

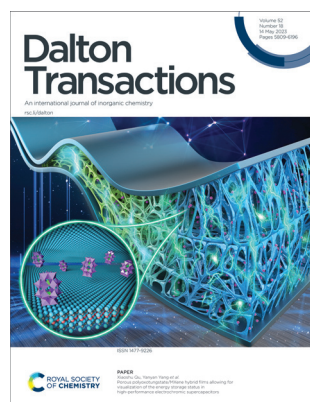
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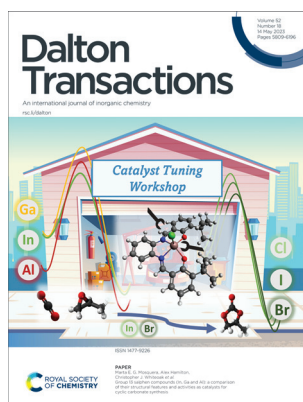
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See Xiaoshu Qu, Yanyan Yang *et al.*, pp. 5870–5881.

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Inside cover
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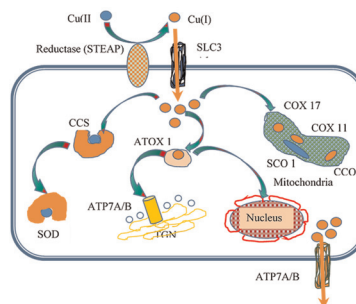
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PERSPECTIVE

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Addressing the gaps in homeostatic mechanisms of copper and copper dithiocarbamate complexes in cancer therapy: a shift from classical platinum-drug mechanisms

Lydia W. Njenga, Simon N. Mbugua,* Ruth A. Odhiambo and Martin O. Onani

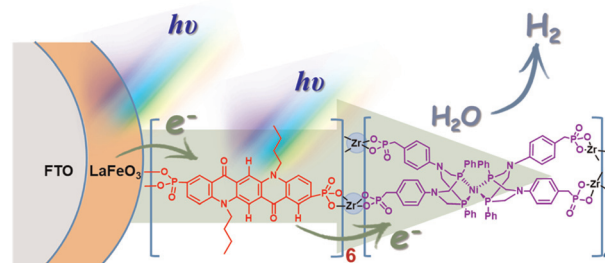


COMMUNICATIONS

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Optimized H₂-evolving dye-sensitized LaFeO₃ photocathodes prepared via the layer-by-layer assembly of dyes and catalysts

Ximeng Xu, Yingzheng Li, Chang Liu, Peili Zhang, Ke Fan, Xiujuan Wu, Yu Shan and Fusheng Li*



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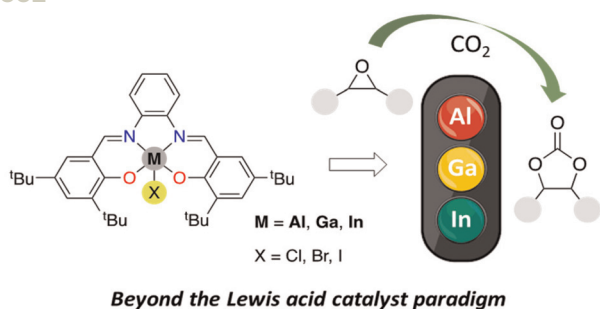
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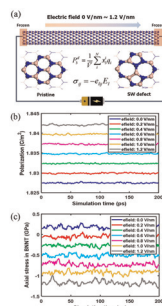
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Group 13 salen compounds (In, Ga and Al): a comparison of their structural features and activities as catalysts for cyclic carbonate synthesis

Diego Jaraba Cabrera, Ryan D. Lewis, Carlos Díez-Poza, Lucía Álvarez-Miguel, Marta E. G. Mosquera,* Alex Hamilton* and Christopher J. Whiteoak*

