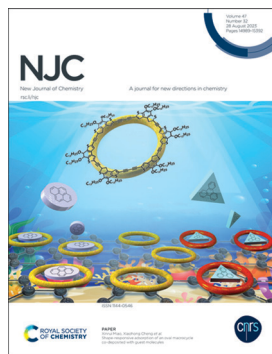


IN THIS ISSUE

ISSN 1144-0546 CODEN NJCHES 47(32) 14989-15392 (2023)



Cover

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EDITORIAL

15003

50th anniversary of ICCST: celebrating ICCST at its 15th edition

Jamal Rafique,* Eder J Lenardão* and Antonio L. Braga*

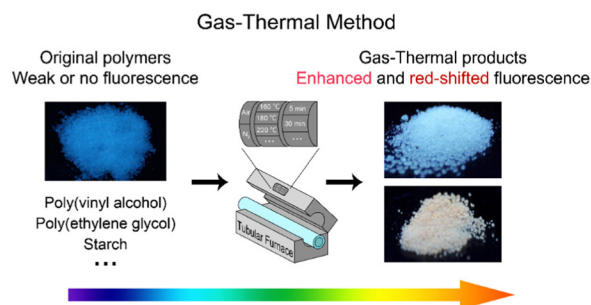


COMMUNICATIONS

15005

A gas-thermal method as a universal and convenient strategy for preparing non-traditional luminescent polymers with enhanced and red-shifted fluorescence

Yaxin Zhao, Wendi Xie, Junwen Deng, Deyu Liu, Haiqi Liu, Tianqi Li and Huiliang Wang*



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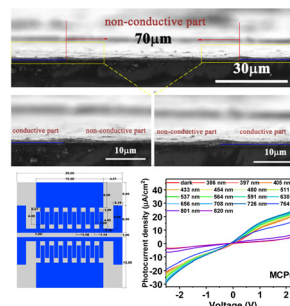


COMMUNICATIONS

15010

An efficient low-cost and facile ITO interdigital micro-photodetector based on mixed cationic perovskites for screening new optoelectronic materials

Mengqing Li, Wenhuan Cao, Xiangfei Min, Wenhui Li, Xueze Wang, Huidan Gao, Huawei Zhou,* Jie Yin and Xianxi Zhang*

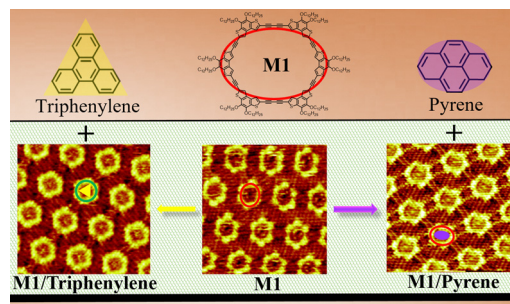


PAPERS

15014

Shape-responsive adsorption of an oval macrocycle co-deposited with guest molecules

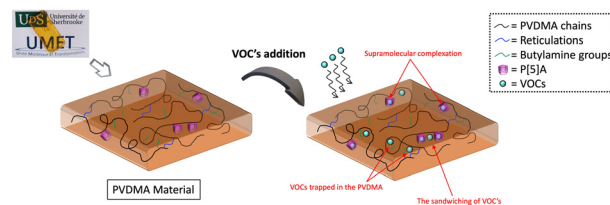
Yi Wang, Qingqing Han, Songyao Zhang, Deling Zhang, Xinrui Miao,* Xiaohong Cheng* and Wenli Deng



15021

Pillar[5]arenes-based high- T_g thermosets for the capture of volatile organic compounds

