

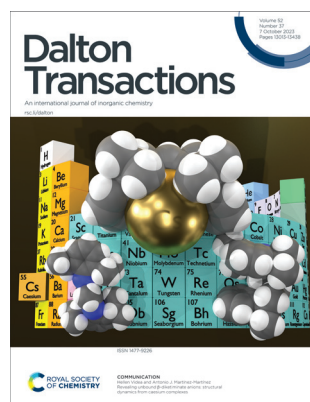
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ISSN 1477-9226 CODEN DTARAF 52(37) 13013–13438 (2023)



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See Hellen Videia and Antonio J. Martínez-Martínez, pp. 13058–13062.

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See J. Oscar C. Jiménez-Halla, Miquel Solà et al., pp. 13068–13078.

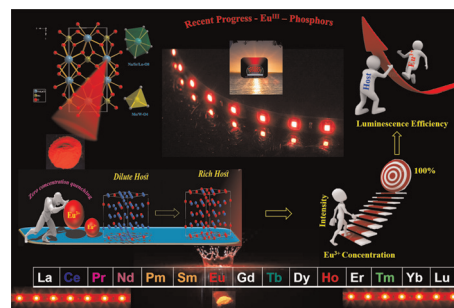
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PERSPECTIVE

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Recent progress in trivalent europium (Eu^{3+})-based inorganic phosphors for solid-state lighting: an overview

Kasturi Singh, Priyadarshini Pradhan, Savita Priya, Sibani Mund and Sivakumar Vaidyanathan*

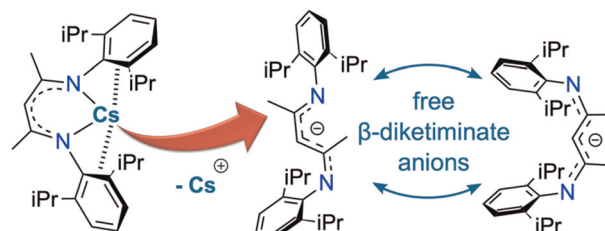


COMMUNICATIONS

13058

Revealing unbound β -diketiminato anions: structural dynamics from caesium complexes

Hellen Videia and Antonio J. Martínez-Martínez*



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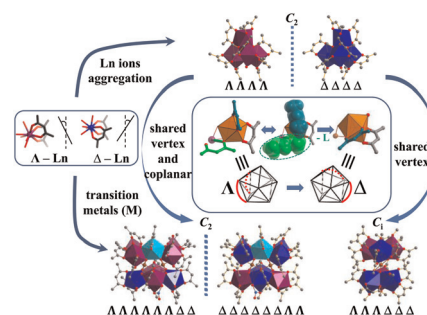


COMMUNICATIONS

13063

Doping transition metals to modulate the chirality and photocatalytic activity of rare earth clusters

Ying Lu, Wen-Zhu Yang, Xiu-Xia Ding, Si-Qi Nie, Zhan-Guo Jiang* and Cai-Hong Zhan*

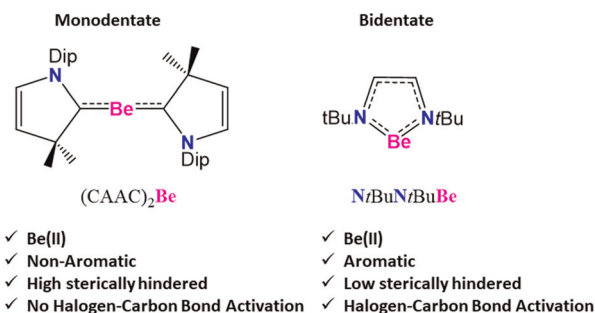


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Beryllium compounds for the carbon–halogen bond activation of phenyl halides: the role of non-innocent ligands

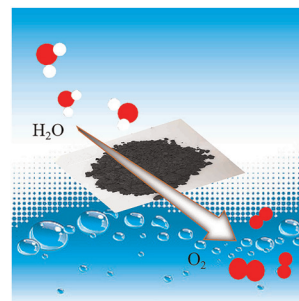
Daniel E. Trujillo-González, Gerardo González-García, J. Oscar C. Jiménez-Halla* and Miquel Solà*



13079

Designing N-doped graphene-like supported highly dispersed bimetallic NiCoP NPs as an efficient electrocatalyst for water oxidation

