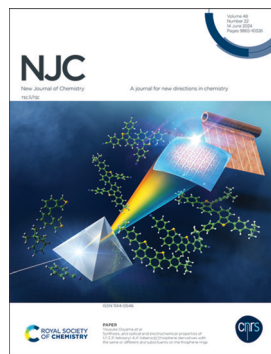


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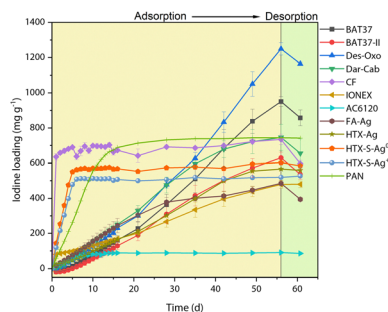
See Yousuke Ooyama *et al.*, pp. 9890–9898. Image reproduced by permission of Yousuke Ooyama from *New J. Chem.*, 2024, 48, 9890.

COMMUNICATIONS

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Static iodine loading comparisons between activated carbon, zeolite, alumina, aerogel, and xerogel sorbents

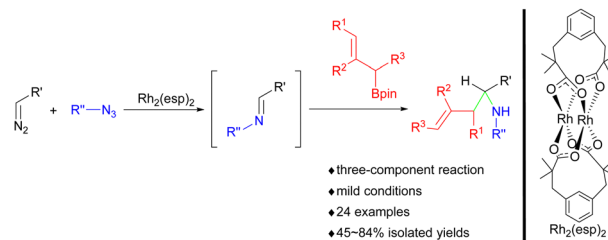
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Ze-Yu Yi, Na Sun, Peiming Gu, Yang Ji and Rui Li*



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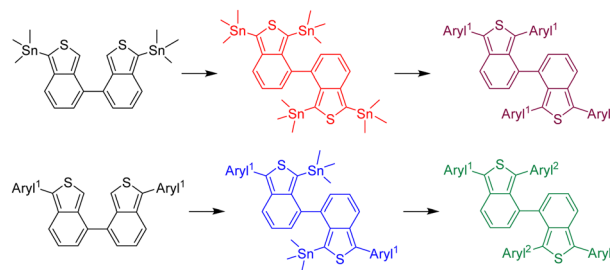
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Fundamental questions
Elemental answers

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Synthesis, and optical and electrochemical properties of 1,1',3,3'-tetraaryl-4,4'-bibenzo[c]thiophene derivatives with the same or different aryl substituents on the thiophene rings

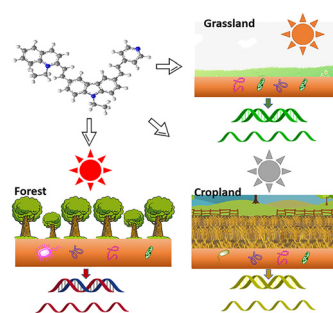
Yasuto Hara, Kumpei Kozuka, Keiichi Imato, Seiji Akiyama, Mio Ishida and Yousuke Ooyama*



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A novel fluorescent probe for discriminating microbial DNA in ecosystems and model organisms

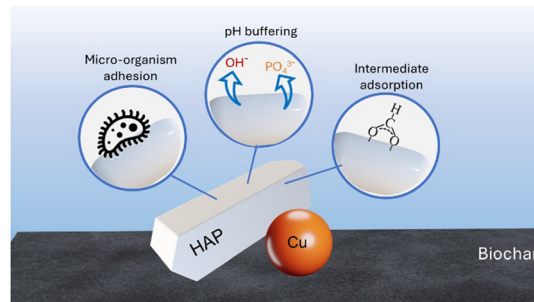
Zhaomin Wang, Zhe Chen,* Hao Sun, Min Liu and Yong Liu*



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Interface properties of hydroxyapatite in ternary composites cathodes for electromethanogenesis

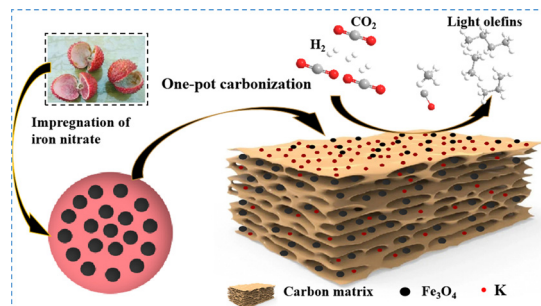
Michele Bigica, Giorgia Ghiara, Pierangela Cristiani,* Sebastiano Campisi* and Antonella Gervasini



