

IN THIS ISSUE

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Cover

See M. Amparo F. Faustino et al., pp. 20266–20271.

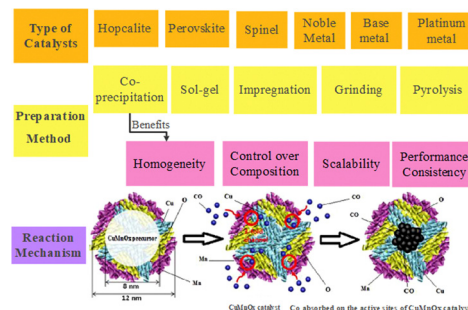
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PERSPECTIVE

20222

A review of catalytic oxidation of carbon monoxide over different catalysts with an emphasis on hopcalite catalysts

Jellinette Pulcira Ngorot Kembo, Junyi Wang, Ning Luo, Fengyu Gao,* Honghong Yi, Shunzheng Zhao, Yuansong Zhou and Xiaolong Tang*

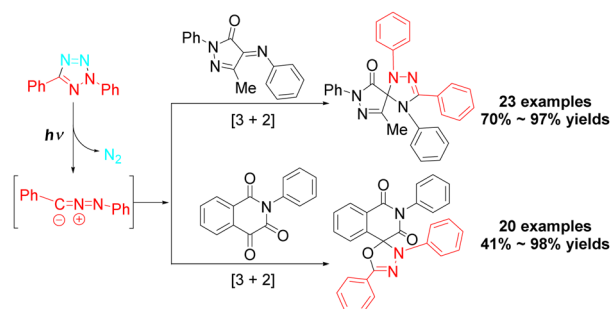


COMMUNICATIONS

20248

Synthesis of spirotriazolines and spirooxadiazolines via light-induced 1,3-dipolar [3+2] cycloadditions

Pengfei Jia, Zhiqian Lin, Cankun Luo, Jiao Liang, Ruizhi Lai, Li Guo, Yuan Yao* and Yong Wu*



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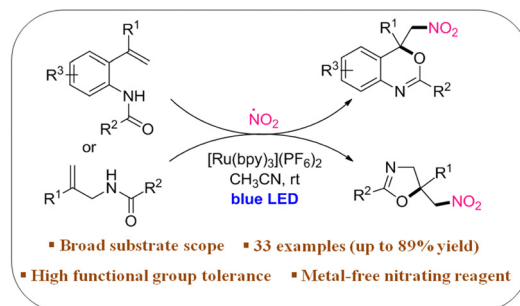


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20253

Visible-light-promoted tandem radical difunctionalization of olefinic amides: a direct access to NO₂-containing benzoxazines and oxazolines

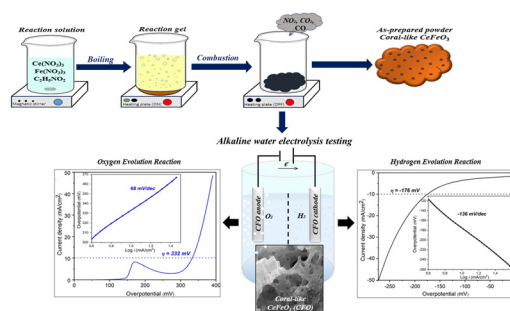
Renu Chaudhary



20257

Novel electrode material based on coral-like cerium orthoferrite (CeFeO₃) for efficient alkaline water splitting

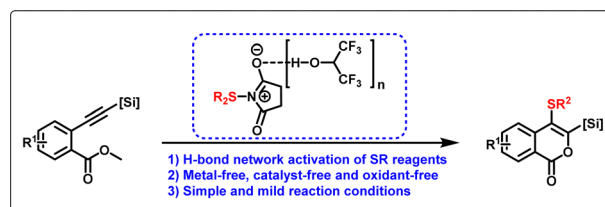
Anna S. Seroglazova,* Artem A. Lobinsky,
Vladimir N. Nevedomskii, Vitaly V. Panchyk,
Valentin G. Semenov and Vadim I. Popkov



20262

Access to derivatives of 4-(aryltio)isocoumarins via hydrogen bonding network assisted electrophilic cyclization