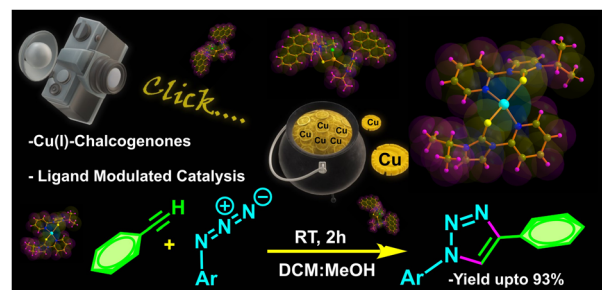
Solenne Ritaine, Valentin Ternel, Patrice Woisel, Jerome P. Claverie* and Jonathan Potier*



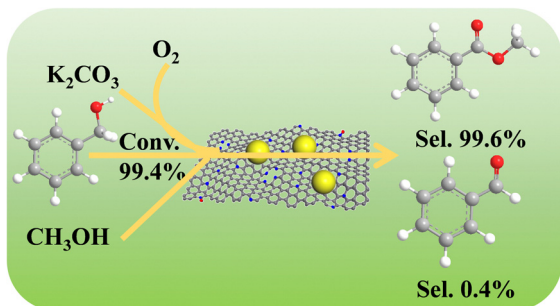
15027

Highly active higher coordinated copper(I)-N-heterocyclic chalcogenone catalysed click chemistry

Suman Mandal, Dinesh Harijan, Gopendra Muduli, Kalaivanan Subramaniyam, Aravind Kumar Rengan* and Ganesan Prabusankar*



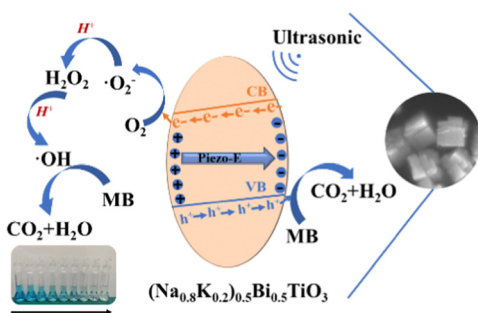
15036



Atomically dispersed cobalt–nitrogen–carbon catalysts for efficient oxidative esterification of aromatic alcohols

Fengwei Zhang,* Peihao Liu, Jingjing Li, Hefang Guo, Han Zhang, Zehui Zhang* and Zhengping Dong*

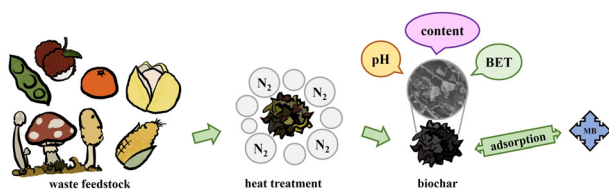
15047



Solvothermal synthesis of $(\text{Na}_{0.8}\text{K}_{0.2})_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ piezoelectric catalyst with morphotropic-phase-boundary structure for efficient dye degradation

Ning Xie, Li Jiang, Yuanwen Hou, Hongquan Fu,* Juan Zhang, Hejun Gao* and Yunwen Liao*

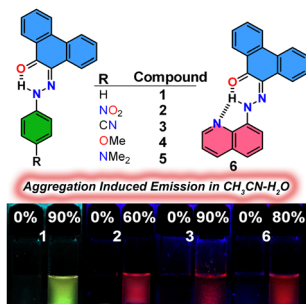
15057



Type-effects of multiple waste-sourced biochar feedstocks on methylene blue adsorption

Zhaolian Han, Qiushi Jiang, Yifeng Pei, Chunli Zhao, Jinying Li, Hao Dong and Zhiqiang Cheng*

15066



The effect of substituents on the aggregation-induced emission of 9,10-phenanthraquinone-hydrazone

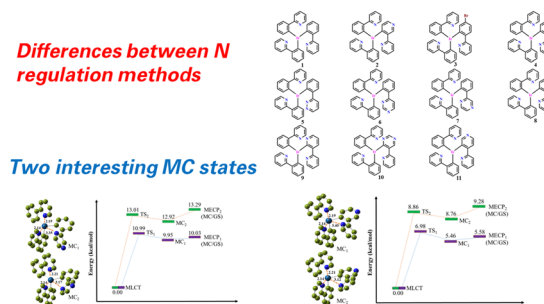
Naveen Kumar M, Deikrisha Lyngdoh Lyngkhoi, Sudhakar Gaikwad, Debabrata Samanta, Snehadrinarayan Khatua* and Susnata Pramanik*



