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Cover

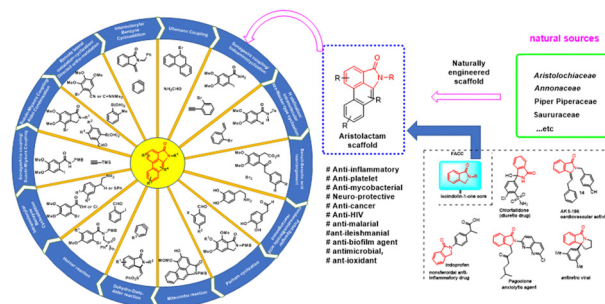
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Aiqin Luo *et al.*,
pp. 16337–16344.
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2023, 47, 16337.

PERSPECTIVE

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The isolation-biological activities (2014–2022), bio, semi, total synthesis (1978–2022) and SAR studies of a potential naturally engineered scaffold aristolactam

Mallu Chenna Reddy,* Ashutosh Dey,
Masilamani Jegannathan* and Kishor Padala*

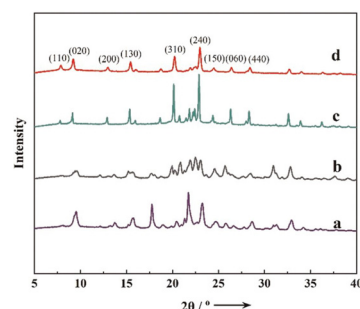


COMMUNICATIONS

16308

Amine-assisted ionothermal synthesis of in-plane oriented AEL molecular sieve corrosion-resistant coatings

Wenche Wu, Yinuo Han, Xiaoming Yu, Nan Li,
Yuanxin Cao, Qiang Chen* and Tongwen Yu*



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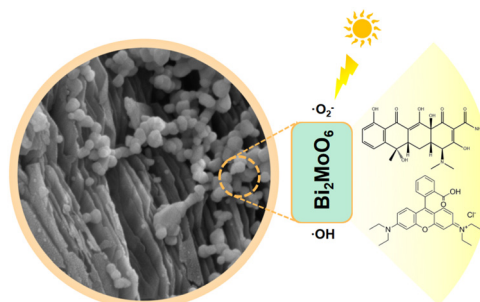


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New construction method of Bi_2MoO_6 /kaolinite with efficient visible photocatalytic activity

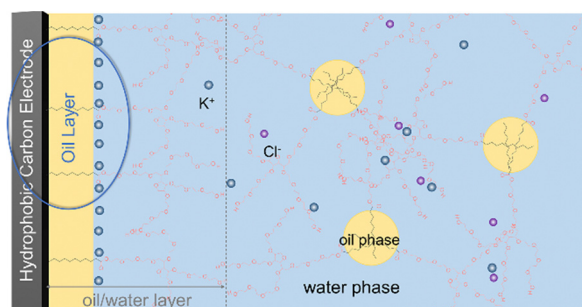
Guangxin Zhang,* Shilin Li and Yifei Li



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An aqueous electrolyte with up to 2.9 V operating voltage

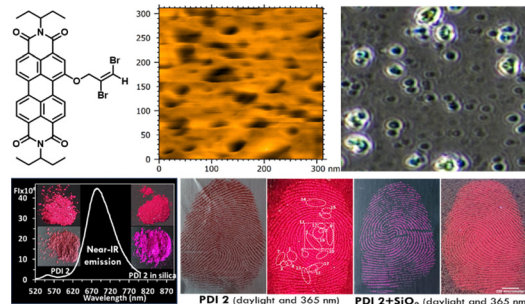
Danian Liu* and Wenhai Peng*



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Perylene diimide with solid-state NIR luminescence for imaging of latent fingerprints (sweat pores)

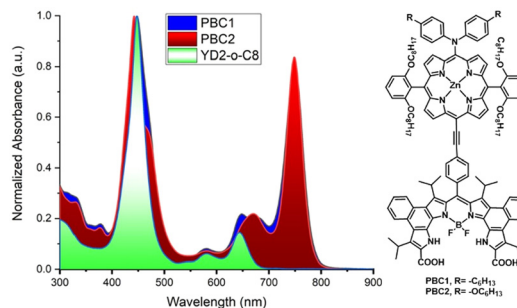
Navdeep Kaur and Prabhpreet Singh*



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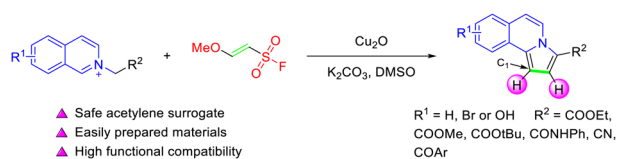
Intense NIR absorbing porphyrin based dyes with BODIPY as the acceptor

