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Gloria Tabacchi *et al.*,
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2023, **52**, 10677.

EDITORIAL

10637

Aggregation induced luminescence of metal complexes: advances and applications

Andrea Fermi,* Paola Ceroni and
Inamur Rahaman Laskar

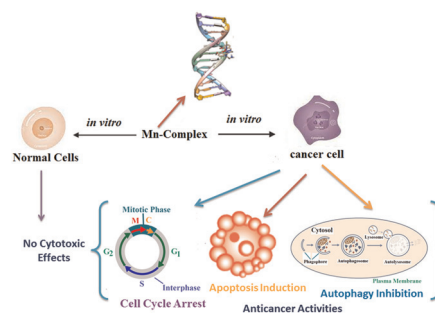


PERSPECTIVE

10639

Interactions of Mn complexes with DNA: the relevance of therapeutic applications towards cancer treatment

Oishi Mallick Ganguly* and Shuvojit Moulik*



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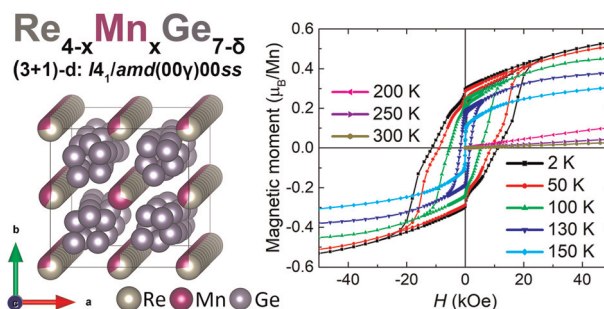


COMMUNICATIONS

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Itinerant ferromagnet $\text{Re}_{4-x}\text{Mn}_x\text{Ge}_{7-\delta}$ ($x = 0.9-1.5$, $\delta = 0.42-0.44$) with incommensurate chimney-ladder structure stabilised at ambient pressure

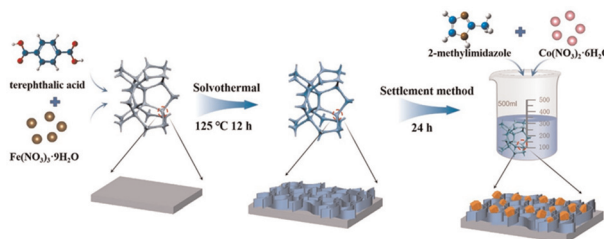
Roman A. Khalaniya,* Valeriy Yu. Verchenko, Alexey V. Bogach, Maxim Likhanov and Andrei V. Shevelkov



10662

Constructing MIL-53(Fe)@ZIF-67(Co) binary metal-organic framework hierarchical heterostructure electrodes for efficient oxygen evolution

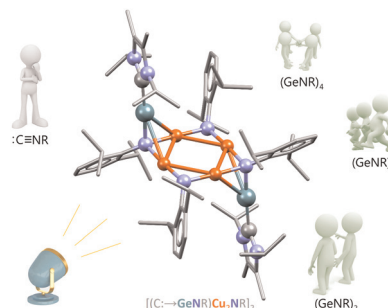
Dan Wen, Yan Ma, Guomei Mu, Qiuping Huang, Xuefeng Luo, Dunmin Lin, Chenggang Xu, Fengyu Xie,* Guangzhao Wang* and Wenhan Guo*



10672

Interaction of germanium analogue of organic isonitrile with Cu(I) imide in side-on mode

Shuai-Cong Huo, Yao Li, Peng-Fei Ji, De-Xiang Zhang, Ying Yang* and Herbert W. Roesky*

