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Cover

See Kristof M. Altus,
Andrew S. Weller *et al.*,
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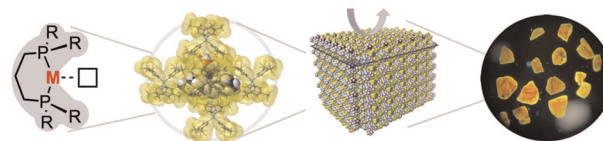
TUTORIAL REVIEW

6649

Solid-state molecular organometallic chemistry (SMOM): a user guide to *in crystallo* single-crystal to single-crystal transformations using solid/gas methods

Kristof M. Altus,* Samantha K. Furfari, Joe C. Goodall, Matthew R. Gyton, Jack H. Heaton, Chloe L. Johnson, Alasdair I. McKay, Mads Sondrup Møller, Sebastian D. Pike and Andrew S. Weller*

Single-Crystal Solid-state Molecular Organometallic Chemistry



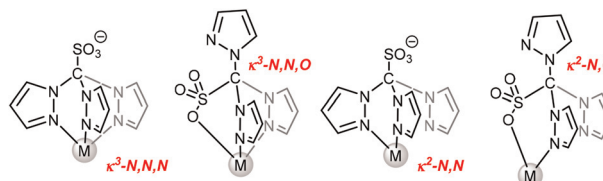
A User Guide

PERSPECTIVE

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Coordination flexibility and function in tris (pyrazolyl)methanesulfonate coordination chemistry

Arantxa Forte-Castro, Juana M. Pérez and Ignacio Fernández*



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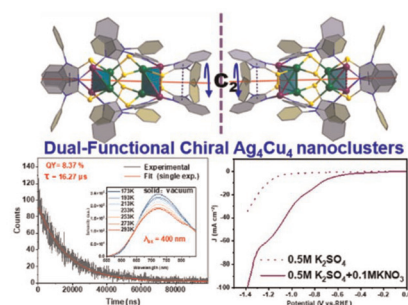
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6682

A chiral heterometallic Ag₄Cu₄ nanocluster: environment-sensitive phosphorescence and efficient electrocatalytic nitrate reduction to ammonia

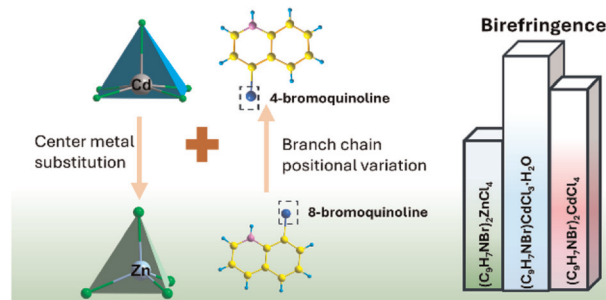
Jiafan Ou, Yan Nong, Zhixun Zhang, Hualing Yang, Xianyong Yu* and Huayan Yang*



6687

Dual-tuning birefringence in hybrid crystals via Cd/Zn metal center and organic ligand isomerism

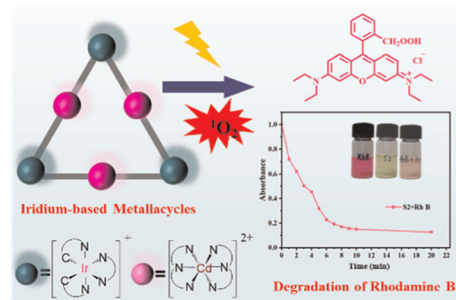
Yaoguo Shen,* Xinyi Wang, Mengqing Wu, Yiman Yang and Lingxin Yan



6693

Iridium-based metallo-organic triangles as efficient photosensitizers for rhodamine B photocatalytic oxidation degradation

