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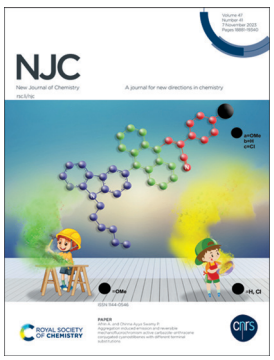

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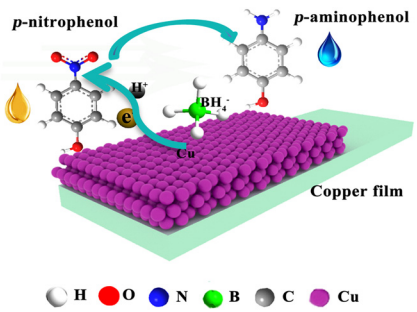

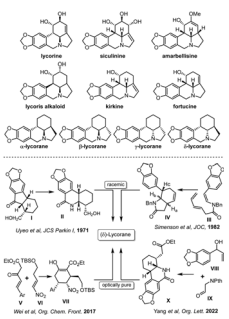

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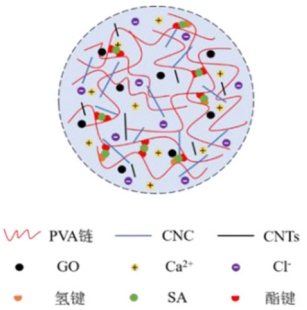

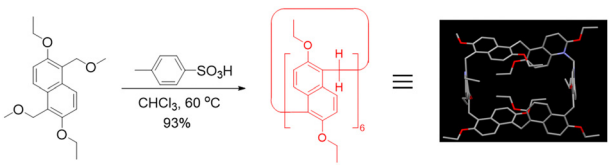

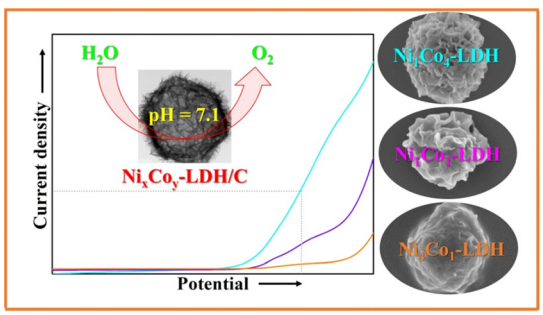

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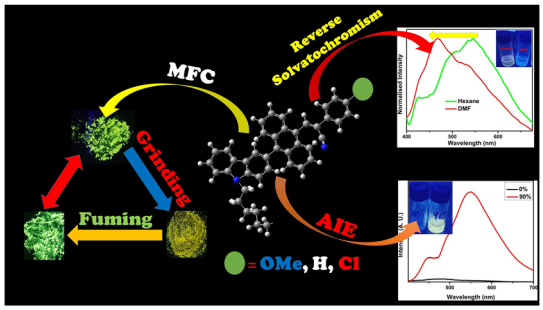

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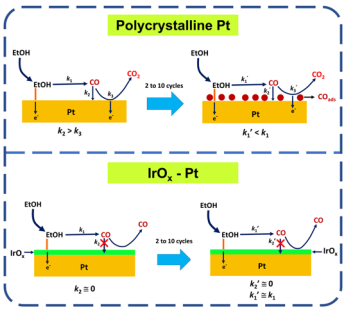

IrO$_x$–Pt electrode for the electro-oxidation of ethanol in alkaline-type direct ethanol fuel cells: an excellent CO-tolerant catalyst

Md. Fahamidul Islam, Jahir Ahmed, M. Faisal, Jari S Algethami, Kentaro Aoki, Yuki Nagao, Farid A. Harraz* and Mohammad A. Hasnat*