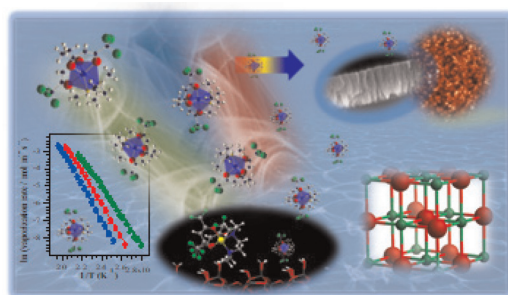


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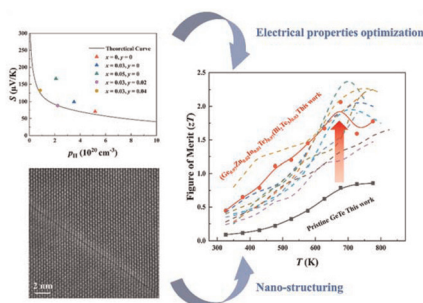
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Interplay between coordination sphere engineering and properties of nickel diketonate-diamine complexes as vapor phase precursors for the growth of NiO thin films

M. Benedet, D. Barreca,* E. Fois, R. Seraglia, G. Tabacchi,* M. Roverso, G. Pagot, C. Invernizzi, A. Gasparotto, A. A. Heidecker, A. Pöthig, E. Callone, S. Dirè, S. Bogialli, V. Di Noto and C. Maccato



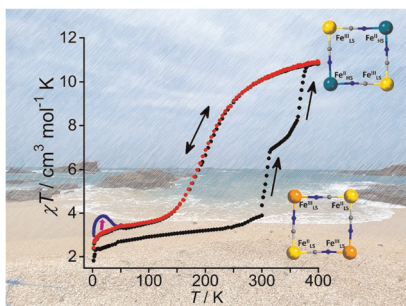
10689



Optimized electronic properties and nano-structural features for securing high thermoelectric performance in doped GeTe

Zan Yang, Yu-Chih Tseng, Suneesh Meledath Valiyaveetil, Hui Yuan, Evan Smith, Kuei-Hsien Chen, Yuyang Huang, Tianze Zou, Jan Kycia and Yuriy Mozharivskiy*

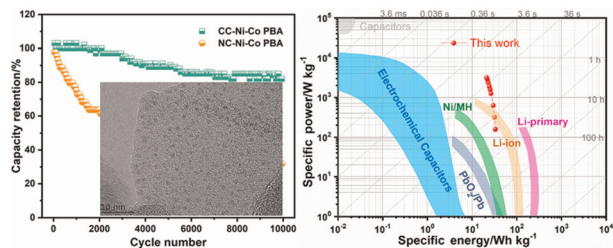
10700



Near room temperature stepwise spin state switching and photomagnetic effect in a mixed-valence molecular square

Sujit Kamilya, Sakshi Mehta, Rodrigue Lescouëzec, Yanling Li, Jiri Pechousek, Mohini Semwal and Abhishake Mondal*

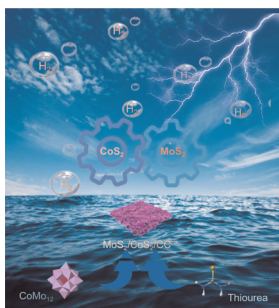
10708



Nickel hexacyanocobaltate quantum dots embedded in N-doped carbon for aqueous alkaline batteries with ultrahigh durability

Yanhong Li,* Zhiting Song, Qifeng Zhang, Kai Shu, Hongming Hu, Yi Lu, Xiao Tang, Xianju Zhou, Xijun Wei and Yunhuai Zhang*

10718



In situ coupling of a Co–Mo bimetallic sulfide derived from $[\text{CoMo}_{12}\text{O}_{40}]^{6-}$ clusters showing highly efficient electrocatalytic hydrogen evolution

Qingfang Zhen, Haijun Pang,* Sumin Hu, Zhongxin Jin, Qiong Wu, Huiyuan Ma,* Xinming Wang, Guixin Yang and Zhipeng Yu*

