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See Anjana Devi *et al.*,
pp. 4046–4050.

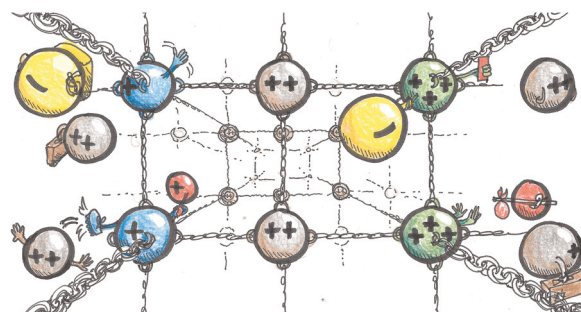
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2026, **55**, 4046.

PERSPECTIVE

4015

Aliovalent solid solutions of metal–organic frameworks

Marco Taddei

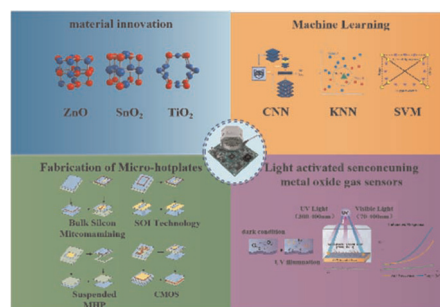


FRONTIER

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Frontiers in gas sensing with semiconducting metal oxide array electronic noses

Yuchen Xia, Heng Zhang, Xuerong Shi* and Shusheng Xu*



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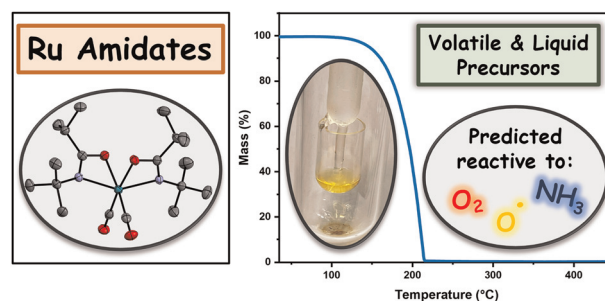
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Ruthenium(II) carbonyl amidates – a new class of precursors for atomic layer deposition

Jorit Obenluneschloß, Cara-Lena Nies, Michael Gock, Michael Unkrig-Bau, Jan-Niklas Huster, Michael Nolan and Anjana Devi*



4051

Ru and Rh binding sites in the structure of human serum transferrin with Fe³⁺ bound at the C-lobe

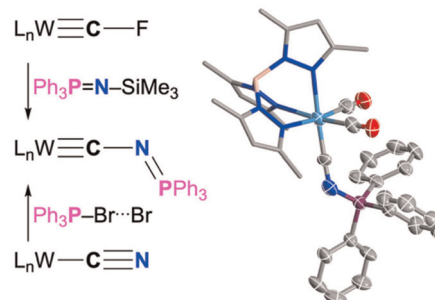
Anne-Sophie Banneville, Giarita Ferraro, Rossella D'Elia, Irina Cornaciu-Hoffmann, Andrea Pica and Antonello Merlino*



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Two approaches to phosphaniminocarbyne complexes

Lucas G. Foglia, Ryan M. Kirk and Anthony F. Hill*

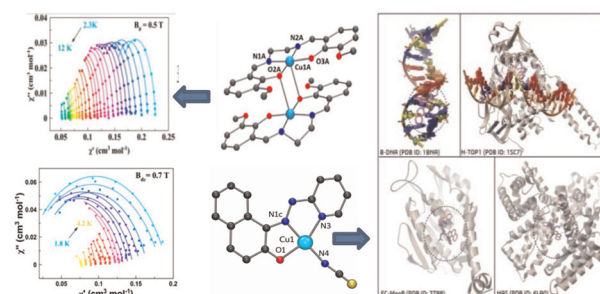


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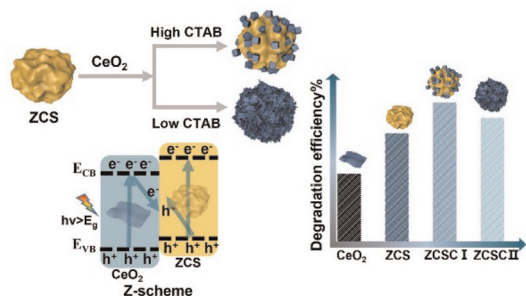
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Field-induced slow magnetic relaxation, molecular docking and antibacterial studies of quasi-isotropic copper(II) ($S = \frac{1}{2}$) systems stabilised by tetradentate (ONNO) and tridentate (NNO)-donor ligands