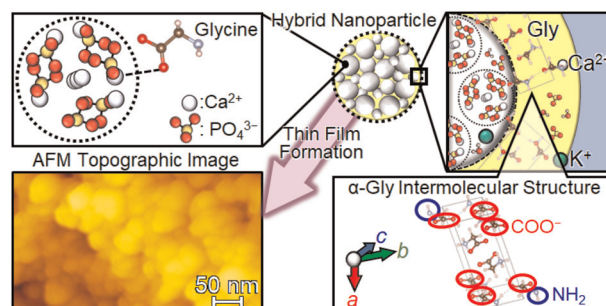
Xiaojie Huang, Yuxin Li, Min Wang, Ning Wang, Jun Wang, Pingshan Wang,* Mingzhao Chen* and Zhilong Jiang*



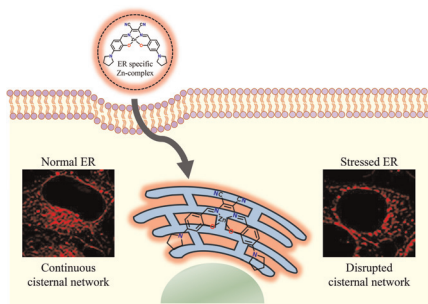
6699

Glycine-mediated surface stabilization of amorphous calcium phosphate nanoparticles for biointeractive thin-film formation

Yuhi Kinoshita, Daichi Noda, Zizhen Liu and Motohiro Tagaya*



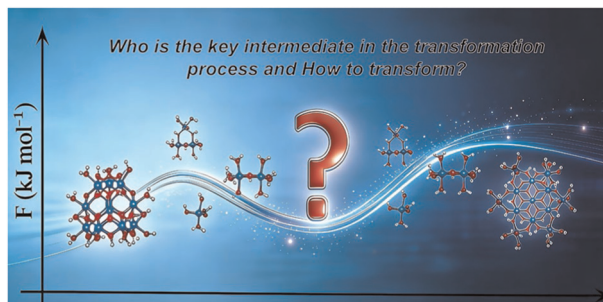
6705



Nanoscale morphometric visualization of the endoplasmic reticulum under stress using a bright zinc complex

Abdul Salam, Goraksha T. Sapkal, Bodhidipra Mukherjee, Sakshi Chouhan, Richa Garg, Shilpa Chandra and Chayan Kanti Nandi*

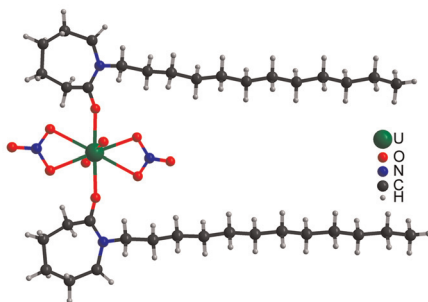
6710



Deciphering the atomic-scale evolution pathway of Keggin-type aluminum nanoclusters in aqueous media

Qi Zhao, Minjuan Zhao, Yufei Sun, Xiuling Jiao, Yuguo Xia* and Dairong Chen*

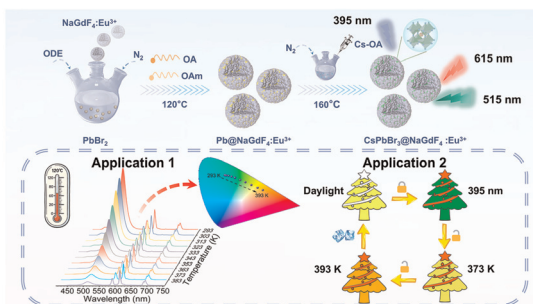
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Azone as a green extractant for selective uranium recovery over thorium: extraction behavior, coordination mechanism, and comparison with TBP

Yuyu Liang, Bijun Liu, Xiang Li, Shufeng Zhao, Qingye Zhou, Chenchen Yuan, Zeng Huang, Jun Tu* and Xingliang Li*

6730



Dual-emissive CsPbBr₃@NaGdF₄:Eu³⁺ nano-composites for ratiometric temperature sensing and anti-counterfeiting applications