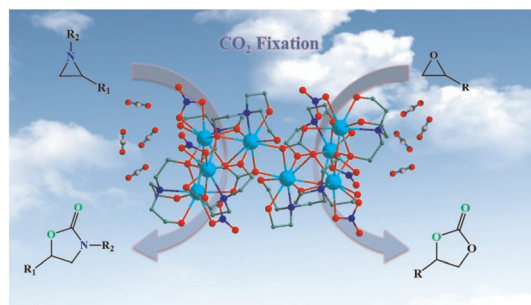


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Two novel Ln_8 clusters bridged by CO_3^{2-} effectively convert CO_2 into oxazolidinones and cyclic carbonates

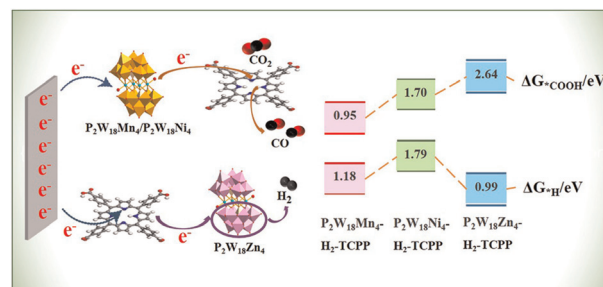
Na Qiao, Xiao-Yan Xin, Wen-Min Wang,* Zhi-Lei Wu* and Jian-Zhong Cui



10737

Exploring the role of sandwich-type polyoxometalates in $\{\text{K}_{10}(\text{PW}_9\text{O}_{34})_2\text{M}_4(\text{H}_2\text{O})_2\}$ @PCN-222 ($\text{M} = \text{Mn}, \text{Ni}, \text{Zn}$) for electroreduction of CO_2 to CO

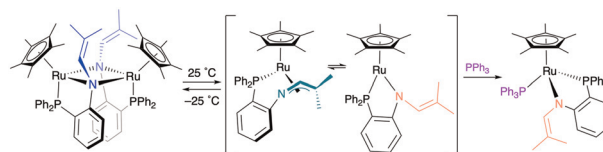
Meng-Ting Peng, Chuang Chen, Yan Zhang, Jia-Yu Xu, Yun-Lei Teng* and Bao-Xia Dong*



10744

Operationally unsaturated ruthenium complex stabilized by a phosphine 1-azaallyl ligand

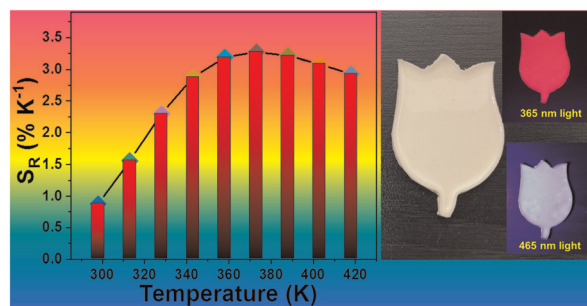
Meagan B. Kindervater, Viktor N. Staroverov, Kyle M. K. Jackman, Amanda A. Fogh, Leslie S. G. Kelley, Lisabeth Lim, Sofia A. Sirohey, Paul D. Boyle and Johanna M. Blacquiere*



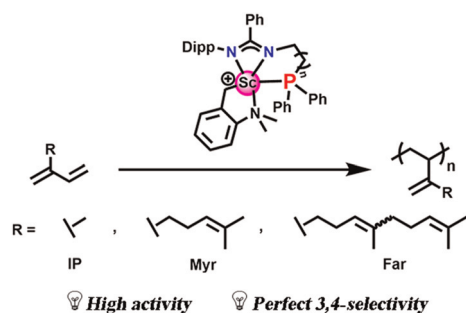
10751

Deep-red-emitting phosphors of Mn^{4+} -activated tantalite for high-sensitivity lifetime thermometry and security films