Wenna Xie* and Shiwen Liu

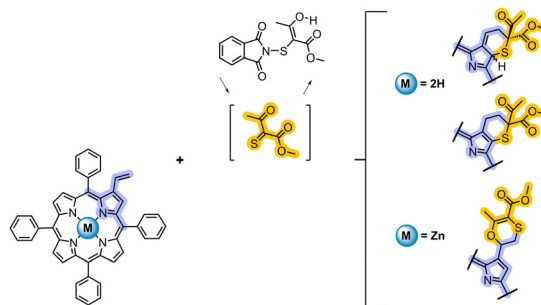


PAPERS

20266

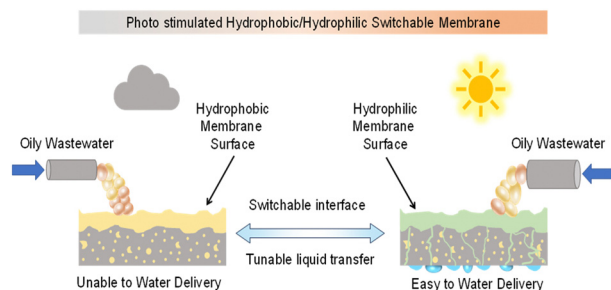
The dual behaviour of β -vinylporphyrins in the presence of α,α' -dioxothiones

Cristina J. Dias, Francesco Papi, Maxime Denis,
Cristina Nativi, M. Graça P. M. S. Neves and
M. Amparo F. Faustino*



PAPERS

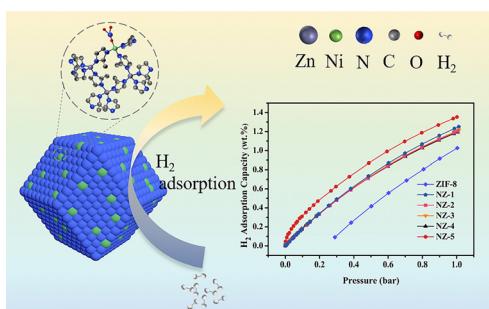
20272



A photo-responsive micro/nanomembrane for smart separation and self-cleaning

Zhengtao Li, Wee Tio, Jia-Cheng E. Yang and Darren D. Sun*

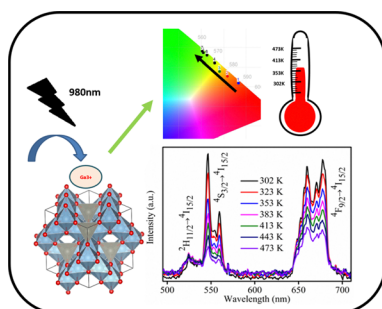
20279



Efficient H₂ adsorption using a bimetallic Ni–Zn zeolite imidazole skeleton

Xiaoqian Peng, Jing Zhang,* Xu Zhang, Xiaochan Liu, Zhiqiang Huang, Haibo Li and Xibin Yi

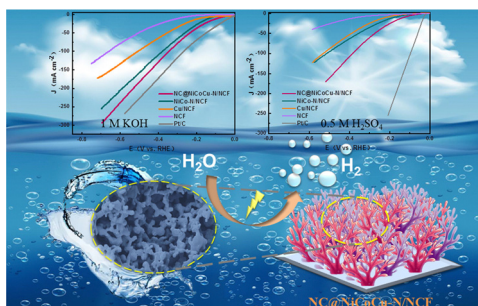
20286



Tunable upconversion in ZnAl_{2-x}Ga_xO₄:Er,Yb phosphors by modulating the Al/Ga ratio and application in optical thermometry

Reshmi Thekke Parayil, Santosh K. Gupta,* Madan Murari Upadhyay, Kathi Sudarshan and Manoj Mohapatra

20298



In situ-engineered coral-like multiphase NC@NiCoCu–N/NCF nanoarrays for enhanced hydrogen evolution reaction

Yaoxia Yang,* Lan Zhang, Fengyao Guo, Dangxia Wang, Xingwei Guo, Wei Zeng and Dongfei Sun

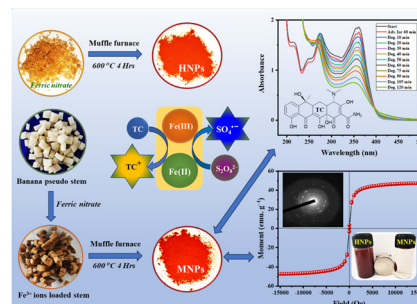


PAPERS

20306

Green synthesis of superparamagnetic maghemite nanoparticles using banana pseudo-stem: a reusable heterogeneous catalyst for Fenton-like degradation of tetracycline antibiotics