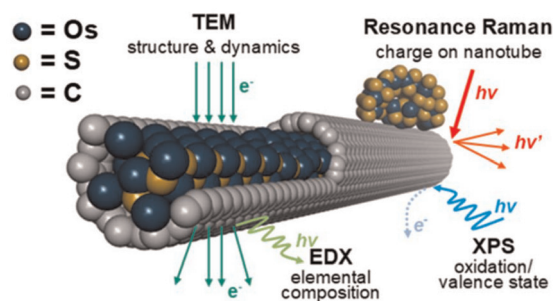
Xue Song, Le Han, Lin Yang and Yan Xu*



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Inorganic hybrid materials integrating carbon nanotubes with osmium compounds: formation mechanisms, structure and reactivity

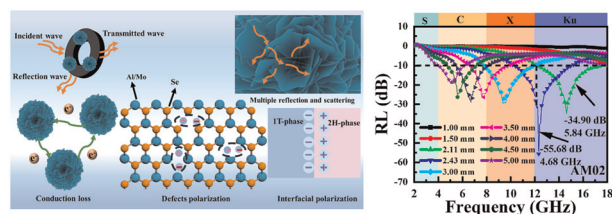
Luke T. Norman, William J. Cull, Craig T. Stoppiello, Christopher S. Allen, Johannes Biskupek, Maxwell A. Astle, Rhys W. Lodge, Ute Kaiser, Jesum Alves Fernandes, Graham A. Rance* and Andrei N. Khlobystov*



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Effect of Al doping on the microwave absorption performance of 1T/2H heterogeneous interface MoSe₂

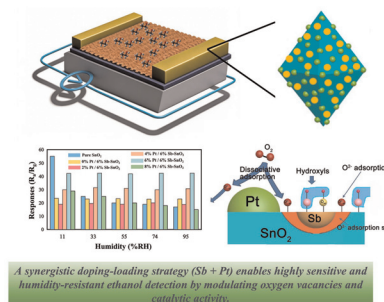
Qing Liu, Kewei Zou, Qiangchun Liu, Xiangkai Kong, Weiwei Zhang and Min Zhang*



6765

Design and development of a novel humidity-tolerant gas-sensing material for reliable and high-performance ethanol detection

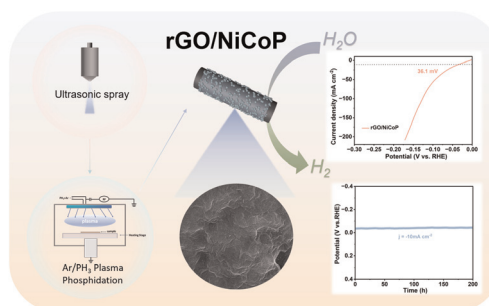
Dongting Wang, Shan Ding, Su'e Chen, Dongyu Shan, Chunjie Jiang* and Xinning Zhang*



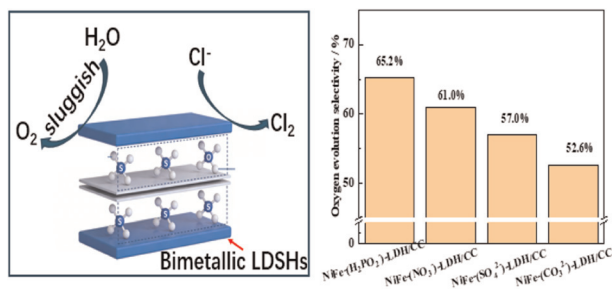
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Reduced graphene oxide/NiCoP electrocatalysts via a facile synthetic strategy for efficient hydrogen evolution in alkaline media

Hui Ni, Zhen Ma, Jianyi Qin, Xin Zhang, Jing Zhang and Bin Zhao*



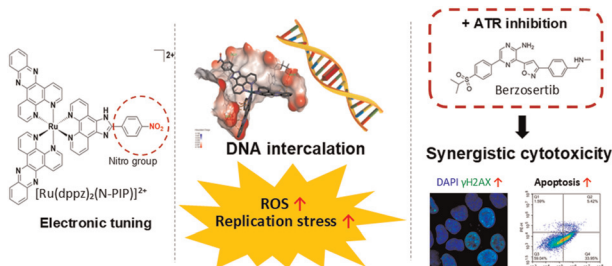
6786



Effects of intercalated anions on the interfacial oxygen evolution activity and selectivity of NiFe(OH)₂ nanosheet array electrodes for seawater electrolysis