Yongbin Hua and Jae Su Yu*



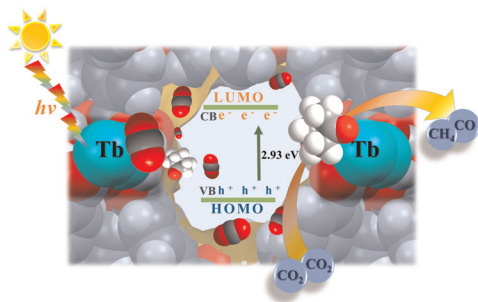
10760



Phosphine-functionalized amidinate ligated rare-earth metal complexes for highly 3,4-selective living polymerization of 1,3-conjugated dienes

Fen You, Jixing Wang, Hui Liu, Xiaohui Kang* and Xiaochao Shi*

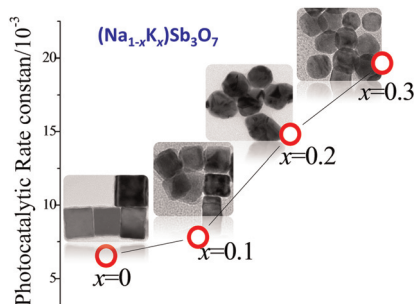
10769



A solvent-responsive terbium-organic framework for photocatalytic CO₂ reduction

Xin Lu, Zhilong Yao, Xiaomin Yuan, Yao Wei, Zhihao Zhu,* Hegen Zheng* and Chuanlei Zhang*

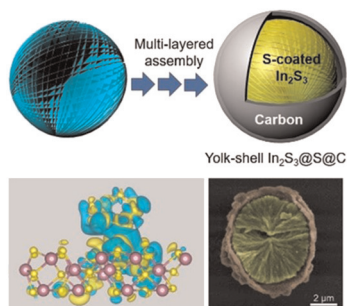
10778



Significant effects of mixed cations on the morphology and photochemical activities of alkali-metal-antimony (Na,K)Sb₃O₇

Donglei Wei, Xifeng Yang, Yushen Liu, Joo Hyun Kim, Sung Heum Park, Hyo Jin Seo and Bo Ram Lee*

10789



Rational engineering yolk-shell In₂S₃@void@carbon hybrid as polysulfide-absorbable sulfur host for high-performance lithium-sulfur batteries

Yingyi Ding, Zihan Shen, Tianli Han, Jing Xu, Huigang Zhang, Chaoquan Hu* and Jinyun Liu*

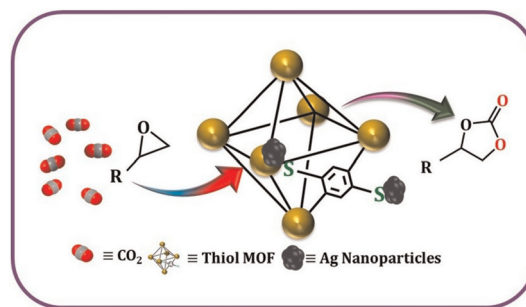


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10795

A thiol-containing zirconium MOF functionalized with silver nanoparticles for synergistic CO₂ cycloaddition reactions

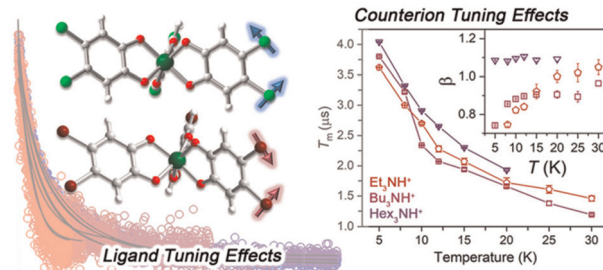
Rajesh Patra and Debajit Sarma*



10805

Impact of ligand chlorination and counterion tuning on high-field spin relaxation in a series of V(IV) complexes

Roxanna Martinez,* Cassidy E. Jackson, Ökten Üngör, Johan van Tol and Joseph M. Zadrozny*