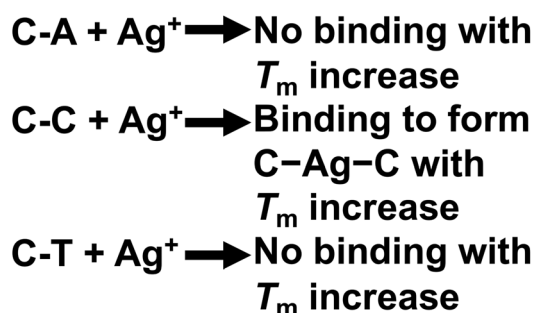
Jiabo Wang,* Yalin Fu, Peng Zhang, Jie Zhang, Xusen Ma, Jibo Zhang* and Li Chen*



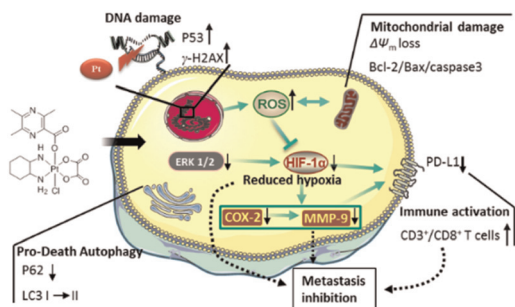
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Importance of isothermal titration calorimetry for the detection of the direct binding of metal ions to mismatched base pairs in duplex DNA

Hidetaka Torigoe* and Fumihiro Arakawa



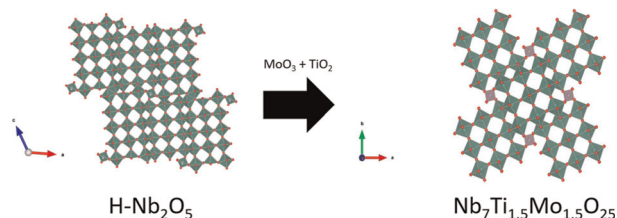
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A series of ligustrazine platinum(IV) complexes with potent anti-proliferative and anti-metastatic properties that exert chemotherapeutic and immunotherapeutic effects

Yan Chen, Linming Li, Zhifang Liu, Meifeng Liu* and Qingpeng Wang*

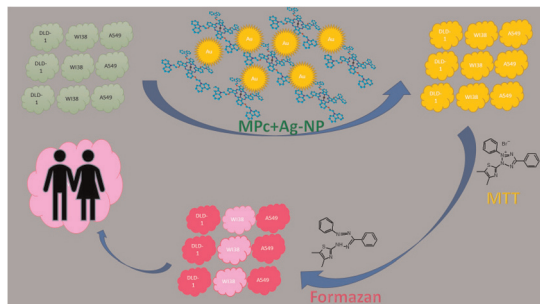
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Structural and electrochemical insights into novel Wadsley Roth Nb₇Ti_{1.5}Mo_{1.5}O₂₅ and Ta₇Ti_{1.5}Mo_{1.5}O₂₅ anodes for Li-ion battery application

A. J. Green,* E. H. Driscoll, Y. Lakhdar, E. Kendrick and P. R. Slater*

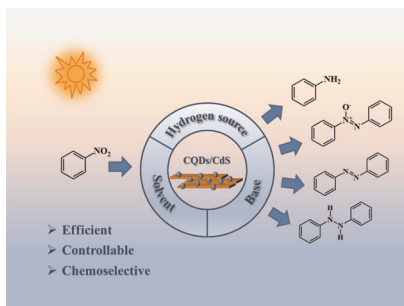
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Design of N-heterocycle based-phthalonitrile/metal phthalocyanine-silver nanoconjugates for cancer therapies

Özlem İpsiz Öney, H. Yasemin Yenilmez, Dilek Bahar, Nazlı Farajzadeh Öztürk and Zehra Altuntaş Bayır*

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Efficient visible light-initiated hydrogenation of nitrobenzene for chemoselective production of aniline, azoxybenzene, azobenzene and hydrazobenzene over CQDs/CdS nanocomposites

