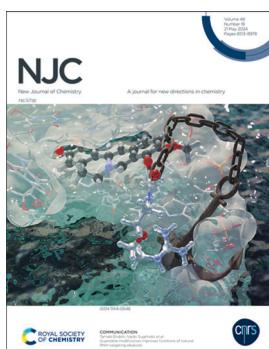


IN THIS ISSUE

ISSN 1144–0546 CODEN NJCHES 48(19) 8513–8978 (2024)



Cover

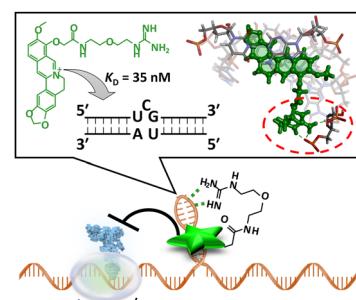
See Tamaki Endoh,
Naoki Sugimoto
et al., pp. 8529–8533.
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2024, 48, 8529.

COMMUNICATION

8529

Guanidine modification improves functions of natural RNA-targeting alkaloids

Tamaki Endoh,* Sagar Satpathi, Yutong Chen,
Saki Matsumoto, Tatsuya Ohyama, Peter Podbevšek,
Janez Plavec, Kazumitsu Onizuka, Fumi Nagatsugi and
Naoki Sugimoto*

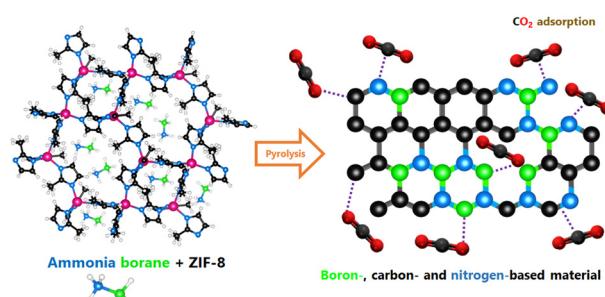


PAPERS

8534

A boron nitride–carbon composite derived from ammonia borane and ZIF-8 with promises for the adsorption of carbon dioxide

Carlos A. Castilla-Martinez,* Christophe Charmette,
Jim Cartier and Umit B. Demirci



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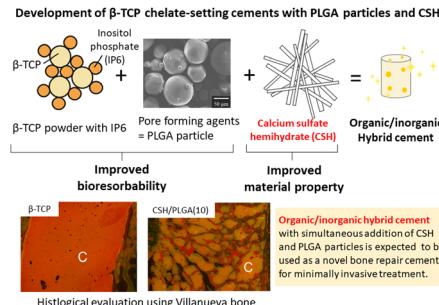


PAPERS

8545

Development of paste-like organic/inorganic artificial bones compatible with bone remodeling cycles, consisting of β -tricalcium phosphate, calcium sulfate hemihydrate, and poly(lactic-co-glycolic acid) particles

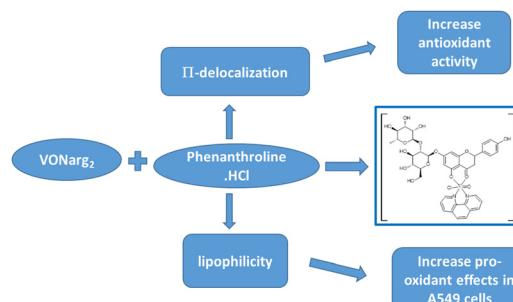
Yuki Kamaya, Akihiro Ando, Kazuto Suzuki, Kazuaki Nakano, Masaki Nagaya, Hiroshi Nagashima and Mamoru Aizawa*



8556

Influence of the secondary ligand, phenanthroline, on the antioxidant and pro-oxidant and cytotoxic effects of the oxidovanadium(IV)/naringin complex

Andrés G. Restrepo, Angel L. Huamani, Alexandra Velásquez Bravo, Pablo J. González, Luciana G. Naso,* Evelina G. Ferrer and Patricia A. M. Williams*

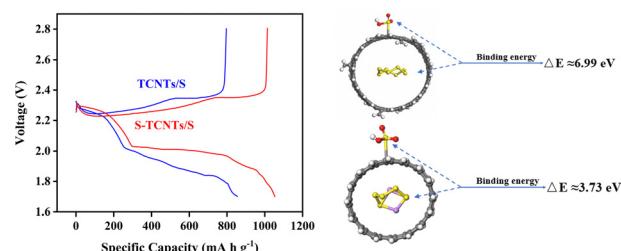


COMMUNICATIONS

8569

Sulfonic group modified carbon nanotubes: the decorative strategy for enhancing the performance of lithium-sulfur batteries