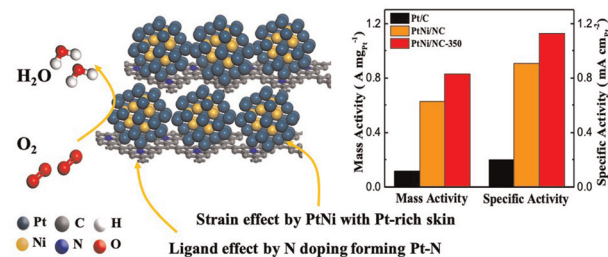


10817

PtNi alloy nanoparticles grown *in situ* on nitrogen doped carbon for the efficient oxygen reduction reaction

Weiqi Ye, Zhenyu Wu, Shengqi Zhang, Yi Sun,* Xiaoyan Zhang,* Wei Zhou,* Weimin Cao, Tao Wang, Danhong Cheng and Haijiao Xie

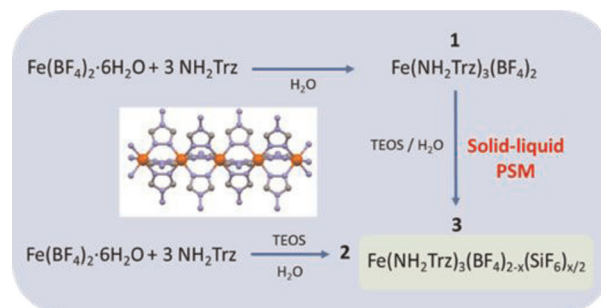
ORR: PtNi/NC catalyst



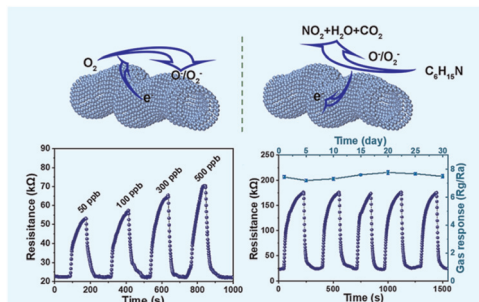
10828

Spin crossover in mixed-anion $\text{Fe}(\text{NH}_2\text{trz})_3(\text{BF}_4)(\text{SiF}_6)_{0.5}$ crystalline rod-shaped particles: the strength of the solid-liquid post synthetic modification

Xinyu Yang, Alejandro Enriquez-Cabrera, Dorian Toha, Yannick Coppel, Lionel Salmon* and Azzedine Bousseksou*



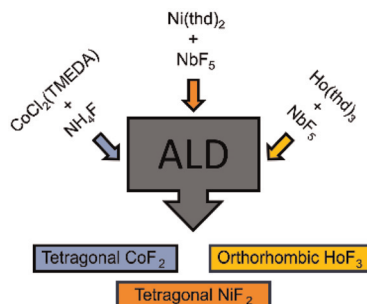
10835



Biotemplate synthesis of a Co_3O_4 microtube sensor for fast triethylamine detection

Tingting Xu, Heru Wang, Jing Zhao,* Fangbo Zhao, Wenbo Cong, Guiling Wang and Junqing Li*

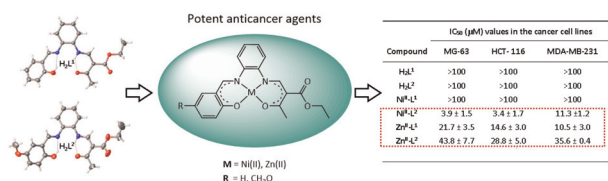
10844



Atomic layer deposition of CoF_2 , NiF_2 and HoF_3 thin films

Elisa Atosuo,* Miia Mäntymäki, Leevi Pesonen, Kenichiro Mizohata, Timo Hatanpää, Markku Leskelä and Mikko Ritala*