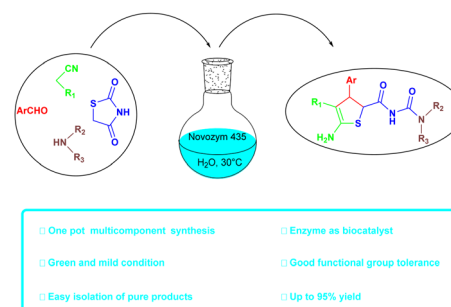
A. Tony Elizabeth,* E. James, L. Infant Jesan,
A. Sebastin Thangadurai and Antonisamy Edwin Vasu*



20316

Lipase-catalyzed one-pot four-component reaction in water: green construction of substituted 2,3-dihydrothiophenes

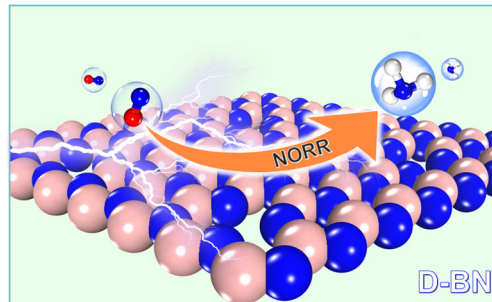
Yong Tang, Kaifu Zhang, Yuelin Xu, Jinglin Ma,
Hangqing Xie, Hongquan Zhang, Yanmin Jiang,
Rui Zhao* and Lei Wang*



20322

Defective boron nitride nanosheets: an efficient non-metal catalyst for electrochemical reduction of NO to NH₃

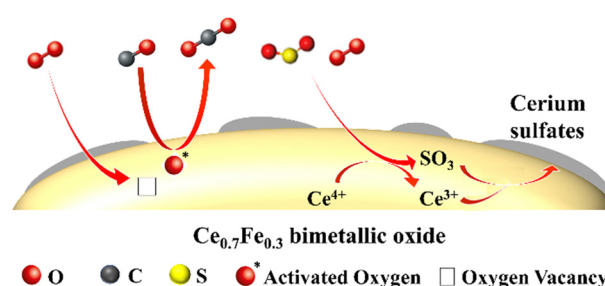
Ping Zhu* and Zhe Xu



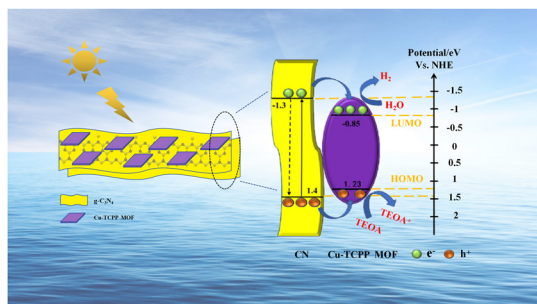
20327

Ce–Fe bimetallic oxide catalysts for CO catalytic oxidation at a high concentration of SO₂

Qi Gao, Changqing Dong,* Xiaoying Hu, Junjiao Zhang,
Yanjun Zhu, Haiyang Lv, Ying Zhao, Junjie Xue and
Xiaoqiang Wang



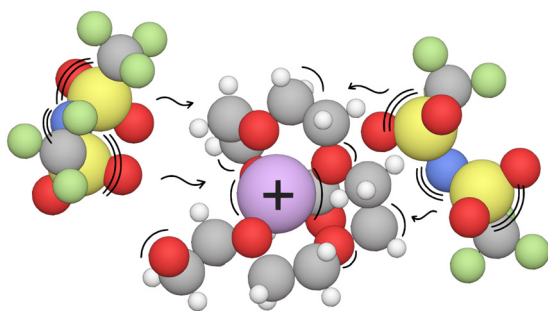
20336



The synthesis of Cu-TCPP MOF/g-C₃N₄ heterojunctions as efficient photocatalysts for hydrogen generation

Meihui Lu, Aichen Dong, Xinyang Li, Xuanqi Liu, Ziqing Zhang, Tao Tian* and Liqiang Jing