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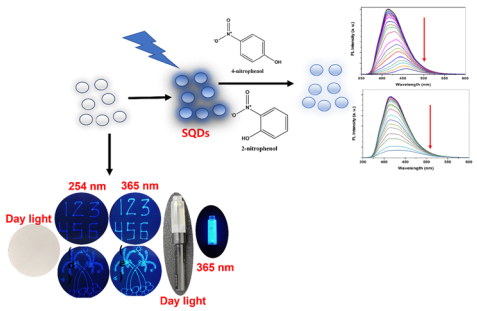

Sensing nitrophenols and luminescent ink applications of sulfur quantum dots

Sai Kumar Tammina, Ruchir Priyadarshi and Jong-Whan Rhim*

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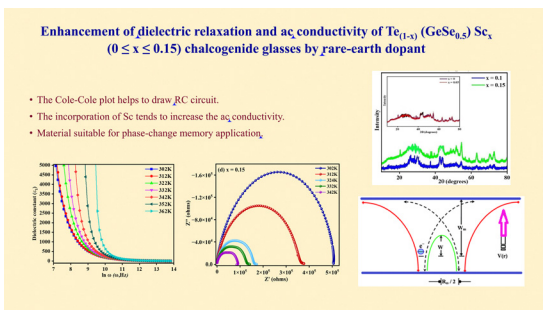

Enhancement of dielectric relaxation and AC conductivity of $Te_{(1-x)}(GeSe_{0.5})Sc_x$ ($0 \leq x \leq 0.15$) chalcogenide glasses by a rare-earth dopant

Surbhi Agarwal, Pooja Lohia and D. K. Dwivedi*

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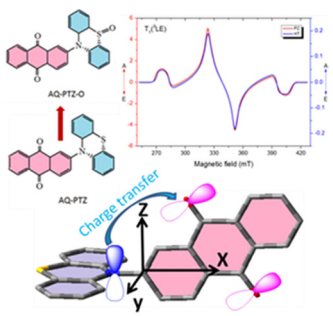

Spin–orbit charge transfer intersystem crossing and thermal activation delayed fluorescence (TADF) studies of compact orthogonal anthraquinone phenothiazine derivatives

LingLing Lv,* Kun Yuan, TianYu Zhao, HuiXue Li and DongMei Wang

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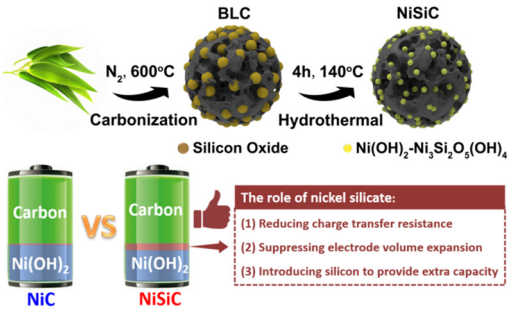

