

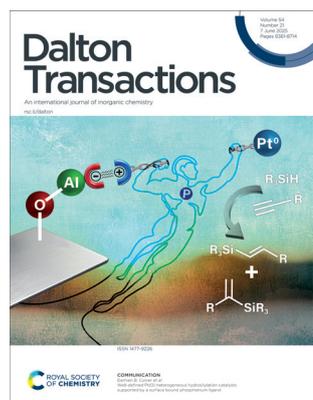
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Cover
See Damien B. Culver *et al.*,
pp. 8392–8399.

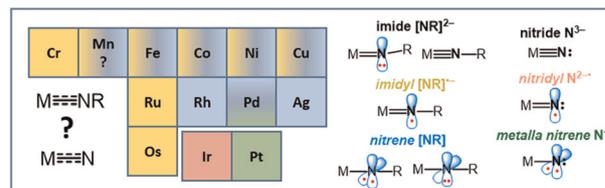
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2025, **54**, 8392.

PERSPECTIVE

8374

Chasing isolable late d-block metal nitrenes and imidyls

C. Gunnar Werncke

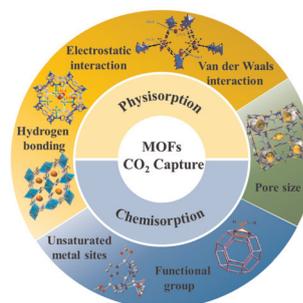


FRONTIER

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Recent advances and challenges of metal–organic frameworks for CO₂ capture

Runzhi Wei, Tao Zhao, Hui Xu* and Junkuo Gao*



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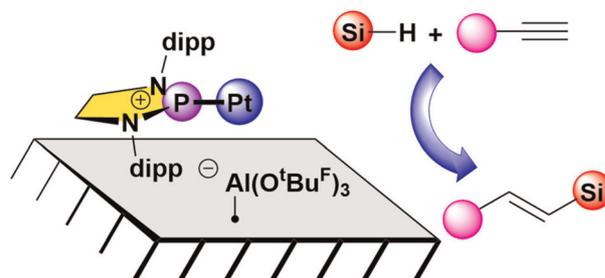
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COMMUNICATIONS

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Well-defined Pt(0) heterogeneous hydrosilylation catalysts supported by a surface bound phosphonium ligand

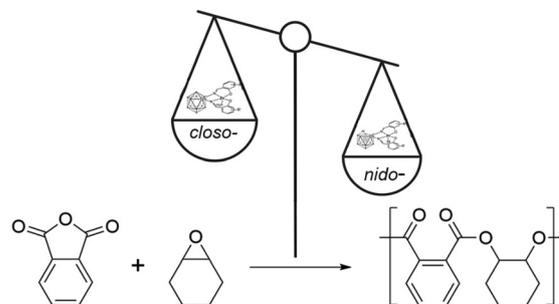
Damien B. Culver,* Marco Mais, Min-Chul Kang, Lin Zhou and Frédéric A. Perras



8400

A comparative study on *nido*- and *closo*-carborane supported zinc-salen catalysts for the ROCOP of epoxides and anhydrides

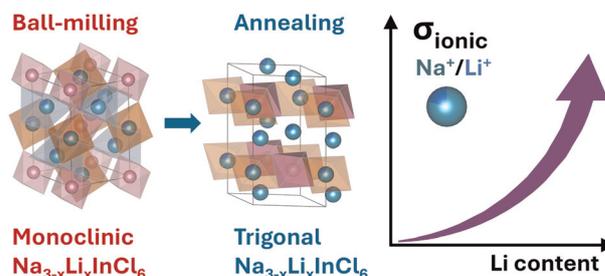
Jin-Bian Xue, Jia-Ni Wang, Ke-Cheng Chen, Qian Cheng, Jia-Ying Zhang and Xu-Qiong Xiao*



8405

Structure and ion conducting properties of mixed-alkali $\text{Na}_{3-x}\text{Li}_x\text{InCl}_6$ solid electrolytes