15076

Regulation of internal reorganization energy to change the non-radiative channel in the Ir(III) complex: the role of N atoms

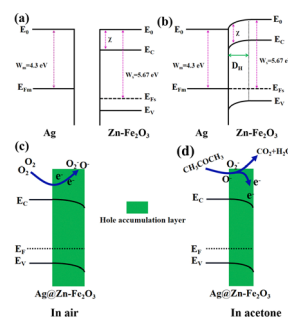
Lingkai Tang, Jiaxing Gao, Yafei Luo, Yan Cheng, Ling Liu, Dan Zheng, Li Liang, Jianping Hu and Ting Luo*



15089

The co-enhanced effect of Zn-doping and Ag-loading on the selectivity of a p-type Fe₂O₃ toward acetone

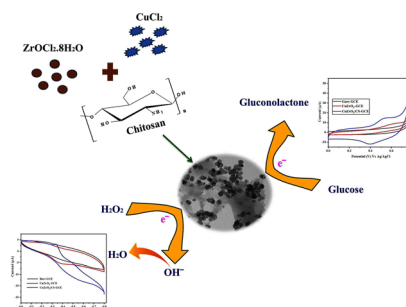
Qixuan Qin, Na Liu, Yan Zhang, Weiwei Bu, Zhijie Zhou, Changhua Hu and Xiaohong Chuai*



15099

A facile synthesis of CuZrO₂ nanoparticle functionalized chitosan for capable and stable non-enzymatic electrochemical detection of glucose and H₂O₂

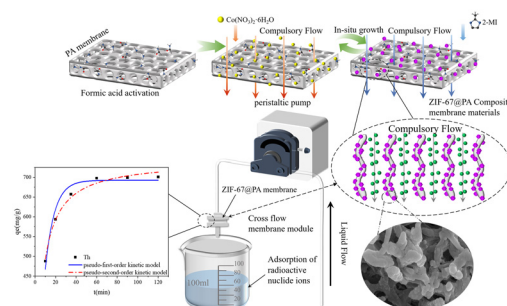
Ramesh Madhaiyan, Sankar Chinnusamy,* Umamatheswari Seeman* and Jayavel Ramasamy



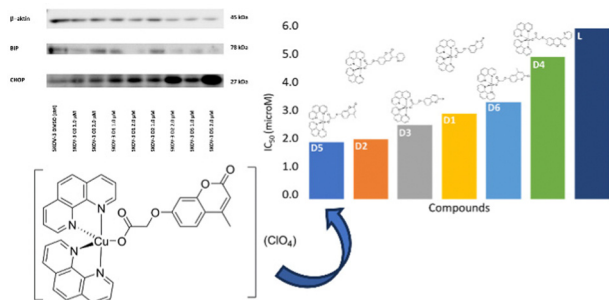
15111

ZIF-67@PA membranes based on deep permeation for rapid removal of a radionuclide: Th(IV)

Yaling Tang, Chunyan Chen,* Jian Zhou,* Qian Liu, Guoqing Xiao, Chunlin Chen, Yuheng Liu, Wanxin Chen and Shuyi Shang



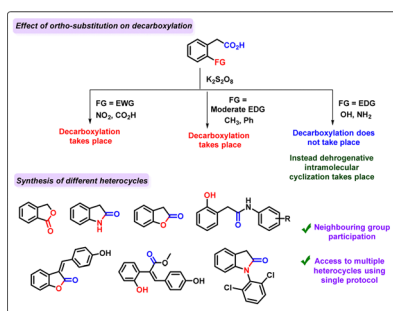
15125



Ternary copper(II) complexes of 1,10-phenanthroline and coumarin-based oxylacetates as pro-apoptotic UPR CHOP inducers