Hurunqing Liu, Zirong Deng, Bingqing Wang, Zhengxin Ding* and Zhaohui Li*

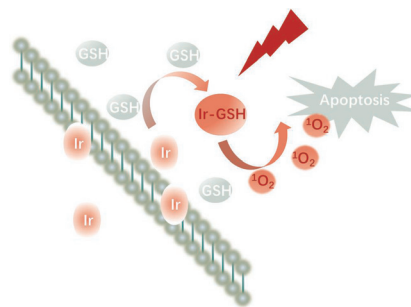


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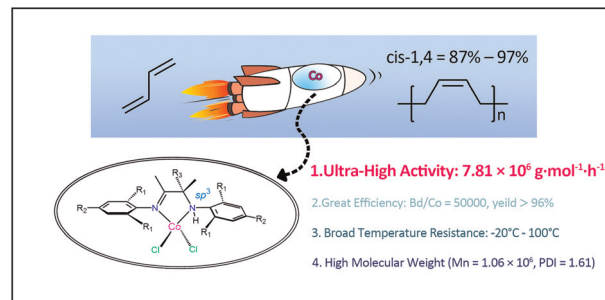
Rui Tu, Jie Liu, Weibin Chen, Fengfu Fu and Mei-Jin Li*



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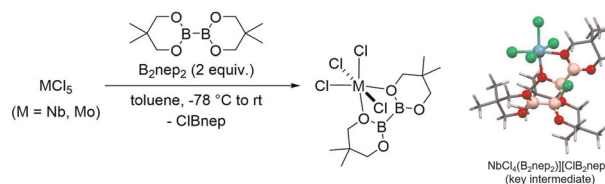
Yuan Fu, Jian Tang and Jing Hua*



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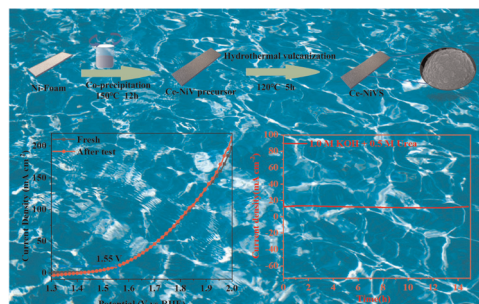
Hiromu Hosoya, Takuya Akiyama, Kazushi Mashima* and Hayato Tsurugi*



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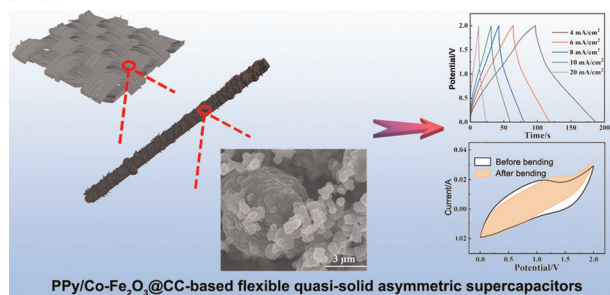
Controlled synthesis of M doped NiVS ($M = Co, Ce$ and Cr) as a robust electrocatalyst for urea electrolysis

Chao Wang, Qirun Wang, Xiaoqiang Du* and Xiaoshuang Zhang



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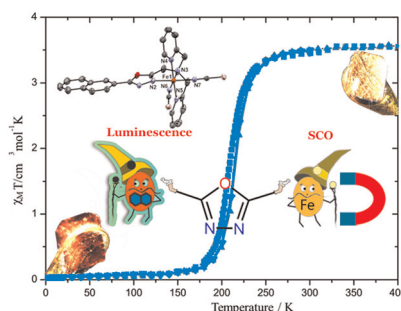
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A crosslinked network polypyrrole coated cobalt doped Fe₂O₃@carbon cloth flexible anode material for quasi-solid asymmetric supercapacitors

Zhiwei Li, Minglong Li, Xiaodong Wang, Ning Fu* and Zhenglong Yang*

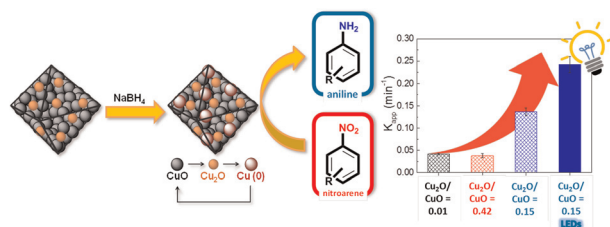
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Synergetic spin singlet–quintet switching and luminescence in mononuclear Fe(II) 1,3,4-oxadiazole tetradentate chelates with NCBH₃ co-ligand