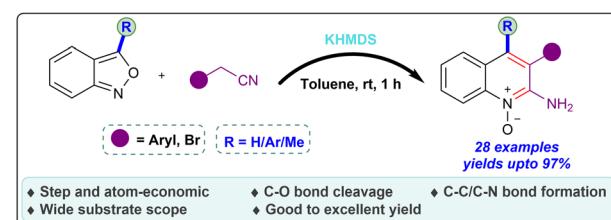
Chensong Yang, Yakun Tang,* Yue Zhang, Xingyan Zeng, Mengyao Dai and Lang Liu*



8574

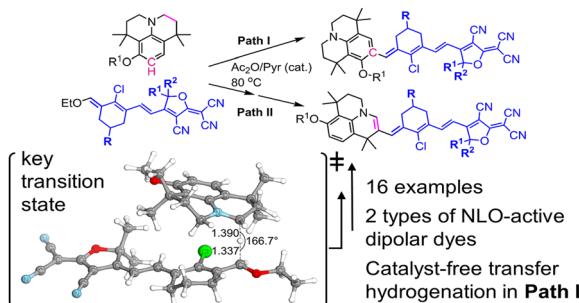
KHMDS mediated ring-opening/reconstruction of anthranils with arylacetonitriles: synthesis of multisubstituted 2-aminoquinoline N-oxides

Ram Singh Jat, Gautami Singh and M. Bhanuchandra*



PAPERS

8578



From byproducts to NLO-active dyes: catalyst-free transfer hydrogenation in the modular synthesis of merocyanines

Jie Zou, Yi Pan, Di Zhang, Jie Zhang, Weilong Chen, Hongyan Sun, Kai-Chung Lau* and Jingdong Luo*

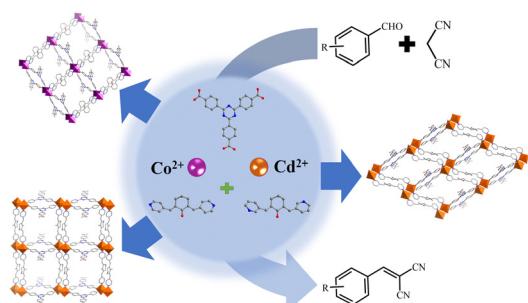
8589



Boric acid-grafted biochar (BoAB) for the direct amidation of carboxylic acids and amines

Adhish Singh and Mohit Kapoor*

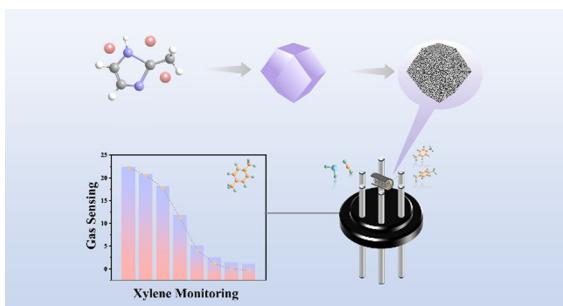
8597



Metal–organic frameworks constructed using acid–base mixed ligands, carboxylic acids and N-containing chalcone, and their catalytic performance for Knoevenagel condensation

Limin Cheng, Junyong Zhang, Caihong Zhan,* Hao Xu, Chunhua Gong* and Jingli Xie*

8603



Metal–organic framework-derived mesoporous Co_3O_4 with high specific surface area for enhanced xylene sensing

Liwen Wang, Guanghui Zhang, Ruishu Zhang, Siqi Yang, Wenjuan Huang* and Xiangbai Chen*

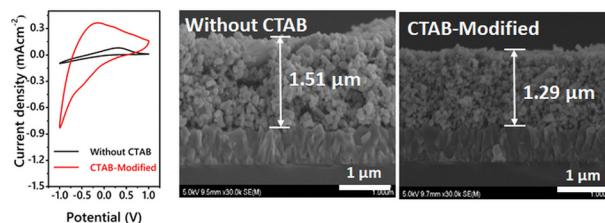


PAPERS

8611

Exploring the impact of a cetyltrimethylammonium bromide surfactant on the electrochemical performance of tungsten oxide thin films