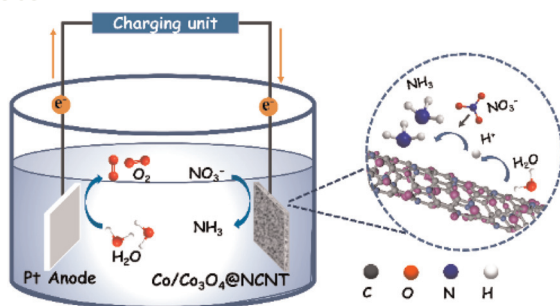
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Anticancer activity of Ni(II) and Zn(II) complexes based on new unsymmetrical salophen-type ligands: synthesis, characterization and single-crystal X-ray diffraction

David Villaman,* Andrés Vega, Lucía Santa María de la Parra, Ignacio E. León, Pedro Levín and Patricia M. Toro*

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Heterostructured $\text{Co}/\text{Co}_3\text{O}_4$ anchored on N-doped carbon nanotubes as a highly efficient electrocatalyst for nitrate reduction to ammonia

Xianxian He, Hongfei Liu, Jiangzhou Qin, Zhaodong Niu, Jincheng Mu and Baojun Liu*

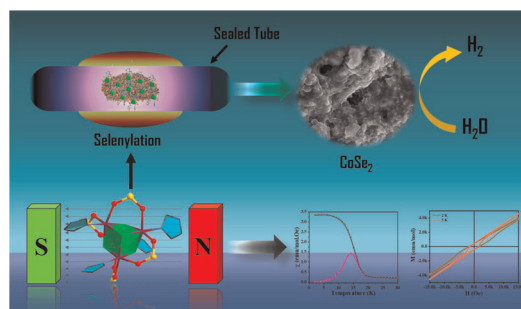


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Structure and magnetic properties of an amine-templated one-dimensional cobalt-fluoro-sulfate containing Co_4F_4 cubane and hydrogen evolution reaction (HER) performance of its derived carbon-wrapped CoSe_2 nanorods

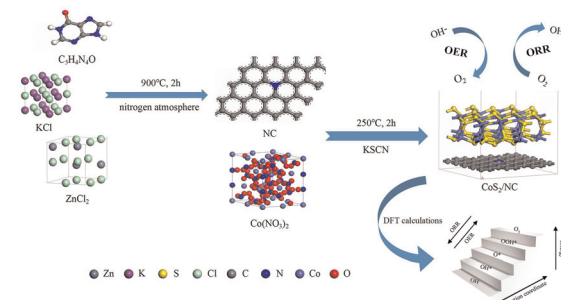
Malaya K. Sahoo and J. N. Behera*



10885

Low-temperature molten salt synthesis and catalytic mechanism of CoS_2/NC as an advanced bifunctional electrocatalyst

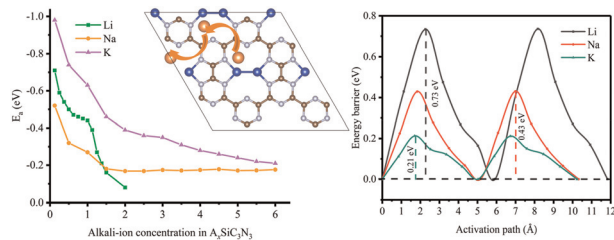
Yuankun Tu, Chuanhua Li,* Yubao Shi, Yu Jiang, Wei Xiao, Shenghua Zhu, Peng Lv and Xuemin Yan*



10895

SiC_3N_3 monolayer as a universal anode for alkali metal-ion batteries

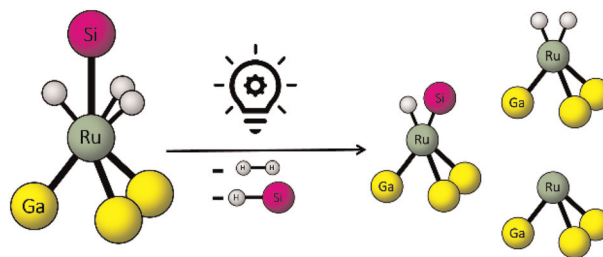
Xiaoying Xia, Jianze Wu, Xu Cai, Bao Liu, Zhaoxin Wang, Yongfan Zhang and Shuping Huang*