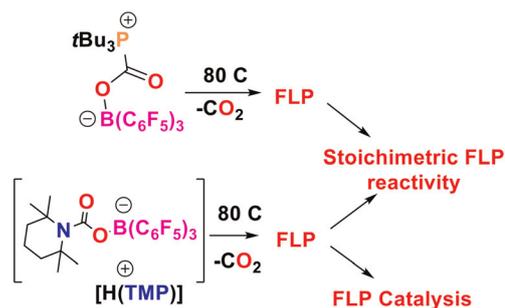
Dat Le Thanh, Long Hoang Bao Nguyen, Emmanuelle Suard and Romain Berthelot*



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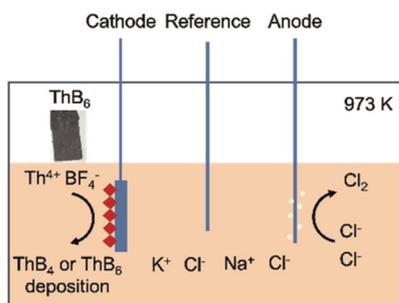
FLP- CO_2 adducts: convenient sources of frustrated Lewis pairs for stoichiometric and catalytic chemistry

Jordan Thomson, Marc-André Courtemanche, Rebecca C. Neu and Douglas W. Stephan*



COMMUNICATIONS

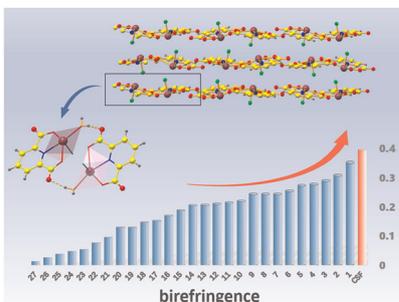
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Low-temperature electrochemical production of thorium borides in NaCl-KCl molten salt systems

Tiejian Zhu* and Cheng Peng*

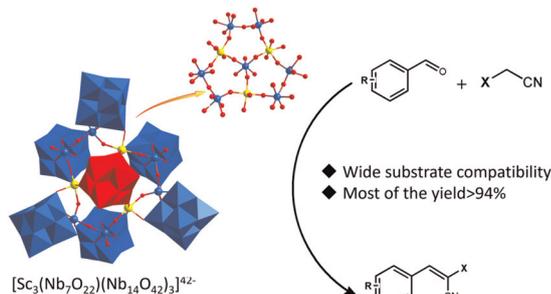
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(C₇H₃NO₄)₂Sb₂F₂·2H₂O: a pyridine-based compound shows large optical anisotropy

Yaoguo Shen,* Jiajia Xiong, Yiman Yang and Zhifeng Tang

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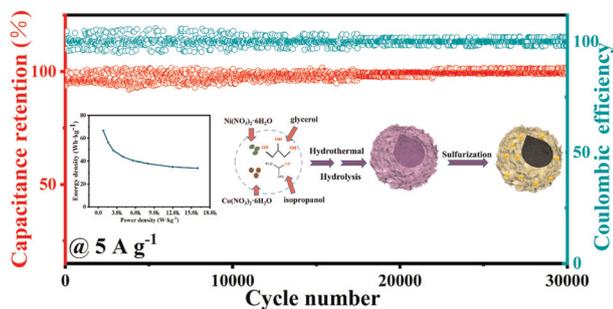


A scandium-containing polyoxoniobate heptamer as a catalyst for the Knoevenagel condensation reaction

Ya-Ting Lin, Li Zeng, Yi-Ying Li, Yan-Qiong Sun,* Xin-Xiong Li* and Shou-Tian Zheng*

PAPERS

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Controlled synthesis of hierarchical hollow Co_xNi_{3-x}S₄ towards enhanced rate capability and excellent cycling stability

Xiankun Xiong, Chaochao Lu, Zhongliang Pi, CunYuan Pei* and Cheng Du*

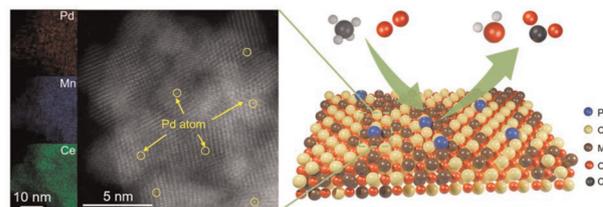


PAPERS

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Defective Ce–Mn solid solution loaded with Pd single atoms for an enhanced methane combustion reaction

