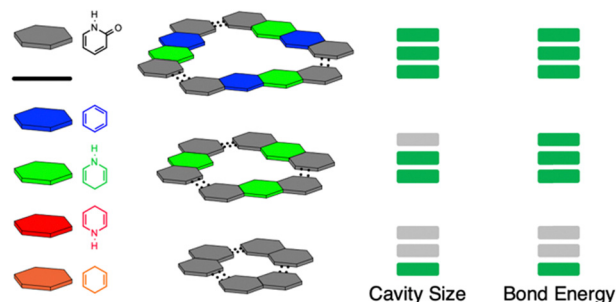
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8183

How molecular spacers enhance the bonding strength of trimeric Janus-like rosettes through secondary interactions

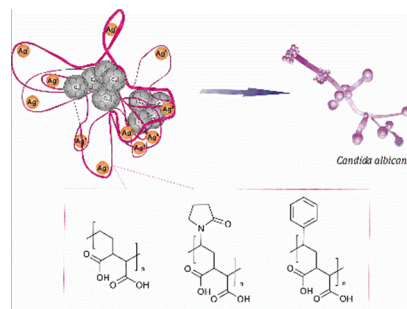
André Nicolai Petelski,* Damián Ramón López and Nélica María Peruchena



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Water-dispersible nanocomposites of fullerene C₆₀ and polymer-stabilized silver nanoparticles: preparation, physico-chemical properties, and antifungal activity

Nadezhda Samoilova,* Maria Krayukhina, Zinaida Klemenkova, Alexander Naumkin, Michail Buzin, Oxana Vyshivannaya, Nelya Anuchina and Dmitry Popov



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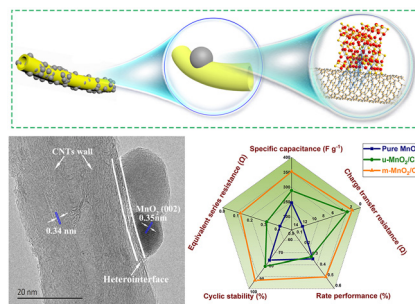


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8204

Microwave-assisted interfacial oxygen-bridge bonding for enhanced performance of MnO₂/CNT heterostructures in asymmetric supercapacitors

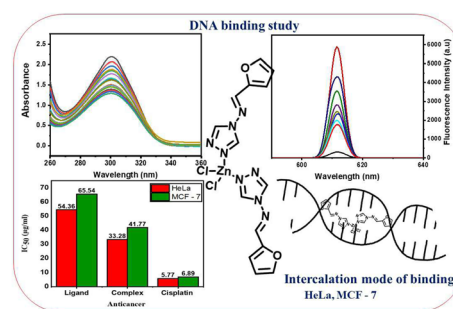
Shuhuang Tan, Yichen Liu, Xiaoran Sun, Shoujun Zhang, Chengqi Sun, Yin Sun* and Naibao Huang



8215

Anticancer activity: synthesis, characterization and DNA binding of a 1,2,4-triazole-based Zn(II) complex

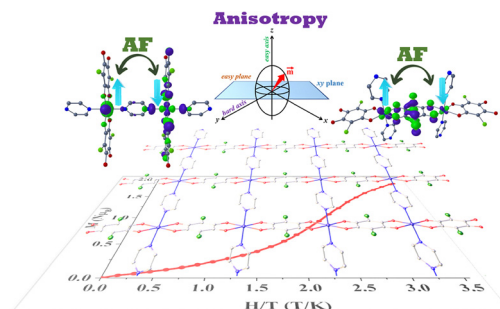
Yakkobu Gnanadeepam, Bhaskaran Shankar and Arunachalam Tamilselvi*



8225

An infinite 2D sheet of tetragonal Co^{II} framework exhibiting metamagnetism

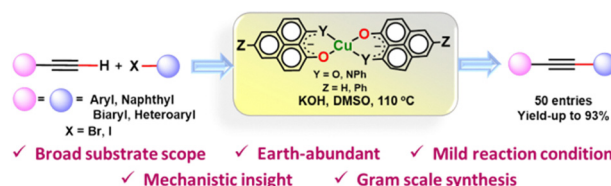
Arindam Gupta, Pramod Bhatt* and Sanjit Konar*



