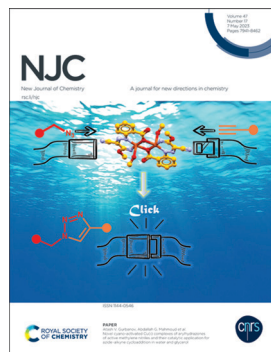


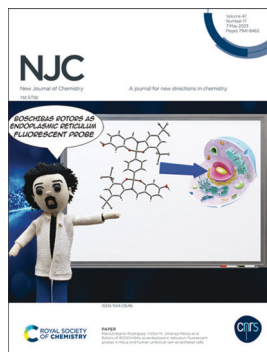
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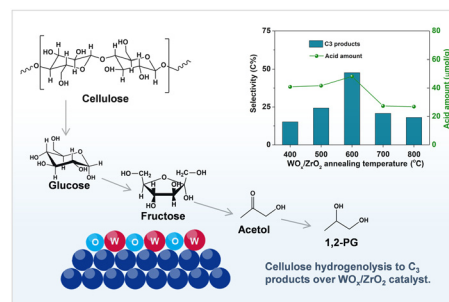
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COMMUNICATIONS

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Selective hydrogenolysis of agricultural straw-based cellulose to propylene glycol and acetol over acidic WO_x/ZrO_2

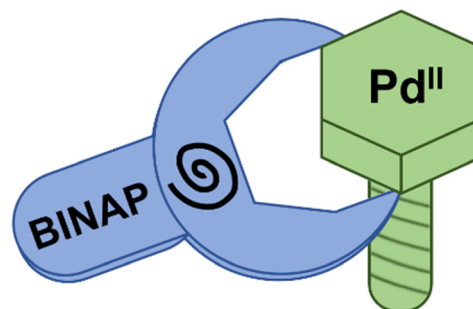
Zhicheng Luo, Zhiguo Zhu, Lupeng Han, Rui Xiao* and Dawang Chu*



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On the nature of optical activity in chiral transition metal complexes: $[\text{Pd}(\text{Me})_2(\text{BINAP})]$

Natalie Fehn, Melanie Strauss, Christian Jandl, Markus Drees, Ueli Heiz, Klaus Köhler and Aras Kartouzian*



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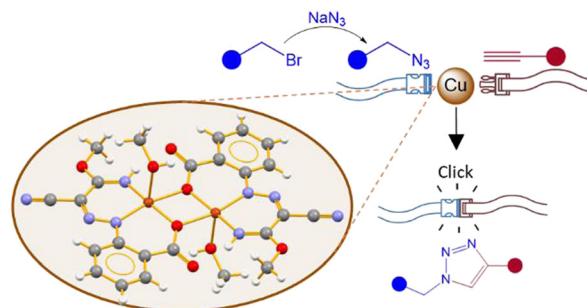


PAPERS

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Novel cyano-activated Cu(II) complexes of arylhydrazones of active methylene nitriles and their catalytic application for azide–alkyne cycloaddition in water and glycerol

Atash V. Gurbanov,* Abdallah G. Mahmoud,*
Vusala A. Aliyeva, M. Fátima C. Guedes da Silva and
Armando J. L. Pombeiro

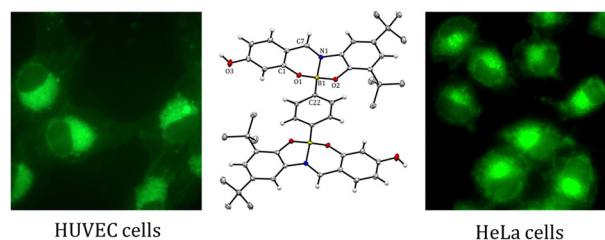


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Rotors of BOSCHIBAs as endoplasmic reticulum fluorescent probes in HeLa and human umbilical vein endothelial cells

Margarita López-Espejel, Marisol Ibarra-Rodríguez,*
Blanca M. Muñoz-Flores, Marcos R. Bahena-Villarreal,
Azael A. Cavazos-Jaramillo, Mónica D. Garza-Villegas,
Cristina Rodríguez-Padilla, Itza E. Luna-Cruz,
H. V. Rasika Dias, Juan M. Alcocer-González and
Victor M. Jiménez-Pérez*

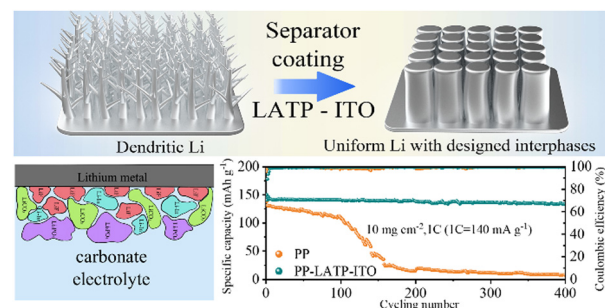
Low-cytotoxic molecular rotor as ER fluorescent probe



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Engineering the Li-ion flux and interfacial chemistry toward a stable Li metal anode *via* a simple separator coating strategy