Jyotsna Bania, Sipra S. Sahoo, M. V. Nanda Kishore and Pradeepta K. Panda*



COMMUNICATIONS

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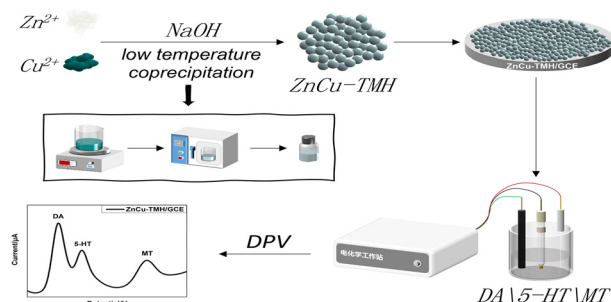


(E)-2-Methoxyethene-1-sulfonyl fluoride as a precursor of acetylene for synthesis of C_1/C_2 non-functionalized pyrrolo[2,1-a]isoquinoline derivatives

Jiahong Ma, Weikang Lin and Hua-Li Qin*

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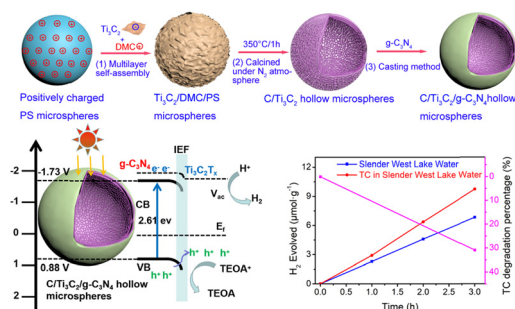
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An amorphous zinc/copper double transition metal hydroxides for electrochemical simultaneous detection of dopamine, serotonin, and melatonin

Shanshan Tang, Miao Liu, Wei Wang, Axin Liang, Fulai Zhang and Aiqin Luo*

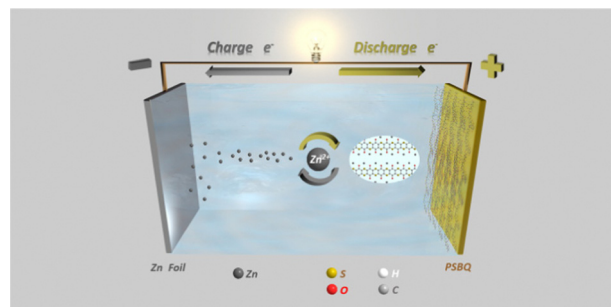
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Hydrogen production and degradation of organic pollutants catalyzed by $C/Ti_3C_2/g-C_3N_4$ hollow microsphere Schottky junctions with a built-in electric field in organic wastewater

Xiang Qin, Lijun Ji* and Aiping Zhu*

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Chuanzheng Zhu, Jin Chen, Bingjie Zhao, Xin Jiao, Zhiqiang Luo* and Kaixiang Lei*



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Chemo-selective CuPcS catalyzed reduction and esterification of carboxylic acid analogs

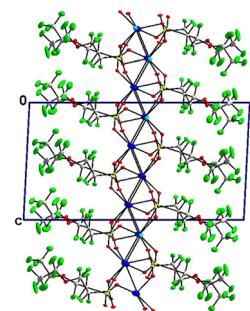
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Europium(III) bis[tetrafluoro-2-(pentafluoroethoxy)ethanesulfonate] – structure and spectroscopic properties of a new near-UV emitter

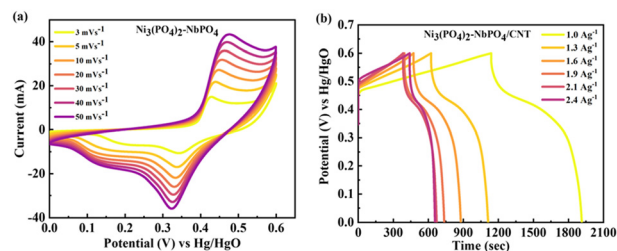
Przemysław Starynowicz



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A tri-material trifecta: designing a high-performance electrode for asymmetric supercapacitors and an electrocatalyst for HER applications with $\text{Ni}_3(\text{PO}_4)_2\text{-NbPO}_4/\text{CNT}$ nanocomposites