10905

Photochemically generated reactive sites at ruthenium/gallium complexes: catalysis vs. cluster growth

Raphael Bühler, Maximilian Muhr, Johannes Stephan, Robert A. Wolf, Max Schütz, Christian Gemel and Roland A. Fischer*

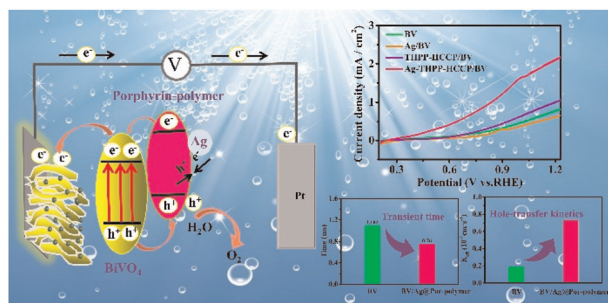


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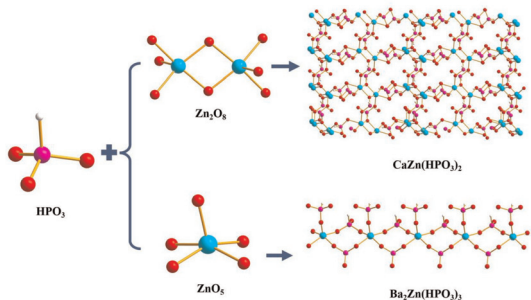
10911



Photogenerated charge separation at BiVO₄ photoanodes enhanced by a Ag-modified porphyrin polymer skeleton

Huiqin Ye, Hui Xiao, Rongfang Zhang, Shengya Zhang, Ze Wang, Wei Luo, Ruixiu Xie, Yanjun Feng and Xiaoquan Lu*

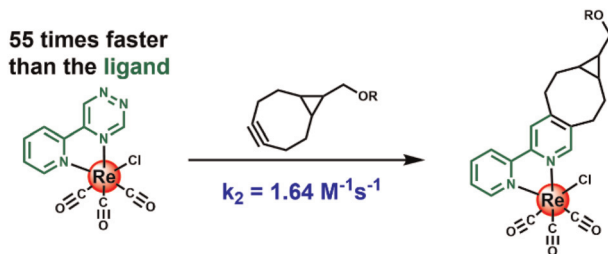
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CaZn(HPO₃)₂ and Ba₂Zn(HPO₃)₃: novel alkaline-earth zincophosphites with diversified anionic frameworks

Yu Zhang, Xia Liu, Qian-Yan Liu, Jian-Hua Wang, Ting Hu,* Yan-Mei Lin and Jian-Han Zhang*

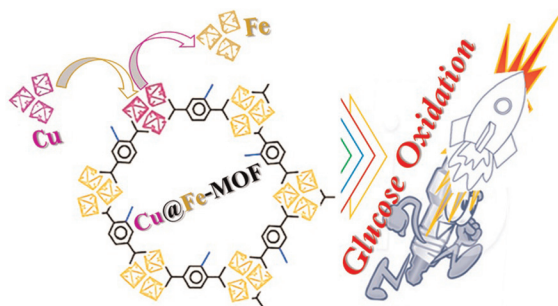
10927



Catching up with tetrazines: coordination of Re(i) to 1,2,4-triazine facilitates an inverse electron demand Diels–Alder reaction with strained alkynes to a greater extent than in corresponding 1,2,4,5-tetrazines

Mark Sims, Sotiris Kyriakou, Aidan Matthews, Michael E. Deary and Valery N. Kozhevnikov*

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Accelerating glucose electrolysis on Cu-doped MIL-88B for an energy efficient anodic reaction in water splitting