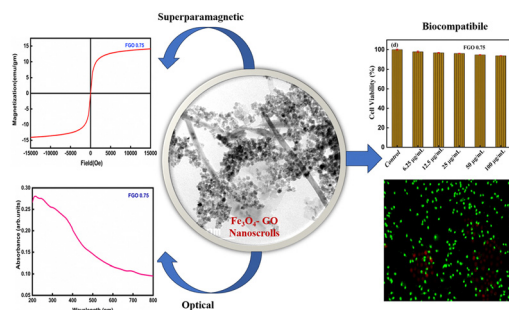
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Preparation of Fe-based catalysts from waste biomass as a carbon carrier and its catalytic performance in CO₂ hydrogenation

Rui Zhu, Kangzhou Wang,* Yaqin Xing, Caihu Li, Xinhua Gao,* Qingxiang Ma, Tian-sheng Zhao and Jianli Zhang*



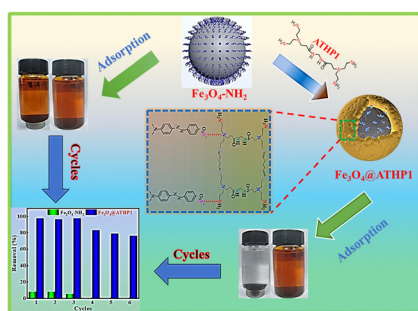
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Nanoengineered Fe₃O₄-GO nanoscrolls: exploring the biofunctional applications through magnetic, optical, structural, and morphological analyses

Mubeena Rafi, Anshida Mayeen, Honey John* and Pramod Gopinath*

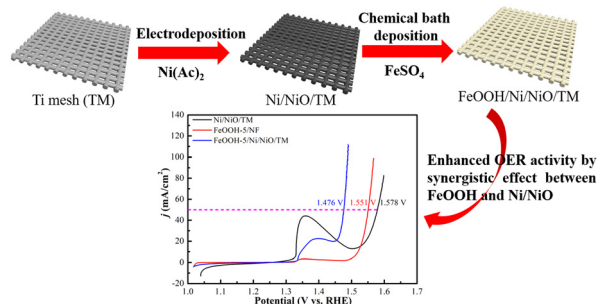
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Facile synthesis of hyperbranched magnetic nanospheres for highly efficient removal of methyl orange

Jinting Song, Sufang Chen,* Renliang Lyu, Daohong Zhang and Jingping Hong*

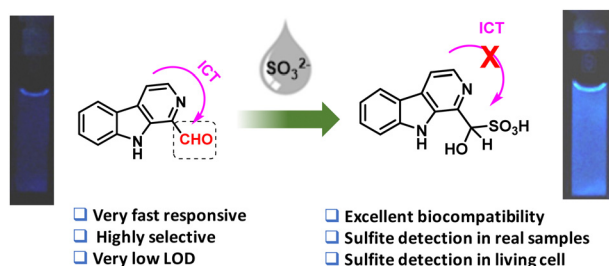
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Boosting the electrocatalytic activity and stability of Ni/NiO toward the oxygen evolution reaction by coupling FeOOH nanosheets

Yajing Wang, Quanxi Zhu, Peng Zhang, Songli Liu and Jiankang Wang*

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A Kumujian-C based highly selective fluorescence turn-on probe enables the detection of sulfite in real samples and living cells

