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Cover
See Beena G. Singh, Claudio Santi *et al.*, pp. 36–44.
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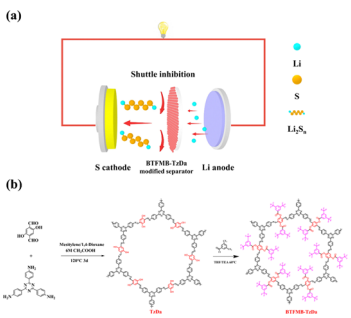
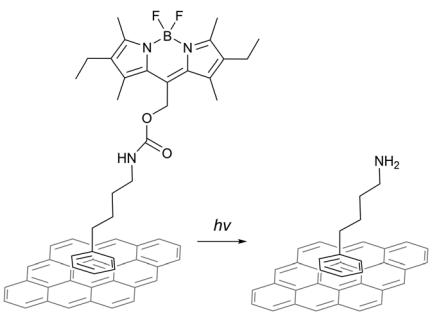
The authors thank Dr Micol Santi who produced this original artwork.

COMMUNICATIONS





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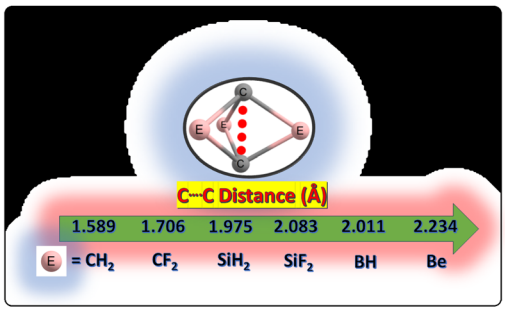

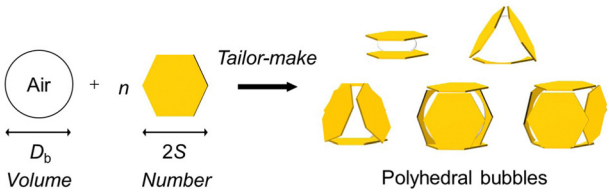

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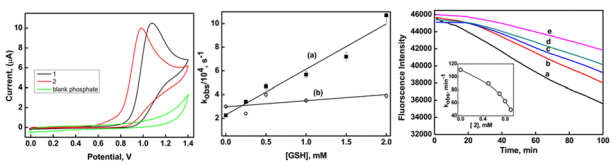

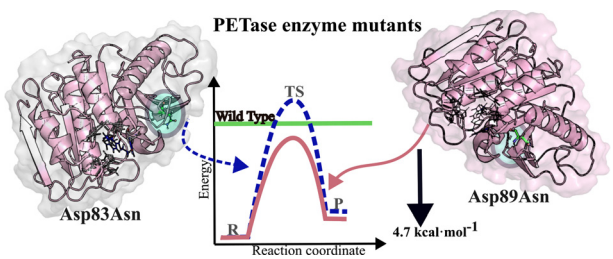

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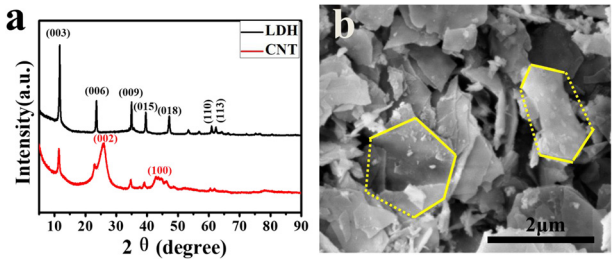

High-rate carbon nanotube/magnetic-sheet composites *in situ* synthesized using a fluidized bed for high-frequency microwave absorption