Amit Saha Roy,* Sourav Ghosh, Indranil Nath, Sergi Caballero, Albert Escuer, Júlia Mayans* and Shasank Sekhar Swain



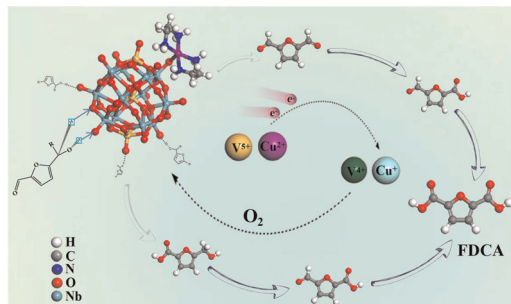
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Tuning the morphology of ZnCdS@CeO₂ Z-scheme heterostructures from core-shell to core-satellite for superior photocatalytic performance

Yong Liu, Baowei Shen, Sijia Zhao, Guixia Ma, Yujie Ma, Yu Xia, Xing Wang and Yuhua Feng*

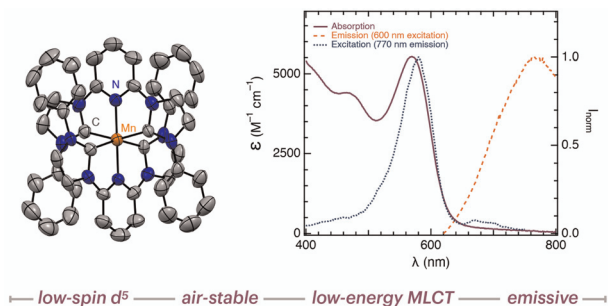
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Heterometallic incorporation to promote the catalytic activity of polyoxoniobate toward selective oxidation of 5-hydroxymethylfurfural

Li-xiao Song, Zi-wei Cai, Cai-li Lv, Long-fei Chao, Yun-dong Cao,* Wen-jing Xu, Hong Liu,* Chun-hui Zhang and Guang-gang Gao*

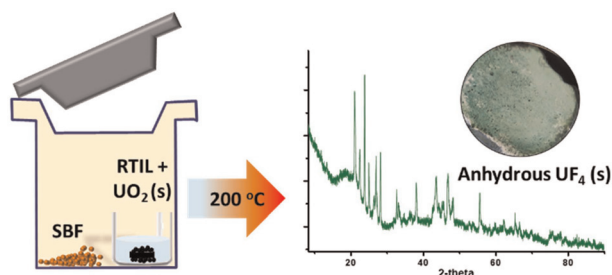
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A low-spin manganese(II) complex with an emissive charge-transfer excited state

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Uranium tetrafluoride via direct conversion of uranium dioxide using silver bifluoride in an ionic liquid medium

Parveen Kumar Verma, Frederic Poineau, Jason Victor and Kenneth Czerwinski*

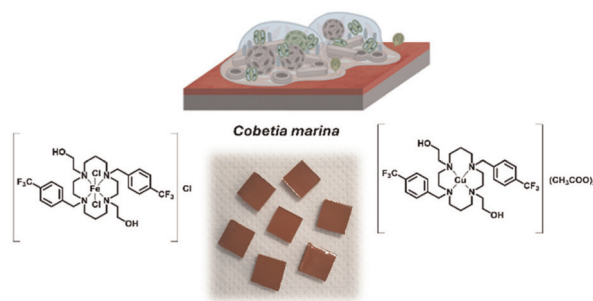


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Cyclam-based Cu(II) and Fe(III) complexes for antifouling coating development