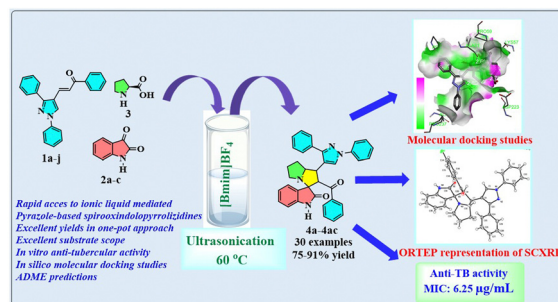
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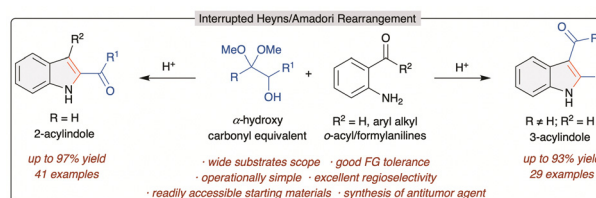
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α -Hydroxydimethylacetal/ketal as an α -hydroxycarbonyl equivalent in interrupted Heyns/Amadori rearrangement: regioselective synthesis of substituted C2- and C3-acylindoles

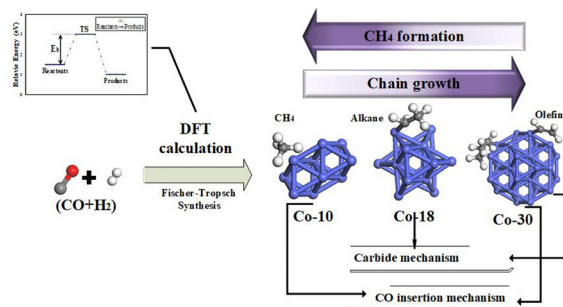
Minakshi Altia and Pazhamalai Anbarasan*



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Determining the hydrocarbon chain growth pathway in Fischer–Tropsch synthesis through DFT calculations: impact of cobalt cluster size

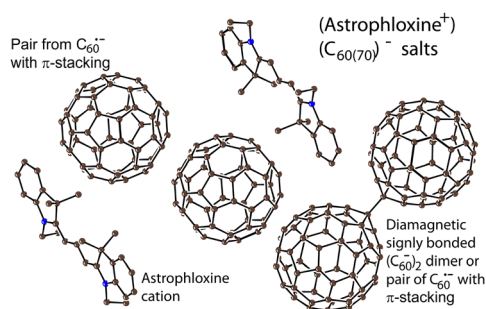
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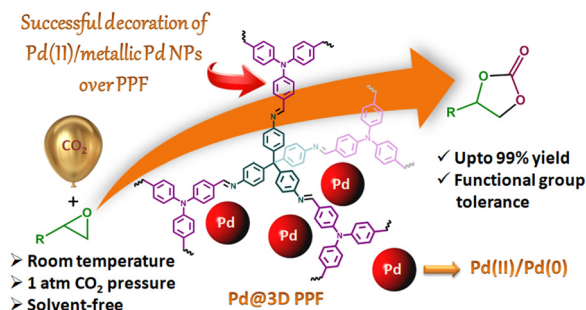
10002

Monomers and dimers of fullerenes in the radical anion salts with dyes, (astrophloxine⁺)₂(C₆₀^{•-})₂ and (astrophloxine⁺)₂(C₇₀⁻)₂: suppression of the C₆₀^{•-} dimerization by π -stacking

Pavel A. Sobov, Maxim A. Faraonov, Salavat S. Khasanov, Akihiro Otsuka, Hideki Yamochi, Hiroshi Kitagawa and Dmitri V. Konarev*



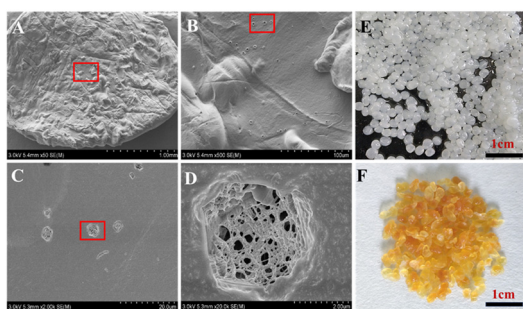
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A highly efficient and reusable amorphous Pd(II)/crystal Pd(0)-grafted porous polymer framework for catalytic CO₂ cycloaddition