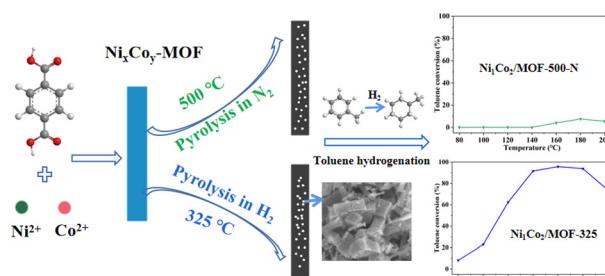
Munazza Razzaq, Muhammad Saifullah,* Ramzan Akhtar, Muhammad Jawad Khan, Zahid Imran,* Muhammad Rehan, Ahsan Jamal, Sajid Iqbal, Mohsin Ali Raza Anjum and Sheeraz Mehboob



8620

Ni–Co alloys via controlled pyrolysis of NiCo–MOF as heterogeneous hydrogenation catalysts

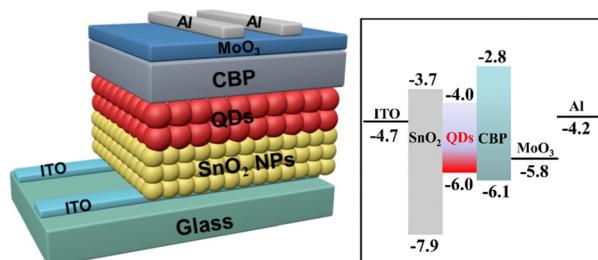
Lidan Deng,* Xingwang Liu, Chong Chen, Lu Wang, Fan Liu and Jie Zhang*



8631

Ligand-assisted solvothermal precipitation synthesis of quantum-sized SnO₂ nanoparticles and their application in quantum dot light emitting diodes

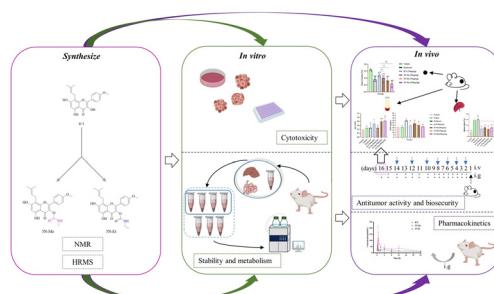
Jiaxin Gao, Mengxin Liu, Xinan Shi* and Daocheng Pan*



8638

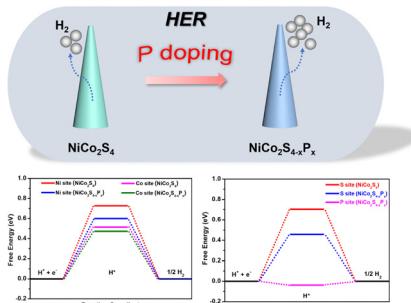
Structural optimization of icaritin for advanced cancer: novel carbamates via oral administration

Fengxiao Li, Weiping Wang, Jiaqi Fan, Yixiu Zhai, Jiaming Zhang, Tianhong Zhang* and Qikun Jiang*



PAPERS

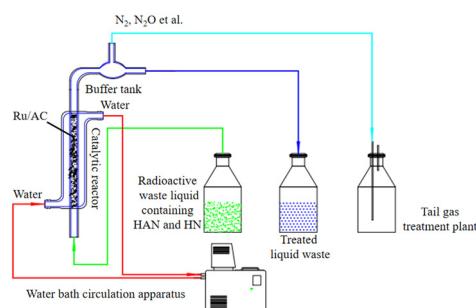
8648



Construction of $\text{NiCo}_2\text{S}_{4-x}\text{P}_x$ nanowire arrays for efficient hydrogen evolution reactions in both acidic and alkaline media

Guanglei Liu, Yutong Feng, Yifan Yang, Yuan Wang, Huixiang Liu, Can Li, Mingxin Ye* and Jianfeng Shen*