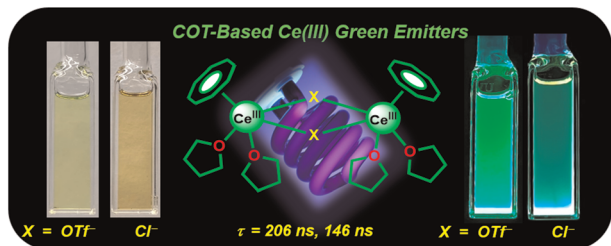
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Piezoelectric and dielectric constants of topologically defected boron nitride nanotubes

Seunghwa Yang

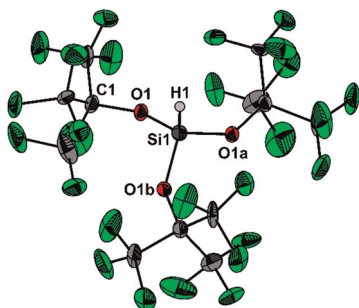
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Evaluating the photophysical and photochemical characteristics of green-emitting cerium(III) mono-cyclooctatetraenide complexes

Pragati Pandey, Qiaomu Yang, Michael R. Gau and Eric J. Schelter*

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An investigation into the Brønsted acidity of the perfluorinated alkoxy silanes $\{(F_3C)_3CO\}_3SiH$ and $\{(F_6C_5)_3CO\}_2Si(Cl)H$

Felix Feige, Lorraine A. Masaspina, Florian Kleemiss, Julius F. Kögel, Sergey Ketkov,* Emanuel Hupf,* Simon Grabowsky* and Jens Beckmann*

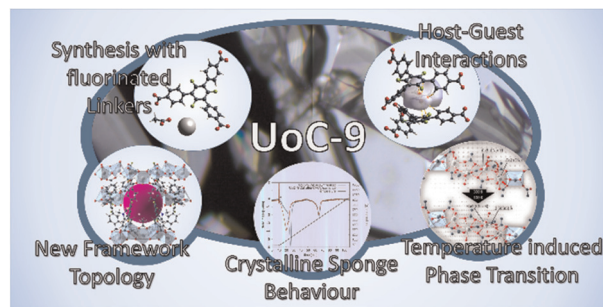


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Fluorinated linkers enable the synthesis of flexible MOFs with 1D alkaline earth SBUs and a temperature-induced phase transition

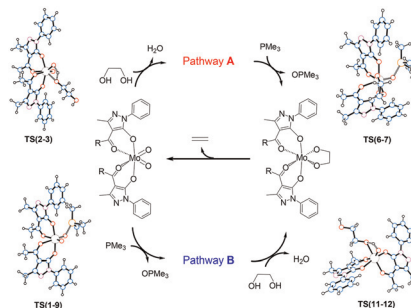
Sean S. Sebastian, Finn P. Dicke and Uwe Ruschewitz*



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Theoretical studies on the mechanism of molybdenum-catalysed deoxydehydration of diols

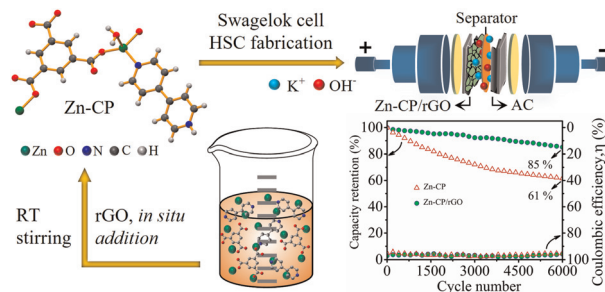
Federico Verdicchio and Agustín Galindo*



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Design and synthesis of mixed-ligand architected Zn-based coordination polymers for energy storage