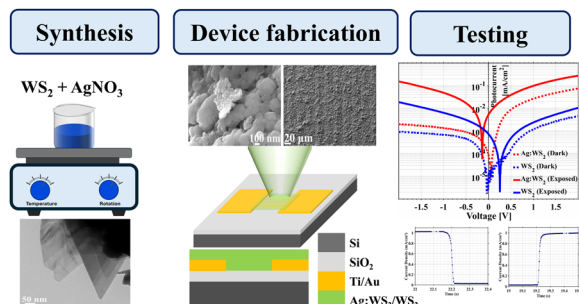
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Copper(II) phenalenyl complexes: structures, redox properties and catalytic activity towards Sonogashira coupling reactions

Gayetri Sarkar, Krishnendu Paramanik, Nilaj Bandopadhyay, Souvik Chatterjee, Subhajit Saha, Subhra Jyoti Panda, Chandra Shekhar Purohit, Bhaskar Biswas* and Hari Sankar Das*



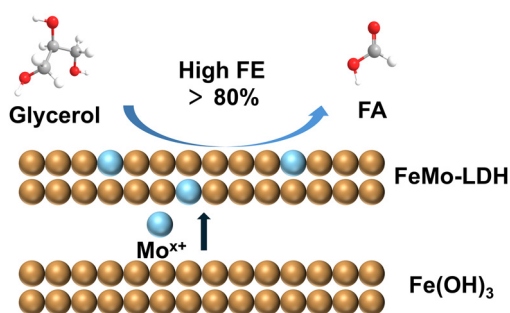
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Reduced carrier–phonon scattering and enhanced absorption in silver-doped transition metal dichalcogenide photodetectors

Md Samim Reza, Henam Sylvia Devi, Shubhangi Majumdar, Maninder Kaur, Prमित Kumar Chowdhury and Madhusudan Singh*

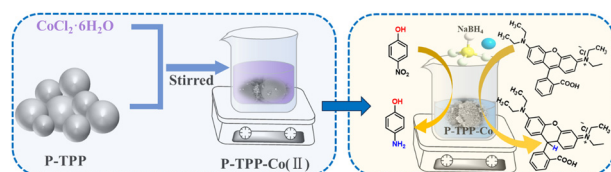
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The role of molybdenum in promoting the electrochemical glycerol oxidation performance of iron–molybdenum layered double hydroxides

Yixuan Zhou, Jing Zhang, Zhiqiang Qiao, Xinze Huang, Deqiang Ji, Dandan Yuan, Zhida Li* and Hongjun Wu*

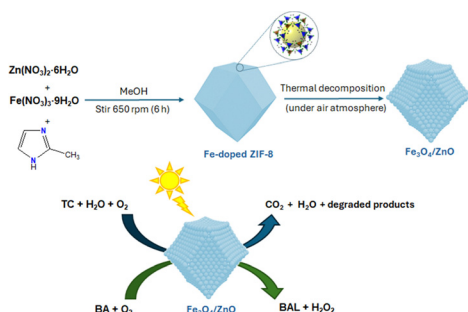
8259



Facile synthesis of spherical porphyrin polymer-supported cobalt nanoparticles for the efficient catalytic hydrogenation of 4-NP

Jing Li, Jia Li, Cheng Tang,* Fen Wang, Shuang Yan and Yanglei Li

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Construction of Fe₃O₄/ZnO heterostructure photocatalysts derived from Fe-doped ZIF-8 for enhanced photocatalytic degradation of tetracycline and hydrogen peroxide production