Haoyang Liu, Huilin Wang,* Xiang Chu, Zijian Wang, Yuou Li, Shibo Zhang, Xiao Wang,* Zhenan Qiao, Shuyan Song* and Hongjie Zhang



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Highly tenebrescent hackmanites from natural nepheline

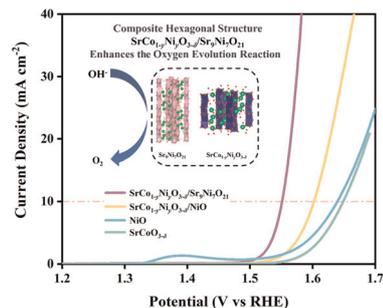
Cecilia Agamah, Sami Vuori, Ermei Mäkilä, Anssi Peuronen and Mika Lastusaari*



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High-efficiency oxygen evolution catalysts: composite hexagonal structure SrCo_{1-y}Ni_yO_{3-δ}/Sr₉Ni₇O₂₁

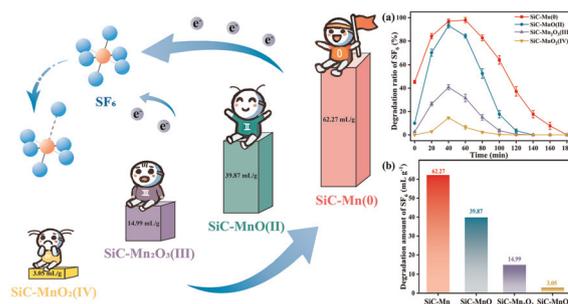
Xiaolong Yang, Hongyuan Song,* Ruihang Yao, Haorong Wu, Kun Dong, Liangwei Chen, Bin Liu, Zhenhua Ge and Lan Yu*



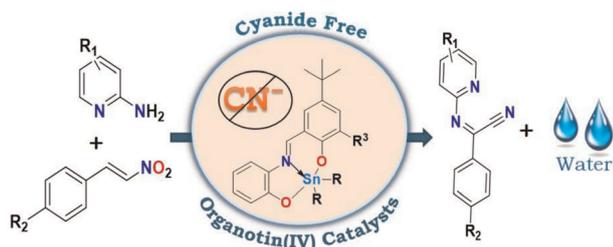
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The role of manganese oxidation states in the performance of SiC-supported composites toward SF₆ degradation

Yaru Zhang, Xiang Meng, Boxu Dong, Fengxiang Ma, Yue Zhao, Xinhua He,* Shan Zhu* and Jiantao Zai*



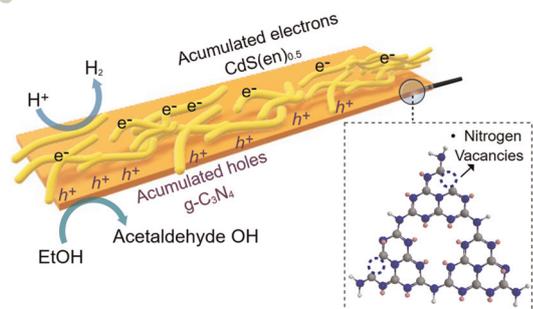
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Organotin(IV) compounds catalyzed cyanide-free synthesis of α -iminonitriles

Manish Kumar, Sudipta Chakraborty and Hari Pada Nayek*

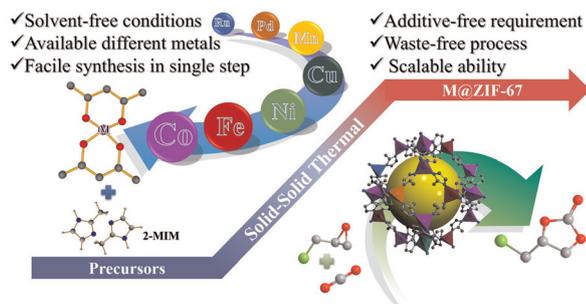
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Blue-light hydrogen production via CdS/g-C₃N₄ heterojunctions