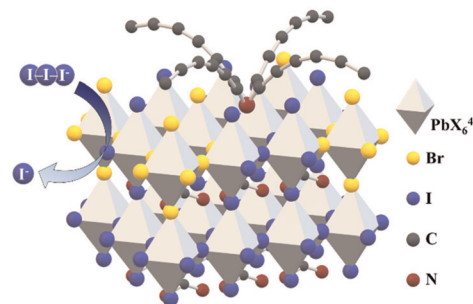
Tapan Kumar Ghosh and G. Ranga Rao*



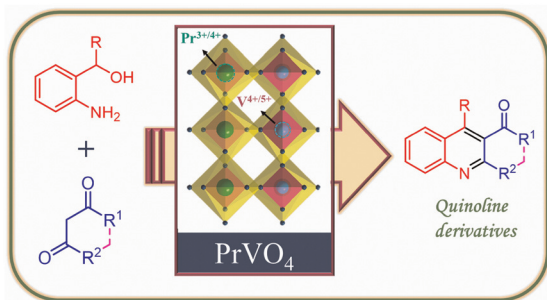
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Surfactant effects on electrochemically durable lead halide perovskite electro-catalysts

Ren-Jun Zhong, Kai-Wei Tsao, Chun-Hao Cheng, Cheng-Chan Liu and Chun-Ting Li*



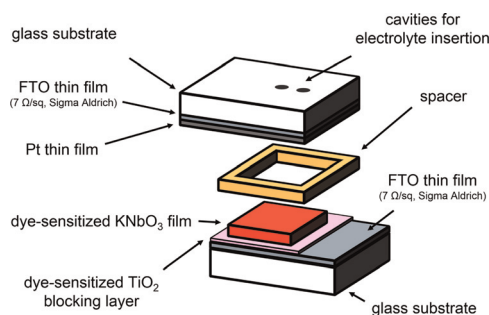
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Zircon PrVO_4 : an efficient heterogeneous catalyst for tandem oxidative synthesis of 2,3-disubstituted quinoline derivatives

Neetu Yadav, Kovuru Gopalaiah,* Jyoti Pandey and Rajamani Nagarajan*

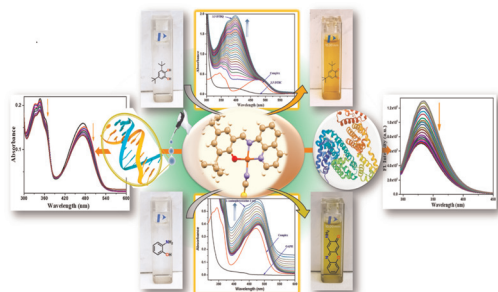
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KNbO_3 photoelectrode for DSSC: a structural, optical and electrical approach

Silvia Cucatti,* Luciano Timm Gularte, Cristian Dias Fernandes, Ramon Dadalto Carvalho, Mateus Meneghetti Ferrer, Pedro Lovato Gomes Jardim, Cristiane Wienke Raubach, Sérgio da Silva Cava and Mario Lucio Moreira*

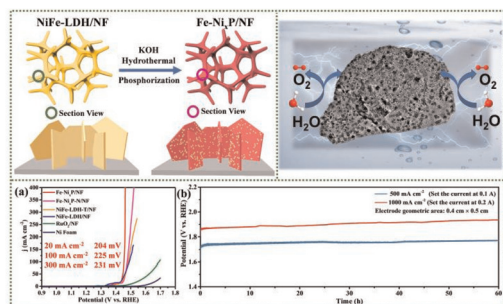
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Facile synthesis of novel NNO-tethered copper(II) complexes: characterization details, theoretical studies, promising enzyme-like activities, and biomolecular interactions

Subrata Mandal, Rahul Naskar, Apurba Sau Mondal, Biswajit Bera and Tapan K. Mondal*

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A crystalline–amorphous interface engineering in Fe-doped Ni_xP electrocatalyst for highly efficient oxygen evolution reaction