Somnath Sarkar, Swarbhanu Ghosh, Titu Mondal, Aslam Khan and Sk. Manirul Islam*

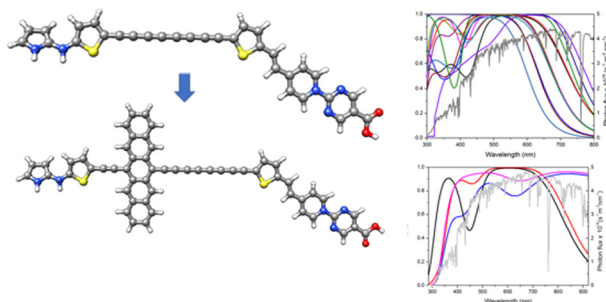
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Adsorption of Congo Red by chitosan porous beads reinforced with epoxy resin

Yaoge Huang* and Wuga Shama

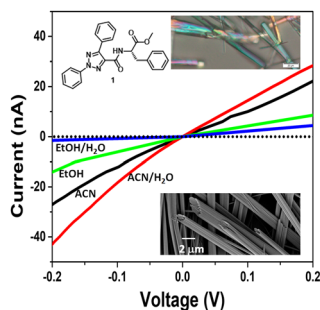
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Computational exploration of panchromatic dye-sensitized solar cells with broad visible to near-infrared absorption: a density functional theory study

Giuseppe Consiglio,* Adam Gorczyński, Guido Spoto, Salvatore Petralia and Giuseppe Forte*

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Processable soft conducting fibers of self-assembled (2,5-diphenyl-2H-1,2,3-triazole-4-carbonyl)-L-phenylalaninate

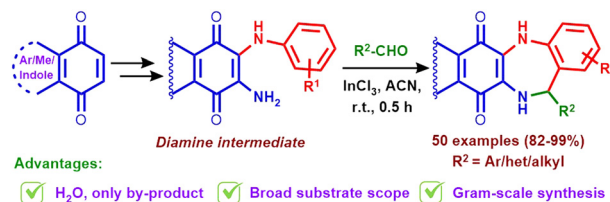
Sahabaj Mondal, Olamilekan Joseph Ibukun, Milan Gumtya and Debasish Haldar*



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High-yielding regioselective synthesis of *p*-quinone fused 5-substituted-1,4-benzodiazepine scaffolds via Pictet–Spengler type cycloannulation

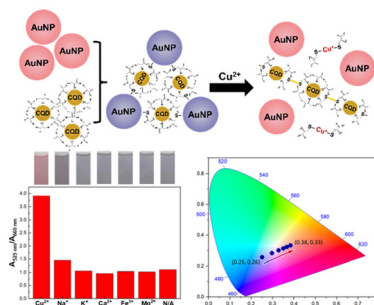
Ashokkumar Krishnan and Sriraghavan Kamaraj*



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Sensitivity improvement of Au-nanoparticle-based colorimetric probes via surface decoration of carbon quantum dots

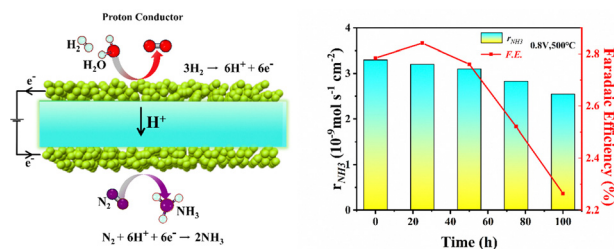
Yi-Ting Li, Chien Feng Lo, Kuan-Han Lin, Pin-Chao Liao, Joon Ching Juan, Po-Hsuan Hsiao and Chia-Yun Chen*



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In situ exsolved CoFe alloys over perovskite toward enhanced ammonia synthesis

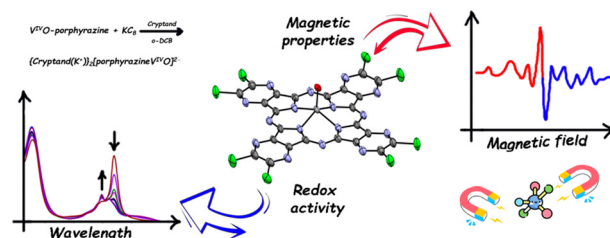
Yufeng Du, Xiang Su, Xin Wang,* Lingting Ye* and Kui Xie*