Sriram Sundaresan, Jens-Georg Becker, Julian Eppelsheimer, Alexander E. Sedykh, Luca M. Carrella, Klaus Müller-Buschbaum and Eva Rentschler*

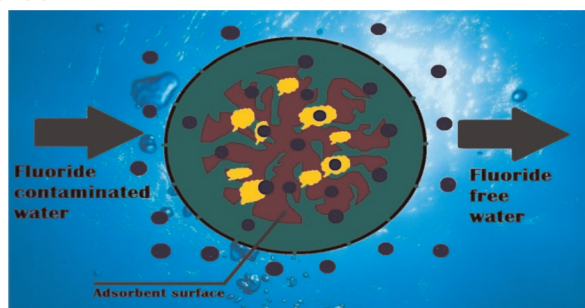
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Blue-LED activated photocatalytic hydrogenation of nitroarenes with Cu₂O/CuO heterojunctions

Ignacio Chamorro-Mena, Noemi Linares* and Javier García-Martínez*

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Functional hBN decorated Ni(OH)₂ nanosheets synthesized for remarkable adsorption performance for the elimination of fluoride ions

Diksha Choudhary, Ankit Singh, Abhishek Giri, Harish Chandra Prasad, R. K. Sharma, Alka Mishra, Sandeep Singhai and Archana Singh*

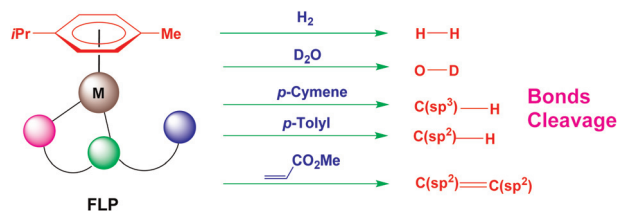


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Molecular hydrogen and water activation by transition metal frustrated Lewis pairs containing ruthenium or osmium components: catalytic hydrogenation assays

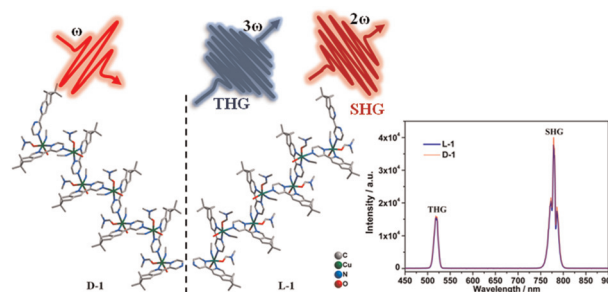
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A pair of ionic 1D Cu(II) chain enantiomers simultaneously displaying large second- and third-harmonic generation responses

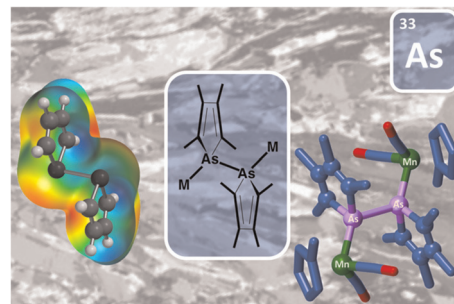
Xiaodi Du,* Congli Gao, Zhiqiang Zhang, Bing Su and Xi-Li Li*



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Free and coordinated biarsolys

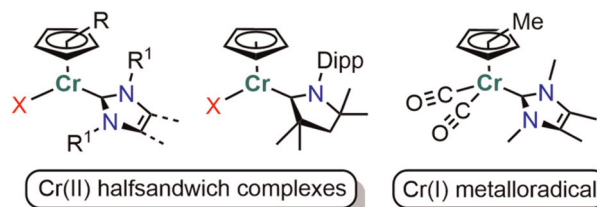
Ryan M. Kirk and Anthony F. Hill*



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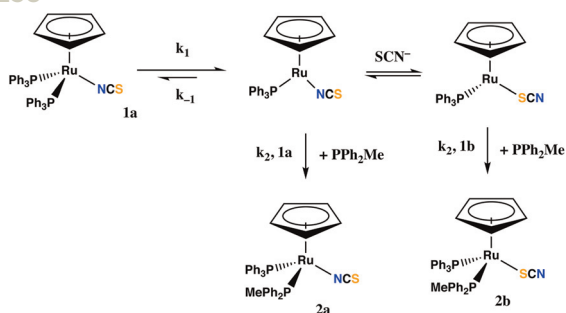
N-Heterocyclic carbene and cyclic (alkyl)(amino) carbene ligated half-sandwich complexes of chromium(II) and chromium(I)

