

IN THIS ISSUE

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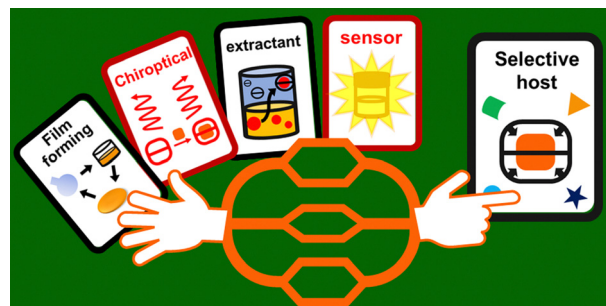
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FEATURE ARTICLES

13668

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

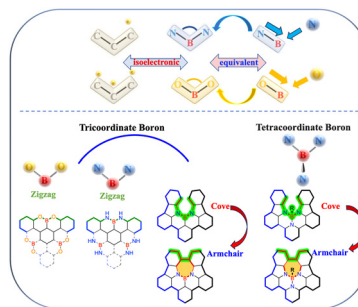
Sonia La Cognata and Valeria Amendola*



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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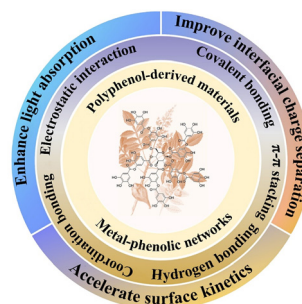


FEATURE ARTICLES

13690

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*

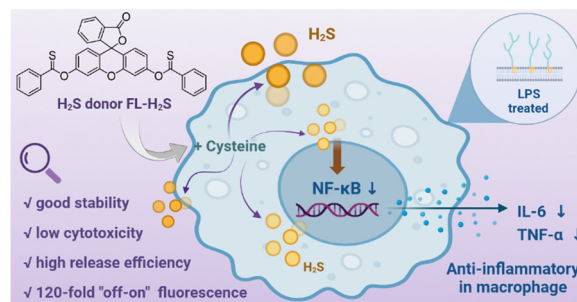


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13703

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

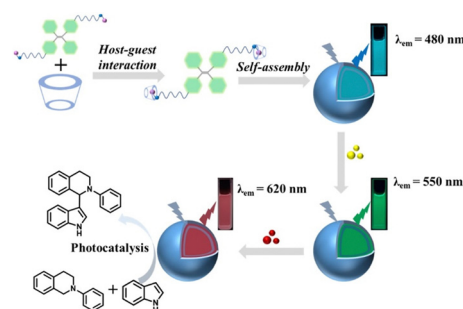
Shumei Huang, Zejun Li, Wenhui You, Guansheng Zheng, Huatang Zhang,* Yin Jiang* and Hongyan Sun*



13707

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

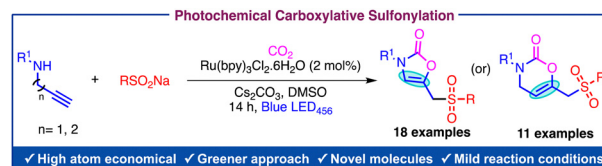
Qian Liu, Minzan Zuo, Kaiya Wang* and Xiao-Yu Hu*