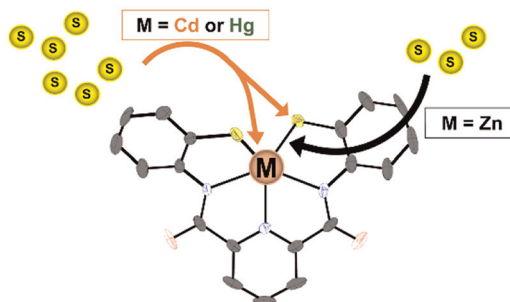
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Sulfur insertion into group 12 metal dithiolate complexes: metal-dependent equilibria

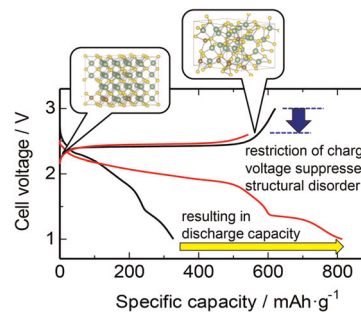
Muhammad Sohail, Carsten Heinsen, Allen G. Oliver and Emily Y. Tsui*



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Analysis of the charge/discharge mechanism of an Fe-containing Li₂S positive electrode material and its visualization by computational simulation

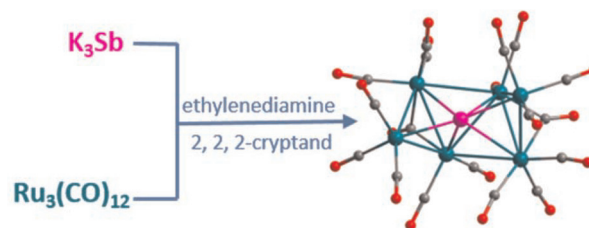
Tomonari Takeuchi, Yoyo Hinuma,* Koji Ohara, Hiroyuki Kageyama, Koji Nakanishi, Toshiaki Ohta, So Fujinami, Hisao Kiuchi and Hikari Sakaebe



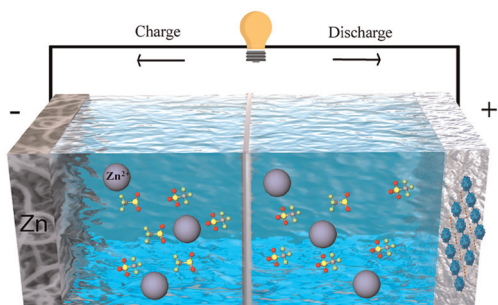
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[Ru₆(μ₆-Sb)(CO)₁₈]³⁻: deeply reduced metal carbonyl cluster embedded with naked μ₆-Sb

Cheng Ding, Xian Xu, Qian Qin, Jingen Ding* and Li Xu



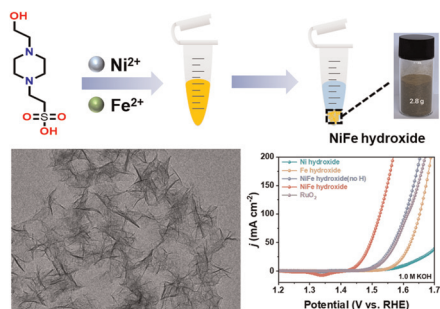
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Unveiling the role of structural water and achieving enhanced Zn-ion storage via thermal dehydration of a Ni-containing heteropolyoxovanadate cathode

Naibin Kuai, Aiping Yao, Shuangxue Wu, Li Liu,*
Xinlong Wang, Chao Qin* and Zhongmin Su

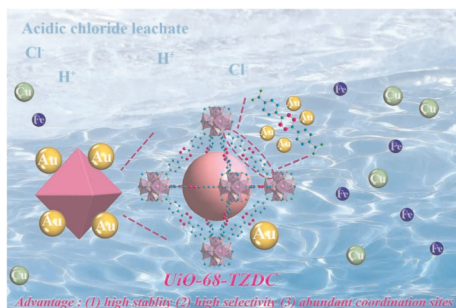
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Promoting nickel oxidation state transformation in NiFe hydroxide nanosheets for efficient oxygen evolution reaction

Wenwen Peng, Xueqiu Qin, Xiaocan Mo, Jinrui Zhao,
Shuhan Li, Guanfang Liang, Tong Chen, Jiaao Wei,
Shuifeng Zhang,* Xiaokun Li,* Youlin Zhang* and
Wei Chen*