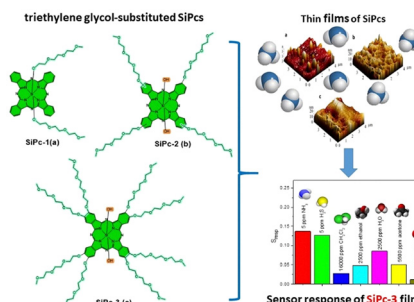
Sumiyyah Sabar,* Afiqah M. Jamil, Yifan Zhao, Enis Nadia Md Yusof, Raphaël Schneider, Abdul Rahman Mohamed, Yasutaka Kuwahara, Kohsuke Mori and Hiromi Yamashita*



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Effect of the number and position of substituents on the orientation and sensor response of triethylene glycol-substituted silicon phthalocyanine films to ammonia

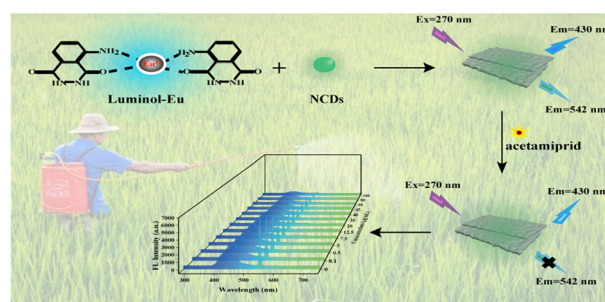
Victoria Ivanova, Tamara Basova,* Darya Klyamer, Aleksandr Sukhikh, Sebile Işık Büyükekşi, Devrim Atilla and Ayşe Gül Gürek*



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A ratiometric fluorescent sensor based on AIE nanoparticles and nitrogen-doped carbon dots for rapid and sensitive detection of acetaminophen in rice

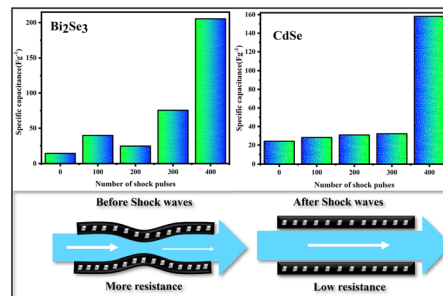
Mingsha Jie, Amei Zhu, Bing Zhu, Jiaxin He, Shengkai Lan, Xingang Lang and Yanhong Bai*



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Acoustic shock wave treatment as a pathway to enhance the specific capacitance of selenium-based layered chalcogenides for supercapacitor applications

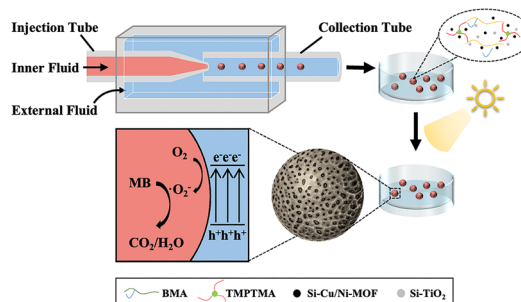
F. Irine Maria Bincy, S. Oviya, Raju Suresh Kumar, P. Kannappan, Ikhyun Kim* and S. A. Martin Britto Dhas*



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BMA porous microspheres loaded with silane-modified Cu/Ni@MOF-TiO₂ for the photocatalytic degradation of methylene blue

Zi-Yu Tang, Chuan-Lin Mou,* Ya-Dong Li, Shi-Hao Chen, Xian-Min Yang, Xu Ding, Hong-Bo Deng and Lin-Yuan Wang



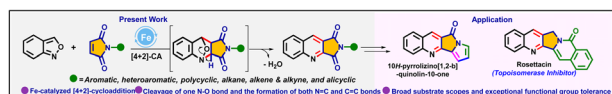
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Characterization of products from the chemical removal of thiol in hydrocarbon streams using DART-MS and NMR spectroscopy