Shuai Cao, Xiaoming Fan,* Li Wei, Ting Cai, Yuping Lin and Zeheng Yang*

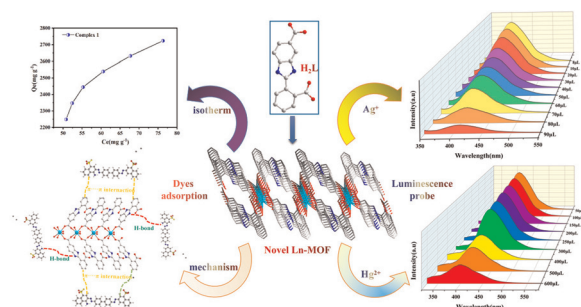


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Effective detection of Ag^+ , Hg^{2+} and dye adsorption properties studies of Ln-MOFs based on a benzimidazole carboxylic acid ligand

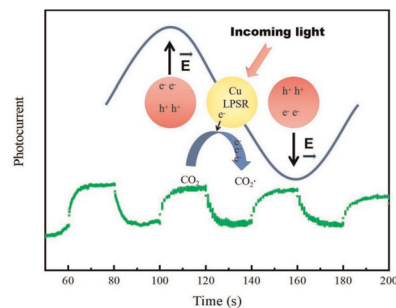
Qing-Wei Cao, Tian-Cai Yue, Qing-Wei Dong, Qi-Chao Ma, Ze-Bei Xie, Duo-Zhi Wang* and Lu-Lu Wang*



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Aerosol-assisted synthesis of mesoporous Cu/ZnO-ZrO₂ catalyst with highly selective photothermal CO₂ reduction to methanol

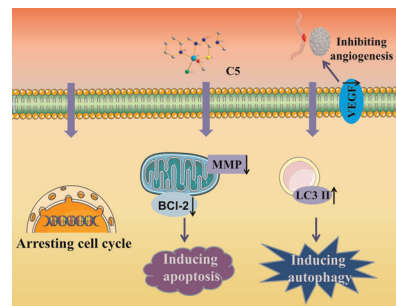
Jian Wang, Qingrun Meng* and Qijian Zhang*



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Development of a zinc(II) 2-pyridinecarboxaldehyde thiosemicarbazone complex with remarkable antitumor and antiangiogenic activities

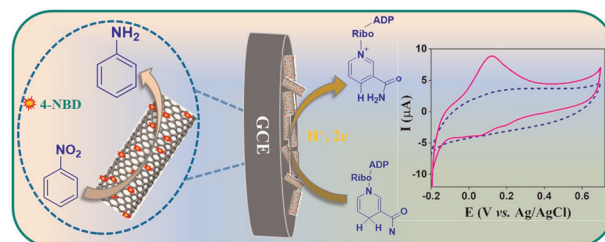
Ming Jiang, Jinhui Pang, Xiaoying Jia, Yong Chu, Wenjuan Li, Hong Liang and Feng Yang*



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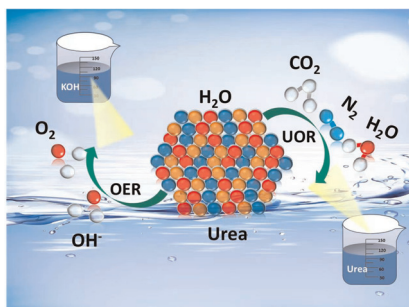
Electrochemical sensing of NADH using 4-nitrobenzenediazonium tetrafluoroborate salt functionalized multiwalled carbon nanotubes

Tamilselvi Gurusamy,* Rajendran Rajaram, Ganapathi Rao Kandregula and Kothandaraman Ramanujam*



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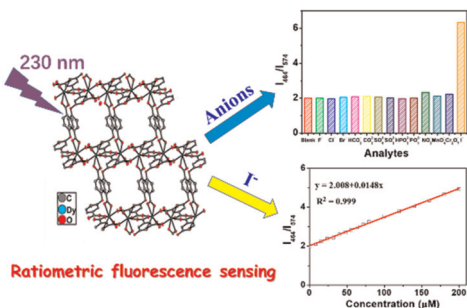
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In situ construction of WNiM–WNI LDH (M = Se, S, or P) with heterostructure as highly efficient electrocatalyst for overall water splitting and urea oxidation reaction