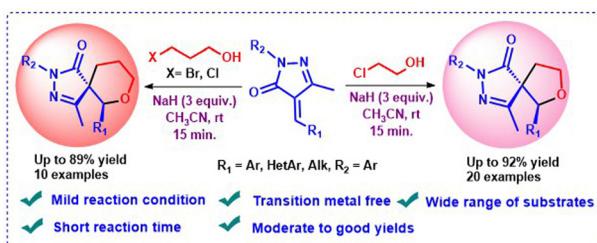
8660



Catalytic decomposition of hydrazine nitrate and hydroxylamine nitrate in radioactive nitric acid waste liquid using Ru/AC catalyst

Deyan Yu, Baole Li*, Zhi Cao, Qi Chen, Chen Zuo, Tiansheng He, Taihong Yan and Weifang Zheng*

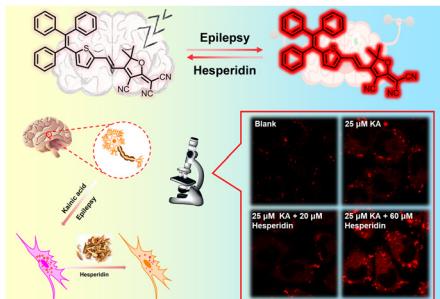
8667



Facile synthesis of spiro-pyrazolone-tetrahydrofurans/pyrans: *ipso*-cyclization of arylidene pyrazolones with haloalcohols

Kavyashree Kuppaya Gond and Mahagundappa Rachappa Maddani*

8672



Evaluation of the antiepileptic activity of hesperidin by fluorescence imaging

Yan Yin, Wenhui Song, Yinhui Ai and Weiying Lin*

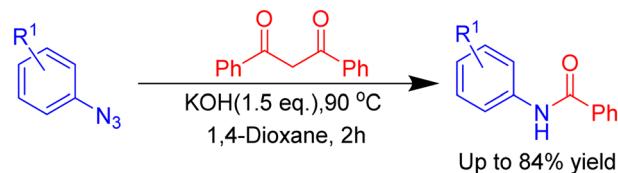


PAPERS

8679

KOH-mediated synthesis of amides from azides and 1,3-dicarbonyl compounds

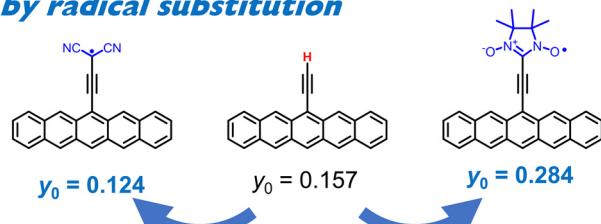
Zhuoran Yang, Yao Xu, Xiaoming Liao, Wenjun Wang, Chang Lyu* and Xiaoxiang Zhang*



8683

Theoretical investigation of the effect of radical substituents on the open-shell character of polycyclic aromatic hydrocarbons

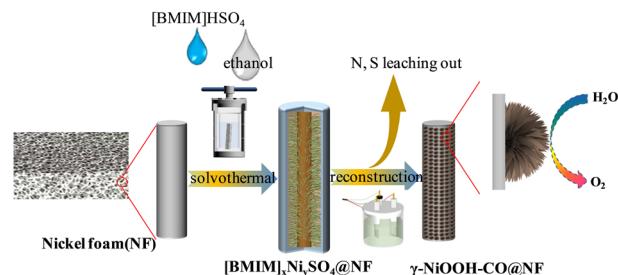
Tomohito Shinozuka, Daiki Shimizu* and Kenji Matsuda*

Open-shell character modulation by radical substitution

8690

1-Butyl-3-methylimidazolium hydrogen sulfate-induced structure modification and reconstruction of nickel foams for oxygen evolution reactions

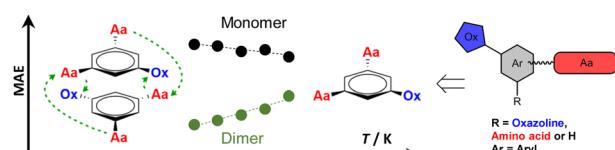
Huamei Yang,* Ziqin Chen, Kai Luo, Mengjun Yu and Yao Zhang*



8702

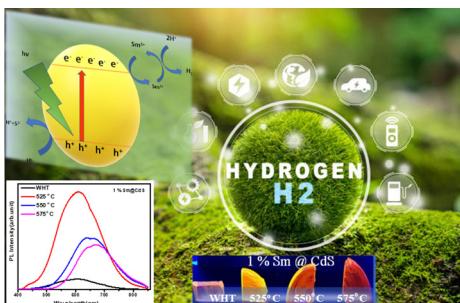
Oxazoline amino acid bioconjugates: one-pot synthesis and analysis of supramolecular interactions