Rolando Perez Pineiro,* Jody Hoshowski, Adnan Alhammoud and Boris Svidinskiy

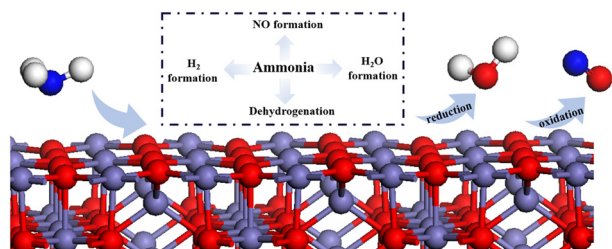
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Fe(III)-catalyzed [4+2] annulation of anthranils and maleimides for pyrrolo[3,4-*b*]quinolinedione synthesis: application to rosettacin

Khushboo Tiwari, Mayank Singh, Vanshika Nirmal and Dharmendra Kumar Tiwari*

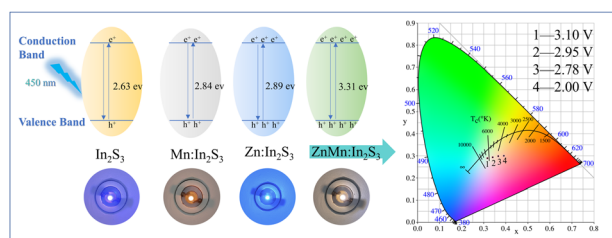
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Alternative reaction mechanisms of ammonia reduction of iron oxide examined using density functional theory modelling

Huanran Wang,* Zhezi Zhang, Chiemeka Onyeka Okoye,* Xianchun Li and Dongke Zhang

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Bandgap-engineered Zn–Mn co-doped In₂S₃ quantum dots for high-performance tunable white quantum dot light-emitting diodes (WQLEDs)

Jiayu Wang, Lili Wang,* Hong Lv, Jiayi Liu and Sichen Liu

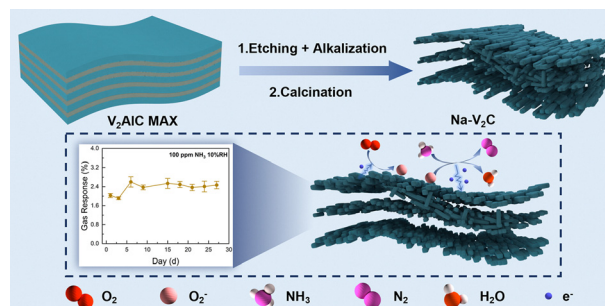


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Preparation of $\text{NaV}_6\text{O}_{15}/\text{V}_2\text{CT}_x$ composite materials for room-temperature ammonia sensing

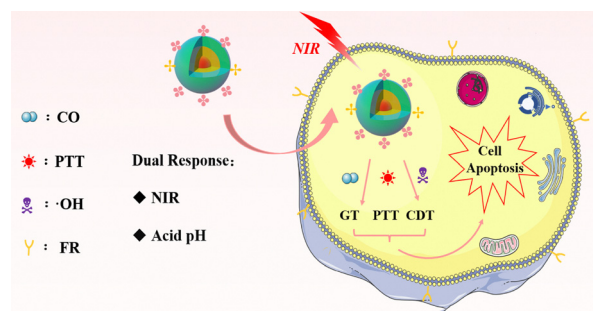
Yuanyuan Zhou, Zhe Zhang, Baojie Shi and Jiangwei Ma*



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A nanozyme combining multi-enzymatic activity with targeted carbon monoxide delivery for synergistic antitumor therapy

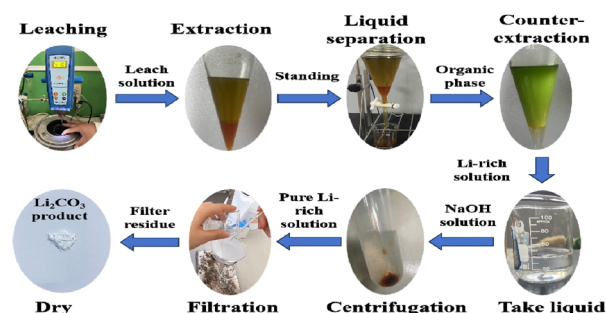
Bing Ren, Jing Liu, Qi Tang, Yi Wang, Jian Fang, Shi-Ping Yang and Jin-Gang Liu*



