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IN THIS ISSUE

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Cover

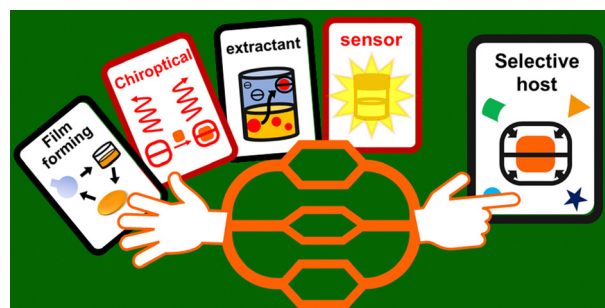
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FEATURE ARTICLES

13668

Recent applications of organic cages in sensing and separation processes in solution

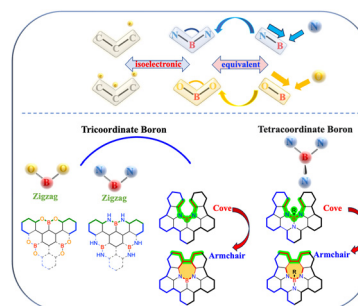
Sonia La Cognata and Valeria Amendola*



13679

Heteroatom-boron-heteroatom-doped π -conjugated systems: structures, synthesis and photofunctional properties

Tinghao Ma, Jiaqi Dong and Deng-Tao Yang*



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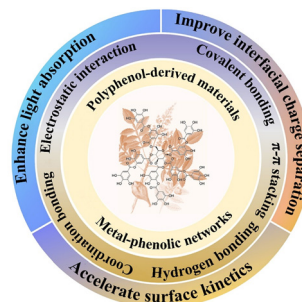


FEATURE ARTICLES

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Functions of metal–phenolic networks and polyphenol derivatives in photo(electro)catalysis

Xiao-Long Liu, Hai-Chao Wang, Tao Yang, Xin-Zheng Yue and Sha-Sha Yi*

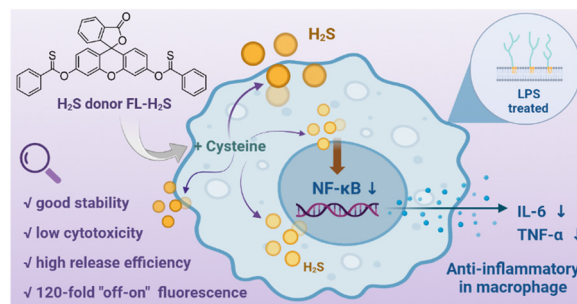


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A new dual functional H₂S donor for fluorescence imaging and anti-inflammatory application

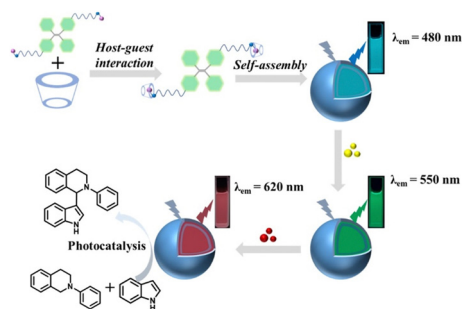
Shumei Huang, Zejun Li, Wenhui You, Guansheng Zheng, Huatang Zhang,* Yin Jiang* and Hongyan Sun*



13707

A cavitant-based supramolecular artificial light-harvesting system with sequential energy transfer for photocatalysis

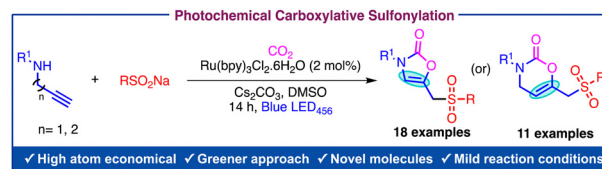
Qian Liu, Minzan Zuo, Kaiya Wang* and Xiao-Yu Hu*



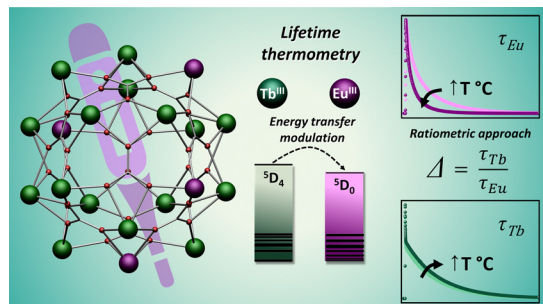
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Visible-light-induced bifunctionalisation of (homo)propargylic amines with CO₂ and arylsulfonates

Mandapati Bhargava Reddy and Eoghan M. McGarrigle*



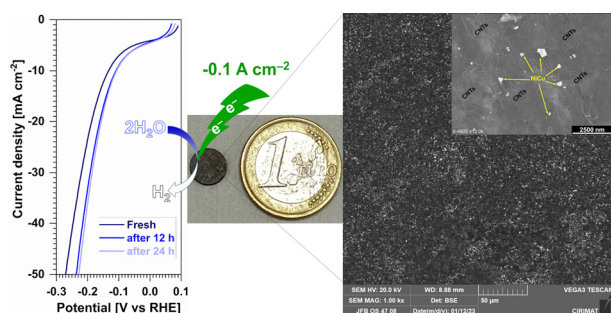
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Intra-cluster energy transfer editing in a dual-emitting system to tap into lifetime thermometry