Lele Xu, Chenghui Sun, Chen Liang, Jinsong Yang, Xinxin Yuan and Minghai Chen*

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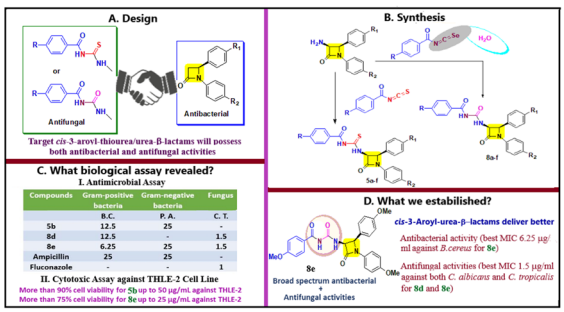

Aroyl-isothiocyanates/isoselenocyanates as precursors to obtain novel *cis*-3-aroyl-thiourea/urea-β-lactams: design, synthesis, docking and biological evaluation

Pankaj Kumar, Jaswinder Kaur, Sumeeta Kumari, Sakshi Paliwal, Shiwani Berry, Anil Kumar Pinnaka* and Aman Bhalla*

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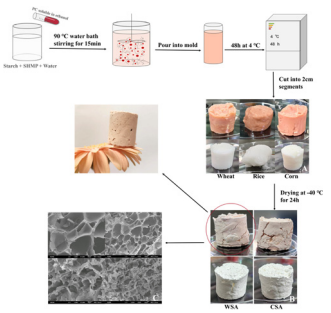

Preparation and characterisation of wheat starch-based aerogels for procyanidin encapsulation to enhance stability

Tian-Xiao Yang, Hang Li, Yuan Zhu, Yu Gao, Hong-Ning Lv, Sheng-Hua Zha, Xiao-Li Sun* and Qing-Sheng Zhao*

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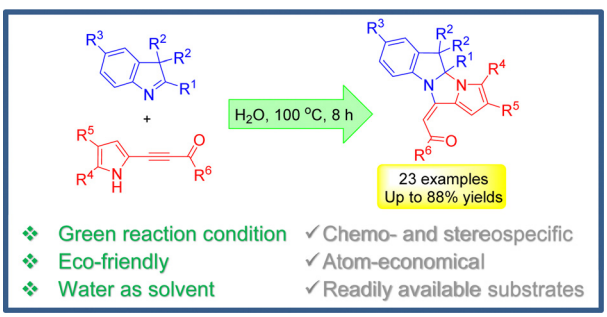

Eco-friendly, in-water, and catalyst-free assembly of acylethenylpyrroloimidazoindoles from 3*H*-indoles and acylpyrrolylacetylenes

Ludmila A. Oparina, Kseniya V. Belyaeva, Nikita A. Kolyvanov, Igor A. Ushakov, Denis N. Tomilin, Lyubov N. Sobenina, Anton V. Kuzmin and Boris A. Trofimov*

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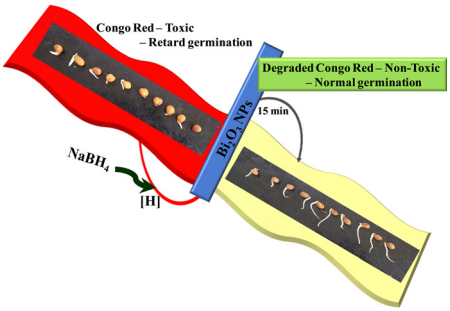