Karen Valencia G., Agileo Hernández-Gordillo,* Lorena Cerezo and Sandra E. Rodil

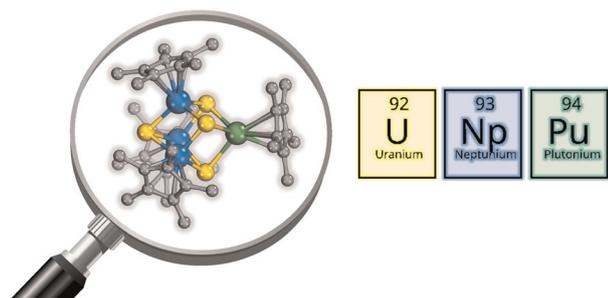
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Green and high-yield synthesis of bimetallic zeolitic imidazolate framework-67 for efficient catalytic CO₂ cycloaddition

Chaonan Wang, Kaixuan Guo, Zhonghan Cheng, Chongli Wang, Duozen Chai, Dongfeng Cao, Ye Yuan* and Somboon Chaemchuen*

8510



Electronic structure of molybdenum chalcogenide clusters as supports for low-valent actinides

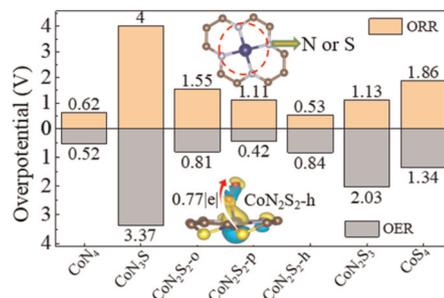
Pere Miró* and S. Genevieve Duggan



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Theoretical study on the modulation of oxygen electrocatalysis in Co-based single-atom catalysts by N and S co-coordination

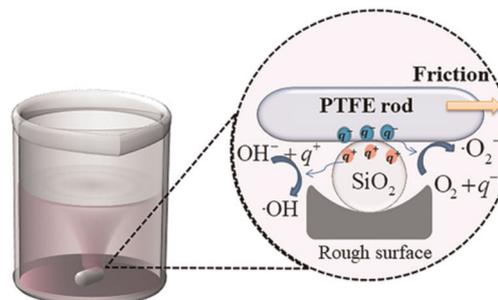
Rui He, Xinyu Zhang, Linlin Zhang,* Nan Chen, Zhen Gao, Yanning Wang and Kai Xiong



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Non-piezoelectric SiO₂ amorphous nanomaterials for highly tribocatalytic water purification

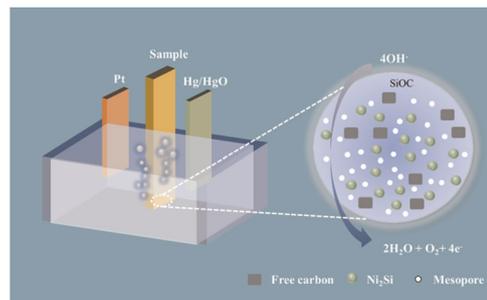
Yan Zhang, Junling Che, Yuhang Gao, Cuijin Pei and Yanmin Jia*



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Single-source-precursor synthesis of porous Ni₂Si/SiOC composites as oxygen evolution reaction electrocatalysts

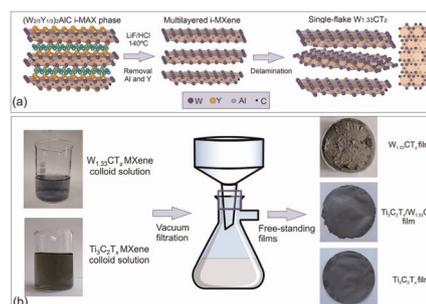
Yaohao Zhang, Chuanmu Tian, Tianshu Jiang, Wei Li, Marcus Einert, Jan P. Hofmann,* Leopoldo Molina-Luna, Ralf Riedel and Zhaoju Yu*