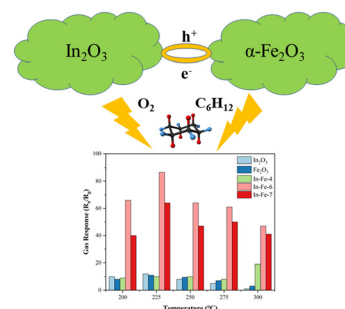
Sheng Zhao, Mingze Ma, Liangyu Gao, LanHui Gu,
Minfeng Chen, Guangdong Han, Tingrui Yang,
Jizhang Chen, Dongfeng Qi, Peng Wang and Xiang Han*



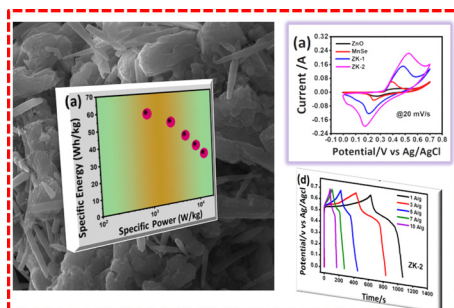
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A bimetallic MOF-derived α -Fe₂O₃/In₂O₃ heterojunction for a cyclohexane gas sensor

Dan Xie, Feng Zhang,* Kai Yu, Xiaofeng Li* and
Fengyu Qu*



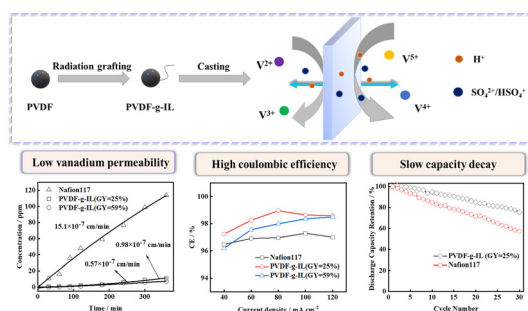
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Wet-chemical assisted synthesis of MnSe/ZnO nanostructures as low-resistance robust novel cathode material for advanced hybrid supercapacitors

Muhammad Zia Ullah Shah, Muhammad Sajjad,*
Muhammad Sanaulah Shah, Muhammad Rahim,
Shams ur Rahman, Hongying Hou,* Afaq Ullah Khan and
A. Shah*

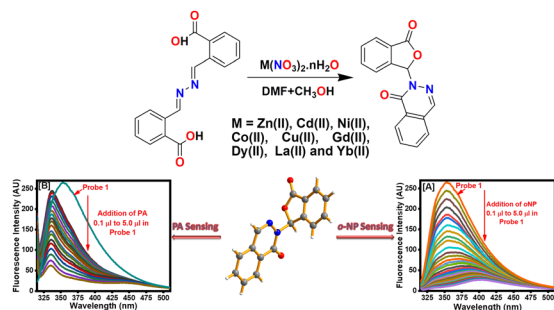
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Radiation synthesis of imidazolium ionic liquid grafted PVDF as the anion exchange membrane for vanadium redox flow batteries

Zhiguo Wang, Jiali Jiang, Zhen Dong, Yifei Song and
Long Zhao*

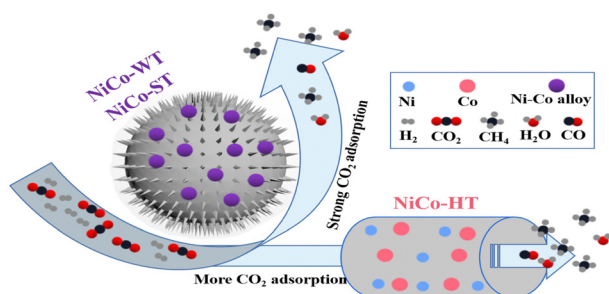
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Ultrasensitive fluorescence detection of nitro-explosives by dihydro-oxisobenzofuranyl-phthalazinone obtained from the Cd(II)-catalyzed cyclization of azinodimethyldiyne-benzoic acid

Durgesh Singh, Subhash Chandra and Rampal Pandey*

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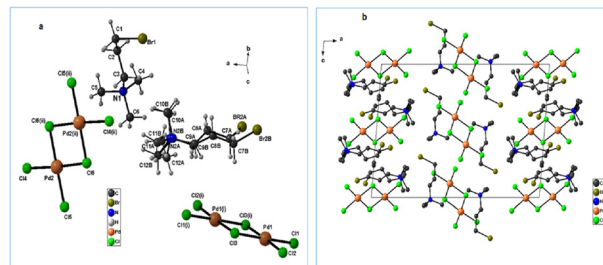
NiCo composite catalysts for CO₂ methanation: the effect of preparation methods on catalyst structure and activity