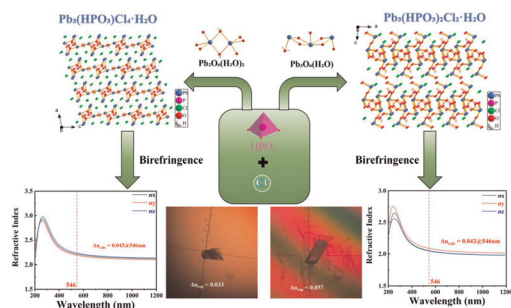
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Tetrazine-functionalized UiO-68 for highly selective Au(III) recovery from acidic solutions

Zhuoran Sun, Yali Ma,* Haijun Hu, Xue Zhou,
Peng Jiang, Xue Li, Jiyang Li, Yunling Liu and
Xiaodong Sun*

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Crystal structures and optical properties of two layered lead halide phosphites $\text{Pb}_3(\text{HPO}_3)_2\text{Cl}_2 \cdot \text{H}_2\text{O}$ and $\text{Pb}_3(\text{HPO}_3)\text{Cl}_4 \cdot \text{H}_2\text{O}$

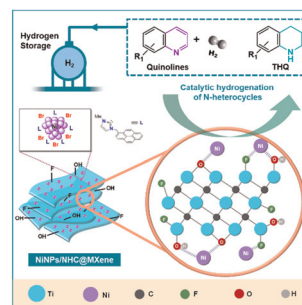
Zong-Jie Zhao, Yu-Zheng Yan, Jia-Jian Fu,
Hong-Yan Wu and Jian-Han Zhang*



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Ligand decorated nickel-based nanoparticles supported onto MXenes in catalytic hydrogenation of N-heterocycles

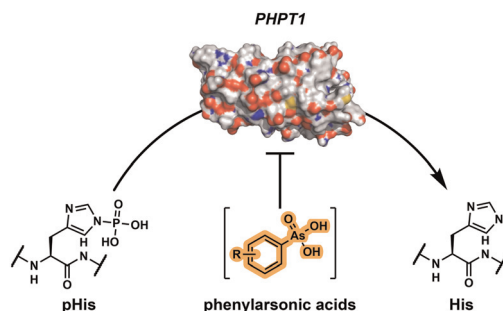
Judith Medina-Vargas, Santiago Martin, Iván Sorribes, Hermenegildo García* and Jose A. Mata*



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Inhibition of PHPT1 by phenylarsonic acids

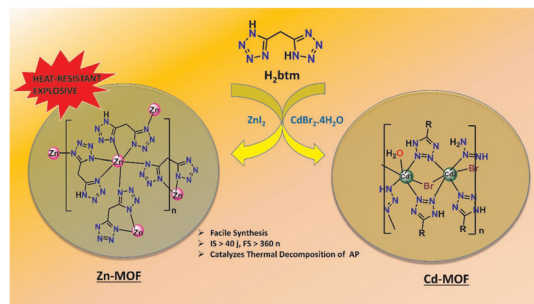
E. Dalles Keyes, Sophia E. Hollow, Paul Oblad, Timothy C. Johnstone and Amy M. Barrios*



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Design and synthesis of Zn(II)/Cd(II)-based energetic metal coordination polymers with the bis(tetrazole)methane (H₂btm) ligand: a comparative assessment of heat resistance and catalytic effects on the thermal decomposition of ammonium perchlorate

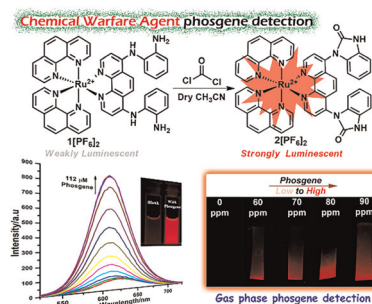
Priyanka Singla, Vanshika Sharma, Yashita, Pramod K. Soni, M. Raghavendra Rao, Arjun Singh* and Subash C. Sahoo*