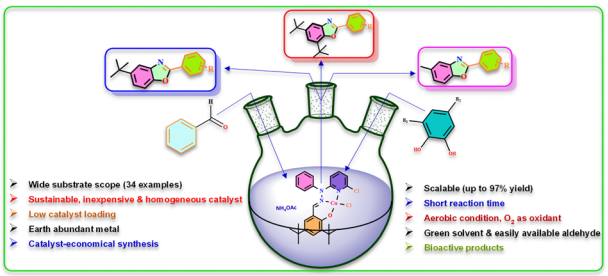

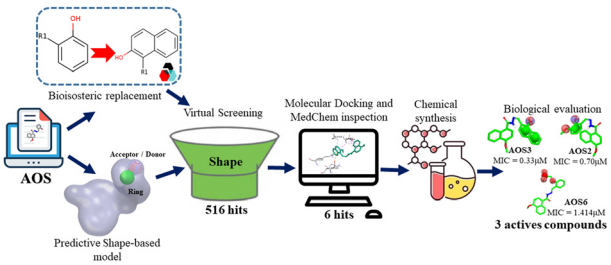

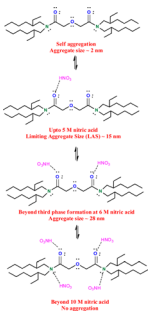

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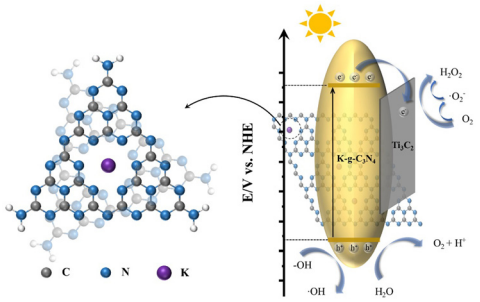

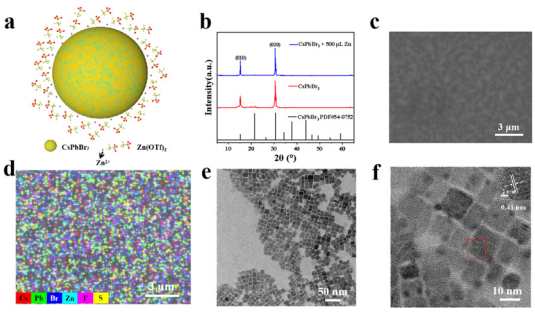

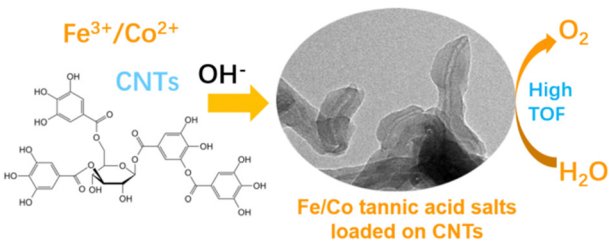

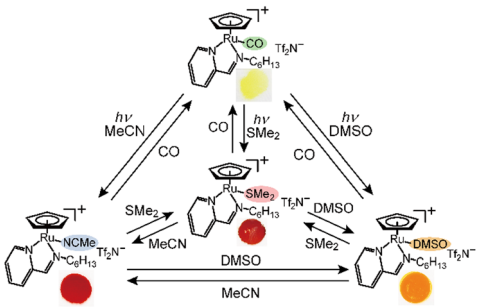

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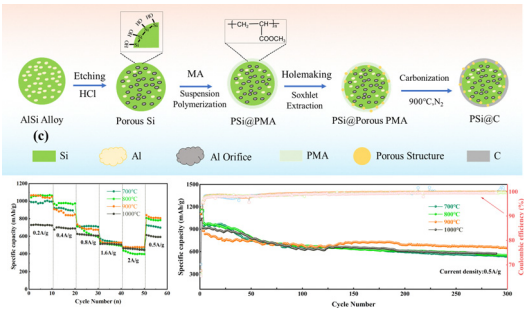

Preparation of porous silicon composite anode material coated with open pore polymethyl acrylate and its electrochemical performance as a carbon source

Simin Liao, Xiang Shi, Yefei Xu, Mengyue Liu, Nengwen Ding,* Xiaocheng Li and Zhifeng Li

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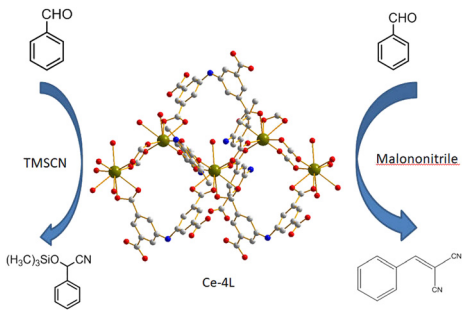

A dual-functional 3D cerium MOF heterogeneous catalyst for catalysing Knoevenagel condensation and cyanosilylation

Peiran Zhao, Yuqian Liu, Cheng He and Chunying Duan*

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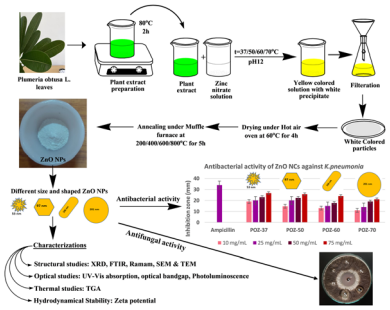

The effect of reaction and annealing temperatures on physicochemical properties of highly stable ZnO nanoparticles synthesized *via* a green route using *Plumeria obtusa* L.