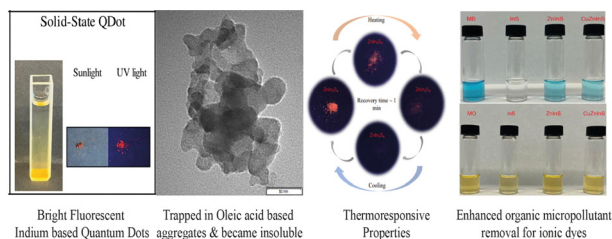
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Perchlorinated vanadyl tetrapyrazinoporphyrazine: spectral, redox and magnetic properties

Daniil N. Finogenov, Maxim A. Faraonov,* Alina S. Kopylova, Timur E. Ivanov, Nikita R. Romanenko, Ilya A. Yakushev, Dmitri V. Konarev* and Pavel A. Stuzhin*



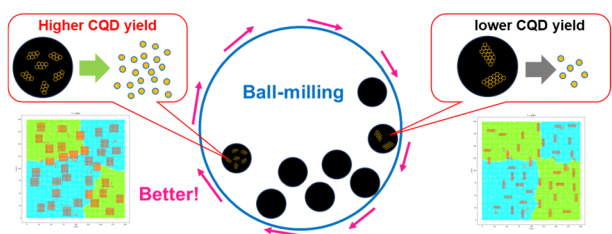
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Indium-based quantum dots trapped in solid-state matrices: a one-pot synthesis, thermoresponsive properties, and enhanced micropollutant removal

Nida Ük, Sümeyye Aykut, Hadi Jahangiri, Ilgin Nar and Caner Ünlü*

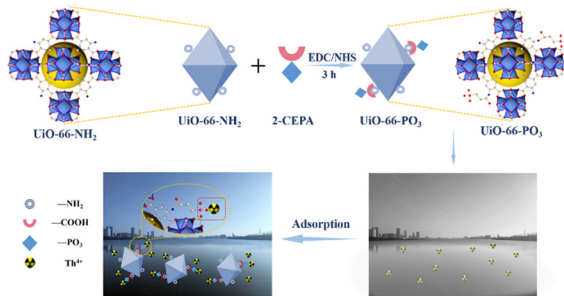
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Controlled formation of ball-milled carbon quantum dots via optimized graphite structures by numerical simulation

Sonia Lu Tai, Kelly Qi Wang, Ryan Taoran Wang,* W. M. Lau, Gu Xu and Alex Fan Xu*

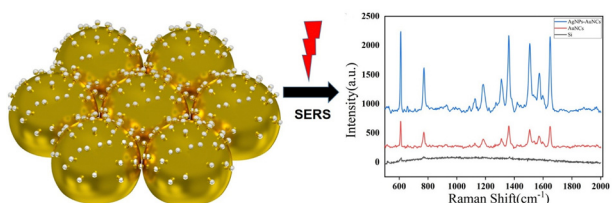
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Highly efficient adsorption of thorium(IV) from aqueous solutions by functionalized UiO-66 with abundant phosphonic acid active sites

Chunpei Yan, Qihang Peng, Linshan Peng, Zhirong Liu, Yong Qian and Tianxiang Jin*

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Templated gold nanocaps for surface-enhanced Raman scattering (SERS) sensors based on monolayer polystyrene colloidal arrays

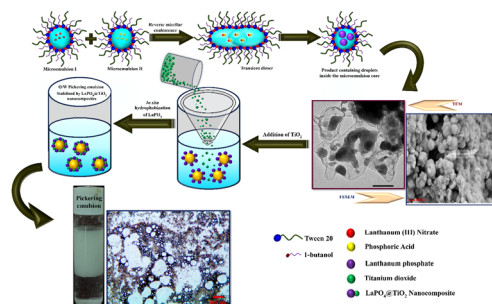
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Comprehensive evaluation of non-conventional lanthanum phosphate nanospheres inside water-in-oil microemulsion scaffolds and their utilization in the assessment of surfactant-free TiO₂-based Pickering emulsion formulations