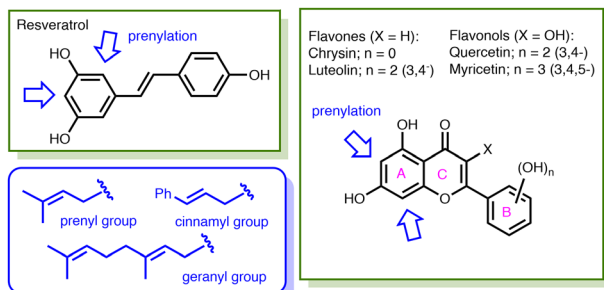
20344



Coupled ion transport in concentrated PEO–LiTFSI polymer electrolytes

Øystein Gullbrekken and Sondre Kvalvåg Schnell*

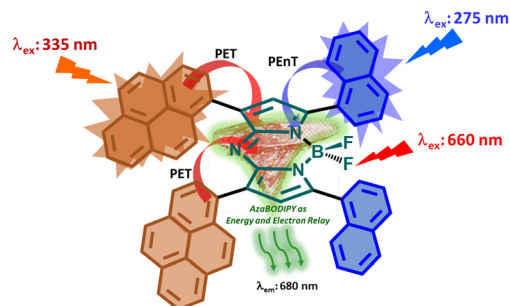
20358



Catalytic prenylation of natural polyphenols

Yi Du, Iman Korchi, Aleksandr E. Rubtsov and Andrei V. Malkov*

20363



Excitation wavelength-reliant light-induced energy and electron processes in pyrene and naphthalene functionalized dual-dye integrated polyaromatic azaborondipyrromethenes

Anjaiah Boligorla, Manne Naga Rajesh, Lingamallu Giribabu* and Raghu Chitta*

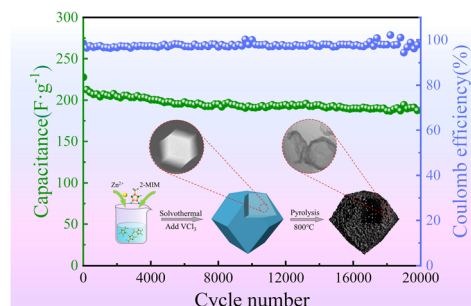


PAPERS

20377

Hollow nanocages of vanadium nitride-based electrode material designed for superior charging/discharging stability supercapacitors

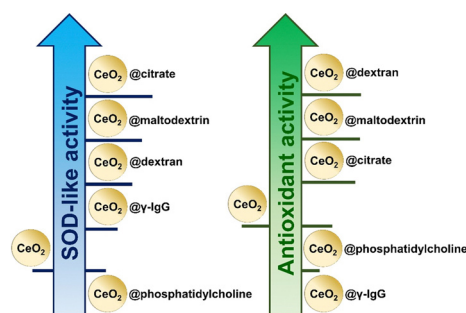
Hao Dang, Lu Wang, Yuanyou Peng, Tianqi He and Fen Ran*



20388

Biocompatible ligands modulate nanozyme activity of CeO₂ nanoparticles

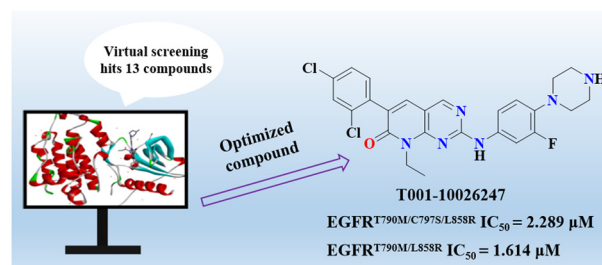
Alexander E. Baranchikov, Madina M. Sozarukova, Ivan V. Mikheev, Anastasia A. Egorova, Elena V. Proskurnina, Iuliia A. Poimenova, Svetlana A. Krasnova, Arina D. Filippova and Vladimir K. Ivanov*



20405

In silico screening applied in drug discovery: T001-10026247 as a novel fourth-generation EGFR inhibitor

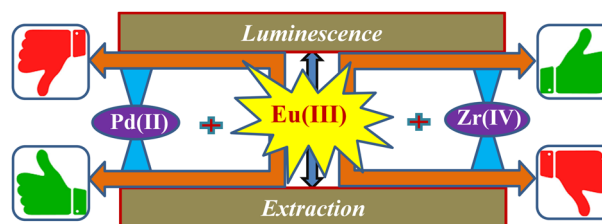
Shidi Xu, Xiaoling Huang, Yufeng An, Xinya Lv, Shan Xu, Linxiao Wang* and Wufu Zhu*