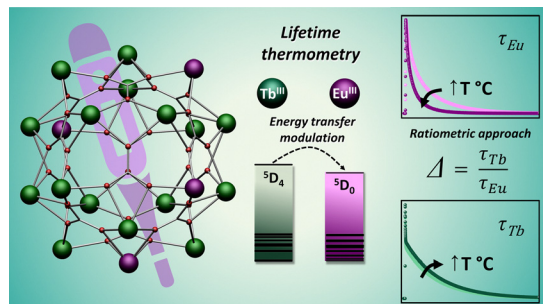
13711

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

Mandapati Bhargava Reddy and Eoghan M. McGarrigle*



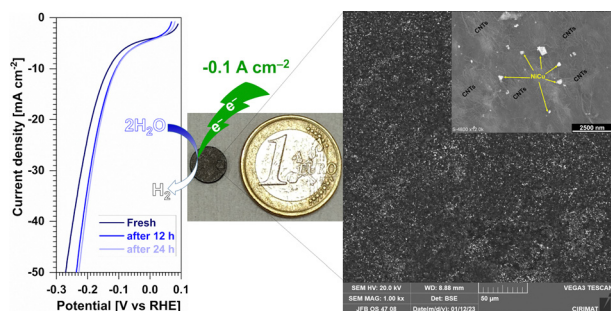
13715



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*

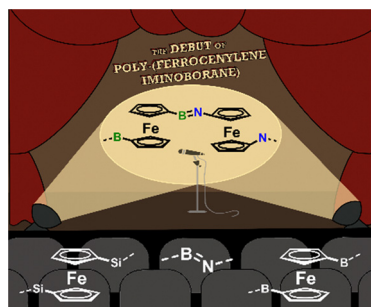
13719



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*

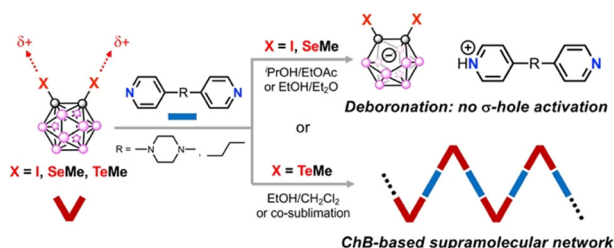
13723



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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Carborane-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 le-Rang Jeon*

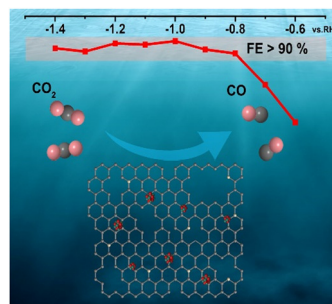


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Facile synthesis of supported CuNi nano-clusters as an electrochemical CO₂ reduction catalyst with broad potential range

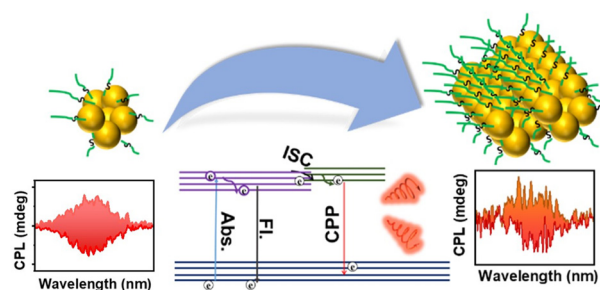
Jiale Wang, Fan Li, Runhua Li, Qian Xiang,
Wencong Zhang, Chengyi Song, Peng Tao,
Wen Shang, Tao Deng, Hong Zhu and Jianbo Wu*



13735

Dual emissive optically active gold nanoclusters endowed with circularly polarized phosphorescence

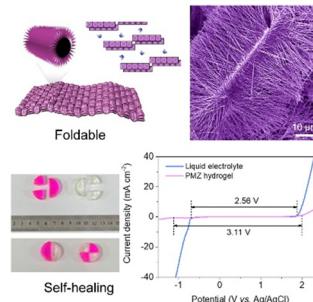
Camelia Dutta, Sonia Maniappan and Jatish Kumar*



13739

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

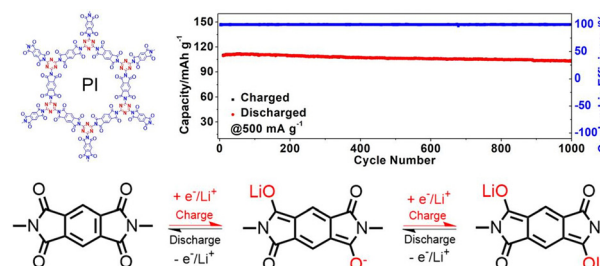
Jiawei Long, Tianli Han, Xirong Lin, Yajun Zhu and
Jinyun Liu*