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An investigation into the synergistic enhancement of MIBK for lithium extraction utilizing the TBP- FeCl_3 system from spent LiFePO_4 powder

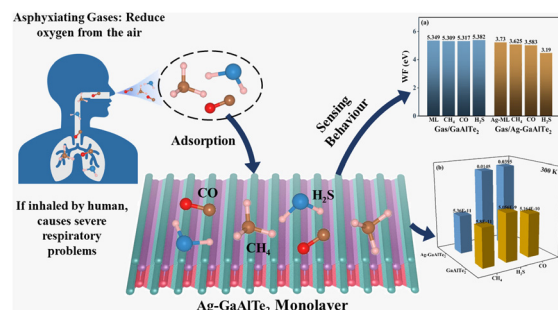
Haiyu Wang, Xiangyun Qiu,* Zhenhua Feng, Xinyu Li and Tao Wei

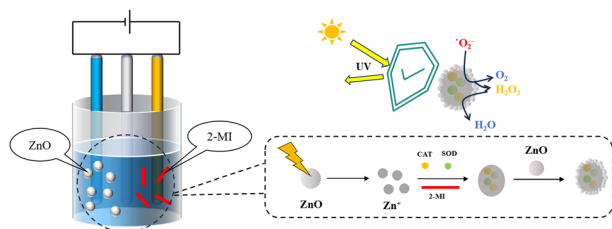


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An Ag-modified GaAlTe_2 monolayer: a high-performance gas sensor for detecting asphyxiating gases

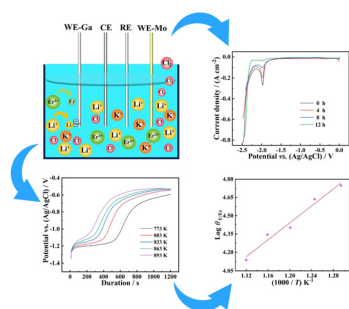
Disha Mehta, Yashasvi Naik, Nidhi Modi and P. B. Thakor*





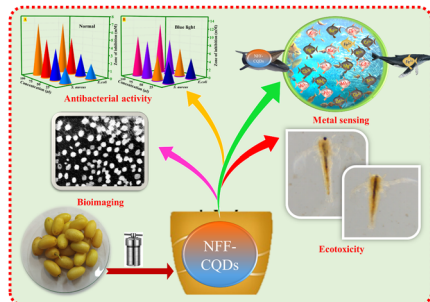
Weijie Zhu, Hao Ren, Yiwen Xie and Tianxiang Wei*

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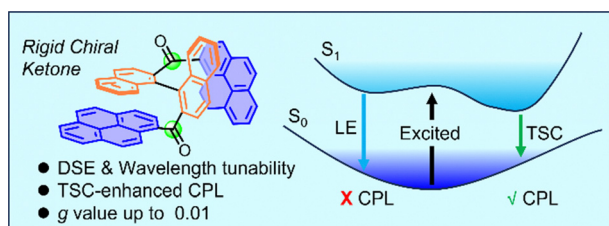
Jiabao Gao, Kewei Jiang,* Alena Novoselova,*
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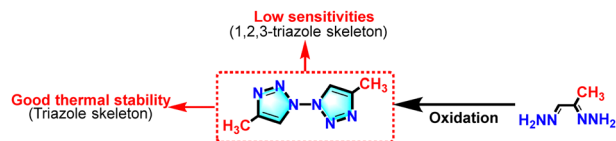


Yao Ji, Xin Meng,* Jia'ao Han, Yanchen Liu, Jian Tang,
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Ziping Cao*

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4,4'-Dimethyl-1,1'-bi(1,2,3-triazole): exploring new insensitive energy source materials