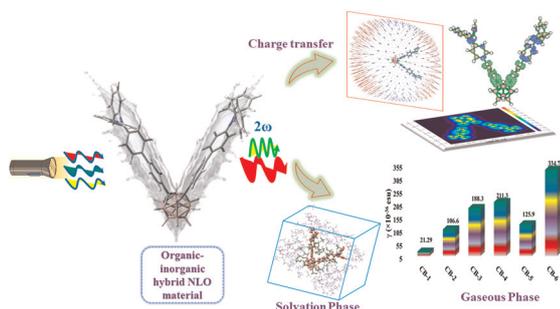
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Application of W_{1.33}CT_z MXenes obtained by hydrothermal etching as an additive to enhance the electrochemical energy storage properties of binder-free Ti₃C₂T_x MXene films

Alexey Tsyganov,* Maria Vikulova, Ilya Zotov, Evgeniy Korotaev, Ilya Plugin, Victor Sysoev, Demid Kirilenko, Maxim Rabchinskii, Artur Asoyan, Alexander Gorokhovskiy and Nikolay Gorshkov*



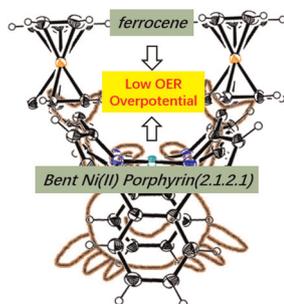
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Synergistic impact of organic and inorganic features in carborane hybrids for nonlinear optics and solvent-tunable properties

Iqra Kaifi, Shabbir Muhammad,* Adan Ahmad, Shamsa Bibi, Aijaz Rasool Chaudhry, H. Algarni and Abdullah G. Al-Sehemi

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Ferrocene unit substitution in nickel(II) porphyrin(2.1.2.1) induces an extremely low oxygen evolution reaction overpotential

Tao Jiang, Yiping Hu,* Sihan Liang, Fengxian Qiu,* Hongliang Huang,* Mingbo Zhou and Songlin Xue*

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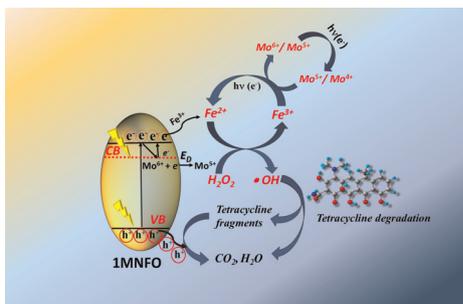
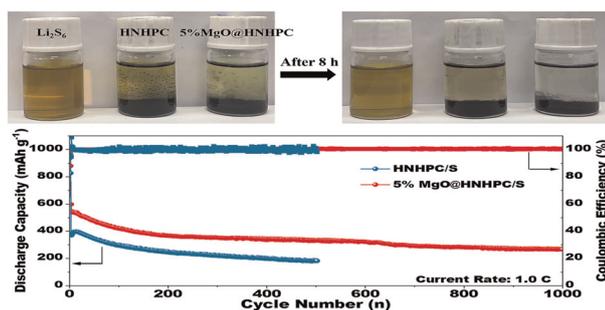


Photo-Fenton degradation on Mo-doped NiFe₂O₄ photocatalyst

Anshu Shrivastava, Uttam Kumar and Indrajit Sinha*

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MgO nanoparticle-decorated *in situ* nitrogen-doped porous carbon hybrid materials as advanced sulfur hosts in Li-S batteries

Linyue Qu, Dongyuan Lei, Yang Bai, Mingwu Xiang,* Wei Bai, Junming Guo, Xinzhou Yang and Zixian Yang*