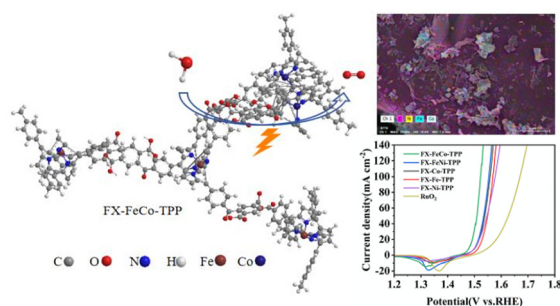
Trishna Mandal, Sk Meheboob Rahaman,* Bipasha Saha, Nargis Khatun, Arnab Patra, Arnab Mukherjee, Mahasweta Nandi, Debasis Dhak, Sanjay Roy and Bidyut Saha*



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Non-noble metal coordinated hypercrosslinked polymers based on porphyrin for efficient electrocatalytic OER

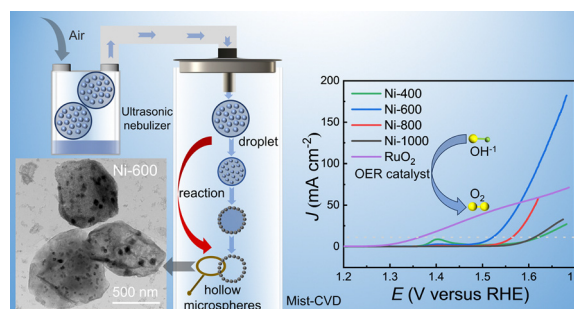
Xinming Hu, Penglei Cui,* Hong Zhang and Zitong He



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Ni/NiO/C hollow microspheres fabricated by a mist-CVD process using ethanolamine: an efficient OER catalyst

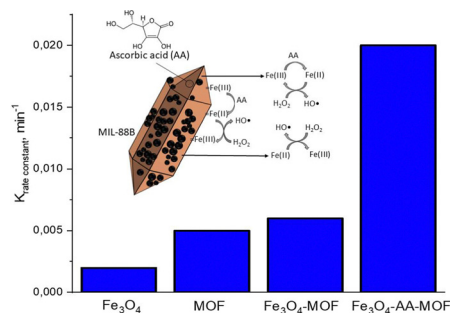
Rong Tu, Jiangwei Liu, Yingqiu Zheng,* Chao Song, Chitengfei Zhang, Yuzhe Han, Rongchen Xu, Guoqiang Luo, Song Zhang and Takashi Goto



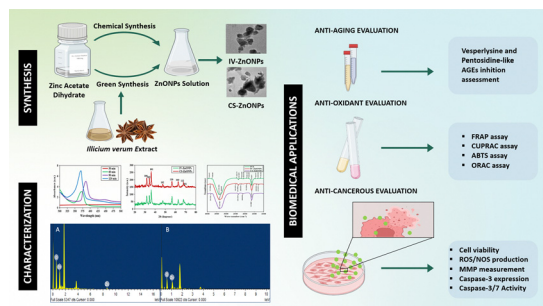
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Fenton reaction-driven pro-oxidant synergy of ascorbic acid and iron oxide nanoparticles in MIL-88B(Fe)

Lyubov Bondarenko,* Rose Baimuratova, Artur Dzeranov, Denis Pankratov, Arina Kicheeva, Ekaterina Sushko, Nadezhda Kudryasheva, Rishat Valeev, Natalya Tropskaya, Gulzhian Dzhardimalieva and Kamila Kydralieva



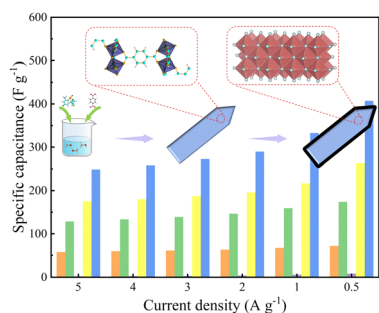
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Differential impact of biogenic and chemically synthesized zinc oxide nanoparticles on anti-aging, anti-oxidant and anti-cancerous activities: a mechanism based study

Mubashra Inam, Zahra Haider, Sumaira Anjum,*
Mohamed Mohamed Soliman, Bushra Ahmad,
Muhammad Iftikhar Hussain and Christophe Hano