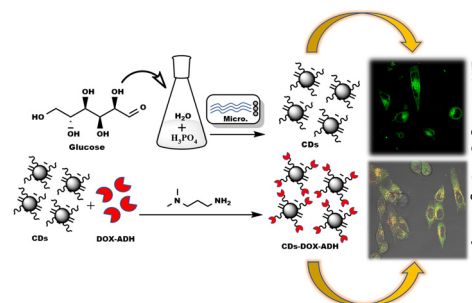
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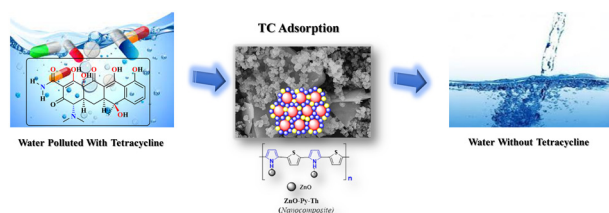
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Glucose-derived carbon dots for targeted delivery of doxorubicin in cancer therapy

Naveneet Dubey, Suman Ramteke,* N. K. Jain, Tanoy Dutta and Apurba Lal Koner*



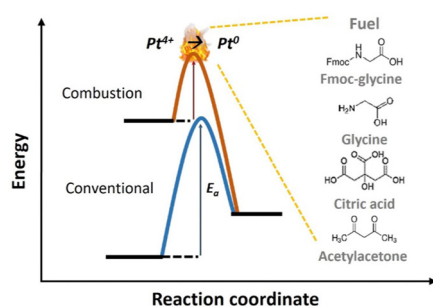
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Synthesis, characterization, and application of a zinc oxide-pyrrole-thiophene nanocomposite as an efficient adsorbent for the removal of tetracycline

Jahangir Ahmad War and Hamida-Tun-Nisa Chisti*

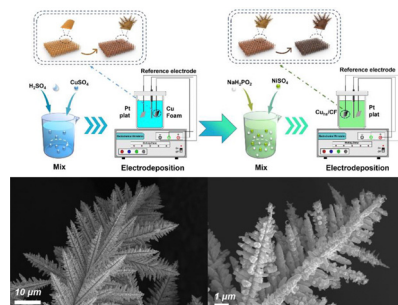
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Fuel-assisted polyol reduction for highly transparent and efficient Pt counter electrodes in bifacial dye-sensitized solar cells

Kantapa Yolthida, Dang Xuan Long, Ghifari M. Alvien and Jongin Hong*

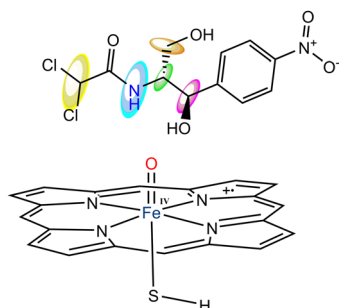
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Preparation of a phosphorus-doped copper-nickel electrode and its application in electro-hydrogenation of 5-HMF

Yu Liu, Yi-Yi Peng, Yan Zhong, Ru-Quan Ren and Yong-Ming Fan*

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Mechanistic insights into chloramphenicol-mediated inactivation of cytochrome P450 enzymes and their active site mutants

Emadeldin M. Kamel,* Ahmed M. Tawfeek, Ashraf A. El-Bassuony and Al Mokhtar Lamsabhi

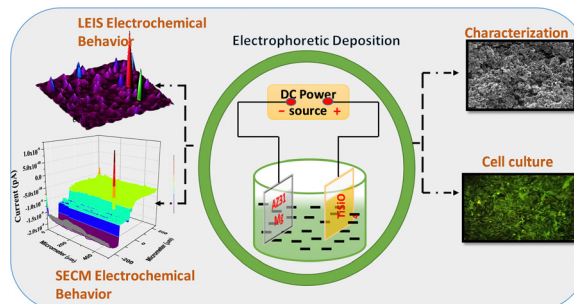


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Electrochemical evaluation of AZ31 Mg alloy in corrosion protection of titanium silicon oxide from Earle's solution

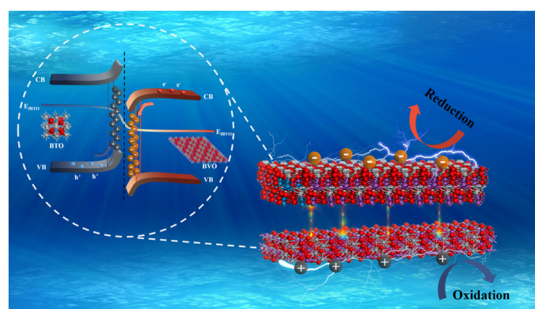
M. Kalaiyarasan* and N. Rajendran*



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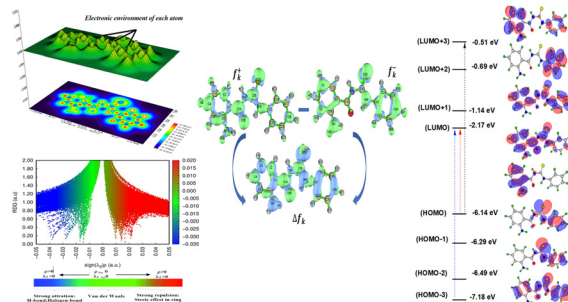
Insights into the superior singlet oxygen production for BiVO₄/Bi₄Ti₃O₁₂ S-scheme heterojunction catalysts