Lidan Deng,* Yuhang Tan, Chong Chen, Fukun Li and
Xianming Zhang



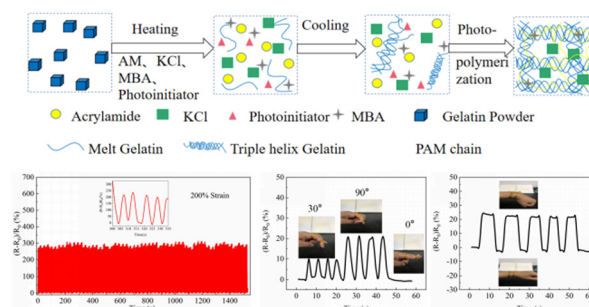
Imen Dakhloui, Karim Karoui,* Fadhel Hajlaoui,
Mustapha Zaghioui, Nathalie Audebrand, Marie Dallon
and Fathi Jomni

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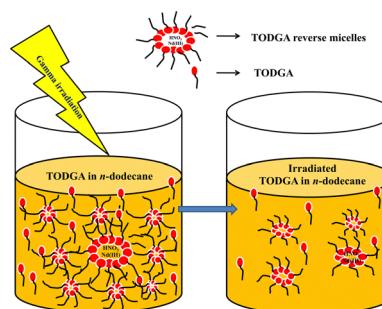
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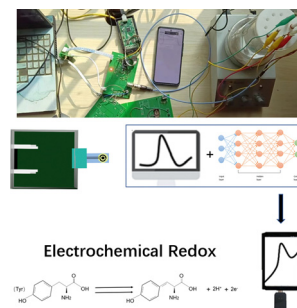
N. Parvathy, K. Rama Swami, T. Prathibha and
K. A. Venkatesan*

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K. A. Venkatesan*



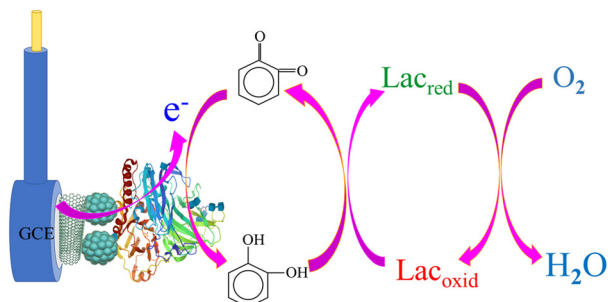
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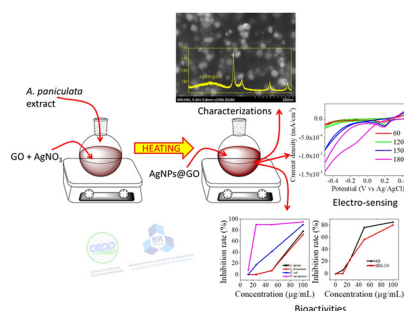
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Immobilization of laccase on Fe₃O₄@MF-CNTs for the rapid and sensitive biosensing of catechol

Zhaofei Liu, Lili Zhang, Yuhang Wei and Zhiming Chen*

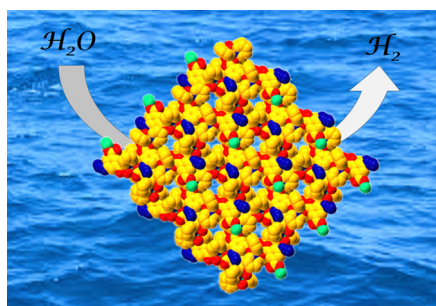
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Green synthesis of silver@graphene oxide nanocomposite for antibacterial, cytotoxicity assessment, and hydrogen peroxide electro-sensing

Nguyen Thanh Hoai Nam, Nguyen Minh Dat, Nguyen Duy Hai, Le Minh Huong, Le Tan Tai, Nguyen Tien Dat, Hoang An, Phan Nguyen Phu Hung, Nguyen Tan Truong, Nguyen Truong Son, Mai Thanh Phong* and Nguyen Huu Hieu*

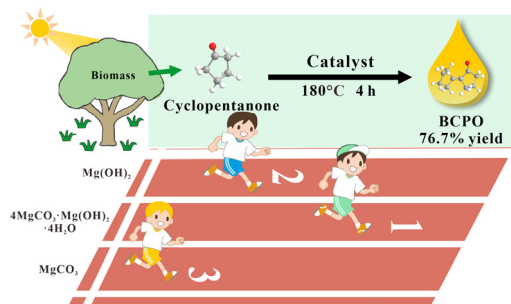
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A post synthetically modified metal–organic framework as an efficient hydrogen evolution reaction catalyst in all pH conditions

Tuhina Mondal, Poulami Hota, Koushik Sarkar, Anup Debnath, Bikash Kumar Shaw and Shyamal K Saha*

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Synthesis of renewable C–C cyclic oxygenated compounds dedicated for high-density biofuels from biomass-derived cyclopentanone

Li Bai, Lulu Chen, Mei Wu, Ke Song, Xianwu Zhou, Jie Guo, Hu Pan, Shima Liu* and Jian He*