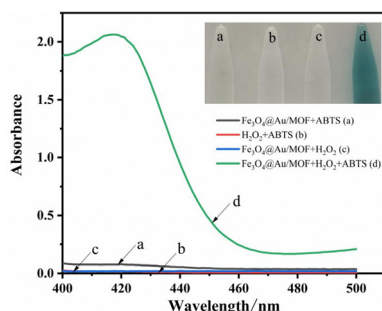
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High-capacity vanadium nitride anode materials synthesized by melamine-assisted pyrolysis

Hao Dang, Lu Wang, Yuanyou Peng, Lei Zhao, Yuan Li,
Xiaoya Kang and Fen Ran*

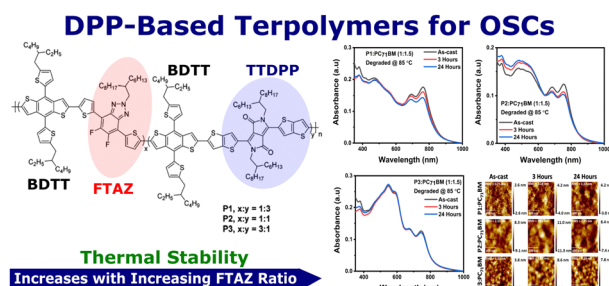
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Trimetallic $Fe_3O_4@Au/MOF$ nanopolyhedrons with peroxidase-like catalytic activity for the electrochemical detection of *tert*-butyl hydroquinone as a pollutant in edible oil

Huanan Guan,* Shiqin Du, Yue Zhang and Sheng Tang*

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Unveiling the thermal stability of diketopyrrolopyrrole-based terpolymers: a key element for enhanced efficiency and stability of organic solar cells

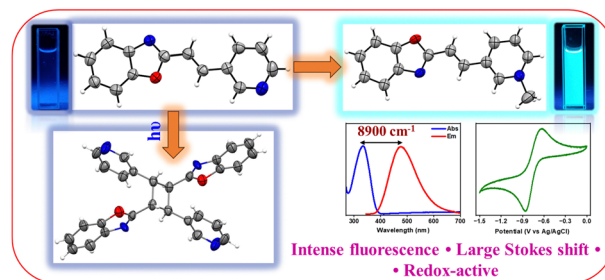
Leonato Tambua Nchinda, Zewdneh Genene,
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Tjaart P. J. Krüger*



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3-Pyridylvinyl benzoxazole-derived multifunctional organic materials—from solid-state photoreactivity to photophysical and electrochemical properties

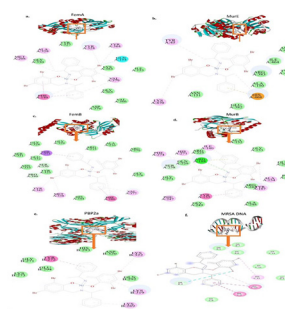
Shyamvarnan Baskar and Goutam Kumar Kole*



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Synthesis, crystal structure, lipophilicity, antioxidant activity, binding interactions, and antibacterial activity against methicillin-resistant *Staphylococcus aureus* of a Ni(II) Schiff base complex: combined theoretical and experimental approaches

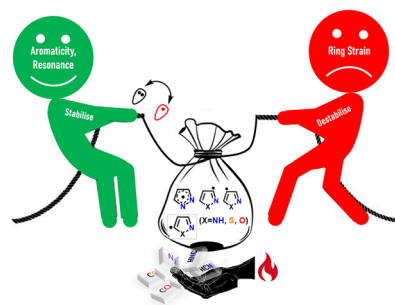
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Unravelling the factors affecting the stability and reactivity of dehydro-pyrazole, isothiazole and isoxazole radical isomers: a computational study

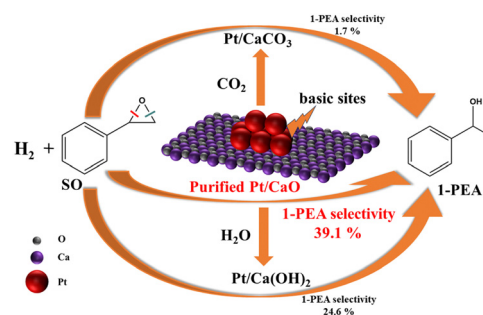
Anjali Mahadevan, Piyush Kumar, Shabana Butt, Archana Velloth and Sugumar Venkataramani*