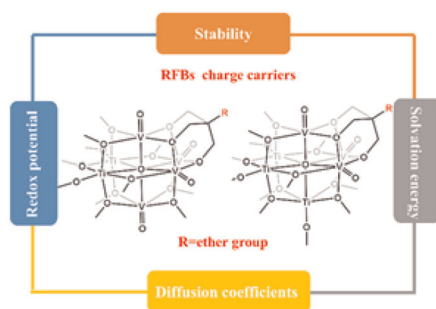
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A dual-phase luminescent phosgene sensor based on an AIE-active ruthenium(II) polypyridine complex

Sumit Kumar Patra, Jogat Gogoi, Monosh Rabha and Snehadrinarayan Khatua*



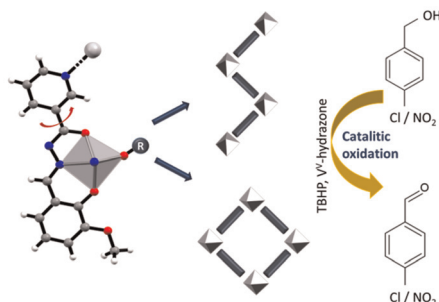
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Theoretical study of ether group substitution effects on the electrochemical properties of Ti-modified vanadium-oxide clusters

Kexin Wang, Shuang Wu, Sihan Wei and Likai Yan*

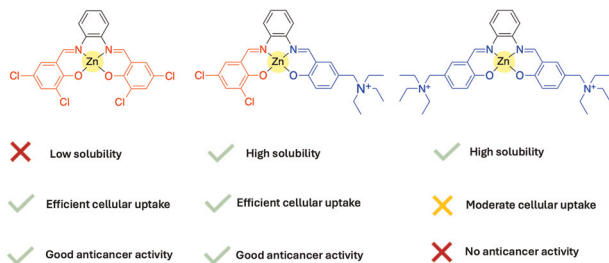
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Nicotinoyl hydrazone-directed vanadium assemblies: metallosupramolecular isomerism, polymorphism, and catalytic oxidation performance

Edi Topić, Josipa Sarjanović, Dino Kuzman, Andrea Cocut, Tomica Hrenar, Jana Pisk* and Višnja Vrdoljak*

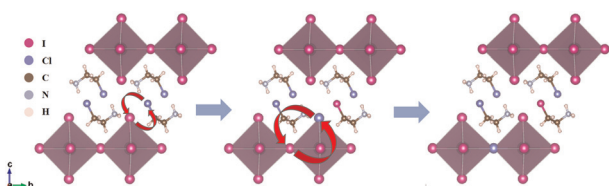
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In medio stat virtus: asymmetric Salphen metal complexes with improved biological properties

Luisa D'Anna,* Aurane Froux, Riccardo Bonsignore, Alexander Roller, Christian R. Kowol, Antonio Monari, Stéphanie Grandemange, Giampaolo Barone and Alessio Terenzi*

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Halide exchange in (ClEA)₂PbI₄ and its effect on the structural and electronic properties of perovskite layers

Linfei Yang, Xiaoyan Gan,* Gang Zhao, Qiang Huang, Jianhua Liao, Changsheng Wang and Hanxing Liu

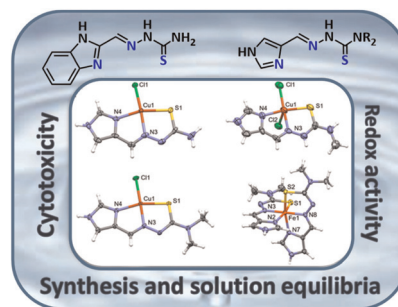


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Comparative solution study of imidazole-derived thiosemicarbazone complexes: effects of methylation and aromatic conjugation on the redox properties, anticancer, and antibacterial activity

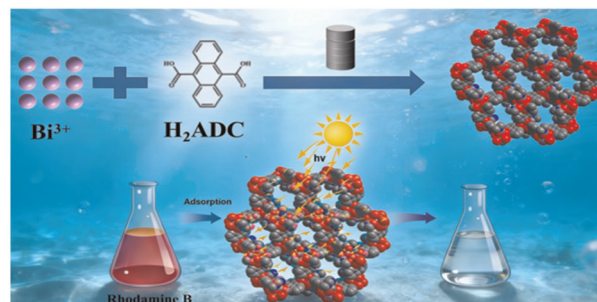
Tatsiana V. Petrasheuskaya, Márton A. Kiss, Peter Rapta, Csenge Fonay, Nóra V. May, Gabriella Spengler, Éva Frank and Éva A. Enyedy*