Fengyan Xiao,* Fangfang Liu, Qin Xing, Runlai Jiang, Yangjing Liu, Jiaying Ge, Haofeng Yan, Jianwei Ren and Hui Wang*

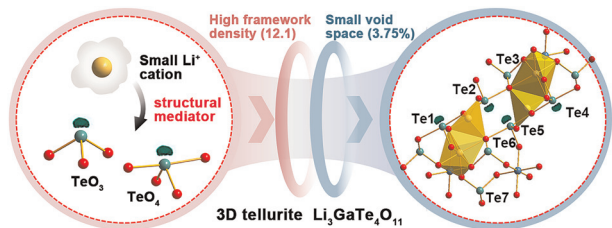
6796



Nitro-substituted ruthenium(II) polypyridyl complexes synergise with ATR inhibitors to enhance replication stress in cancer cells

Yian Chee Gan, Nur Ainie Yusoh, Suet Lin Chia, Xiaohe Tian,* Martin R. Gill* and Haslina Ahmad*

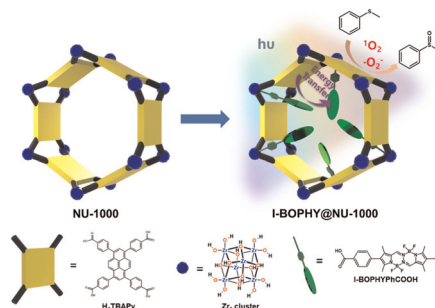
6811



Li₃GaTe₄O₁₁: small ion-driven orientation of TeO_n units in a tunnel-structured tellurite

Jingfang Zhou, Pifu Gong, Chang Gao, Mingjun Xia, Jing Yu, Hongxia Zhang and Qian Wu*

6818



Triplet state stabilization and synergistic energy transfer in BOPHY-functionalized NU-1000 for enhanced photocatalytic aerobic oxidation

Yena Choe, Seung Jun Lee, Tra Phuong Trinh, Hyung Joo Lee, Hyun Seok Lee, In Guk Song, Hyejin Kang, Gajendra Gupta,* Jun-Hyun Kim,* Chul Hoon Kim* and Chang Yeon Lee*

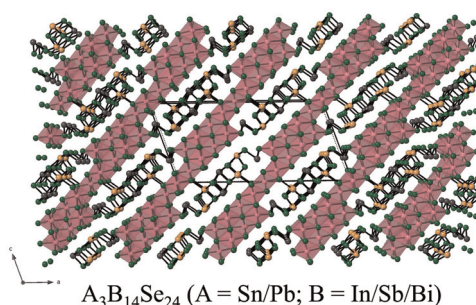


PAPERS

6825

Synthesis, crystal chemistry, and semiconducting properties of $A_3B_{14}Se_{24}$ ($A = Sn/Pb$; $B = In/Sb/Bi$) with step-layered NaCl(111)-type slabs interleaved with NaCl(100)-type ribbons

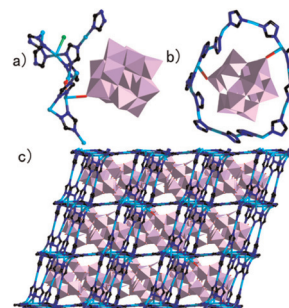
Guan-Ruei Chen, Wan-Zhen Xiao, Yen-Han Huang, Chia-Wei Yang and Chi-Shen Lee*