Marija Bakija, Berislav Perić and Srećko I. Kirin*



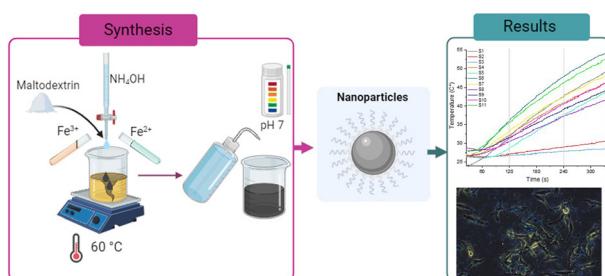
PAPERS

8720

**A cubic Sm@CdS Q-dot glass as a photocatalyst for solar H₂ generation**

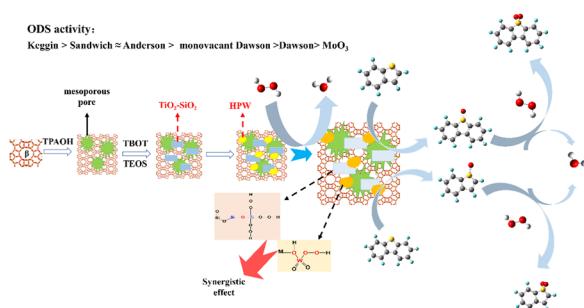
Vijay B. Autade, Rajendra P. Panmand,* Sandeep A. Arote, Reshma S. Ballal, Sonali D. Naik, Milind V. Kulkarni and Baharat B. Kale*

8727

**Synthesis and characterization of magnetite coated by maltodextrin for application in magnetic hyperthermia**

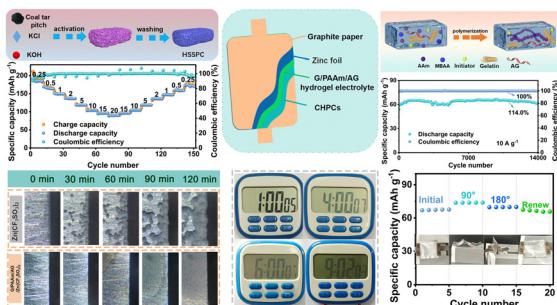
Yasmin Milena Loth Bueno,* Filipe Kalil da Silva Naves, Tamires Pereira Rosa, Odivaldo Cambraia Alves, Marcel Guimarães Martins, Marla Karolyne dos Santos Horta, Giane Gonçalves Lenzi, Celio Lucas Valente Rodrigues, Jéssica Dornelas da Silva and Rodrigo Brackmann

8743

**Catalytic oxidative desulfurization performance of a modified nano-sized β zeolite loaded with different structural polyoxometalates**

Jinhong Li, Haonan Li, Zhimei Song, Ying Guo, Mengxiao Tai, Mei Han, Xinyao Wang, Lidong Chen* and Dongmei Ren*

8753

**A robust dual-network hydrogel electrolyte coupled with a porous carbon material for flexible quasi-solid-state zinc ion hybrid supercapacitors**

Chenchen Ji,* Xinhong Lin, Yang Hong, Junfeng Liu, Aoteng Liu, Yijia Yao, Sicheng Liu and Hongyu Mi*

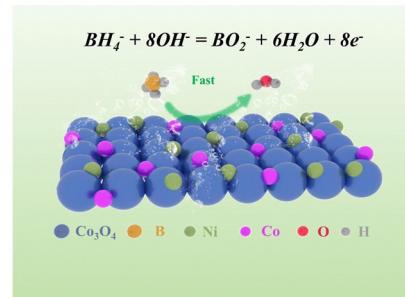


PAPERS

8763

Rational design of a low-cost, simple technology and high-performance $\text{CoNi}/\text{Co}_3\text{O}_4$ as a catalyst in sodium borohydride electro-oxidation reaction