20417

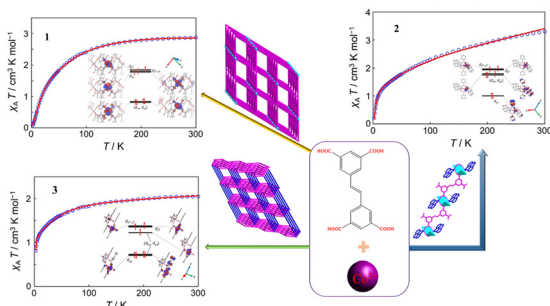
Understanding the correlation between extraction and luminescence behavior of Eu(III) in a biphasic system in the presence of Co-extracting metal ions

Alok Rout,* Satendra Kumar and N. Ramanathan



PAPERS

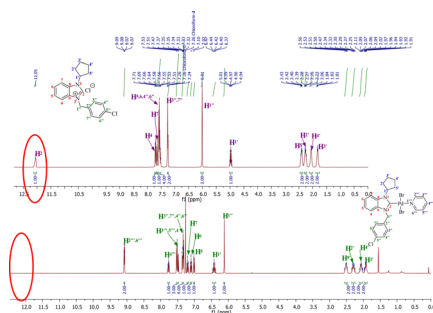
20426



Impact of N-donor auxiliary ligands on three new Co(II)-based coordination polymers with symmetrical tetracarboxylate ligands: a magnetism study

Xiaoyu Zhang, Tianrui Qin, Ruifang Xiang, Xiuyan Dong,* Hiroshi Sakiyama,* Mohd. Muddassir and Ying Pan*

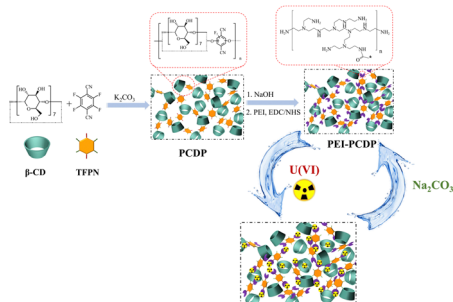
20435



Palladium(II)/N-heterocyclic carbene (NHC) catalyzed direct C–H arylation of heteroarenes with different aryl bromides and chlorides

Donia Bensalah, Lamjed Mansour, Mathieu Sauthier, Nevin Gürbüz, Ismail Özdemir, Waleed S. Koko, Rafik Gatri and Naceur Hamdi*

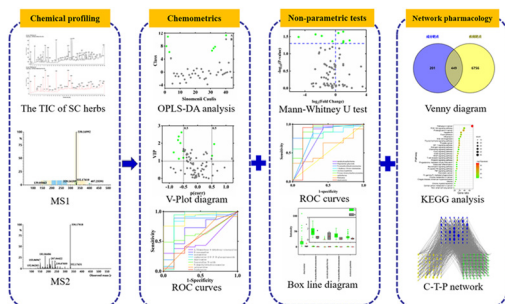
20456



Polyethyleneimine-functionalized β-cyclodextrin porous polymers for enhanced elimination of U(VI) from wastewater

Xing Zhong,* Nan Lv, Shunhai Yang, Qiaozhulin Yuan, Yongchuan Wu, Kai Guo, Caixia Hu and Ying Dai*

20466



A comprehensive strategy for quality marker discovery using chemical profiling combined with chemometrics, machine learning and network pharmacology analysis: taking *Sinomenii Caulis* as an example

Zhiyong Zhang, Mingjun Ren, Mulan He, Yongbo Zhu, Yuming Huang, Ping Qiu, Yunfei Hu* and Wenlong Li*

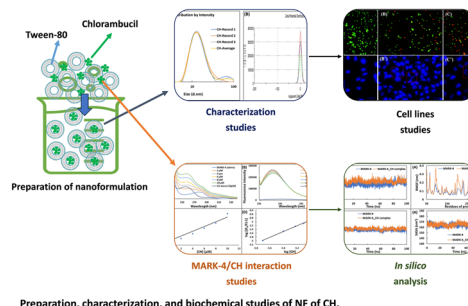


PAPERS

20476

Preparation, characterization and biochemical studies of nanoformulations of chlorambucil to enhance anticancer efficacy

Shahbaz Ahmed, Masood Nadeem, Irfan Hussain, Sana Fatima, M. Moshahid A. Rizvi and Mohammad Tabish*

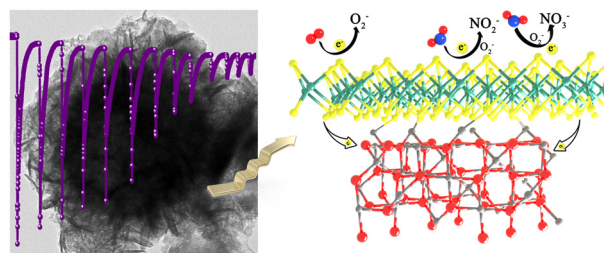


Preparation, characterization, and biochemical studies of NF of CH.