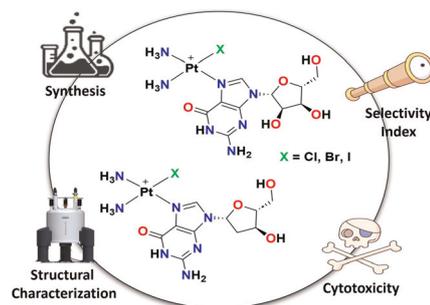


PAPERS

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Synthesis, structural characterization, and cytotoxic evaluation of monofunctional *cis*-[Pt(NH₃)₂(N7-guanosine/2'-deoxyguanosine)X] (X = Cl, Br, I) complexes with anticancer potential

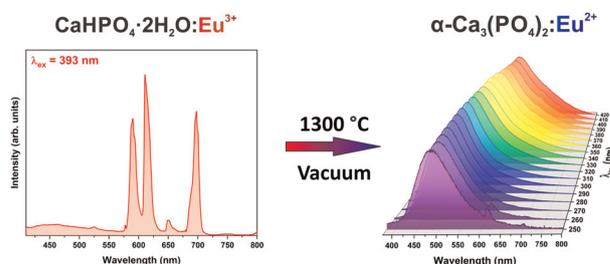
Asjad Ali, Gianluca Rovito, Erika Stefàno, Federica De Castro, Giuseppe Ciccarella, Danilo Migoni, Elisa Panzarini, Antonella Muscella, Santo Marsigliante, Michele Benedetti* and Francesco Paolo Fanizzi



8625

Tunable broadband visible emission achieved by phase transformation-driven self-reduction of Eu³⁺ to Eu²⁺ in a calcium phosphate matrix

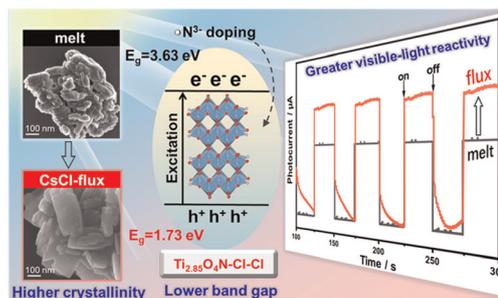
Sapargali Pazylbek, Jonas Stadulis, Guna Doke, Andris Antuzevics, Vladimir Pankratov, Greta Merkininkaite, Arturas Katelnikovas and Aleksej Zarkov*



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CsCl-flux synthesis of titanium oxynitride (Ti_{2.85}O₄N) for photocatalysis

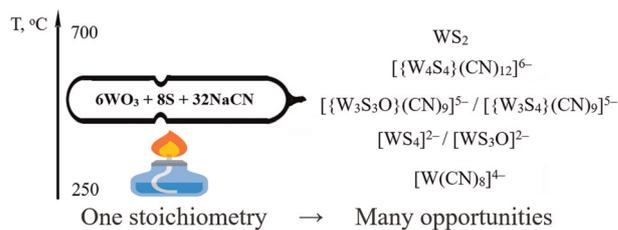
Xiaoxuan Xie, Zihan Wang, Yatong Wang and Wenqian Chen*



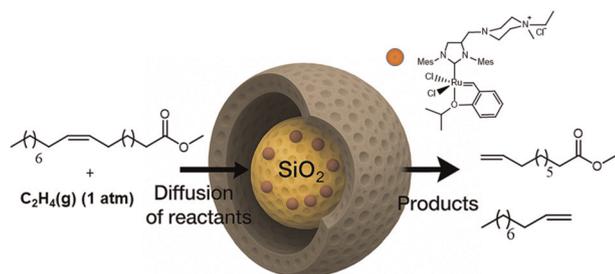
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Tungsten oxide as a universal source for the synthesis of complexes with different nuclearities in WO₃/chalcogen/NaCN systems

Spartak S. Yarovoy,* Irina V. Mirzaeva, Taisiya S. Sukhikh, Yuri V. Mironov, Vadim Yanshole and Konstantin A. Brylev