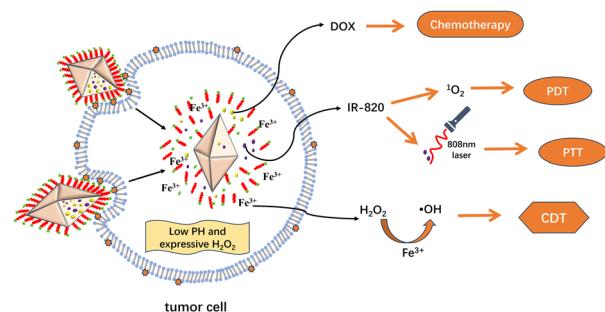
Kaixuan Liu, Borong Lu, Ronghang Cui, Jinling Yin, Kai Zhu, Guiling Wang, Dianxue Cao and Ke Ye*



8773

Metal–organic framework-based pH/NIR dual-responsive nanoparticles for combined photothermal/photodynamic therapy and chemotherapy of cancer

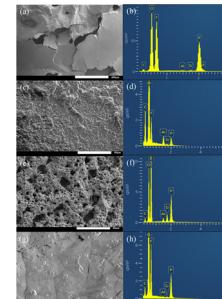
Lihua Huang, Ying Luo, Yiyang Cong, Jia Liu, Caiyan Xu, Zhaoxiang Zeng, Yihua Yin, Hao Hong* and Wenjin Xu*



8789

The study of the synergistic effect of the oxysilane and phosphite-based flame retardant additive and its application in lithium-ion batteries

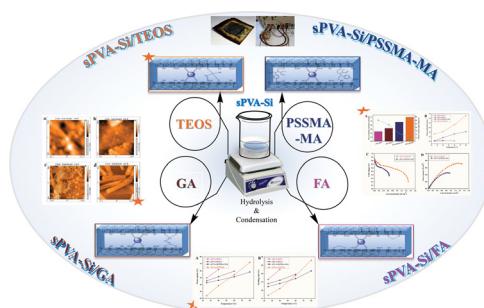
YuChao Chen, Jin Liang* and Jiang Cao



8799

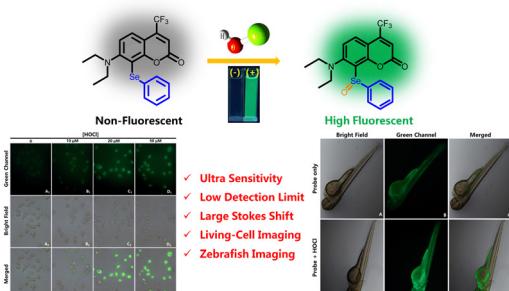
Development of robust proton exchange membranes using a sPVA–silica composite with different crosslinkers and evaluation of their fuel cell performance

Sachin Hegde, Balappa Munavalli, Divya Achari, Ranjith Gowda and Mahadevappa Kariduraganavar*



PAPERS

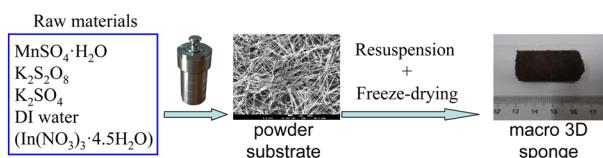
8809



A selenide-based coumarin fluorescent probe for fluorescence imaging of hypochlorous acid in cells and zebrafish

Yan He, Taorui Yang, Bin Lin, Jiaxin Fan and Yifeng Han*

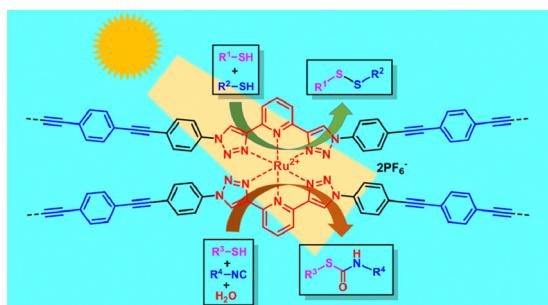
8818



Synthesis, characterization and properties of indium-doped manganese oxide molecular sieve sponges

Zhenxin Liu, Xidong Wang, Xuehui Guo, Depeng Wu and Yu Xing*

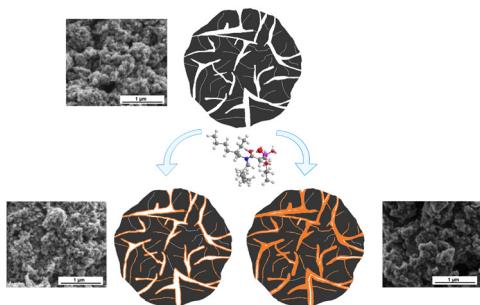
8827



2,6-Bis(1,2,3-triazol-4-yl)pyridine ruthenium(II) complex embedded porous organic polymers as efficient photocatalysts for organic transformations