Günther Horrer, Martin S. Luff and Udo Radius*



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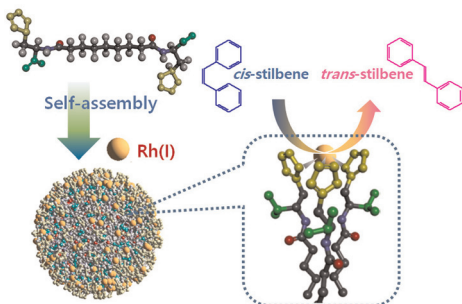
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Phosphine substitution and linkage isomerization in cyclopentadienylruthenium bis(triphenylphosphine)thiocyanide and selenocyanide, $\text{CpRu}(\text{PPh}_3)_2\text{NCS}$ and $\text{CpRu}(\text{PPh}_3)_2\text{SeCN}$

Duy-Khoi Dang, Damla Cehreli, Benjamin S. Rich, Terry E. Haas, Frank R. Fronczek and Rein U. Kirss*

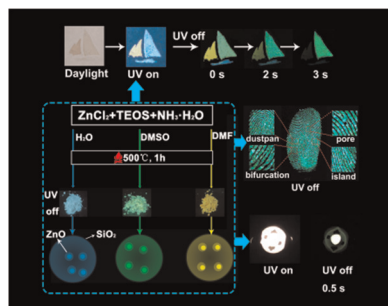
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Rh-coordinated histidyl bolaamphiphile assembly: a catalyst for the isomerization of *cis*-stilbene and *cis*-alkene

Junsang Lee, Minji Kim, Hyesung Lee and Sang-Yup Lee*

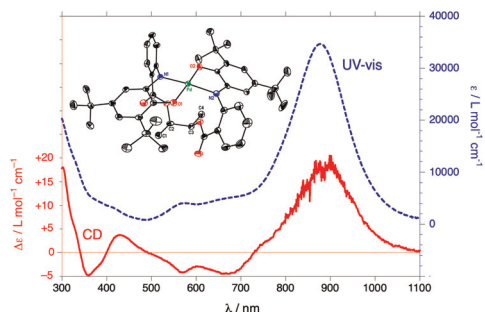
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Highly efficient and robust multi-color afterglow of ZnO nanoparticles

Chun Sun,* Jiachen Han, Yiwei Zhao, Xiaohui Liu,* Chao Fan and Kai Lian

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Optically active bis(aminophenols) and their metal complexes

Halen Carbonel, Timothy D. Mikulski, Kahargyan Nugraha, James Johnston, Yichun Wang and Seth N. Brown*

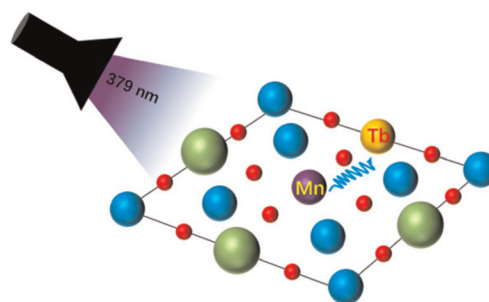


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Luminescence and energy transfer performances of Tb³⁺/Mn⁴⁺ co-doped Sr₂LuTaO₆ double-perovskite phosphors for a highly sensitive optical thermometer

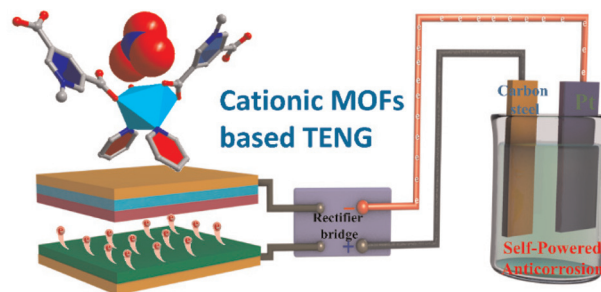
Yuhong Zhang,* Bo Sun, Jian Liu, Ziyi Zhang and Hang Liu*