Sebastiano Masuri, Maria Grazia Cabiddu, Lukáš Moráň, Tereza Vesselá, Martin Bartosik, Josef Havel, Francesca Meloni, Enzo Cadoni, Petr Vaňhara and Tiziana Pivetta*

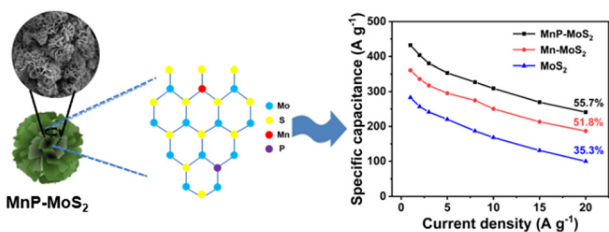
15137



Effect of *ortho*-substitution on persulfate-mediated decarboxylation and functionalization of arylacetic acids

Joydev K. Laha,* Upma Gulati and Saima

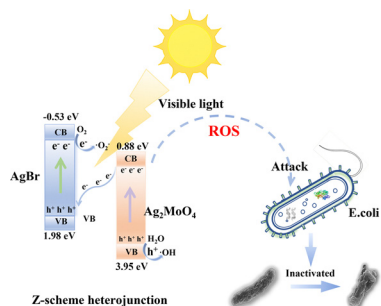
15143



Flower-like manganese and phosphorus co-doped MoS₂ with high 1T phase content as a supercapacitor electrode material

Yunan Li,* Xiaotian Wang, Jiayin Meng, Meng Song, Mingli Jiao, Qi Qin* and Liwei Mi*

15151



Construction of a AgBr–Ag₂MoO₄ heterojunction and its photocatalytic sterilization activity

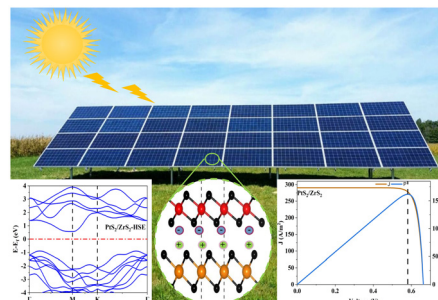
Qin Rao, Xiao Xian, Huaxiang Lin,* Rusheng Yuan, Zizhong Zhang, Jinlin Long and Qun Lin*



15162

Solar energy harvesting by a PtS₂/ZrS₂ van der Waals heterostructure

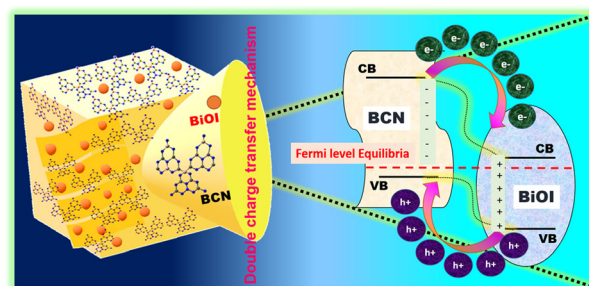
P. R. Parmar, S. J. Khengar, Disha Mehta, Yogesh Sonvane and P. B. Thakor*



15175

Double charge transfer mechanistic insights into the tailoring of BiOI nanoplates and boron-doped graphitic carbon nitride: a 2D/2D anchored p–n heterojunction nanocatalyst for improved photodegradation