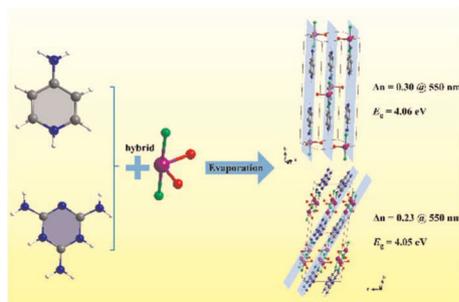
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Ammonium tagged Hoveyda–Grubbs catalyst immobilized on yolk/shell silica gels with a hydrophobic shell for olefin metathesis reactions

Bengi Özgün Öztürk,* Aleyna Hillik, Beyza Nur Küçük and Fatih İnci

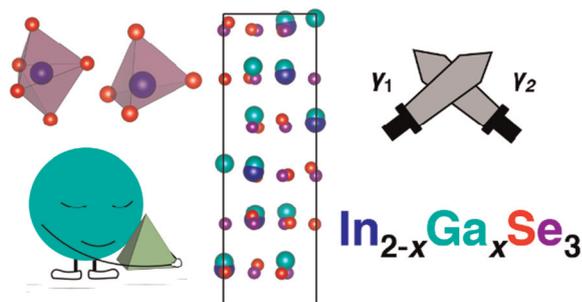
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$(C_5N_2H_7)IO_2F_2$ and $(C_3N_6H_8)(IO_2F_2)_2$: two new organic–inorganic hybrid fluoroiodate birefringent crystals

Si Yuan, Chun-Li Hu and Jiang-Gao Mao*

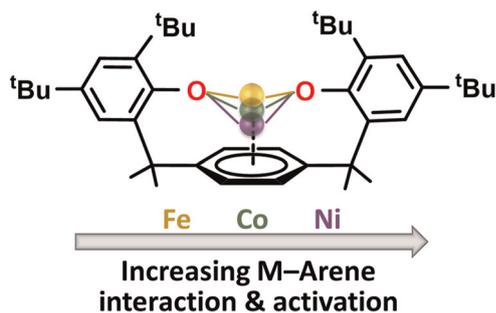
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Unveiling the unique site preference of Ga in the defect wurtzite type In_2Se_3 – Ga_2Se_3 system: an experimental and computational study

Siddha Sankalpa Sethi, Achintya Lakshan, Ahin Roy, Siddhartha Das, Karabi Das* and Partha Pratim Jana*

8683



Monomeric $M(II)$ ($M = Fe, Co, Ni$) complexes supported by bulky aryloxy ligands tethered to an arene functionality; synthesis, electrochemistry and study of the $M(II)$ –arene interaction

Ioannis Vagiakos, Nikolaos Tsoareas,* Tianyin Huang, Stella Christodoulou, Laurent Maron,* Thomas Pickl, János Mink and Dominik P. Halter*

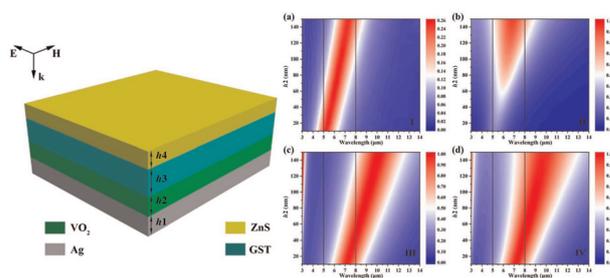


PAPERS

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Visible light compatible infrared stealth capability based on phase change materials

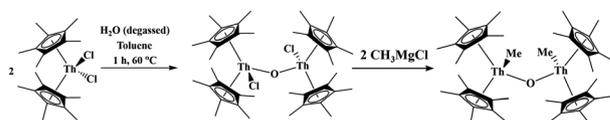
Zhou Ai, Huafeng Zhang,* Shubo Cheng, Zao Yi* and Qianju Song



8706

Reactivity of a dithorium oxo complex from adventitious water

Pritam Mahawar, Steven P. Kelley and Justin R. Walensky*



EXPRESSION OF CONCERN

8712

Expression of concern: Simple NMR predictors of catalytic hydrogenation activity for [Rh(cod)Cl(NHC)] complexes featuring fluorinated NHC ligands

Mohamad Shazwan Shah Jamil, Sultan Alkaabi and Alan K. Brisdon