Nabeen K. Shrestha,* Supriya A. Patil, Amol S. Salunke, Akbar I. Inamdar and Hyunsik Im*

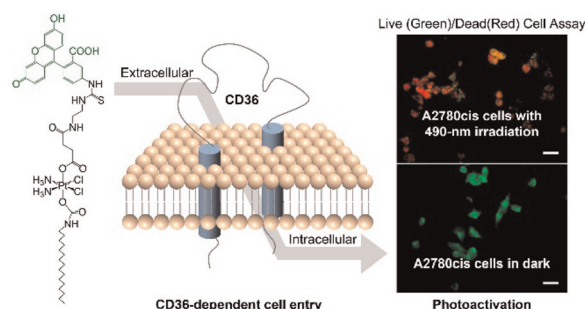


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Visible light-activatable platinum(IV) prodrugs harnessing CD36 for ovarian cancer therapy

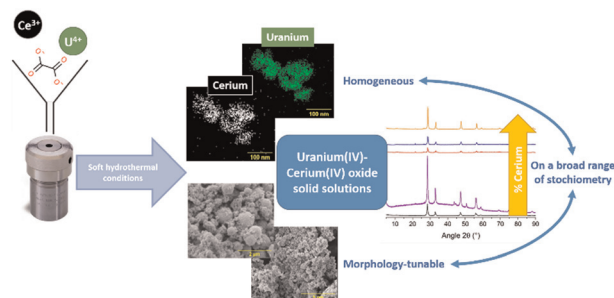
Amarasooriya M. D. S. Jayawardhana, Srijana Bhandari, Ariela W. Kaspi-Kaneti, Man Kshetri, Zihan Qiu, May Cheline, Hao Shen, Barry D. Dunietz and Yao-Rong Zheng*



10951

Hydrothermal conversion of mixed uranium(IV)–cerium(III) oxalates into $U_{1-x}Ce_xO_{2+\delta} \cdot nH_2O$ solid solutions

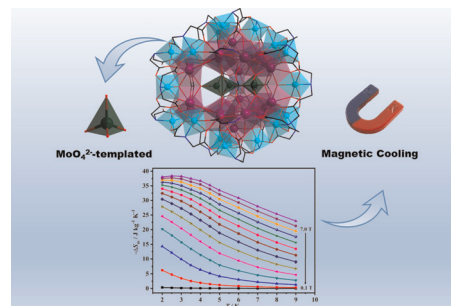
S. Benarib, N. Dacheux, X. F. Le Goff, J. Lautru, L. Di Mascio and N. Clavier*



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 MoO_4^{2-} -templated $Ln_{20}Ni_{21}$ heterometallic clusters with large low-field magnetic entropy

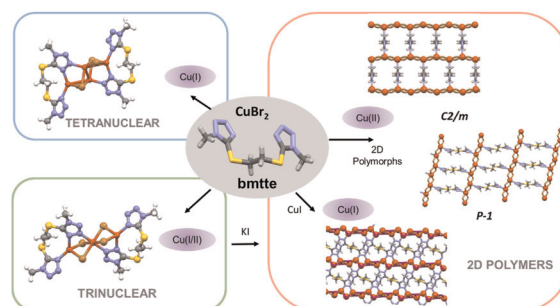
Ya-Ting Yu, Xu Bai, Qin Wang, Ji-Lei Wang, Xin-Ying Xiang, Jiu-Lin Zhou, Si-Man Li and Yan Xu*



10975

From Cu(I) and Cu(I)–Cu(II) mixed-valence clusters to 2D Cu(II) and Cu(I) coordination polymers supported by a flexible bis-tetrazole organosulfur ligand

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CORRECTION

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Correction: Catalytic exploration of NHC–Ag(I)HMDS complexes for the hydroboration and hydrosilylation of carbonyl compounds

Claudia P. Giarrusso, Daniel Van Zeil and Victoria L. Blair*