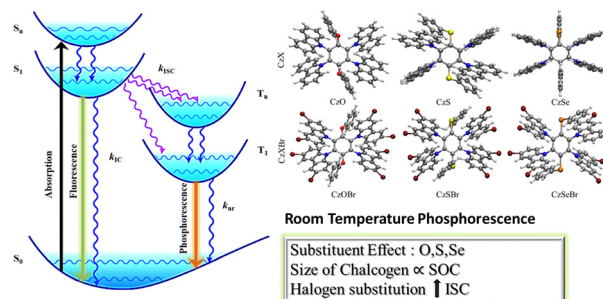
Pragnyashree Aparajita, Shubhalaxmi Choudhury, Ugrabadi Sahoo, Samarjit Pattnayak, Sandip Padhiari, Manamohan Tripathy and Garudadhvaj Hota*



15193

Theoretical insights into the room temperature phosphorescence properties in star-shaped carbazole-based molecules

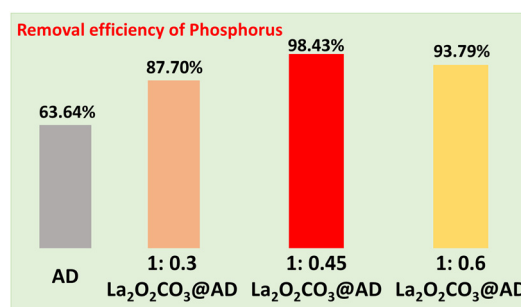
Naga Pranava Sree Kothoori, Pandiyan Sivasakthi and Pralok K. Samanta*



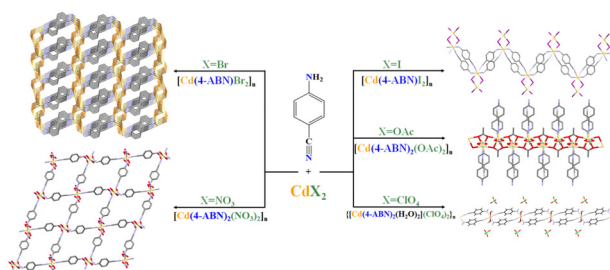
15201

Efficient removal of phosphate through adsorption by acidified diatomite loaded with La₂O₂CO₃

Rui Tian, Shu Yang, Ziyin Han, Ye Sun, Yexi Wang, Chen Wu, Qi Zhang, Jinyan Liu, Xulin Lu* and Zhiwei Zhang*



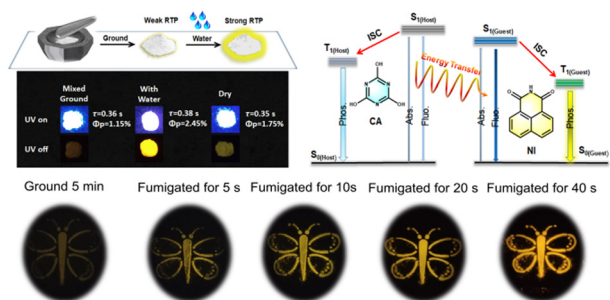
15209



Anion-induced structural diversity in cadmium coordination polymers of 4-aminobenzonitrile: a structural and DFT study

Behrouz Notash,* Ommolbanin Barzegar Tilenoie and S. Shahab Naghavi

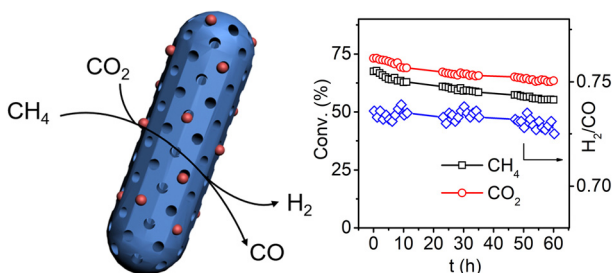
15219



Organic room temperature phosphorescence enhancement by grinding and adding water for humidity detection and anti-counterfeiting printing

Changli Zhang, Lingyun Lou, Yuzhan Li, Chengxiang Li, Dong Wang, Hui Cao, Wanli He and Zhou Yang*