Claudia Manuela Santos Calado, Diogo Alves Gálico and Muralee Murugesu*

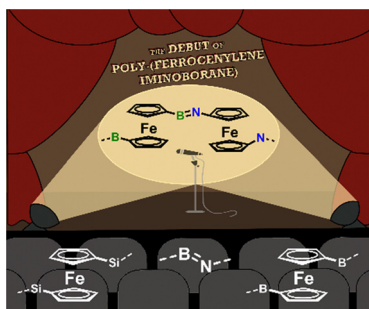
13719



Spark plasma sintered catalytic nickel–copper alloy and carbon nanotube electrodes for the hydrogen evolution reaction

Jean-Félix Boué, Cédric Espinet, Simon Amigues, David Mesguich, David Cornu, Yaovi Holade,* Julien Cambedouzou* and Christophe Laurent*

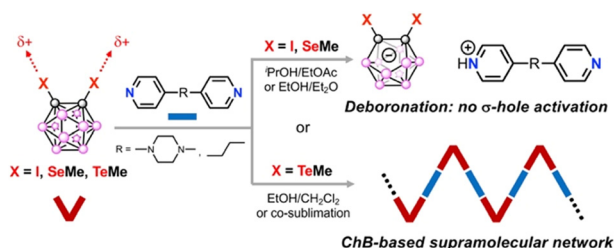
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Poly(ferrocenylene iminoborane): an inorganic–organic hybrid polymer comprising a backbone of moderately interacting ferrocenes

Vivien Zeh, Johannes S. Schneider, Jonas Bachmann, Ivo Krummenacher, Holger Braunschweig and Holger Helten*

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Carborene-based heteromolecular extended networks driven by directional C–Te...N chalcogen bonding interactions

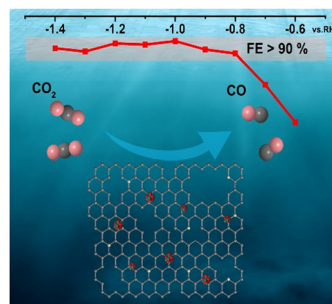
Maxime Beau, Olivier Jeannin, Marc Fourmigué,* Emmanuel Aubert, Enrique Espinosa, Sunhee Lee, Won-Sik Han and Je-Rang Jeon*



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Facile synthesis of supported CuNi nano-clusters as an electrochemical CO₂ reduction catalyst with broad potential range

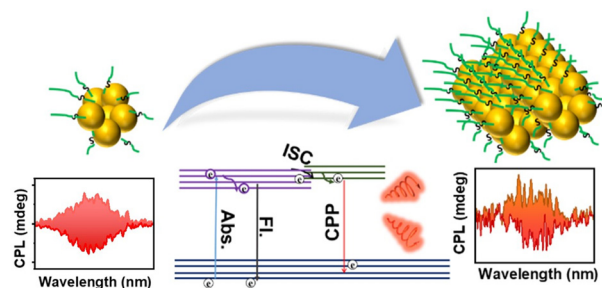
Jiale Wang, Fan Li, Runhua Li, Qian Xiang, Wencong Zhang, Chengyi Song, Peng Tao, Wen Shang, Tao Deng, Hong Zhu and Jianbo Wu*



13735

Dual emissive optically active gold nanoclusters endowed with circularly polarized phosphorescence

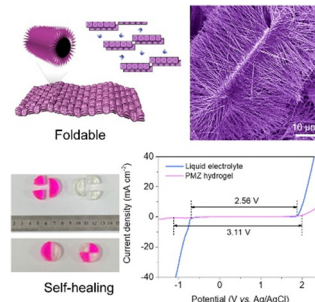
Camelia Dutta, Sonia Maniappan and Jatish Kumar*



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A foldable self-healing rocking chair zinc-ion battery using a three-dimensional zinc metal-free anode

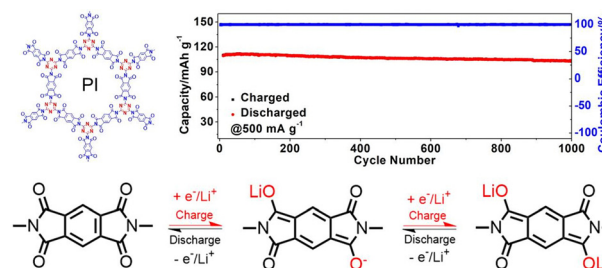
Jiawei Long, Tianli Han, Xirong Lin, Yajun Zhu and Jinyun Liu*



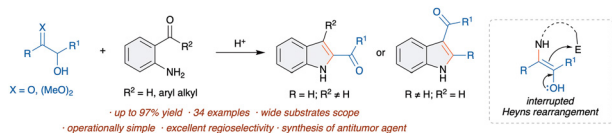
13743

Fabrication of porous polyimide as cathode for high performance lithium-ion battery