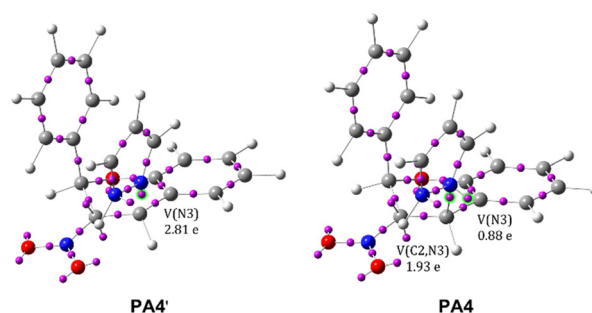
Hao Li, Guang-yuan Zhang, Ning-ning Du, Le-wu Zhan, Jing Hou* and Bin-dong Li*



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A new mechanistic insight into the molecular mechanisms of the addition reactions of 2-aryl-3-nitro-2H-chromenes to pyrazoles and cyclopentadienes

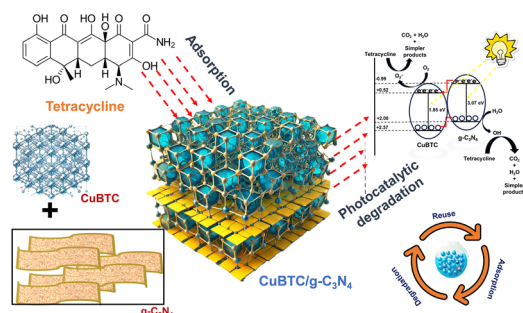
Przemysław Woliński, Ewa Dresler and Radomir Jasiński*



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Innovative CuBTC/g-C₃N₄ materials for tetracycline mitigation: adsorption, photocatalysis, and mechanistic perspectives

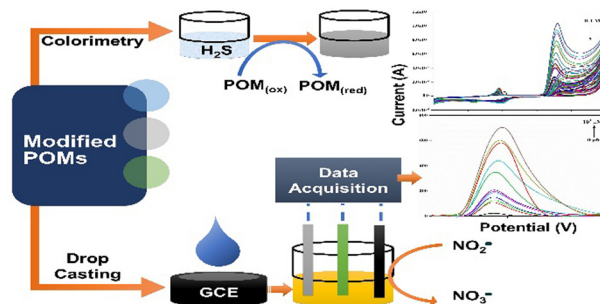
Palkaran Sethi, Soumen Basu* and Sanghamitra Barman*



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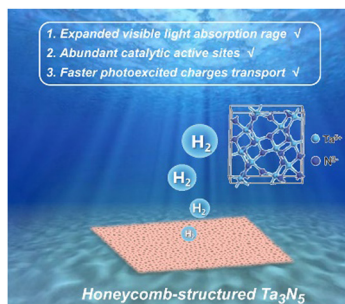
Synthesis and characterization of transition metal-based polyoxometalates for dual sensing of biomarkers such as nitrite ions and hydrogen sulphide

Celin T and Gandhimathi S*



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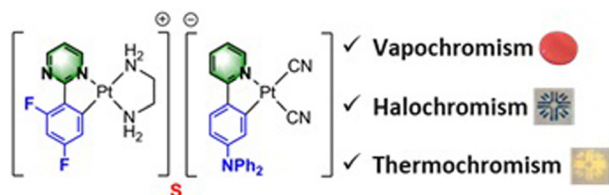
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Template-free synthesis of honeycomb-structured Ta₃N₅ foam nanoplates with expanded light absorption, abundant active sites and fast charges transport for visible-light-driven H₂ evolution

Jiudi Zhang, Ruyu Zhang, Xiaowei Jia,* Jinming Li, Mingliang Sun, Shikang Zhang, Zhenfu Guo, Xiaoyan Jiao, Xianchun Liu, Zhanshuang Jin, Junjie Li* and Yan Xing*