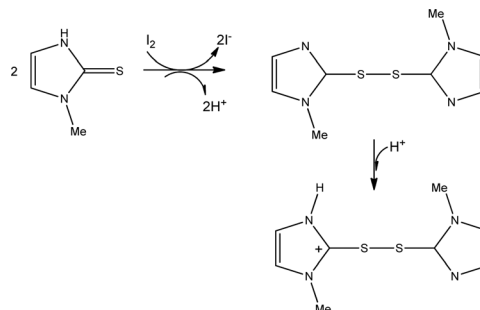


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A unique case of polymorphism in polyiodide networks resulting from the reaction of the drug methimazole and I₂

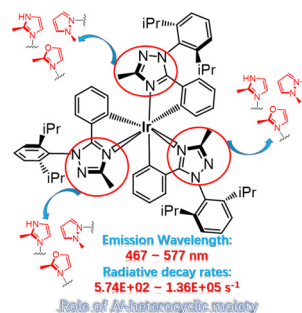
M. Carla Aragoni, Massimiliano Arca, Francesco Demartin, Alessandra Garau, Francesco Isaia,* Vito Lippolis and Tiziana Pivetta



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Theoretical investigation of the influence of heterocycles on the radiative and non-radiative decay processes of iridium(III) complexes

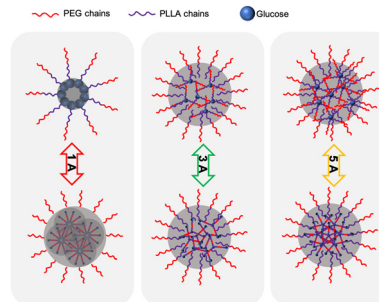
Yafei Luo, Lingkai Tang, Zhongzhu Chen, Zhigang Xu, Jianping Hu* and Dianyong Tang*



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Role of the branched PEG-*b*-PLLA chain in morphological structures and thermodynamics for PEG-*b*-PLLA-*g*-glucose copolymers with different architectures

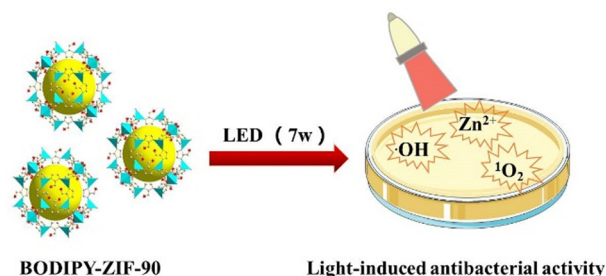
Mingwei Guo,* Wenjing Wu, Weixin Wu, Ruizhe Wang and Qinwei Gao*



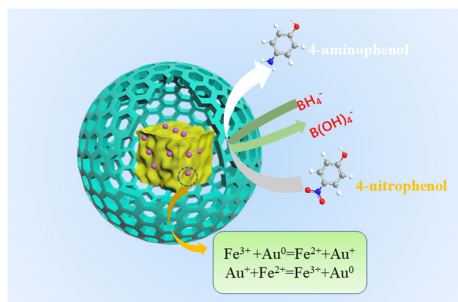
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Design of BODIPY functional ZIF-90 towards enhanced visible-light driven antibacterial performance

Dong-Mei Chen, Guang-Qi He, Qiu-Yun Chen,* Gao-Ji Wang, Cheng Chen, Ying Dong and Ling-Ling Qu*



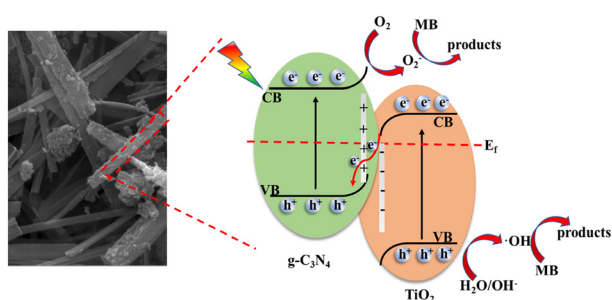
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Rational design of a MOF@Au@COF catalyst with electron synergy for the reduction of 4-nitrophenol

Shangjin Liu, Chunfeng Mao, Chenghan Yang, Pengda Hong,* Min Zhu, Yuming Zhou and Yiwei Zhang*

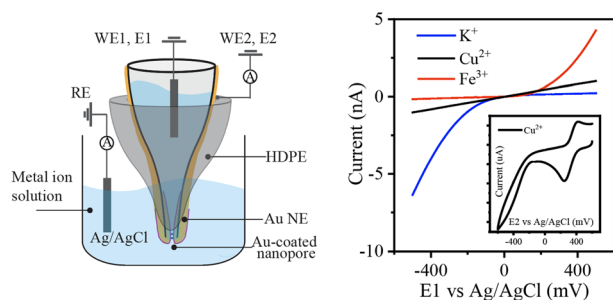
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Fabrication of a hybrid phase $\text{TiO}_2/\text{g-C}_3\text{N}_4$ heterojunction composite with enhanced adsorption and photocatalytic degradation of MB under visible light

Shuanghui Liu, Changle Wang, Yao Song, Binglin Yan, Bing Ai, Kefeng Pan* and Lipeng Zhang*