Xuebing Hao, Yue Chen and Xintong Liu*



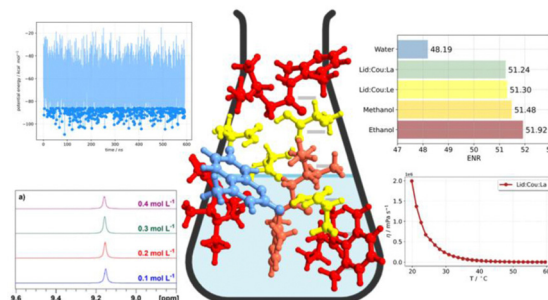
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Revealing the contributions of DFT to the spectral interpretation for an amino benzoyl thiourea derivative: Insights into experimental studies from theoretical perspectives, and biological evaluation

Ahmed M. Hegazy, Nesreen S. Haiba, Mohamed K. Awad,*
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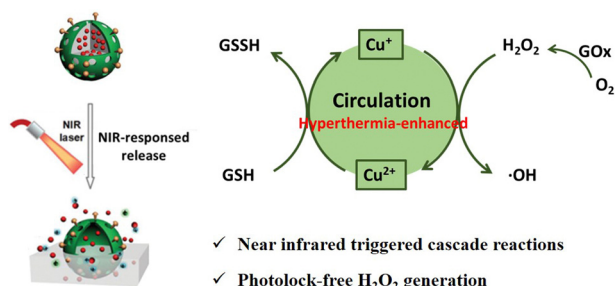
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Design, preparation and characterization of 7-hydroxy-4-methylcoumarin-based deep eutectic solvents

Martina Jakovljević Kovač, Maja Molnar,*
Tomislav Jednačak, Tomislav Balić and Jurica Novak

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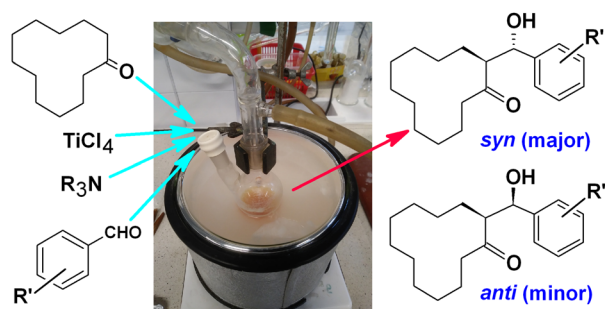
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Near infrared triggered cascade reactions for photothermal/chemodynamic synergistic therapy

Peijing An,* Songjinma Yin, Yule Qiang, Fuyi Shui, Qiao Zhang, Congbiao Zhao, Haipin Zhou and Fenyu Yu

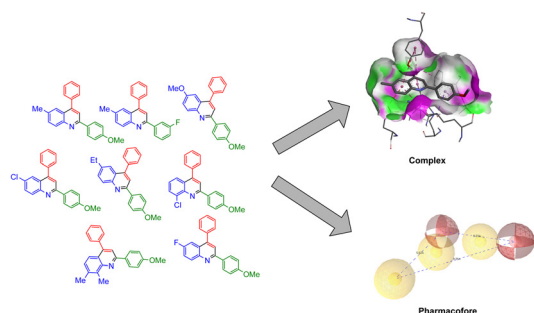
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Titanium(IV) enolates of cyclic ketones – stereoselective addition of cyclododecanone to aromatic aldehydes

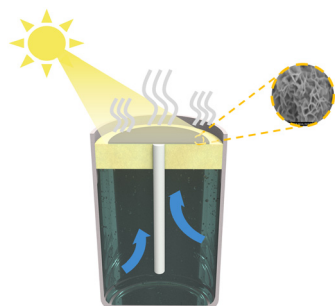
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Synthesis and *in silico* study of 2,4-diphenylquinolines as potential KDM4B protein inhibitors

Dayana Orosco, Gustavo A. Barraza, Carlos E. Puerto Galvis, Vladimir V. Kouznetsov and Carlos M. Meléndez*

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Micro-flower like 1T-2H-MoS₂@ZIF8@C composites for efficient interfacial solar vapor generation