20490

A highly efficient room-temperature NO₂ gas sensor based on three-dimensional core-shell structured CoS₂ bridged Co₃O₄@MoS₂

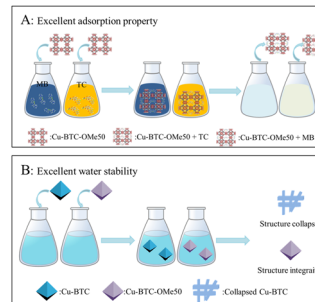
Haiyang Chang, Jiahui Fan, Kejian Yang,* Cheng Wang,* Boxuan Zhang, Wanying Zhang and Xudong Chen*



20499

Adsorptive removal of tetracycline and methylene blue from aqueous solution with a water resistance copper-based metal-organic framework

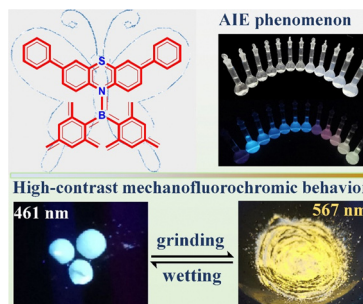
Yingzhi Zhu, Yan Li, Na Ma and Wei Dai*



20510

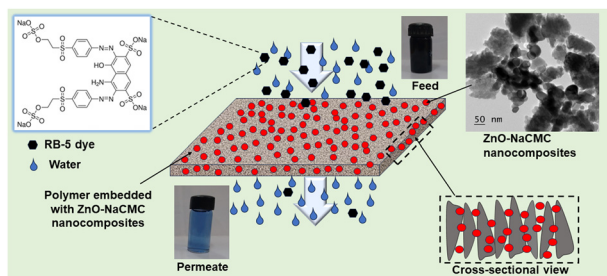
Aggregation-induced emission and reversible mechanoresponsive behavior of boryl substituted phenothiazine

Weidong Zhang,* Juanfang Zhou, Chao Zhang and Xinliang Liu*



PAPERS

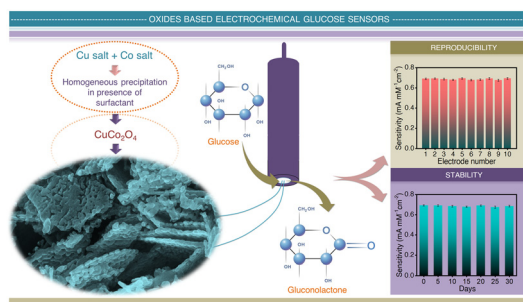
20517



NaCMC-decorated ZnO nanocomposite polymer membranes for the separation of reactive dyes from textile water

R. Robin, Vinoth Kumar Raja, R. Sathish Kumar, G. Arthanareeswaran* and Wirach Taweepreda*

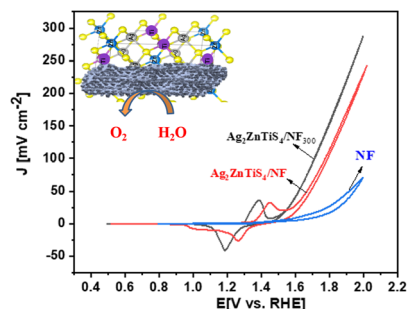
20527



Hierarchical and ultra-porous copper cobaltite flakes with honeycomb-like physiognomies for highly efficient non-enzymatic glucose sensing

Ruchika Sharma, Siddhant Srivastav and Sumanta Kumar Meher*

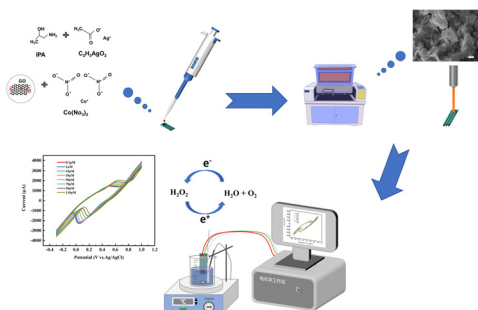
20537



Synthesis and characterization of Ag₂ZnTiS₄ nanostructures prepared by a hot-injection method towards low-cost electrocatalytic oxygen evolution