Chenyi Zhang, Xiaoqiang Du,* Xiaoshuang Zhang, Yanhong Wang and Tuoping Hu

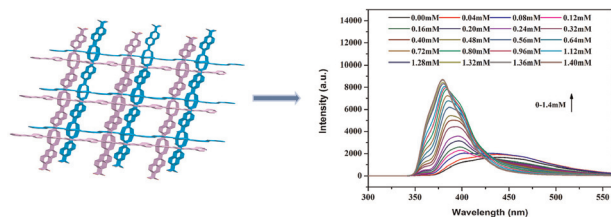
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Ratiometric detection of I⁻ using a dysprosium-based metal–organic framework with a single emission center

Qing-Zhong Guo, Feng-Ying Yi, Meng-Yao Zhang, Jun-Fang Guo* and Fa-Liang Luo*

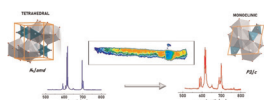
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A turn-on fluorescent Zn(II) metal–organic framework sensor for quantitative anthrax biomarker detection

Chao Hong, Ling Li,* Ji-Yong Zou,* Li Zhang and Sheng-Yong You

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Understanding the power of luminescence ratiometric thermal history indicators driven by phase transitions: the case of Eu³⁺ doped LaVO₄

K. Elzbieciak-Piecka,* W. M. Piotrowski, M. D. Dramicanin and L. Marciniak*

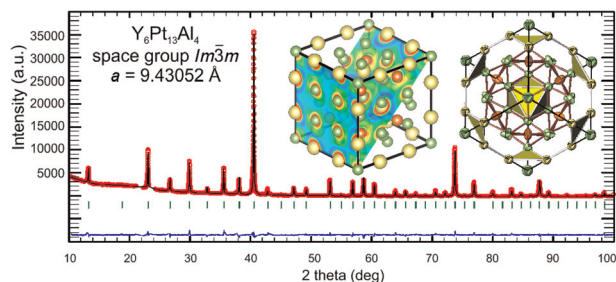


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Electronic and structural properties of $Y_6Pt_{13}X_4$, site occupancy variants of the $Ba_6Na_{16}N$ subnitride ($X = Al, Ga$)

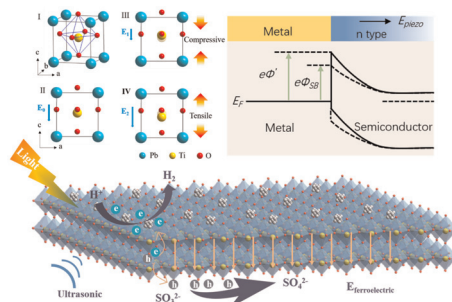
Leonid Salamakha,* Oksana Sologub, Berthold Stöger, Herwig Michor, Ernst Bauer, Peter Rogl and Stepan Mudry



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Modulating the Schottky barrier of Pt/PbTiO₃ for efficient piezo-photocatalytic hydrogen evolution

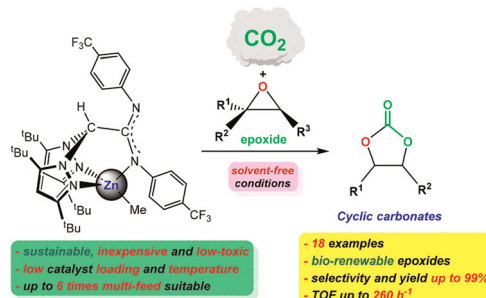
Xueyan Huang,* Zhi-Bin Fang,* Wenhui Feng, Qinfen Tian, Zhiqiang Li and Ping Liu*



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Very efficient organo-zinc scorpionates for CO₂ fixation into a variety of cyclic carbonates: synthesis, coordination ability and catalytic studies