Yulong Zheng, Hui Zhang, Pei Han, Zhaoshun Zhang, Xueqin Zuo,* Qun Yang,* Huaibao Tang, Shaowei Jin and Guang Li*

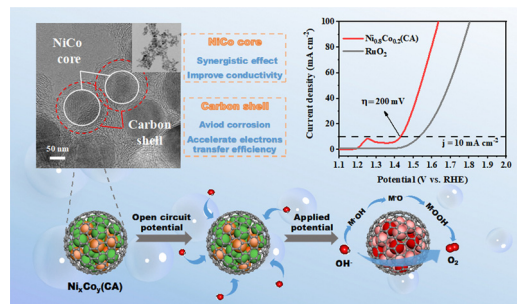


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Defect-rich carbon-coated nickel–cobalt alloy nanoparticles enhanced the OER catalytic activity through surface reconstruction

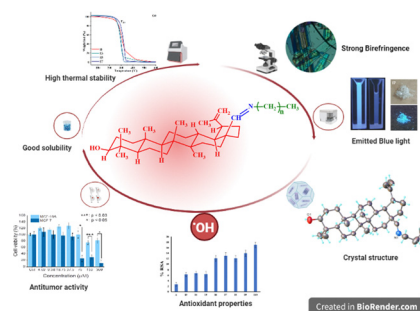
Jiajia Liu, Xiao Wang, Yulin Min, Qiaoxia Li* and Qunjie Xu*



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New betulin imine derivatives with antioxidant and selective antitumor activity

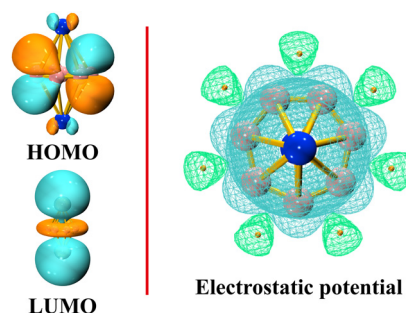
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Structural evolution, charge transfer and bonding properties of medium-sized atomic rubidium-doped boron clusters

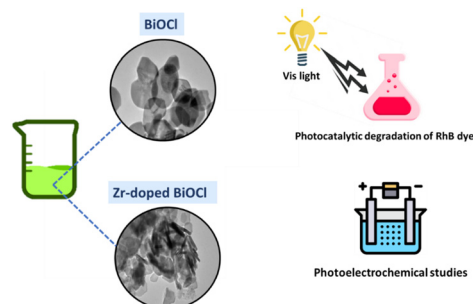
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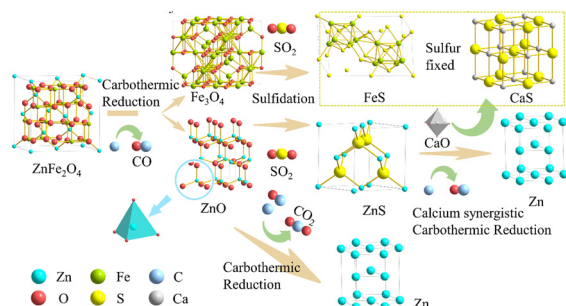
Zirconium-doped BiOCl for enhanced visible light-induced photocatalytic degradation of RhB dye and photoelectrochemical studies

Asyiqin Zulkiflee, Mohammad Mansoob Khan,* Mohd Yusuf Khan, Abuzar Khan, Aniz Chennampilly Ummer and Mohammad Hilni Harunsani



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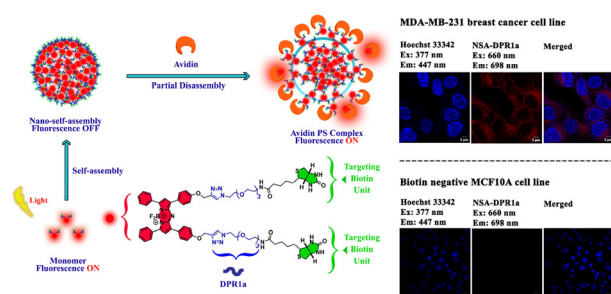
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Phase transformation analysis and process optimisation of low-grade lead–zinc oxysulphide ore carbothermal reduction

Keren Hou, Bingguo Liu,* Zhonghua Zhou, Siyu Gong, Jianping Liu, Chao Yuwen, Yunfei An, Wang Chen, Bangjian Wu and Zihu Liu

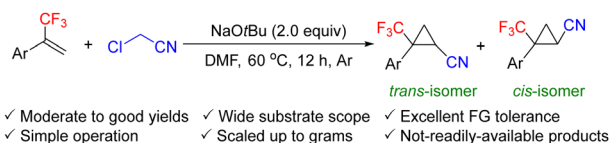
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Avidin triggered turn-on NIR-fluorescent aza-BODIPY-biotin self-assemblies for cancer cell imaging