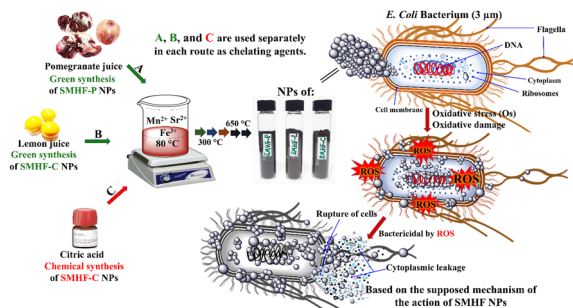
15226



Highly dispersed Ni nanoparticles supported by porous Al₂O₃ rods for catalytic dry reforming of methane

KeFa Sheng* and Kai Cui

15236



Green synthesis of M-type manganese-substituted strontium hexaferrite SrMn_xFe_{12-x}O₁₉ nanoparticles with intrinsic antibacterial activity against human pathogenic bacteria

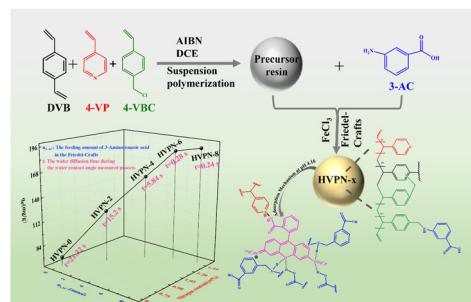
Rebaz F. Hamarawf, Dyari I. Tofiq* and Khalid M. Omer*



15250

Adsorption of Rhodamine B from aqueous solutions using polarity-tunable hyper-cross-linked resins

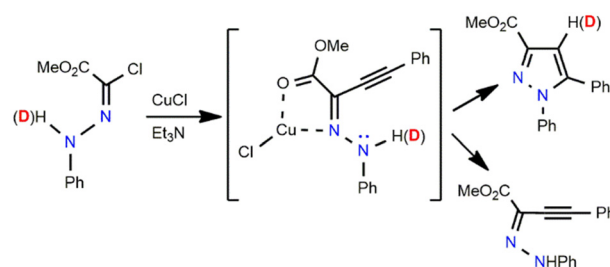
Xiaofeng You, Lin Han and Qing Liu*



15261

Mechanistic insights of the copper(i)-catalysed reaction between chlorohydrazone and terminal alkynes

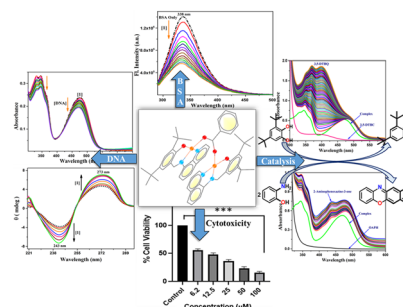
Alessandro Ponti, Alessandra Silvani and Giorgio Molteni*



15267

Synthesis of a new benzoate bridged NNO tethered copper(ii) complex: exploration of its bio, catalytic and anticancer activities

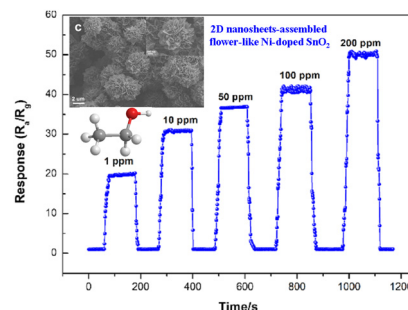
Subrata Mandal, Rahul Naskar, Rimi Mukherjee, Apurba Sau Mondal, Akash Das, Nabendu Murmu and Tapan K. Mondal*



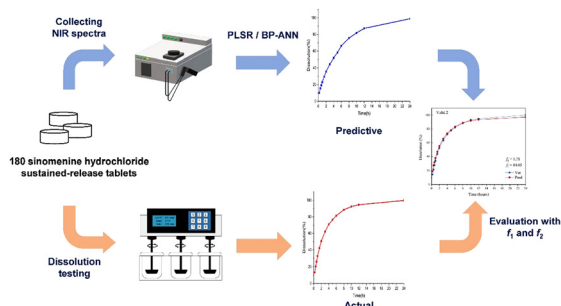
15283

Construction of flower-like hierarchical Ni-doped SnO₂ nanosheets and their gas sensing properties for ethanol