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Cationic metal–organic framework with charge separation effect as a high output triboelectric nanogenerator material for self-powered anticorrosion

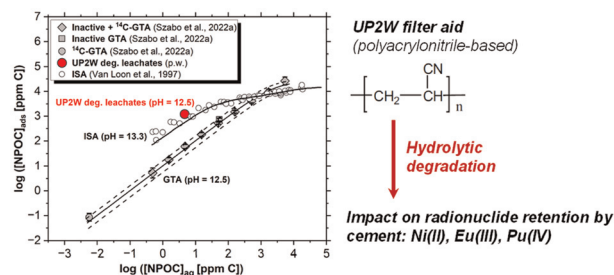
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Impact of the degradation leachate of the polyacrylonitrile-based material UP2W on the retention of Ni(II), Eu(III) and Pu(IV) by cement

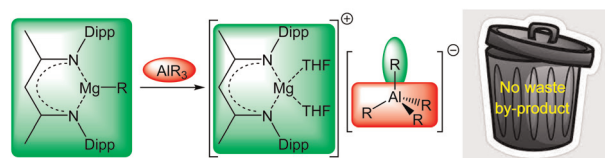
P. G. Szabo, A. G. Tasi, X. Gaona,* A. C. Maier, S. Hedström, M. Altmaier and H. Geckeis



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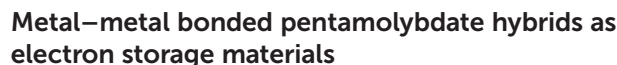
Atom-economic access to cationic magnesium complexes

Etienne V. Brouillet, Scott A. Brown, Alan R. Kennedy, Annabel Rae, Heather P. Walton and Stuart D. Robertson*

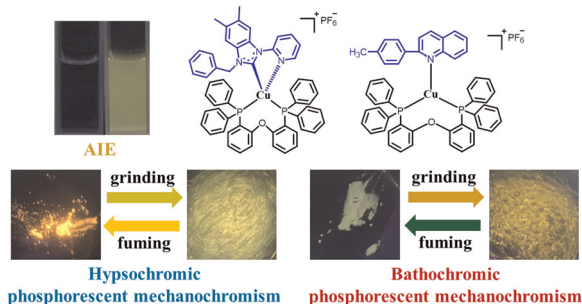




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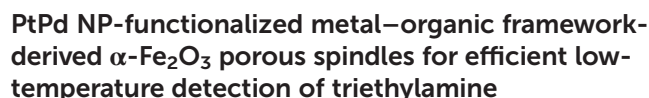
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**Hypso- or bathochromic phosphorescent
mechanochromic mononuclear Cu(I) complexes
with a bis(2-diphenylphosphinophenyl)ether
auxiliary ligand**

Hai-feng He,* Jia-kun Zhang, Xiao-yun Wu, Feng Zhao,*
Yu-zhen Huang, Ming-cong Wang, Chao-xuan Feng,
De-rui Mao, Xue-long Huang* and Yi-fan Hu

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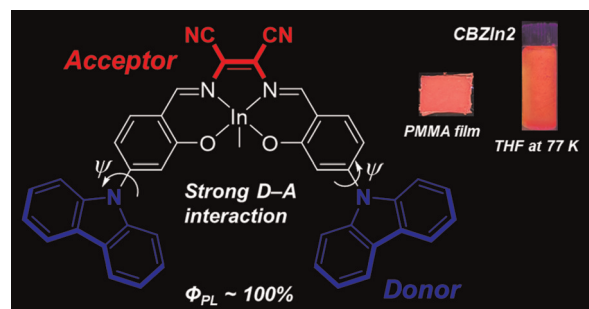
Xianwen Yan, Xueli Yang,* Zhen Sun, Caixuan Sun,
Zheng Hu, Yalin Zhang, Guofeng Pan, Lanlan Guo,
Yuhang Qi* and Yehong Cheng*

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Highly emissive 4-carbazole-appended salen–indium complex: the effect of strong donor–acceptor interaction