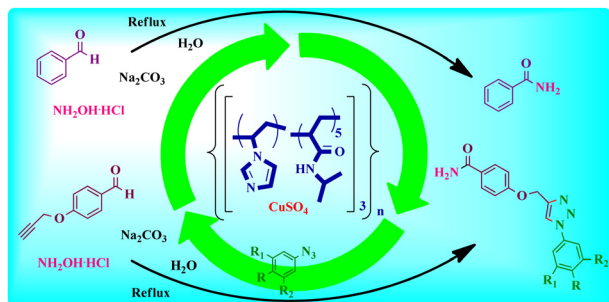
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A multifunctional nanopipette for metal ion recognition and ultra-trace analysis

Kang Wang, Gongming Qian, Yunchuan Li, Ruixia Wang and Jing Guo*

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A Cu-incorporated polymeric heterogeneous catalyst: exploring an expedient approach to construct amide bonds and extending its application to triazole hybrid amide synthesis

Sushmita Gajurel, Fillip Kumar Sarkar, Rajib Sarkar, Lenida Kyndiah and Amarta Kumar Pal*

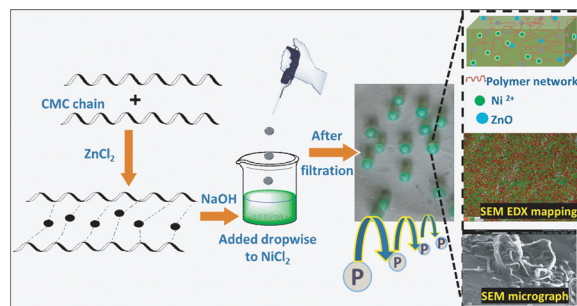


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Optimization of phosphorus-loaded Ni–ZnO crosslinked carboxy methyl cellulose-based bio-degradable nanocomposite hydrogel beads for the slow release of P, Ni and Zn: a kinetic approach

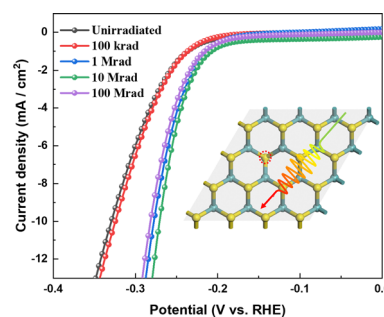
Madhusmita Baruah, Arup Borgohain, Rimjim Gogoi, Nilotpal Borah, Diganta Dea, Tanmoy Karak and Jiban Saikia*



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Effects of ^{60}Co γ -ray irradiation of thin-layer molybdenum disulfide for the hydrogen evolution reaction

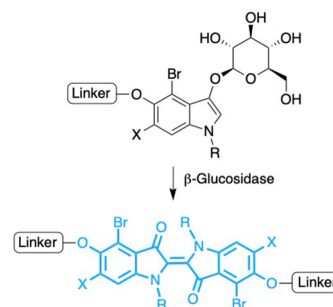
Lei Dong, Jianqun Yang, Xiaoqing Yue, Huimin Geng, Weiqi Li, Yubao Zhang and Xingji Li*



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Indoxyl-glucosides bearing tethers for enzymatically triggered cross-linking

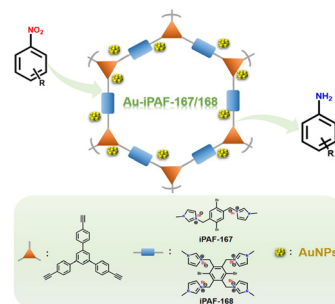
Daisuke Sato, Zhiyuan Wu, Jinghuai Dou, Juno Son and Jonathan S. Lindsey*



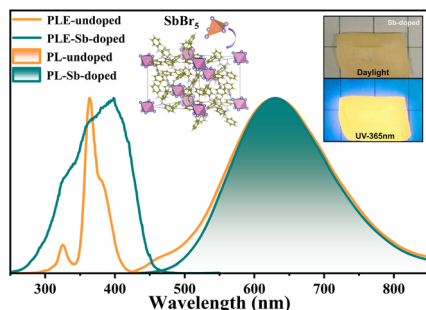
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Gold nanoparticles embedded into imidazolium-functionalized porous aromatic frameworks as heterogeneous nanoreactors for the hydrogenation of nitroaromatics

Yuting Yang, Yadong Shi, Yuzhuo Zhang, Xiaofei Jing* and Yunling Liu*



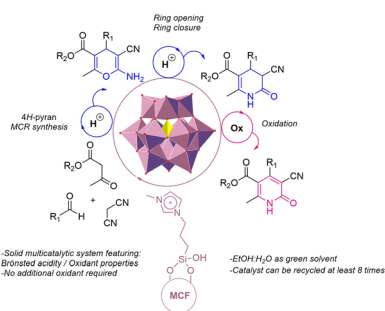
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Boosting the broadband orange emission in organic–inorganic hybrid (DPG)₃InBr₆ via antimony doping

Shuya Jin, Qilin Wei, Hui Peng,* Bao Ke, Wenchao Lin, Bin He, Xianci Zhong and Bingsuo Zou*