Wei Xiao, Zhao Jin, Wei Yang and Shantang Liu*



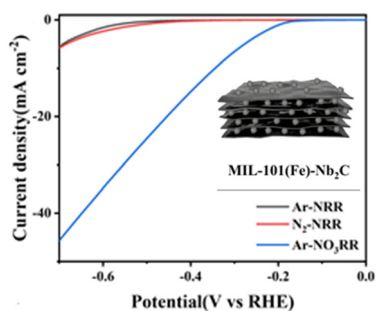
15291



Prediction of dissolution profiles of sinomenine hydrochloride sustained-release tablets part I: using near-infrared spectra as predictors

Wenlong Li, Long Wang, Xi Wang, Guangpu Fang, Qiang Zhang, Ping Qiu and Pengfei Tu*

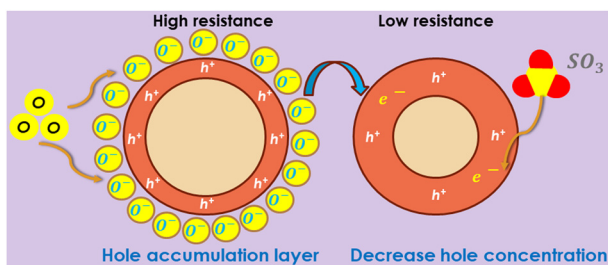
15302



MIL-101(Fe)@Nb₂C MXene for efficient electrocatalytic ammonia production: an experimental and theoretical study

Haiding Zhu, Sensen Xue, Fang Zhao, Qianqian Hua, Zhuangzhuang Liang, Xuefeng Ren, Liguang Gao, Tingli Ma and Anmin Liu*

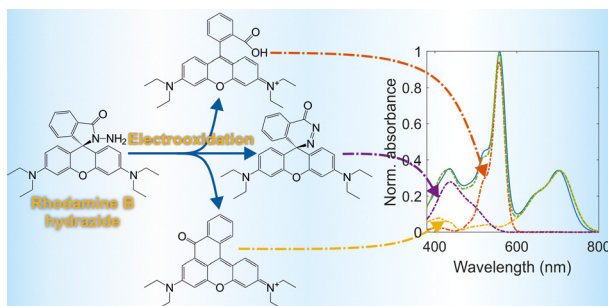
15309



Ni-doped Al₂O₃ sensor for effective SO₃ gas adsorption and sensing

V. Manikandan,* G. Ayyannan, Iulian Petrila, Rajaram S. Mane, Kamil Sobczak, J. Chandrasekaran, Robert D. Crapnell and Craig E. Banks

15318



Electrooxidation of rhodamine B hydrazide

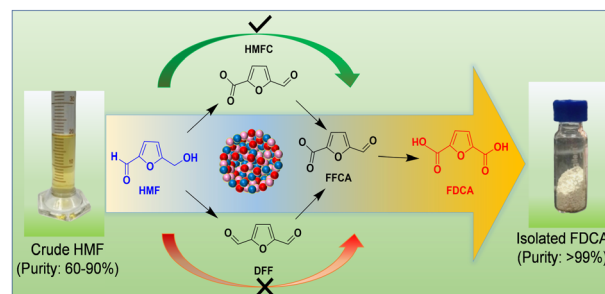
Nikita Belko,* Hanna Maltanova, Anatol Lugovski, Sviatlana Fatykhava, Polina Shabunya, Anastasiya Tabolich, Michael Samtsov and Sergey Poznyak



15325

Industry-oriented method for the aqueous phase oxidation of crude 5-hydroxymethyl furfural (HMF) to 2,5-furandicarboxylic acid (FDCA)