Dhiraj Dutta, Rajshree R. Nair, Nasib Kayastha, S. Asha Nair and Pranjal Gogoi*

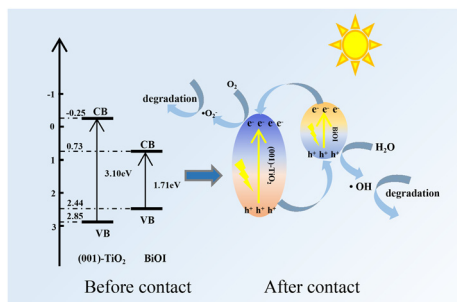
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Efficient synthesis of functionalized trifluoromethyl cyclopropanes via cyclopropanation of α -trifluoromethyl styrenes with chloroacetonitrile and ethyl chloroacetate

Yupian Deng, Ying Liu, Jingjing He, Pai Zheng, Zhudi Sun and Song Cao*

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(001)-TiO₂ nanosheets loaded on BiOI improve carrier separation and enhance the photocatalytic activity

Xin Mai, Ran Gao, Yeheng Zhang, Junnan Chen, Wensong Lin* and Chengli Mai

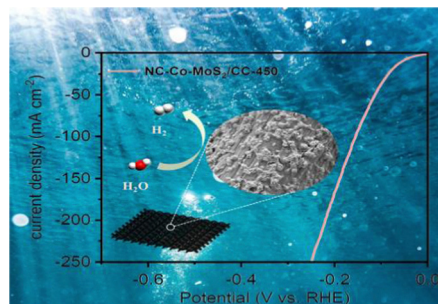


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A synergistic heterogeneous interface of a NC-Co-MoS₂/CC-450 electrocatalyst for efficient alkaline hydrogen evolution

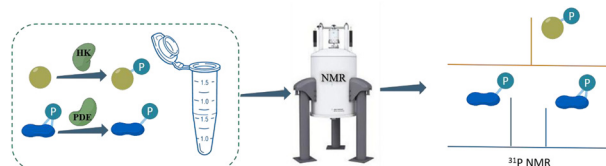
Kaiqi Zhang, Hequn Wu, Guanghui Xiong and Weifeng Yao*



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Monitoring of phosphatase and kinase activity using ³¹P NMR spectroscopy

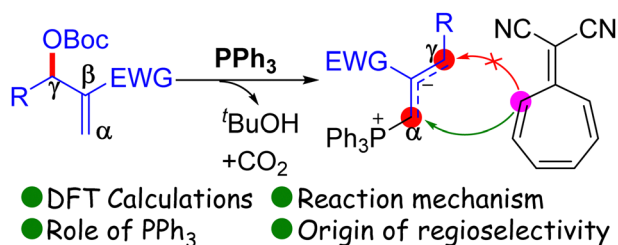
Xiaofan Guo, Bowen Han, Wenhan Qiu, Peiran Deng, Songsen Fu,* Jianxi Ying* and Yufen Zhao



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Elucidating the mechanism and regioselectivity of phosphine-catalyzed transformation of MBH carbonate

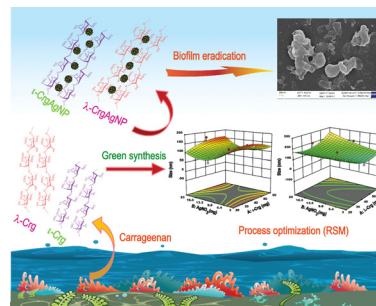
Juan Ye, Yilu Luo, Gailing Huang* and Yang Wang*



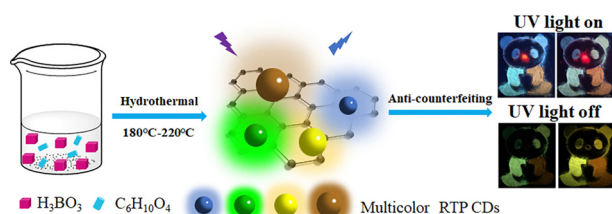
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Comparative analysis of the physicochemical and anti-biofilm properties of iota and lambda carrageenan-capped silver nanocomposites synthesized using response surface methodology

Khushboo Rani Singh, Aakanksha Pathak and Krishna Mohan Poluri*



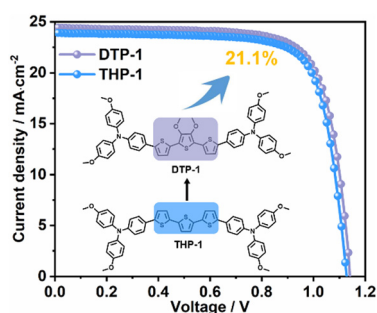
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Modulating multi-color room temperature phosphorescence emission for carbon dot composites with ultralong lifetime