Bibi Raza Khanam, Prachalith N. C., Basavaraj Angadi, B. Uma Reddy and Khadke Udaykumar*

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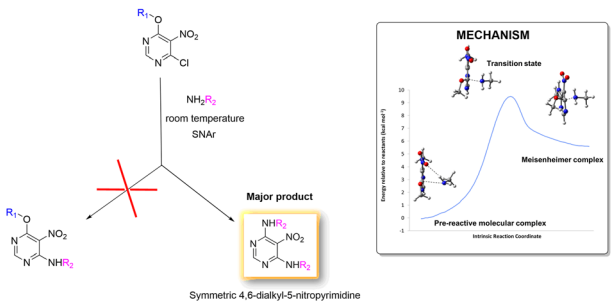

Symmetric 4,6-dialkyl/arylamino-5-nitropyrimidines: theoretical explanation of why aminolysis of alkoxy groups is favoured over chlorine aminolysis in nitro-activated pyrimidines

Laura Córdoba Gómez, Alvaro Lorente-Macias, María José Pineda de las Infantas y Villatoro, Andrés Garzón-Ruiz* and Juan J. Diaz-Mochon*

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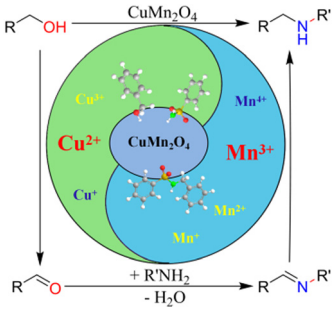