Yan Zeng, Yujie Zhang, Jingwen Luo and Junqi Nie*

8834



Functionalized graphene nanoplatelets: a promising adsorbent for solid-phase uranium extraction

Aline Dressler, Antoine Leydier* and Agnès Grandjean

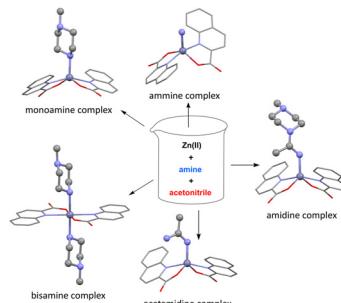


PAPERS

8844

Piperidine and piperazine analogs in action: zinc(II)-mediated formation of amidines

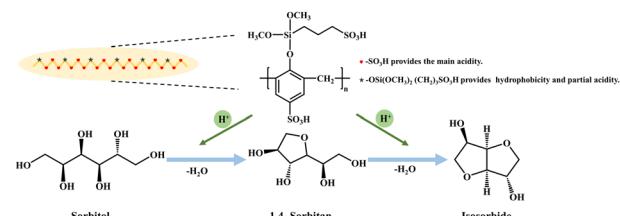
Nina Podjed, Janez Košmrlj and Barbara Modic*



8860

Catalytic dehydration of sorbitol to isosorbide over sulfonated phenolic resins with surface hydrophobicic modification

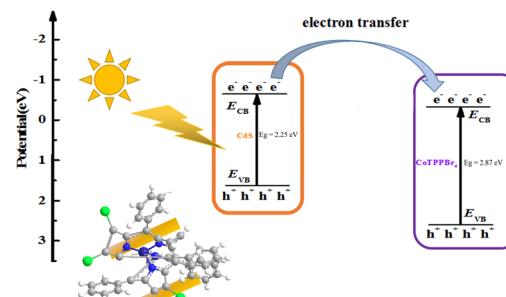
Kaizhe Zhang, Kang Wang* and Xitao Wang*



8868

Enhancing the photocatalytic hydrogen production performance of CdS by introducing a co-catalyst CoTPPBr₄ (7,8,17,18-tetrabromo-5,10,15,20-tetraphenylporphyrin)

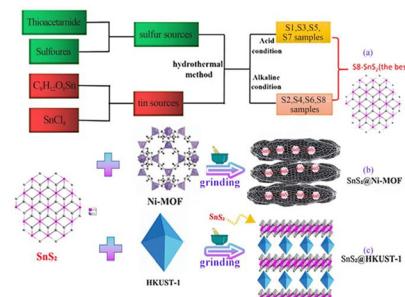
Zong Wang, Xinxin Wang, Kelai Chen, Haojun Yin, Huangsheng Su, Yundang Wu, Chunlin Ni* and Wei Liu*



8877

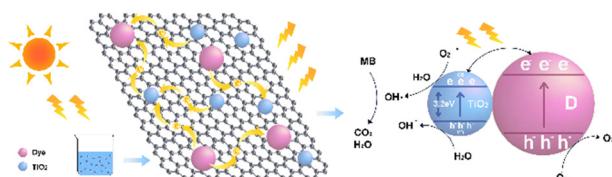
Facile grinding method synthesis of SnS₂@HKUST-1 and SnS₂@Ni-MOF for electrocatalytic hydrogen evolution

Hongtao Cui, Lige Gong, Hongyan Lv, Limin Dong,* Jihua Wang, Jingyu Zhang, Yitong Mu, Yunhao Gu, Hui Li, Binghe Yang and Meijia Wang



PAPERS

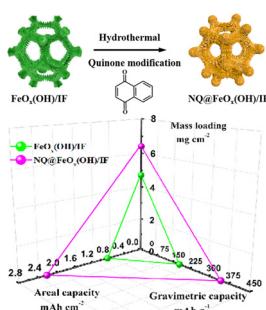
8886



Visible light active dye-sensitizing titanium dioxide/graphene composites with excellent photocatalytic activity