Sidra Aslam, Muhammad Awais, Nadia Servat and Muhammad Safdar*

20546



Rapid preparation of Ag/CoO/rGO composites for electrochemical detection of hydrogen peroxide

He Song, Jie He, Peng Pan,* Jun Liu,* Zhengchun Yang, Haodong Shen and Peifeng Zeng

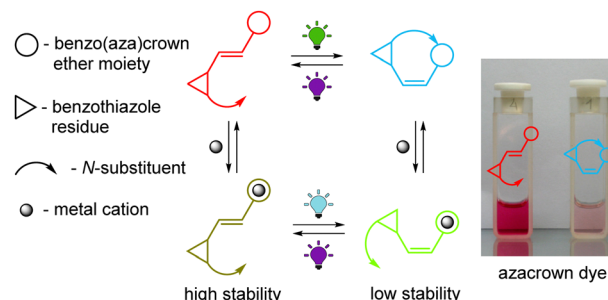


PAPERS

20557

Photoinduced hydrogen-bonded self-assembly of cation-capped complexes and novel photoswitchable supramolecular devices based on (aza)-18-crown-6-containing styryl dyes bearing a long *N*-ammonioalkyl substituent

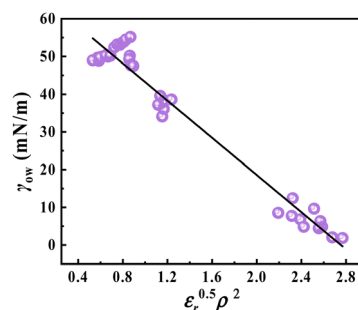
Sergey P. Gromov,* Timofey P. Martyanov, Artem I. Vedernikov, Svetlana N. Dmitrieva, Dmitry V. Kondratuk, Artem P. Vorozhtsov and Evgeny N. Ushakov*



20568

Correlation of interfacial tension with density and dielectric constant for binary systems containing water and an organic component

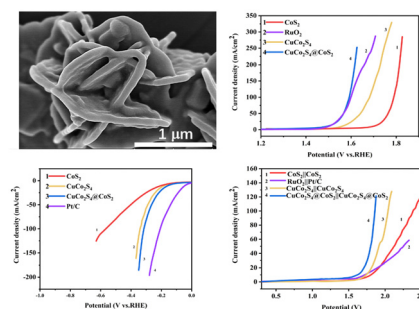
Hongfei Wang* and Chengjin Xu



20574

ZIF-67-derived CuCo₂S₄@CoS₂ as an efficient bifunctional electrocatalyst for overall water splitting

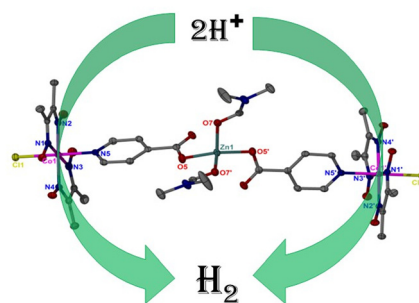
Li-hu Qian, Wei-wei Dong,* Yan-Bo Cao, Rui Ma, Yi Ding and Xi Wang*



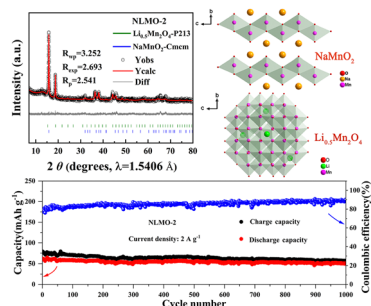
20583

Isonicotinate-Zn(II)/Cd(II) bridged dicobaloximes: synthesis, characterization and electrocatalytic proton reduction studies

Jitendra Kumar Yadav, Anjali Mishra, Gaurav Kumar Mishra, Sarvesh Kumar Pal, Kedar Umakant Narvekar, Ahibur Rahaman, Nanhai Singh, Prem Lama* and Kamlesh Kumar*



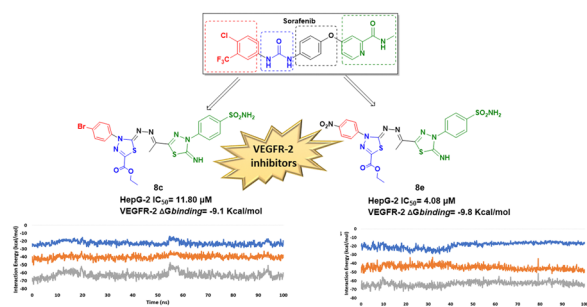
20594



A layered-spinel heterostructure $0.5\text{NaMnO}_2-0.5\text{Li}_{0.5}\text{Mn}_2\text{O}_4$ cathode for advanced lithium ion batteries