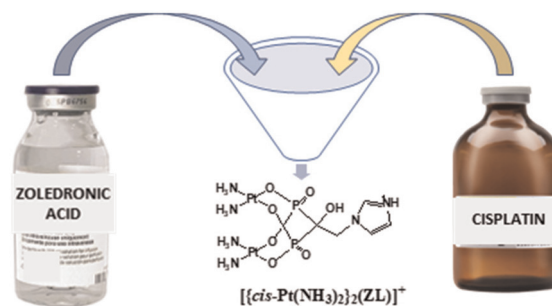
Marta Navarro, Andrés Garcés,* Luis F. Sánchez-Barba,* David González-Lizana and Agustín Lara-Sánchez



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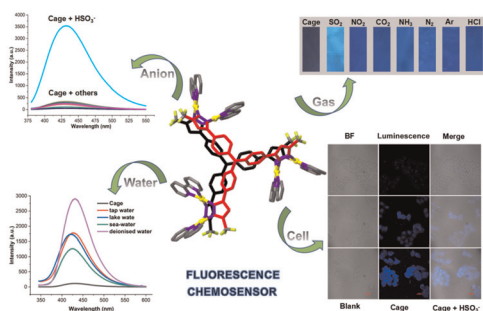
Cisplatin and zoledronic acid: two drugs combined in a Pt(II) complex with potential antitumor activity towards bone tumors and metastases

Alessandra Barbanente, Nicoletta Ditaranto, Antonio Laghezza, Paolo Tortorella, Francesco P. Intini, Concetta Pacifico, Giovanni Natile and Nicola Margiotta*



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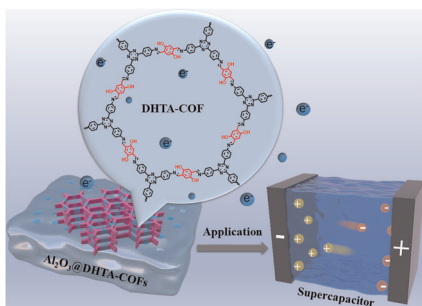
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Self-assembly of tripyrazolate-linked $[M_6L_2]$ cages for the selective sensing of HSO_3^- and gaseous SO_2 by turn-on fluorescence

Peipei Wang, Jin Tong,* Cong Meng, Qing Yuan, Wei Deng, Shu-Yan Yu* and Hong-Wei Ma

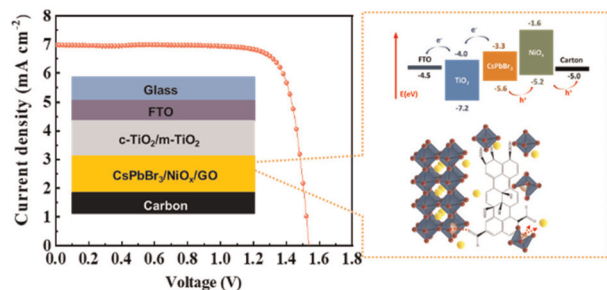
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Triazine covalent organic framework (COF)/ θ - Al_2O_3 composites for supercapacitor application

Lei Liu, Di Cui, Shuran Zhang, Wei Xie,* Chan Yao, Na Xu and Yanhong Xu*

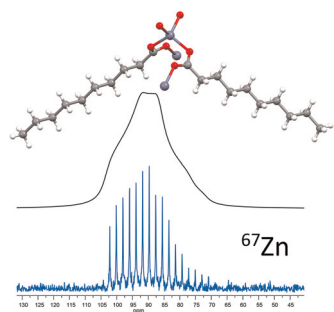
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Charge transfer doping of graphene oxide with nickel oxide nanoparticles for stable and efficient carbon-based, all-inorganic $CsPbBr_3$ perovskite solar cells

Jie Dou, Jin Tan,* Benlin He, Jialong Duan and Qunwei Tang

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Multi-technique structural analysis of zinc carboxylates (soaps)