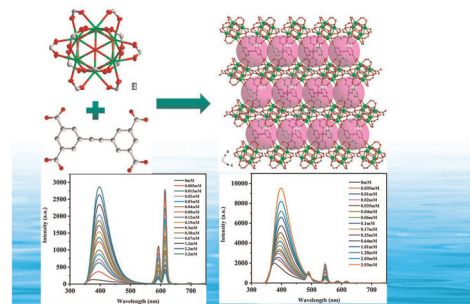
Yoseph Kim, Jaehoon Kim, Ji Hye Lee, Hyeonkwon Moon, Ga Hee Noh, Hyonseok Hwang, Junseong Lee, Jun Hui Park,* Youngjo Kim* and Myung Hwan Park*



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Highly stable lanthanide(III) metal–organic frameworks as ratiometric fluorescence sensors for vitamin B₆

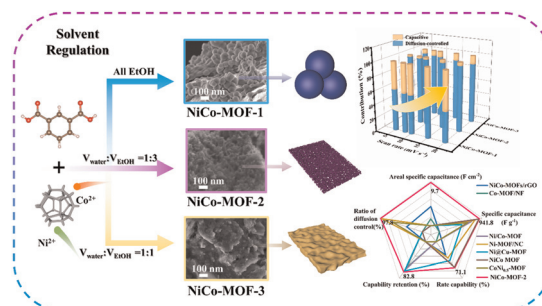
Xiao-Qing Wang,* Jiandong Yang, Man Zhang, Dan Wu, Tuoping Hu and Jie Yang*



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Mixed solvent-assisted synthesis of high mass loading amorphous NiCo-MOF as a promising electrode material for supercapacitors

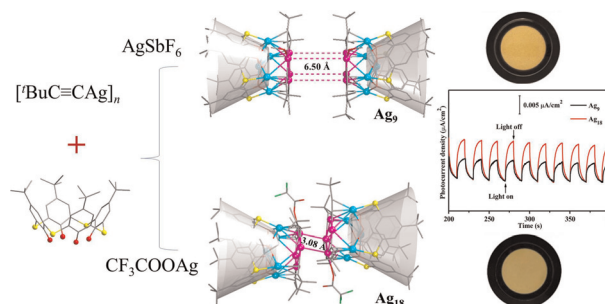
Faxue Lu, Junnan Yao, Yajun Ji,* Dong Shi, Pengcheng Zhang and Shixiong Zhang



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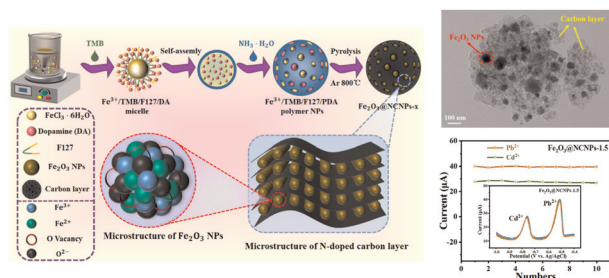
Thiacalix[4]arene-protected alkynyl Ag_n (n = 9, 18) nanoclusters: syntheses, structural characterizations, photocurrent responses and fluorescence properties

Wen-Xuan Xie, Chun-Hui Xue, Meng Liu, Kun Zhou,* Hui-Hao Gu, Jiu-Yu Ji, Bao-Kuan Chen,* Na Liu and Yan-Feng Bi*



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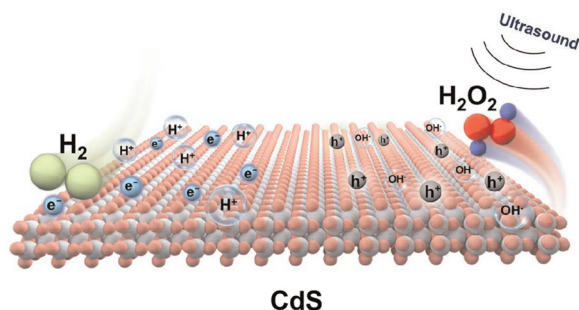
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Constructing Fe₂O₃ nanoparticles in nitrogen-doped carbon materials to enhance the electrochemical sensing performance of Pb²⁺ and Cd²⁺

Shiya Wu, Renliang Lyu, Wei Xiong,* Xiuqing Xing and Hao Li*

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Facile synthesis of hierarchical CdS nanoflowers for efficient piezocatalytic hydrogen evolution

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CORRECTION

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Correction: *In vitro* and *in vivo* antiproliferative activity of organo-nickel SCS-pincer complexes on estrogen responsive MCF7 and MC4L2 breast cancer cells. Effects of amine fragment substitutions on BSA binding and cytotoxicity

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