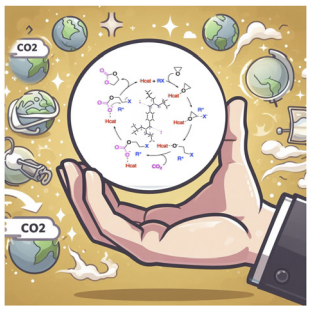

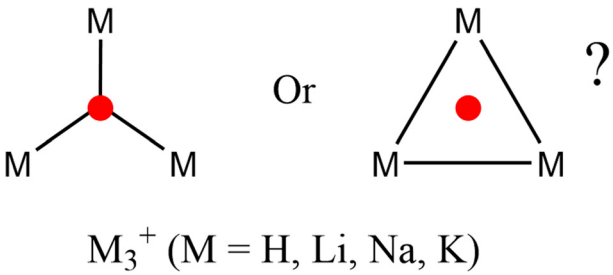

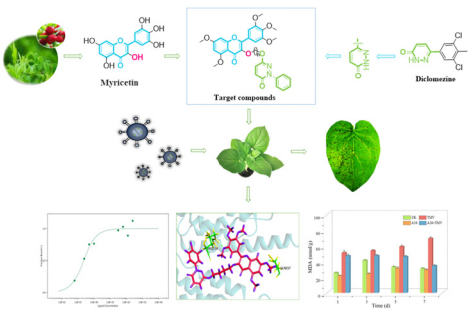

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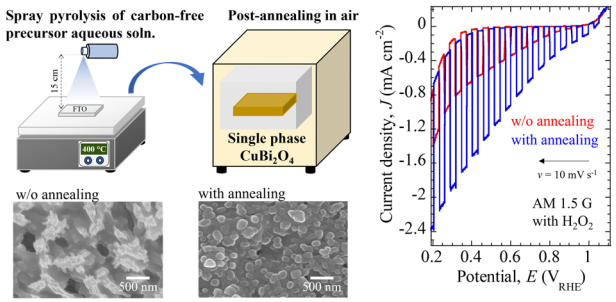

Photoelectrochemical properties of p-type $CuBi_2O_4$ prepared by spray pyrolysis of carbon-free precursor aqueous solution combined with post-annealing treatment

Kaisei Wakishima, Tomohiro Higashi,* Akira Nagaoka and Kenji Yoshino*

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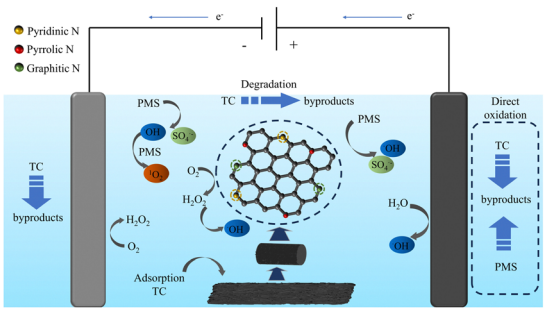

Three-dimensional N-doped carbon electrodes activate peroxymonosulfate for tetracycline degradation

Jieyu Zhao and Yonggang Zhang*

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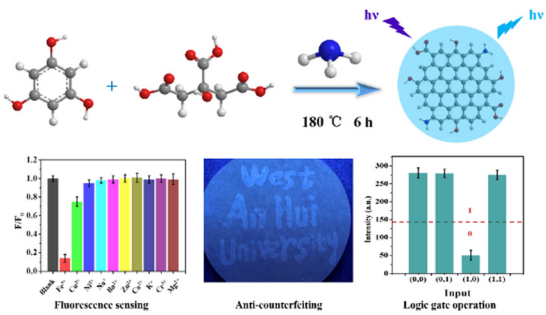

Nitrogen-doped carbon quantum dots for fluorescence sensing, anti-counterfeiting and logic gate operations

Li Xu, Yi Qian, Lei Bao, Wei Wang, Nengmei Deng, Li Zhang, Guanglin Wang, Xucheng Fu* and Wei Fu*

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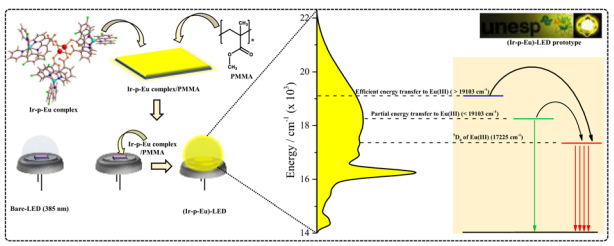

Heterobimetallic iridium^{III}–europium^{III} complex: the role of donor energy on sensitising the Eu^{III} ion