6835

A polyoxometalate-embedded Cu-triazole cycle: catalytic oxidation of alcohols

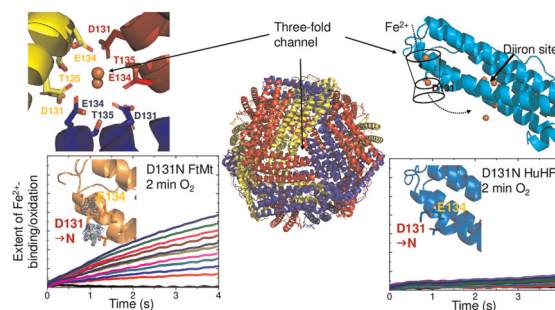
Quanzhong Wang,* Yahong Chen, Fengshou Tian and Ruixia Dou



6844

Impact of the three-fold channel substitution D131N on kinetics of translocation of Fe^{2+} across the protein coat is more severe for human cytosolic H-chain ferritin than for human mitochondrial ferritin

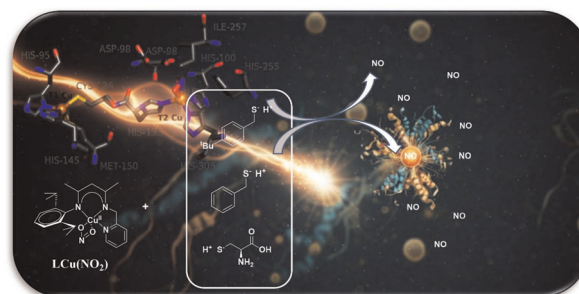
Zinnia Bugg,* Charlie Hazlewood, Andrew M. Hemmings, Justin M. Bradley and Nick E. Le Brun*



6854

Copper nitrite reduction by thiols: mechanistic insights into NO release *en route* to copper thiolate formation

Naorem James Meitei, Yu-Ting Chu, Chien-Hung Li, Rahime Eshaghi Malekshah, Wei-Min Ching, Tsung-Ting Shih and Sodio C. N. Hsu*

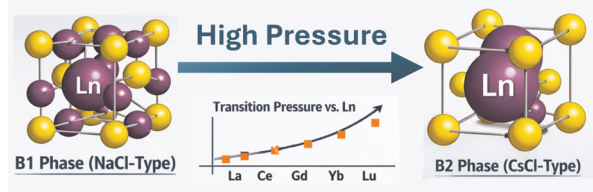


6904

Systematic first-principles study of pressure-induced phase transitions and lattice properties in lanthanide monosulfides

Sergio Ferrari, Ertuğrul Karaca and Daniel Errandonea*

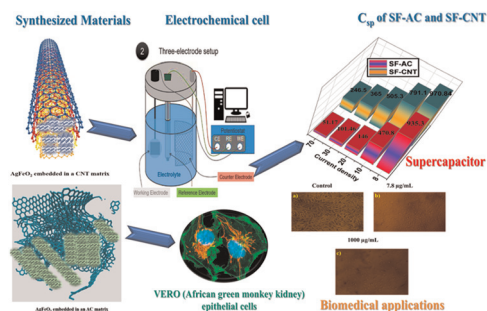
Pressure-Induced Phase Transitions in Lanthanide Monosulfides



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Sustainable AgFeO₂-carbon nanohybrids derived from agricultural waste for high-performance supercapacitors in alkaline environments and multifunctional biomedicine

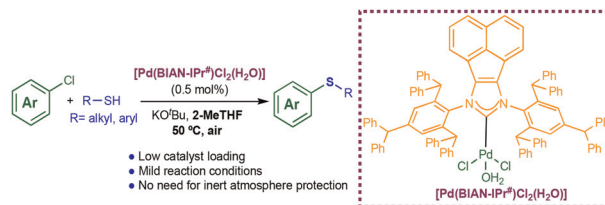
Godwin Daniel Thomas Raj S, T Monica Thomas, M Asisi Janifer* and J. Judith Vijaya*



6934

A robust [Pd(BIAN-IPr[#])Cl₂(H₂O)] catalyst employing water as a disposable ligand for C–S cross coupling of aryl chlorides and thiols