Yanni Jie,* Yang Gao, Dong Wang, Fuchun Li, Runfeng Chen, Yongqiang Feng, Wenqi Li and Jiawen Fang*

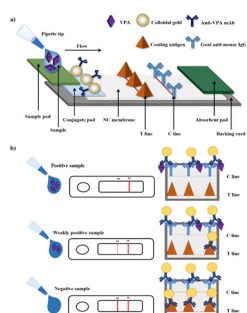
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Molecular engineering of methoxy-substituted terthienyl core unit based hole transport materials for perovskite solar cells

Xingdong Ding, Xiaowen Zhou, Haoxin Wang,* Mengde Zhai, Ziyang Xia, Licheng Liu, Yi Tian, Cheng Chen* and Ming Cheng

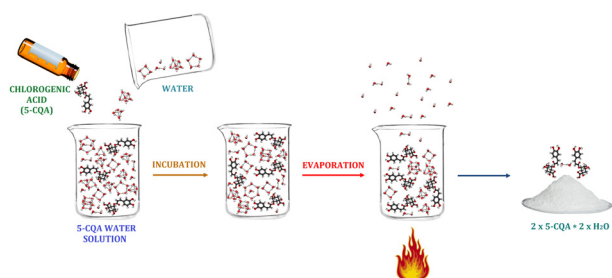
16675



A paper sensor for unbound valproic acid detection in human serum

Xiaoqian Jiang, Aihua Qu,* Xinxin Xu, Hua Kuang, Liqiang Liu, Liguang Xu and Chuanlai Xu*

16686



Kinetics and possible mechanism of chlorogenic acid–water complex formation

Piotr Hołowiński, Andrzej L. Dawidowicz* and Rafał Typek

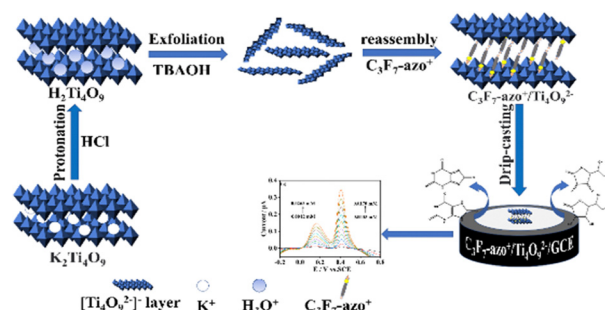


PAPERS

16695

A novel nanocomposite material $C_3F_7\text{-azo}^+/\text{Ti}_4\text{O}_9^{2-}$ was prepared as a sensor for the detection of ascorbic acid and uric acid

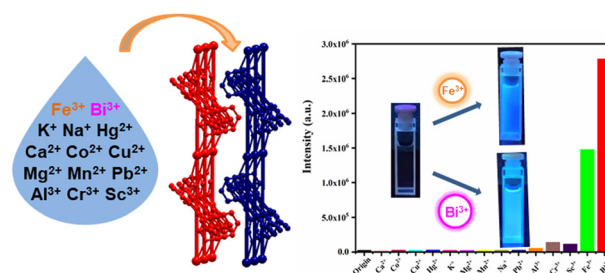
Yicheng Zhou, Li Dong, Tongtong Cao, Jiazheng Zhang, Rongrong Qiao, Lin Liu, Chao Liu, Xiaobo Zhang* and Zhiwei Tong*



16706

A new-AIE-ligand-based metal–organic framework “turn-on” sensor with extremely high sensitivity

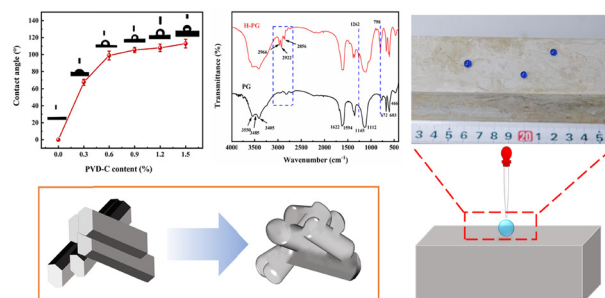
Jinfang Zhang,* Wenjing Li, Simeng Ren, Shunchang Zhao, Xingyu Tao, Qinghan Chen, Dejing Yin and Chi Zhang*



16713

Synthesis of reticular long-carbon-chain polysiloxane and its hydrophobic modification of phosphogypsum-based materials