Felipe da Silva Manrique Canisares, Renan Caike Silva, Marian Rosaly Davolos, Ana Maria Pires and Sergio Antonio Marques Lima*

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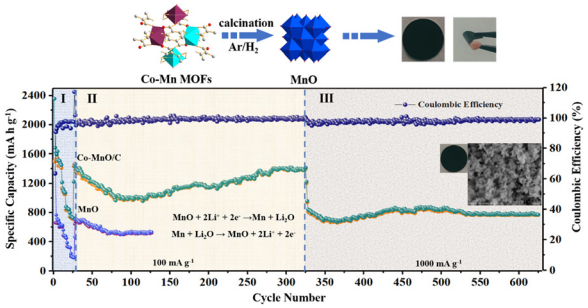

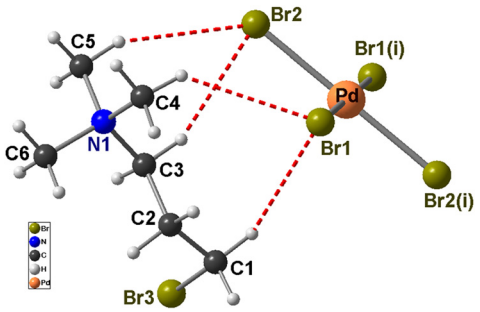

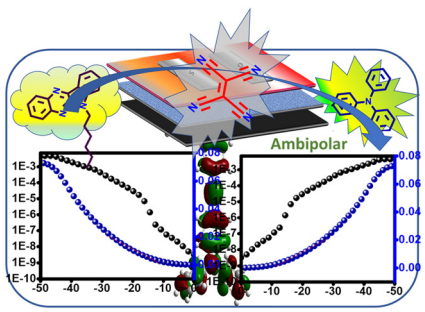

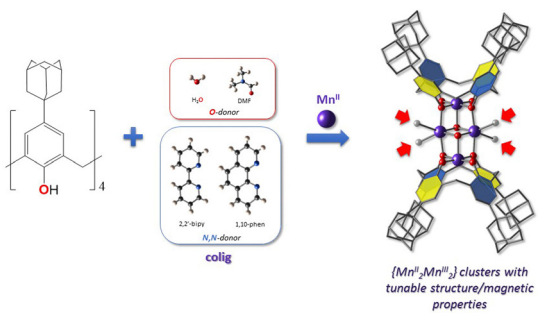

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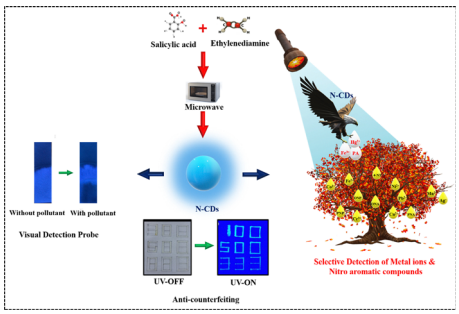

Simple devising of N-doped carbon dots (N-CDs) as a low-cost probe for selective environmental toxin detection and security applications

Kumaresan Annamalai, Arun Annamalai, Ramya Ravichandran, Anandhavalli Jeevarathinam, Padmanaban Annamalai, Hector Valdes and Sundaravadivel Elumalai*

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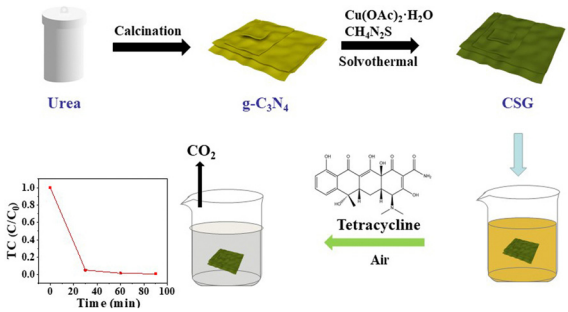