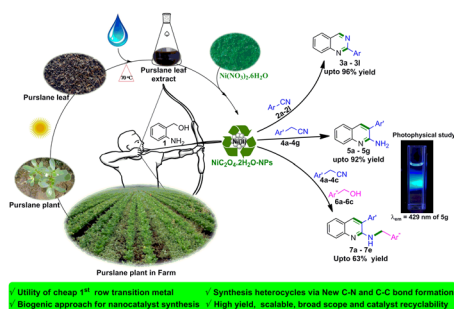
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Keggin heteropolyacid in auto-tandem catalysis: confinement effects over ordered mesoporous silica in the synthesis of 2-pyridones

Adriana Galván, Edgar Damian-Ascencio, Merced Martínez, José Manuel Domínguez-Esquivel and Miguel A. Vázquez*

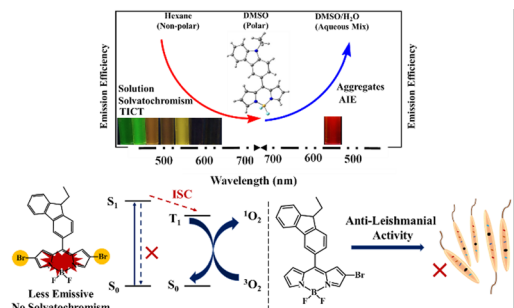
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A sustainable approach for nickel nanoparticles synthesis: expeditious access to N-heterocycles under heterogeneous condition and photophysical studies

Thrilokraj R., Rajeev V. Hegde, Arnab Ghosh, Akshay S. Limaye, Haridas B. Rode, Balasubramanian Sridhar and Ramesh B. Dateer*

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meso-Carbazole decorated BODIPYs – an electron donor–acceptor system with excellent fluorosolvato/vapochromic behavior, aggregation-induced emission, and antileishmanial activity

Diana Mathew, Santanu Sasidharan, Prakash Saudagar, Subramaniam Sujatha* and Pattiyil Parameswaran*

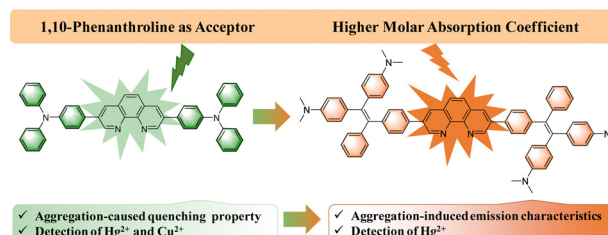


PAPERS

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Largely conjugated planar acceptor and rotatable donors to construct AIEgens with large molar extinction coefficients for the detection of metal ions

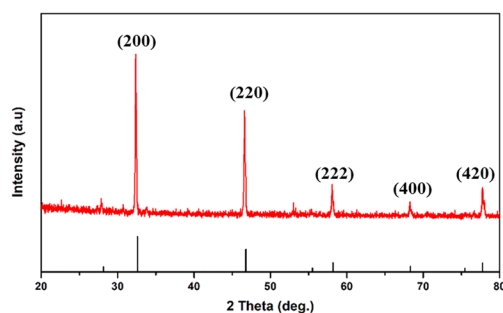
Ying Zhang, Long Yi, Xiaofang Zhao, Chunbin Li, Lingxiu Liu, Jianye Gong, Lina Feng, Jianguo Wang, Zhe Jiao* and Guoyu Jiang*



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Hydrothermally prepared MnSe electrode as a promising pseudocapacitive material for high-performance supercapacitor

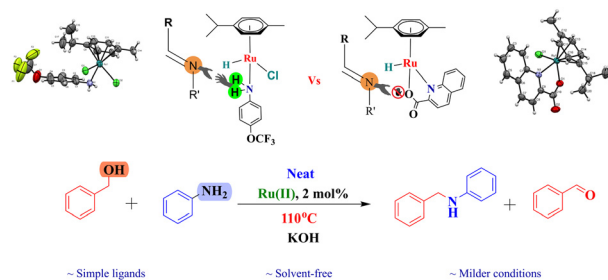
Haisong Duan, Shaolan Wang,* Beijun Lia and Shuan Ma*



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N-coordinated Ru(II) catalyzed solvent free N-alkylation of primary amines with alcohols through borrowing hydrogen strategy

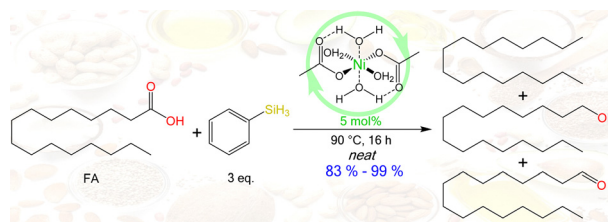
Bhavya Patel, Rishi Ranjan, Nimesh R. Chauhan, Suman Mukhopadhyay, Angshuman Roy Choudhury and Komal M. Vyas*



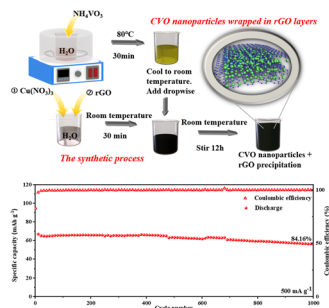
8318

Additive-free reductive hydrodeoxygenation of fatty acids catalyzed by inexpensive simple nickel(II) compounds