Xianyu Liu,* Mingxun Xie, Yunxia Wei, Yongliang Guo and Zheng Liu



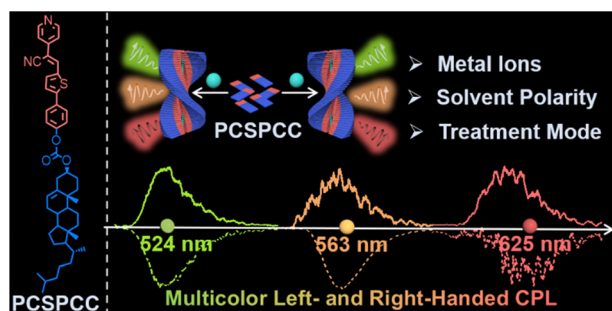
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An interrupted Heyns rearrangement approach for the regioselective synthesis of acylindoles

Minakshi Altia and Pazhamalai Anbarasan*

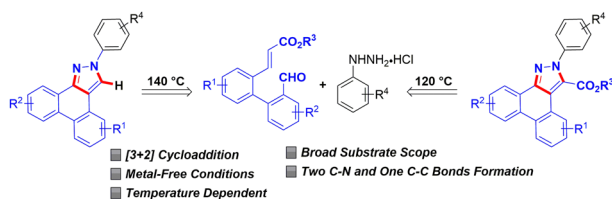
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Multicolor circularly polarized luminescence inversion of metal-organic supramolecular polymers

Kuo Fu and Guofeng Liu*

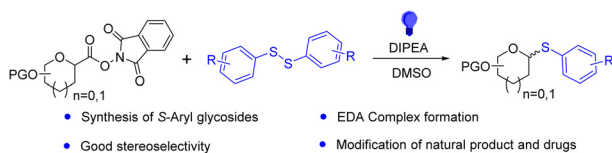
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Transition metal-free and temperature dependent one-pot access to phenanthrene-fused heterocycles via a 1,3-dipolar cycloaddition pathway

Mokilla Ramachandra Reddy, Eerappa Rajakumara and Gedu Satyanarayana*

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Visible-light-mediated synthesis of non-anomeric S-aryl glycosides via a photoactive electron-donor-acceptor complex

Le Zhang, Shiyun He, Jinyu Hou, Meiling Ye, Jian Chen, Guanghui Lv, Tianle Huang, Zhongzhen Yang* and Yong Wu*

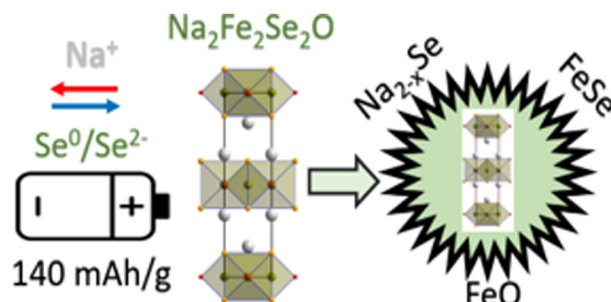


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13763

Na₂Fe₂Se₂O: a double anti-perovskite with prevalence of anionic redox activity in Na-ion batteries

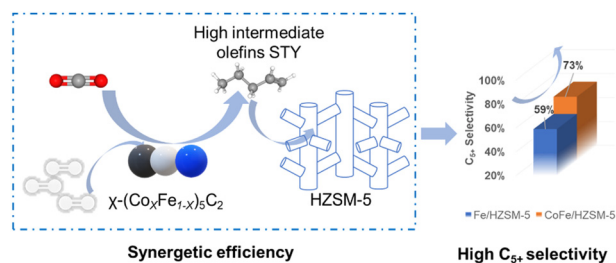
Mikhail V. Gorbunov,* Thomas Doert and Daria Mikhailova



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Bifunctional CoFe/HZSM-5 catalysts orient CO₂ hydrogenation towards liquid hydrocarbons

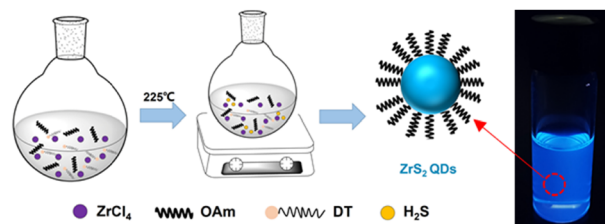
Kai Wang, Na Liu, Jian Wei,* Yang Yu, Jixin Zhang, Joshua Iseoluwa Orege, Lifei Song, Qingjie Ge and Jian Sun*



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Facile synthesis of wide bandgap ZrS₂ colloidal quantum dots for solution processed solar-blind UV photodetectors

Zan Wang, Yunjiao Gu, Fenghua Liu and Weiping Wu*



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A high-performance crystalline Ti₂O_{1.3}(PO₄)_{1.6}/TiO₂ carbon-coated composite as an anode for lithium-ion batteries

Yayun Zheng, Yuefo Yi, Ziyi Yang, Wenbin Zhou, Yichao Wang and Zhengfei Chen*