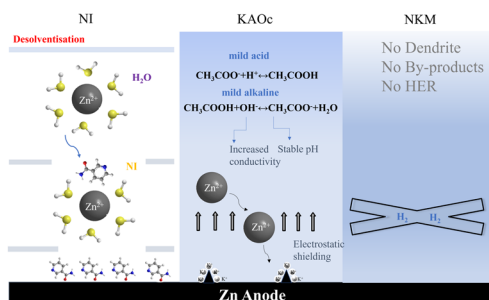
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Cyclometalated platinum(II) complex-based soft salt with multistimuli-responsive properties

Alexandre Rico, Pascal Le Poul, Antonin Lyčka, Julián Rodríguez-López, Sylvain Achelle and Sébastien Gauthier*

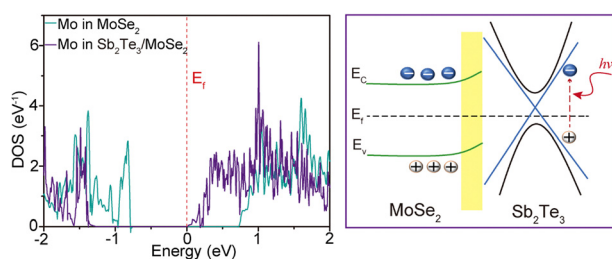
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A dual-additive electrolyte enables highly reversible Zn electrochemistry

Weimin Yuan, Chengze Li, Qianqian Ma, Hao Luo, Ximei Sun, Xiaoyi Chen, Lina Ye, Zhenjie Sun* and Lingyun Zhu*

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Two-dimensional Sb₂Te₃/MoSe₂ van der Waals heterojunction for high-sensitivity photodetectors

Meng Li, Qian Cai,* Wenting Hong, Xu He and Wei Liu*

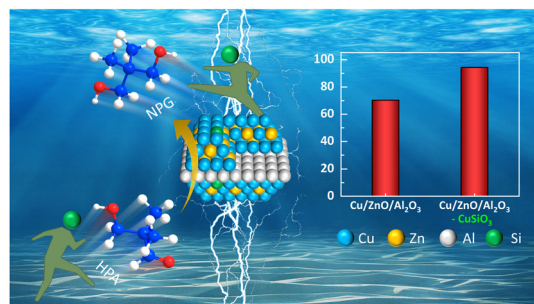


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Insights into the copper silicate modification on Cu/ZnO/Al₂O₃ catalysts during HPA hydrogenation: influence of copper species on catalytic selectivity

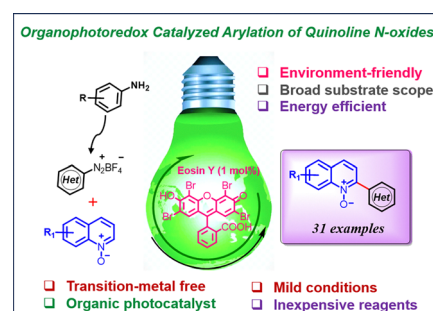
Wanbang Zhu, Bing Wei, Liancheng Bing, Dezhi Han, Guangjian Wang and Fang Wang*



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Eosin Y-mediated visible light photoredox catalysis for C(2)–H arylation of quinoline N-oxides using arenediazonium salts

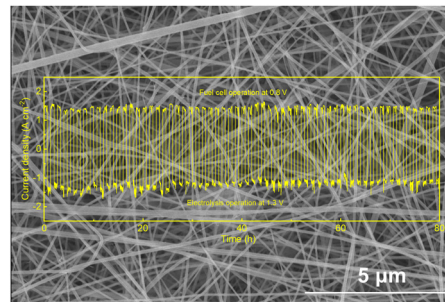
Shubhanjali Choudhary and Rakesh Kumar*



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La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O_{3-δ}@(Ce_{0.80}Gd_{0.20})O₂ nanofibre composites as oxygen electrodes for reversible solid oxide cells