Molly Wagner,* Roberta Pigliapochi, Valeria Di Tullio, Jaclyn Catalano, Nicholas Zumbulyadis, Silvia A. Centeno, Xiaoling Wang, Kuizhi Chen, Ivan Hung, Zhehong Gan, Michael R. Dworzak, Glenn P. A. Yap and Cecil Dybowski*

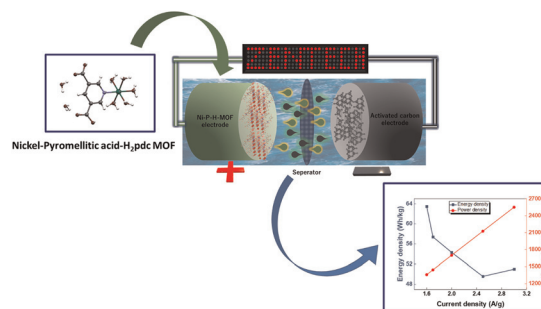


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Nickel centered pyromellitic acid/pyridine-3,5-dicarboxylic acid bi-linker organic webbing for battery-supercapacitor hybrids

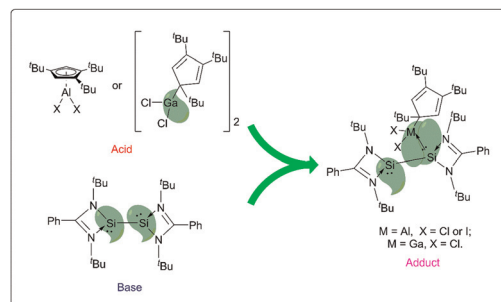
Muhammad Zahir Iqbal,* Muhammad Waqas Khan, Sikandar Aftab, Saikh Mohammad Wabaidur and Salma Siddique



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One silicon atom of bis(silylene) functions as a selective Lewis base under adduct formation with a Lewis acid

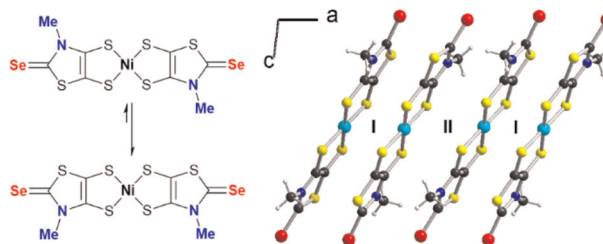
Yi Ding,* Mohd Nazish, Paul Niklas Ruth, Regine Herbst-Irmer, Dietmar Stalke* and Herbert W. Roesky*



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A highly conducting mixed-valence nickel bis(dithiolene) salt $[\text{Et}_4\text{N}][\text{Ni}(\text{Me-thiazSe-dt})_2]_2$ with selone substitution

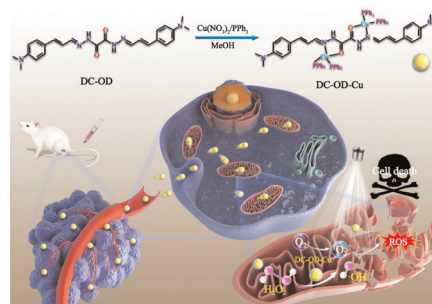
Hadi Hachem, Olivier Jeannin, Hengbo Cui, Reizo Kato, Marc Fourmigué* and Dominique Lorcy*



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A Cu(I)-based Fenton-like agent inducing mitochondrial damage for photo-assisted enhanced chemodynamic therapy

Zhaoguo Hong, Jingjing Zhong, Dangdang Ding, Sihui Gong, Liangliang Zhang, Shulin Zhao, Xing-Can Shen, Hong Liang and Fu-Ping Huang*



CORRECTION

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Correction: Characterisation of intergrowth in metal oxide materials using structure-mining: the case of γ -MnO₂

Nicolas P. L. Magnard, Andy S. Anker, Olivia Aalling-Frederiksen, Andrea Kirsch and Kirsten M. Ø. Jensen*