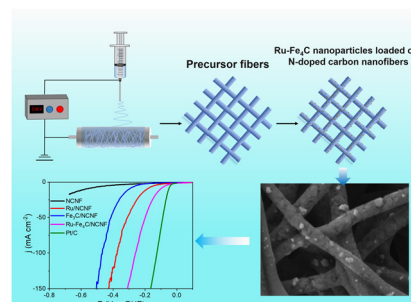
Guang Yang, Songtao He, Yuanxia Li, Yi Li, Zegang Li, Weixiang Song, Zhonghua Chen* and Qibin Liu*



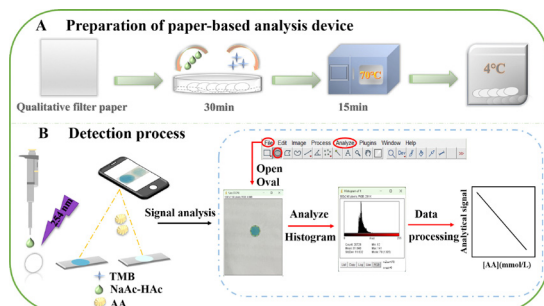
16727

Ru–Fe₄C nanoparticles loaded on N-doped carbon nanofibers as self-supporting high-efficiency hydrogen evolution electrocatalysts

Qun Zou, Yingjing Zhu, Rui Zhang, Jibiao Guan, Lina Wang, Baochun Guo and Ming Zhang*



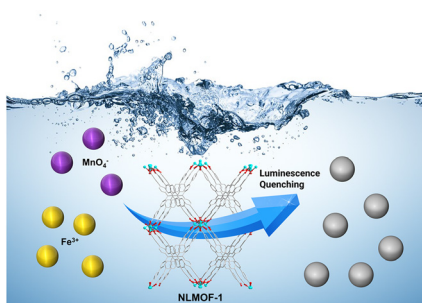
16735



Equipment-free determination of ascorbic acid based on the UV-induced oxidation of 3,3',5,5'-tetramethylbenzidine in a paper-based analysis device

Xiaoxia Liu,* Wenya Hou, Jinzhong Zhao, Lili Zhang, Anping Li* and Ruiyan Ma*

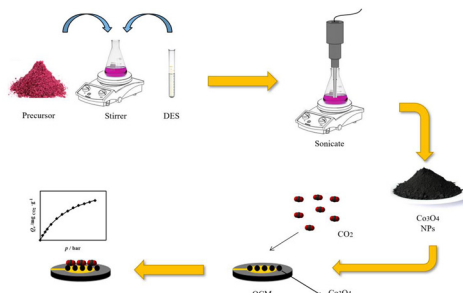
16741



Fluorescent cadmium(II) metal–organic frameworks exhibit excellent stability and detection ability to Fe^{3+} and MnO_4^- ions

Peipei Cen,* Tongtong Ma, Fujunrui Jiang, Fengyuan Zhang, Yanping He, Runmei Ding and Danian Tian*

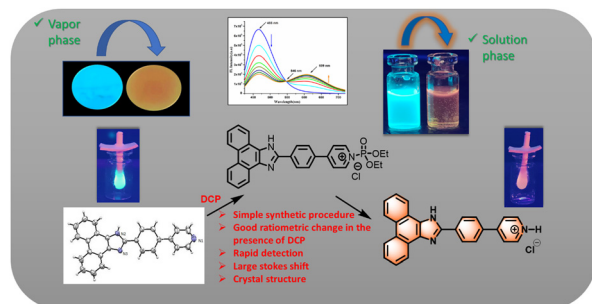
16748



Improved the CO_2 adsorption performance in cobalt oxide nanoparticles in the presence of DES

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

16756



Visual and ratiometric fluorescent probe via an intramolecular charge transfer for detection of a nerve agent simulant in solutions and in the gas phase

Anirban Karak, Shilpita Banerjee, Satyajit Halder, Moumi Mandal, Dipanjan Banik, Anwesha Maiti, Kuladip Jana and Ajit Kumar Mahapatra*



CORRECTION

16764

Correction: Efficient binder-free electrode with a derivative synthesis of a four-leaf clover cobalt oxide from a metal organic framework on nickel foam as an energy storage device

Yu-Hsuan Chiu, Subbiramaniyan Kubendhiran, Hsiao-Wen Huang, Chutima Kongvarhodom, Hung-Ming Chen, Sibidou Yougbaré, Muhammad Saukani and Lu-Yin Lin*

RETRACTION

16765

Retraction: Synthesis of atomic form nickel co-catalysts on TiO₂ for improved photocatalysis *via* the RAFT technique

Bo Zhang,* Guohua Wu and Baohua Zhang