Keyu Li, Miaoqing Liang, Fanglan Guan, Mei Zhang, Jinmei Nie and Lihong Bao*

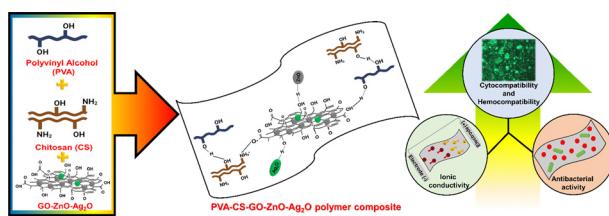
8896



Improved electrochemical performance of the $\text{FeO}_x(\text{OH})/\text{IF}$ electrode *via* *in situ* surface modification with organic naphthoquinone molecules

Zongyi Shang, Jiayu Li, Yu Chen, Zhigang Zhao* and Caixia Zhou*

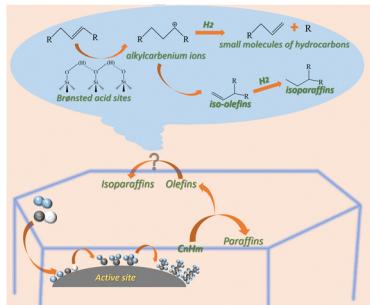
8908



PVA-CS polymeric system conjugated with GO-ZnO-Ag₂O ternary composite – a multifunctional nanocomposite for wound healing applications

Gayathri Unnikrishnan, Anjumol Joy, M. Megha, Jibu Thomas, M. Haris, Elayaraja Kolanthalai* and Senthilkumar Muthuswamy*

8926



Silicalite zeolite-supported iron catalysts for enhancing isoparaffin selectivity from CO hydrogenation

Wuqiang Si, Xuangan Liu, Zhiren Xu, Chunyang Zeng, Mingquan Li, Chuang Xing, Bin Huang,* Peng Wang, Yan Xu and Shuai Wei*

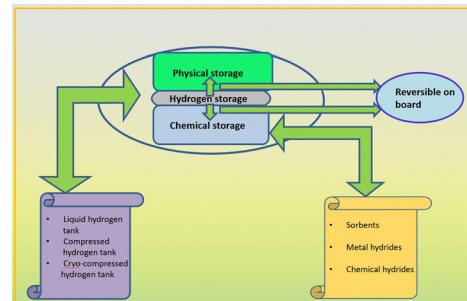


PAPERS

8933

Nanomaterial-based energy conversion and energy storage devices: a comprehensive review

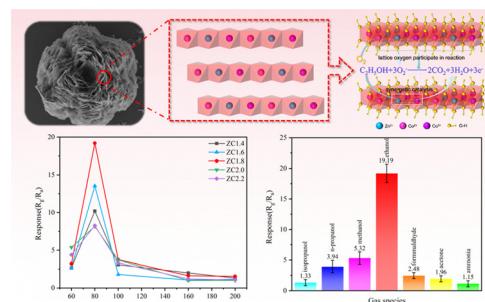
Nosheen Farooq,* Zohaib ur Rehman,
 Muhammad Imran Khan,* Saira Asghar, Maryam Saleem,
 Ravia Irshad, Azka Sheikh, Abdallah Shanableh,
 Suryya Manzoor and Zaib Ullah Khan



8963

Effect of laminate structure on morphology and ethanol sensing properties of hierarchical zinc–cobalt layered double hydroxides

Zijin Fu, Jing Lu,* Jingjing Zhu, Rongrong Wang and
 Liangliang Feng



CORRECTIONS

8974

Correction: Improved the CO₂ adsorption performance in cobalt oxide nanoparticles in the presence of DES

Narmin Noorani,* Amin Moghaddasfar, Abbas Mehrdad and Masih Darbandi

8975

Correction and removal of expression of concern: Deep eutectic solvent mediated synthesis and fabrication of a WO₃–MgO nanocomposite as an electrode material for energy storage applications

C. Joel, R. Biju Bennie,* A. Jerold Antony, A. Nirmal Paul Raj and G. Selvakumar



CORRECTIONS

8976

Correction: Design and synthesis of few-layer molybdenum oxide selenide encapsulated in a 3D interconnected nitrogen-doped carbon anode toward high-performance sodium storage

Yonghong Qin, Shahriman Zainal Abidin,* Azhari Bin Md Hashim, Oskar Hasdinor Hassan and Xiaojun Zhao*