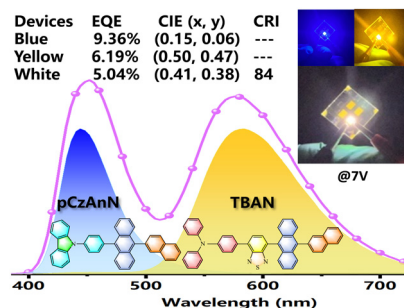
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Purified CaO supported Pt nanoparticles for the selective hydrogenation of styrene oxide with enhanced selectivity of 1-phenylethanol

Chenqi Zhao, Rixin You, Meihua Jin, Xing Jin, Pingfan Wu,* Meng He* and Minghui Liang*



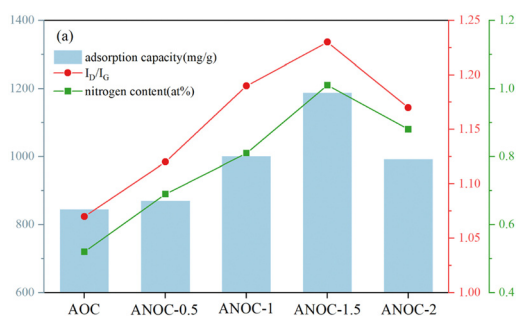
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Simple and efficient non-doped deep-blue and white organic light-emitting diode based on hybridized local and charge transfer (HLCT) materials

Xiyu Wang, Xiaoxia Li, Ruihao Yang, Huixia Xu,*
Baoyou Liu, Gang Yue, Hua Wang and Yanqin Miao*

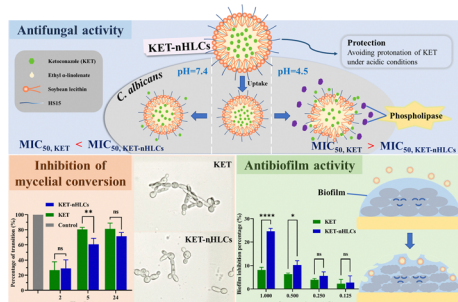
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Defect-rich N doped porous carbon derived from *Camellia* shells for chlorobenzene adsorption

Jing Liao, Ke Yin, Xiaodong Chen and Bichun Huang*

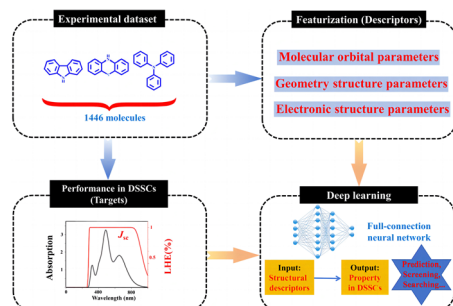
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The inhibitory effect of ketoconazole-loaded nanostructure hybrid lipid capsules on the growth and biofilm activity of *C. albicans*

Yuli Li, Yunjing Jia, Mingzhu Wang, Qingmin Liu,
Fuyou Wang, Runliang Feng* and Zhimei Song*

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Deep-learning-assisted photovoltaic performance prediction of sensitizers in dye-sensitized solar cells

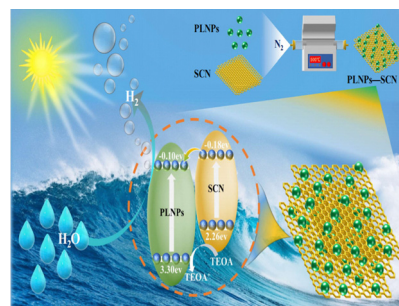
Yujin Zhang, Haoqing Fu, Meina Zhang, Qingbo Yang*
and Wei Hu*



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PLNPs/SCN heterojunction composites with a green afterglow for photocatalytic hydrogen production

Abuduaini Abulimiti, Peng Yan, Mengfan Niu and Abdukader Abdukayum*



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Metformin and silymarin loaded onto poly(caprolactone)/chitosan polymeric nanofiber based pads for diabetic wound healing

Asma Sepahdar, Reyhaneh Rahnamafar, Saeed Bahadorikhalili, Kamran Azadbakht, Omid Eslami, Mohammad Amin Rezvanfar, Ghassem Rezaei* and Hamid Akbari Javar*