13743

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

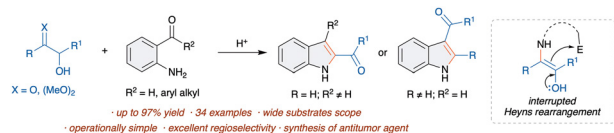
Xianyu Liu,* Mingxun Xie, Yunxia Wei, Yongliang Guo
and Zheng Liu



13747

An interrupted Heyns rearrangement approach for the regioselective synthesis of acylindoles

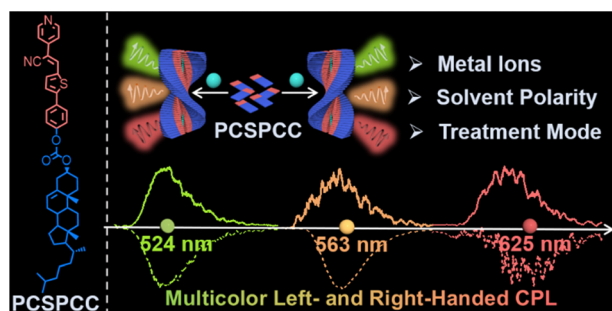
Minakshi Altia and Pazhamalai Anbarasan*



13751

Multicolor circularly polarized luminescence inversion of metal–organic supramolecular polymers

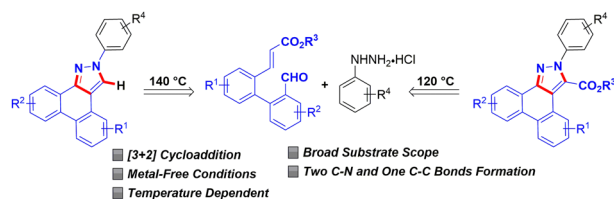
Kuo Fu and Guofeng Liu*



13755

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

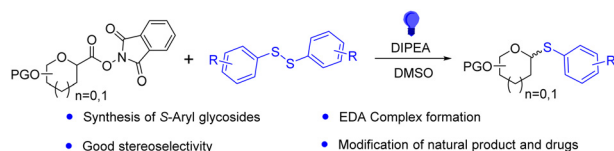
Mokilla Ramachandra Reddy, Eerappa Rajakumara and Gedu Satyanarayana*



13759

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*

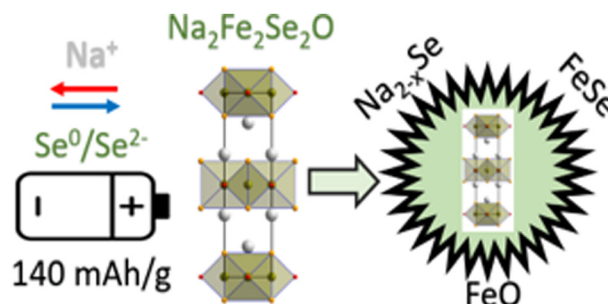


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13763

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

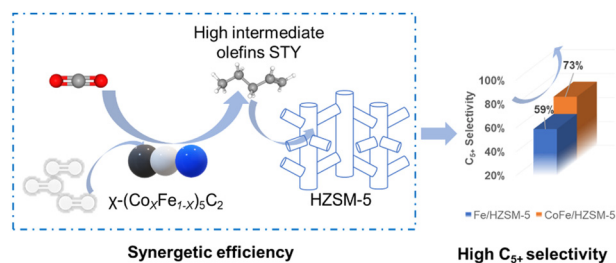
Mikhail V. Gorbunov,* Thomas Doert and Daria Mikhailova



13767

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

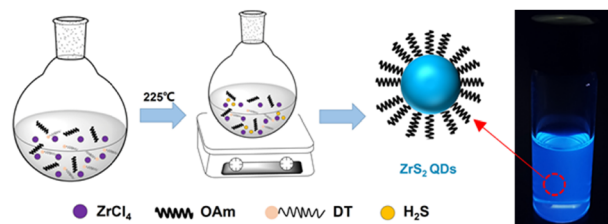
Kai Wang, Na Liu, Jian Wei,* Yang Yu, Jixin Zhang, Joshua Iseoluwa Orege, Lifei Song, Qingjie Ge and Jian Sun*



13771

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*