Enhanced oxidative degradation of tetracycline by visible light-promoted g-C_3N_4 modified $Cu_3(OH)_4SO_4/Cu_7S_4$ composites under an air atmosphere

Yan Wang, Haoran Li, Daqing Chen, Danhua Ge* and Xiaojun Chen*

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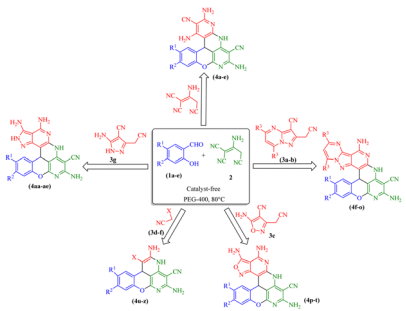

Synthesis of novel chromeno[1,6]naphthyridine derivatives in PEG-400 *via* catalyst-free, one-pot, and multicomponent reactions

Fatemeh Asilpour, Dariush Saberi* and Alireza Hasaninejad*

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Synthesis of functionalized disiloxanes with nonconventional fluorescence *via* oxa-Michael addition reaction

Rui Wang, Shengyu Feng, Hailong Liu, Gang Yi and Dengxu Wang*

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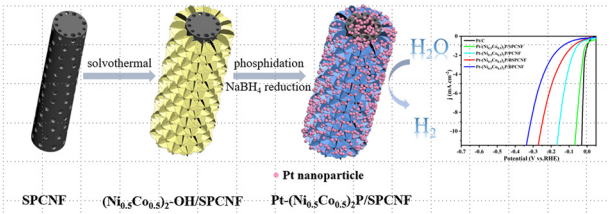

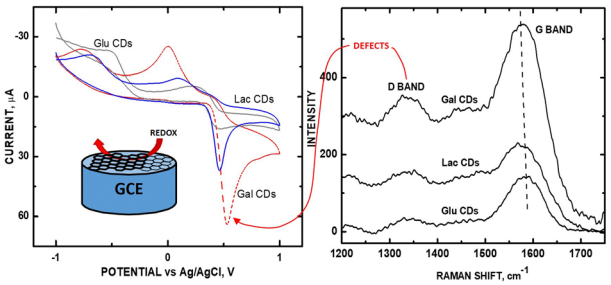

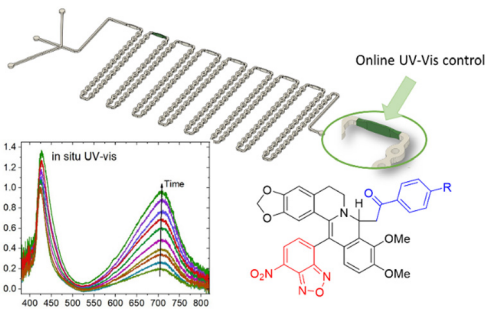

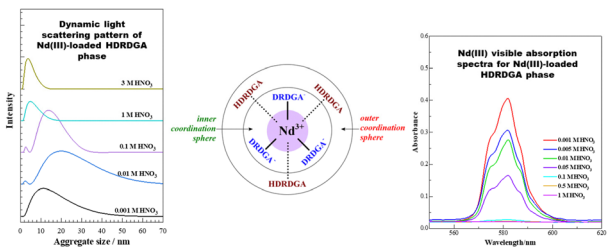

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CORRECTIONS

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Correction: Developing a biocatalyst showcasing the synergistic effect of rice husk biochar and bacterial cells for the removal of heavy metals

Soumya Koippully Manikandan and Vaishakh Nair*

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Correction: Kinetics and mechanism of halide exchange in reactions of $CpRu(PPh_3)_2Cl$ with alkyl halides: evidence for radical pairs

Katherine Carney, Lauren Polito, Kamilya Reid, Surbhi Srinivas, Gabrielle Blake, Nithin Chintala, Sijia S. Dong* and Rein U. Kirss*