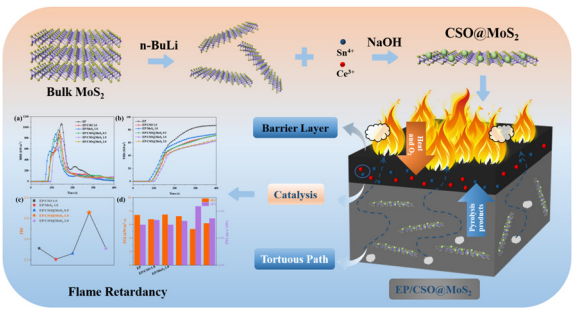

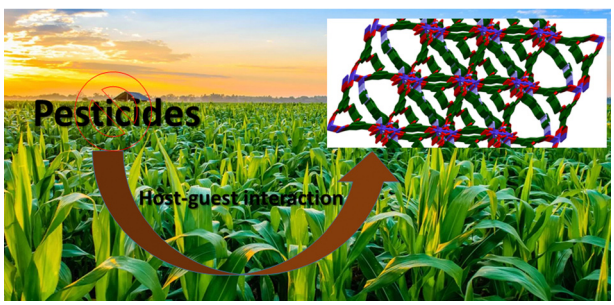

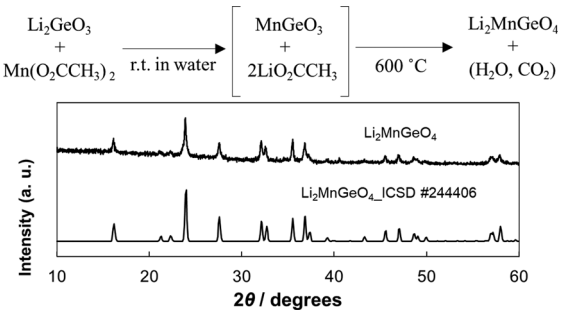

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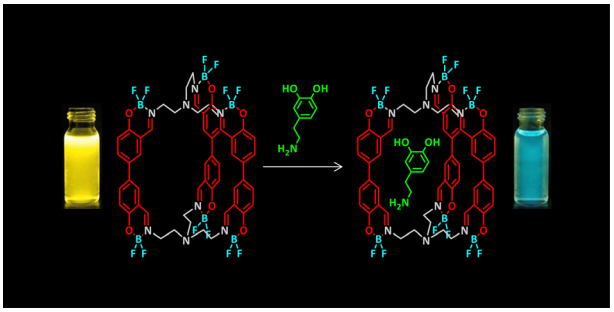

Selective naked-eye detection of dopamine using an imino-boron molecular capsule

P. P. Praveen Kumar, Ashima Bajaj, Prodipta Samadder, Md. Ehesan Ali and Prakash P. Neelakandan*

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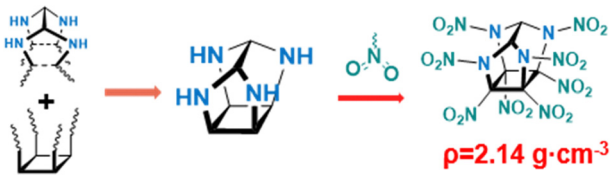

Touching the density limits of energetic materials by molecular design

Yunlu Li,* Xinzhong Wang and Mei Xue*

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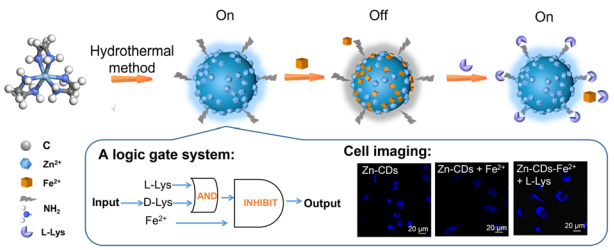

Sequential on–off–on detection of Fe^{2+} and enantiomeric L-lysine with logic gate operation based on fluorescent carbon dots derived from a zinc–amine complex

Xinlei Zhang, Peng Liu, Yuchi Zhang, Bohan Li and Yan Xu*

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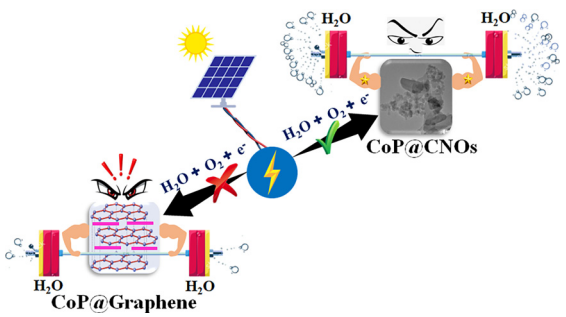

Ultrathin cobalt phosphate enfolded with biomass-derived multishelled carbon onion as a proficient electrocatalyst for the oxygen evolution reaction and its green sustainability assessments

Sundarraj Sriram, Bakthavachalam Vishnu and Jayaraman Jayabharathi*

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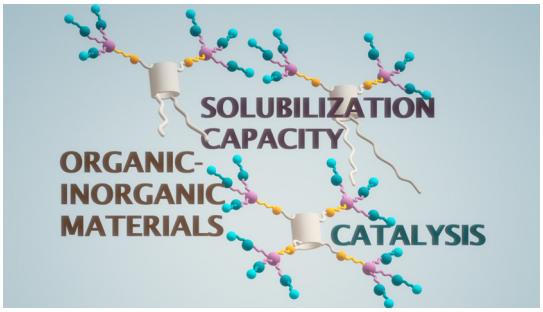