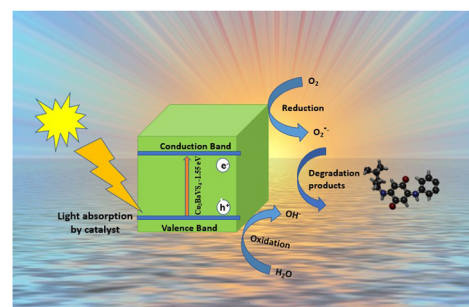
Priya Lokhande, Kalyani Sonone and Paresh L. Dhepe*



15336

Construction of chalcogenide Cu_2BaVS_4 nanograins from nanocubes *via* solvothermal synthesis for photoelectrochemical hydrogen/oxygen evolution in alkaline media and dye degradation applications

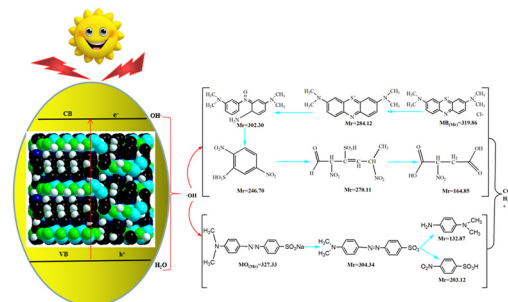
Sidra Aslam, Muhammad Awais, Nimra Usman and Muhammad Safdar*



15348

Efficient photocatalytic performance and the mechanism of copper(I) metal-organic framework nanosheets

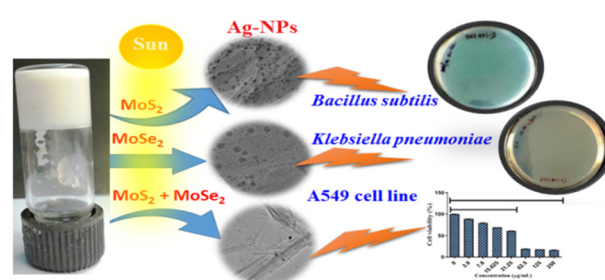
Shaolong Yang, Yuhuan Chen, Shixiong Li* and Huijun Chen*



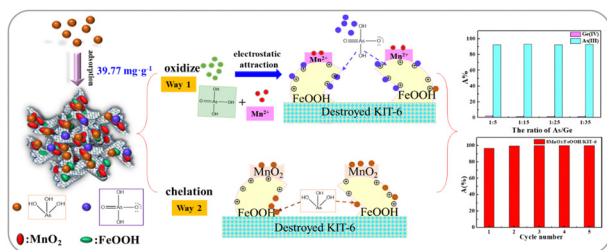
15357

MoS_2 and MoSe_2 2D nanosheets-based supramolecular nanostructure scaffold-capped Ag-NPs: exploring their morphological, anti-bacterial, and anticancer properties

Gerald Lepcha, Rajib Sahu, Santanu Majumdar, Saikat Banerjee, Arpita Bhowmick, Samya Sen, Bholanath Panda, Debasis Dhak, Keka Sarkar and Biswajit Dey*



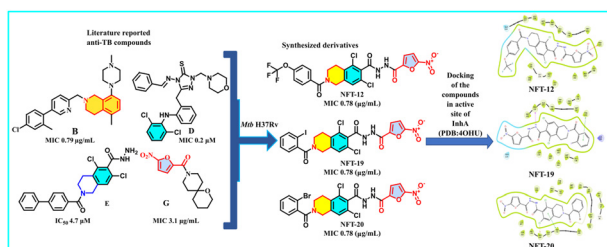
15366



Adsorbent nanoarchitectonics of $m\text{MnO}_2/n\text{FeOOH}/\text{KIT-6}$ for $\text{As}(\text{III})$ adsorption from wastewater

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15378



Tetrahydroisoquinoline based 5-nitro-2-furoic acid derivatives: a promising new approach for anti-tubercular agents

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