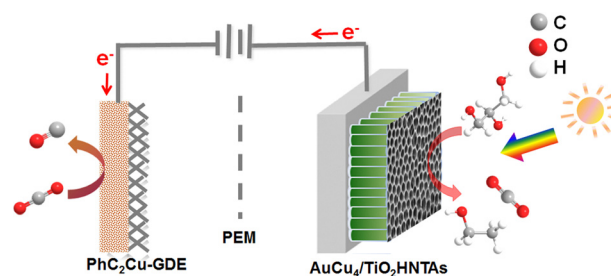
Keda Wang, Jing Yu* and Yuyang Zu



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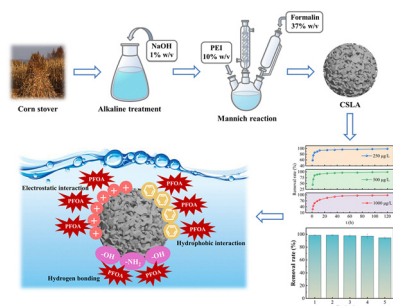
Coupling EC CO₂ reduction on PhC₂Cu-gas diffusion electrode with PEC glycerol oxidation on AuCu₄/TiO₂HNTAs

Danfeng Liu, Yiwei Zhou, Bingxu Chen and Jian Zhao*



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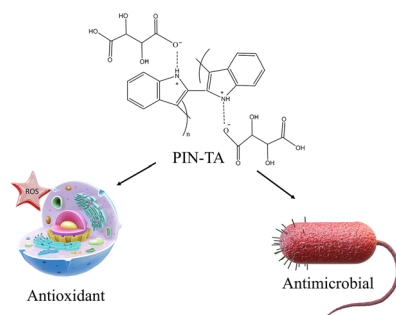
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Adsorption of low-concentration perfluorooctanoic acid on corn stover-based lignin amine by synergy of electrostatic and hydrophobic interactions

Baoyuan Shi, Jun Dong,* Yunhao Li, Weihong Zhang and Yongxin Li

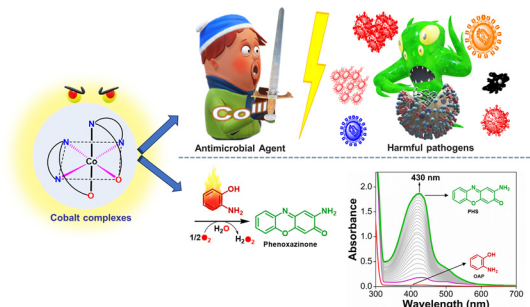
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Facile one-pot synthesis of tartaric acid-doped polyindole with antibacterial and antibiofilm activities against ESKAPE pathogens

Sresha Sarkar, Adrija Ghosh, Subhajit Ghosh, Koushik Dutta, Arghya Adhikary* and Dipankar Chattopadhyay*

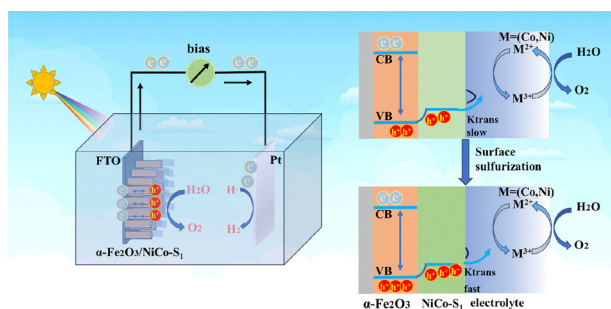
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Impact of ligand steric hindrance on the phenoxazinone synthase-like reactivity and antibacterial activity of cobalt(III) complexes of N₂O donor ligands

Kannan Sree Vidya, Ganesh Yamuna, Nattamai Bhuvanesh, Ayyan Ghosh, Sreeja Dasgupta, Sukanta Mandal, Rajkumar Vasanthkumar, Packiaraj Gurusaravanan and Karuppasamy Sundaravel*

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Surface vulcanization activates α -Fe₂O₃/NiCo-LDH photoelectrode surface activity leading to high photoelectrochemical performance

Yue Meng,* Zhiling Huang and Di Liu