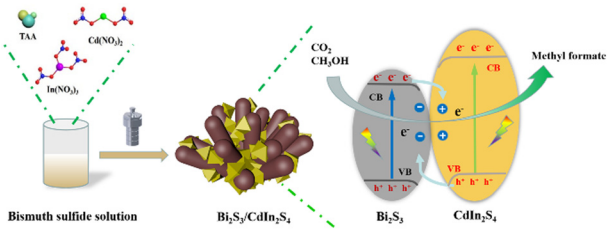

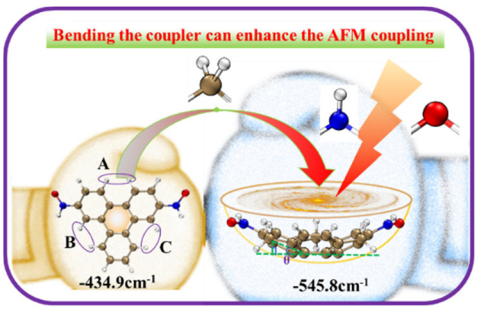

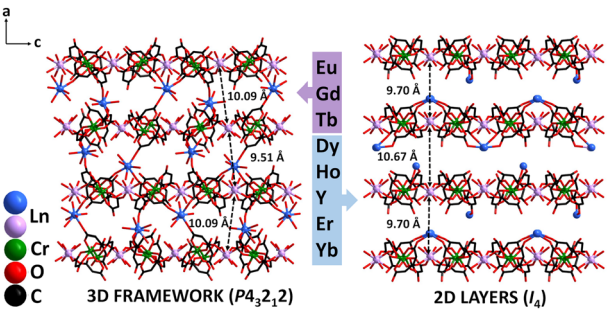

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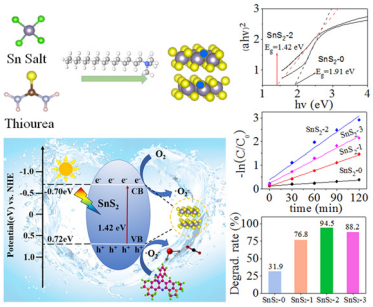
Engineering crystal planes and band structure of 2D tin sulfide nanosheets and investigating their photocatalytic degradation performance

Zhixin Jia, Xiaofeng Shuai, Ruihua Zhao and Jianping Du*



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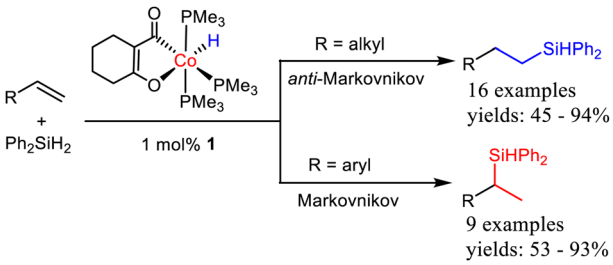
Distinct selective alkene hydrosilylation catalyzed by acylenalato cobalt hydrides

Xin Wang, Xiaoyan Li and Hongjian Sun*



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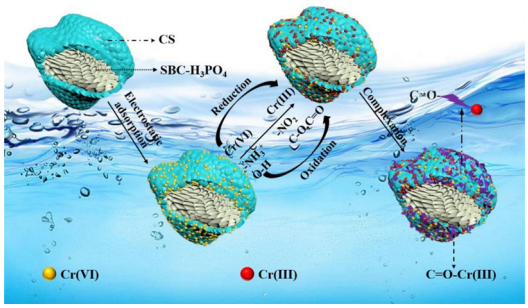
A novel sludge-based biochar composite adsorbent CS/SBC-H_3PO_4 for efficient Cr(VI) removal from aqueous solution

Hui Wang, Dengjie Zhong,* Yunlan Xu and Pengfei Liao



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Highly efficient oxidative removal of thiophene at ambient temperature over synthetic MnO_2/zeolite nanocomposites

Zahra Chenari, Maasoumeh Khatamian* and Azin Yavari