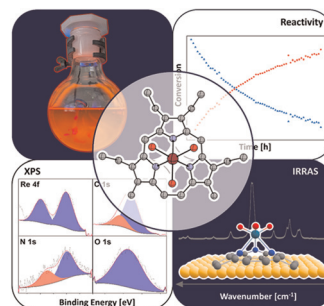
Ziyi Quan, Zheng Wang, Yaxu Liu,* Yuanchao Sun and Bo Wang*



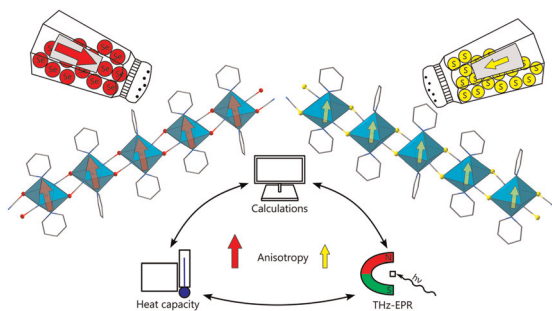
6944

Synthesis of a rhenium(VII) trioxo complex supported by a triphyrin ligand: oxygenation chemistry and deposition on Au(111)

Manh Linh Nguyen, Thomas Strunskus, Christian Näther, Jan Kraemer and Felix Tuczek*



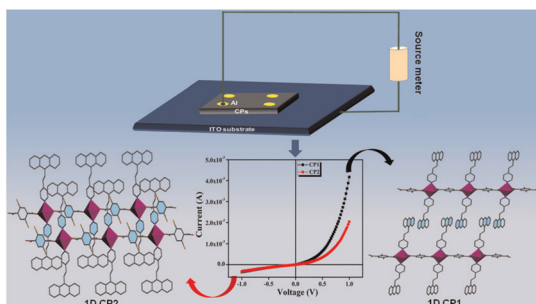
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Disentangling anisotropy and exchange in $\text{Co}(\text{NCX})_2$ ($\text{X} = \text{S}, \text{Se}$) chains via THz-EPR spectroscopy

Jooris Beyer, Michael Böhme, Michat Rams,*
Christian Näther* and Winfried Plass*

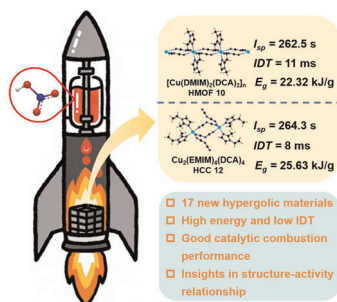
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Elucidating structure–property relationships in $\text{Cd}(\text{II})$ coordination polymers for enhanced charge transport properties and Schottky device fabrication

Ersad Hossain, Ramjan Sk, Sayantan Sil, Samit Pramanik, Partha Pratim Ray,* Joaquin Ortega-Castro, Antonio Frontera, Mohammad Hedayetullah Mir* and Subrata Mukhopadhyay*

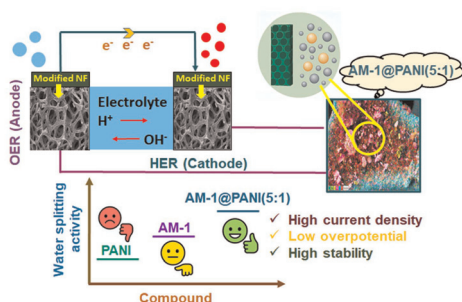
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Hypergolic metal–organic frameworks and metal coordination complexes constructed by dicyandiamide and imidazole derivatives

Zheting Dong, Ai Chang, Chun-Ru Luo, Xiaohan Sun, Yuangang Xu, Pengcheng Wang and Guo-ping Lu*

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Polyaniline-supported $\text{Ag}_2\text{O}/\text{Mn}_2\text{O}_3$ nanostructures on nickel foam for efficient bifunctional water splitting electrocatalysis

Samira Akbari, Zohreh Shaghghi,* Fahimeh Farshi Azhar and Alireza Khataee