Óscar M. F. Lama, Diego A. Roa, Alma Arévalo and Juventino J. García*



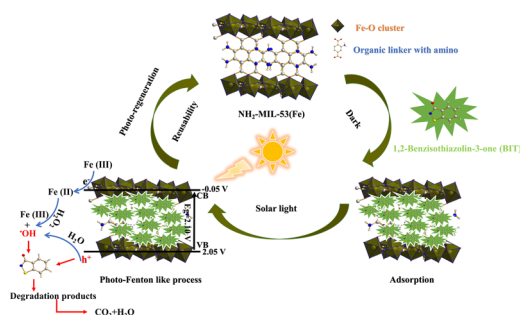
8326



$\text{Cu}_3(\text{OH})_2\text{V}_2\text{O}_7 \cdot 2\text{H}_2\text{O}@\text{rGO}$ with bimetallic redox activity as a novel cathode material for calcium-ion batteries

Xingnian Tan, Junjun Wang, Shuhan Jin, Yu Wang, Fan Qiao, Lei Zhang and Qinyou An*

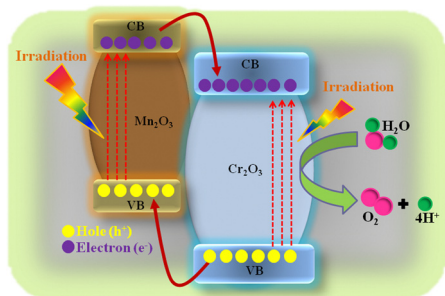
8334



An adsorptive photo-Fenton-like removal of 1,2-benzisothiazolin-3-one by $\text{NH}_2\text{-MIL-53(Fe)}$ under simulated solar light

Peifu Sun, Xiao Zhang, Zhiren Guo, Xinyue Liu, Yuanming Lan, Dongxiang Zhang, Hansheng Li, Jinying Li, Helei Liu* and Xiyan Xu*

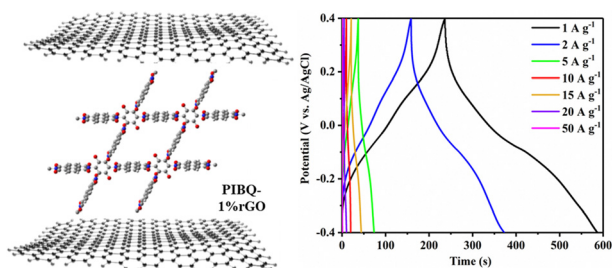
8347



Aerosol-assisted facile fabrication of bimetallic $\text{Cr}_2\text{O}_3\text{-Mn}_2\text{O}_3$ thin films for photoelectrochemical water splitting

M. A. Mansoor,* K. Munawar, R. Naeem, N. M. Sarih, M. A. Asghar, A. Haider, M. N. M. Zubir and T. Zaharinie

8355



Quinone-based imide conjugated microporous polymer-reductive graphene oxide composite as an efficient electrode for hybrid supercapacitors

Yuyu Dai, Yue Gao, Haoran Xu, Xiaoqing Li, Xiangsheng Xu and Zhenming Li*

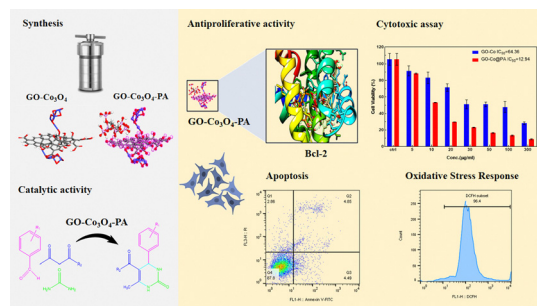


PAPERS

8363

Phytic acid-modified graphene/cobalt oxide nanocomposites: synthesis, characterization, theoretical studies, antiproliferative properties, and catalytic activities

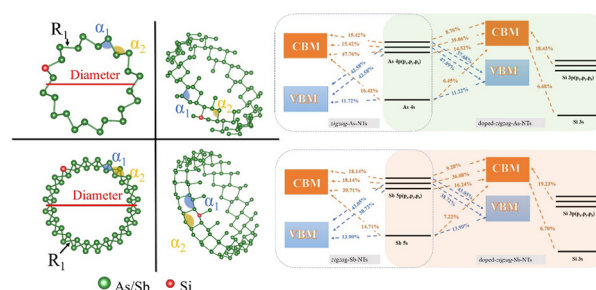
Khodayar Gholivand,* Marzie Sabaghian, Azam Babaei, Rahime Eshaghi Malekshah, Sanam Sadeghi-Mohammadi and Hossein Naderi-Manesh



8381

The electronic and optical properties of silicon doped on arsenic and antimony nanotubes: a first-principles study