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A bismuth-based metal–organic framework with potential application in organic pollutant removal

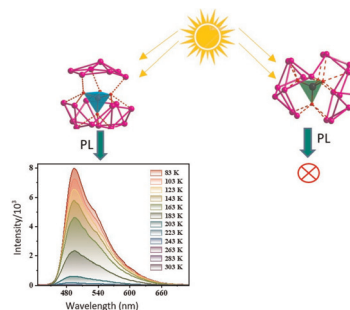
Ai Yang, Hong Cao, Jie Lyu, Wenbing Ding, Jiali Liao, Yuanyou Yang, Ning Liu and Feize Li*



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Developing two high-nuclearity Ag nanoclusters with temperature-sensitive fluorescence properties

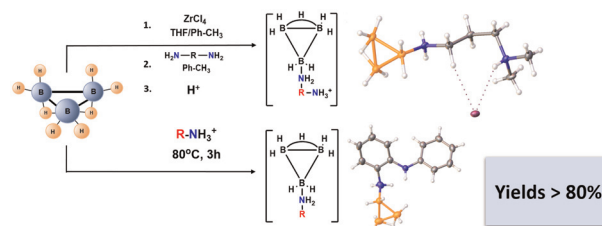
Xiao-Lin Ye, Sobhan Rezayati, Fahime Bigdeli, Le Yang, Kuan-Guan Liu,* Jianyu Wei* and Ali Morsali*



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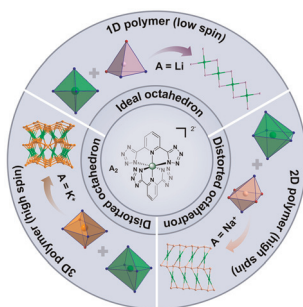
Unlocking the chemistry of the octahydrotriborate anion: robust synthesis, structural elucidation, and unprecedented protonation stability of diamine-substituted derivatives

Aleksandra T. Shulyak,* Anna A. Lukoshkova, Nikita A. Selivanov, Alexey S. Kubasov, Ivan V. Skabitskii, Andrey P. Zhdanov, Varvara V. Avdeeva, Aleksandr Yu. Bykov, Konstantin Yu. Zhizhin and Nikolay T. Kuznetsov



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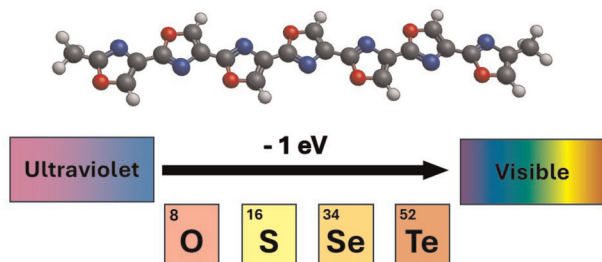
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Locking the spin states of anionic $\text{Fe}(\text{L})_2$ units in coordination polymers through alkali metal ion incorporation

Jing-Yao Zhou, Hong-Dong Zhang, Fan Yin, Zheng-Zhong Zhu, Li-peng Zhou, Chong-Bin Tian* and Qing-Fu Sun*

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Group 16 substitution effects on the electronic and optical properties of 1-dimensional conjugated heterocycle oligomers: a relativistic self-interaction corrected real-space TDDFT study

Joëlle Mérgola-Greef* and Bruce F. Milne*

CORRECTIONS

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Correction and removal of expression of concern: Enhanced photocatalytic activity of $\text{g-C}_3\text{N}_4/\text{MnO}$ composites for hydrogen evolution under visible light

Na Mao, Xiaomin Gao, Chong Zhang, Chang Shu, Wenyan Ma, Feng Wang and Jia-Xing Jiang*

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Correction: An N-heterocyclic carbene-based pincer system of palladium and its versatile reactivity under oxidizing conditions

Haobin Li, Bo Zhang, Rui Feng and Shuai Guo*