Tianfeng Gao, Yanjun Cai,* Qingrong Kong, Hualing Tian, Xiang Yao and Zhi Su*

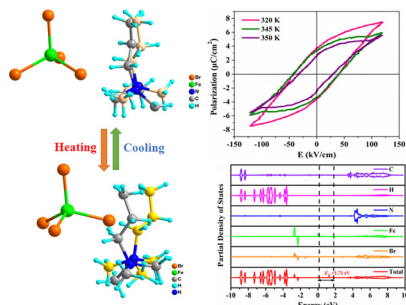
20602



Computational insights into novel benzenesulfonamide-1,3,4-thiadiazole hybrids as a possible VEGFR-2 inhibitor: design, synthesis and anticancer evaluation with molecular dynamics studies

Samir Bondock,* Tallah Albarqi, Moaz M. Abdou and Nada M. Mohamed

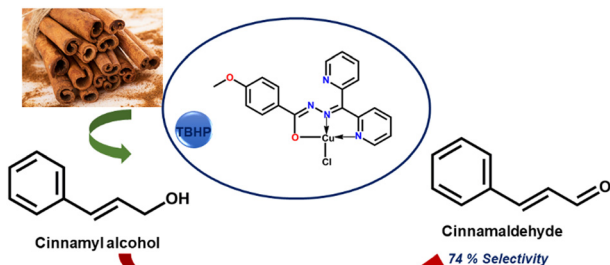
20619



High-T_c Fe-based ferroelectric compound with large spontaneous polarization and narrow bandgap

Yu-Xin Tan, Ting-Ting Ying,* Xiao-Wei Fan, Yan-Le Huang, Ming-Yang Wan, Fang-Xin Wang, Qiao-Lin Li and Meng-Na Wang

20626



Synthesis, spectral characterization, and catalytic efficiency of aroylhydrazone-based Cu(II) complexes

Lahinakillathu Nishana, Ayyamperumal Sakthivel,* M. R. Prathapachandra Kurup,* Krishna K. Damodaran, Antonsamy Kulandaisamy and Sithambaresan Maheswaran

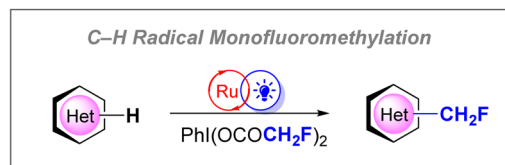


PAPERS

20642

Photoredox-catalyzed direct C–H monofluoro-methylation of heteroarenes

Nagarajan Ramkumar, Ketrina Plantus, Melita Ozola, Anatoly Mishnev, Vizma Nikolajeva, Maris Senkovs, Maksim Ošek* and Janis Veliks*

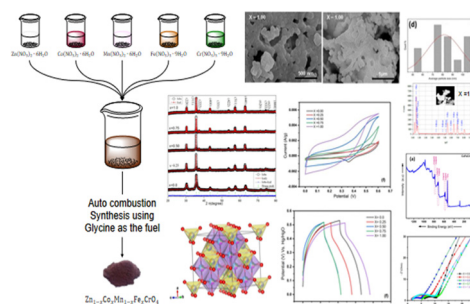


- Mild conditions - Broad substrate scope - Bioactivity profile
- Late-stage diversification of bioactive molecules

20653

Zn_{1-x}Co_xMn_{1-x}Fe_xCrO₄ ferrichromate: an efficient material for high performance supercapacitor applications

Vaibhav Salve, Pramod Agale, Avinash Rokade, Mahesh Kamble, Sunil Patange and Paresh More*



EXPRESSION OF CONCERNS

20668

Expression of concern: Electrospun nanofibrous membranes of cellulose acetate containing hydroxyapatite co-doped with Ag/Fe: morphological features, antibacterial activity and degradation of methylene blue in aqueous solution

Ahmed Esmail Shalan,* Mohamed Afifi,* M. M. El-Desoky and M. K. Ahmed*

20669

Expression of concern: Ultrasound-assisted diversion of nitrobenzene derivatives to their aniline equivalents through a heterogeneous magnetic Ag/Fe₃O₄-IT nanocomposite catalyst

Reza Taheri-Ledari, Jamal Rahimi, Ali Maleki* and Ahmed Esmail Shalan*