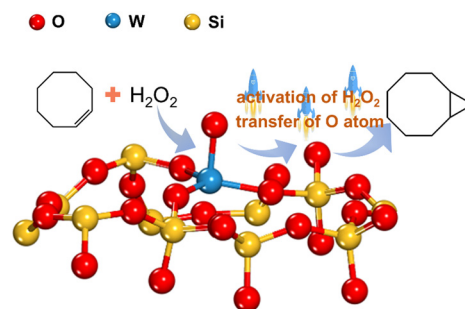
Yinuo Liu, Ziyu Hu* and Xiaohong Shao*



8391

Revealing the high activity of WO₃-SBA-15 with isolated tungsten oxide species in *cis*-cyclooctene epoxidation

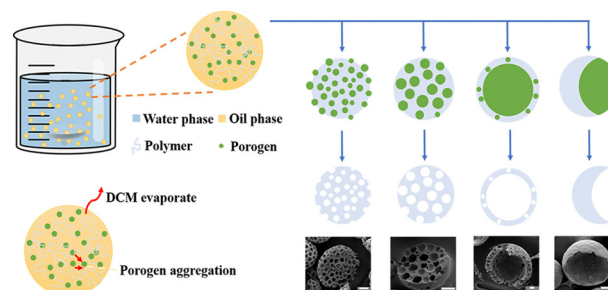
Penghui Li, Huixiang Wang, Junhua Gao, Liancheng Wang, Jing Shi, Yu Meng,* Junfen Li* and Baoliang Lv*



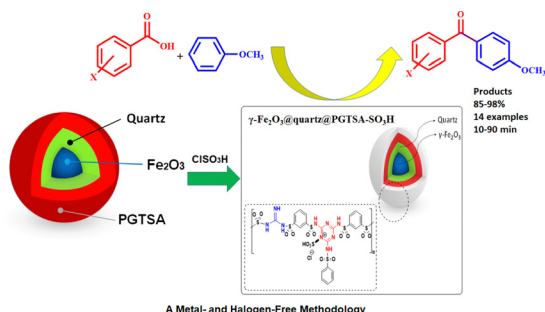
8399

Preparation and morphology control of porous microspheres of different crystalline polymers

Jinqiu Wu, Teng Zhi, Luyao Xing, Youkun Fan, Chengdong Xiong, Dongling Huang and Zuochun Xiong*



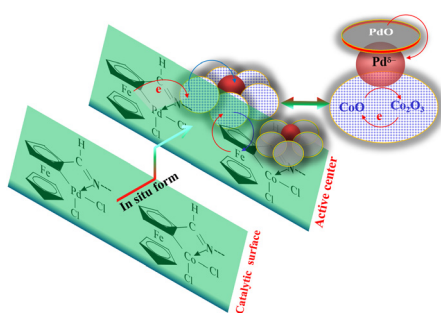
8410



Targeted development of sustainable green catalysts for regioselective acylation of aromatic ethers with carboxylic acids *via* chlorosulfonic acid coated on poly(guanidine–triazine–sulfonamide) grafted quartz– γ -Fe₂O₃

Maryam Fereydooni, Sedigheh Alavinia and Ramin Ghorbani-Vaghei*

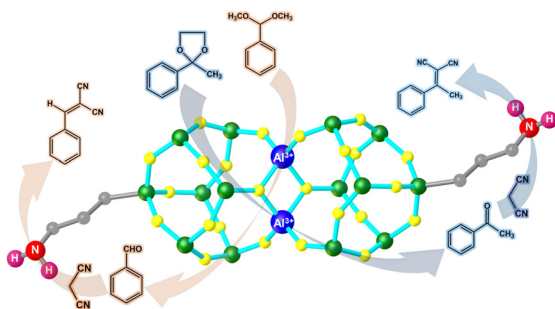
8426



Pd/Co₃O₄–Pd/PdO formed *in situ* on the surface of the self-assembly ferrocenylimine Pd(II)/Co(II) monolayer for catalyzing the Suzuki cross-coupling reaction—formation, synergistic effect, and catalytic mechanism

Penghui Han, Shuiqing Zhu, Wenfen Zhang, Bowen Yang, Dongmei Huang, Ruirui Ren, Tiesheng Li,* Minghua Liu* and Yangjie Wu*

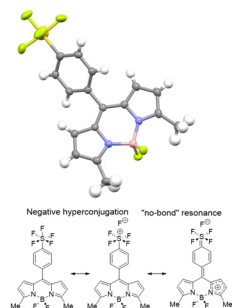
8439



A site-isolated Lewis acidic aluminium and Brønsted basic amine sites in the dimeric silsesquioxane cage as a reusable homogeneous bifunctional catalyst for one-pot tandem deacetalization/deketalization-Knoevenagel condensation reactions

Pushparaj Loganathan, Renjith S. Pillai, Abigail Jennifer G, Elumalai Varathan, M. Kesavan and Swaminathan Shanmugan*

8451



Synthesis, structure and spectroscopic properties of BODIPY dyes incorporating the pentafluorosulfanylphenyl group

Richard D. James, Fabio Cucinotta, Paul G. Waddell and Andrew C. Benniston*

