

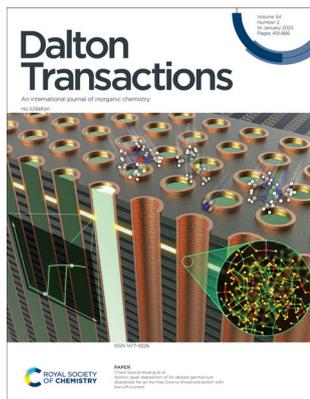
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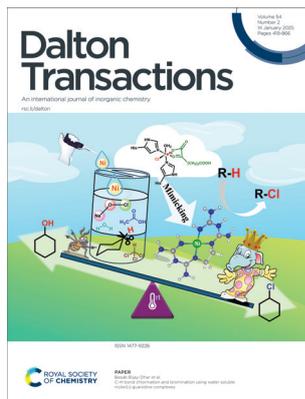
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See Cheol Seong Hwang
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Inside cover
See Basab Bijayi Dhar *et al.*,
pp. 503–510.

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PERSPECTIVES

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Integration of metal–organic frameworks and clay toward functional composite materials

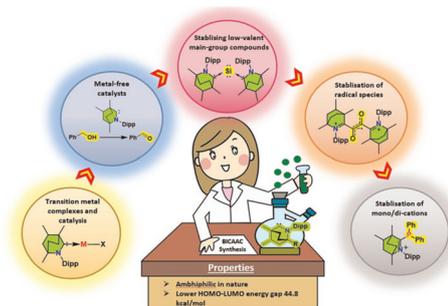
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Bicyclic (alkyl)(amino)carbenes (BICAACs): synthesis, characteristics, and applications

Ankita Sharma, Unnikrishnan Nair K and Subrata Kundu*



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Polyoxometalates as advanced-performance anions for $\sim D_{5h}$ Dy(III) single-ion magnets

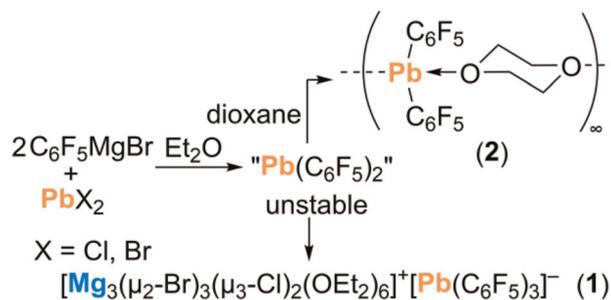
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Henry R. Brothers, Raju Chambenahalli, Gary S. Nichol, Jennifer A. Garden* and David M. Jenkins*

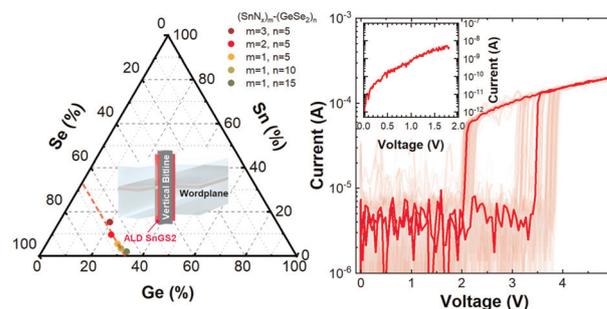


PAPERS

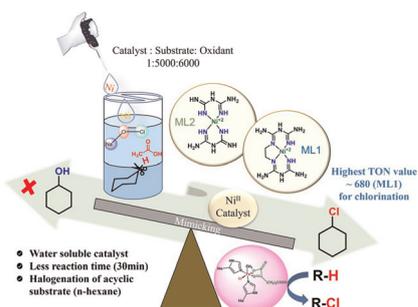
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Atomic layer deposition of Sn-doped germanium diselenide for an As-free Ovonic threshold switch with low off-current

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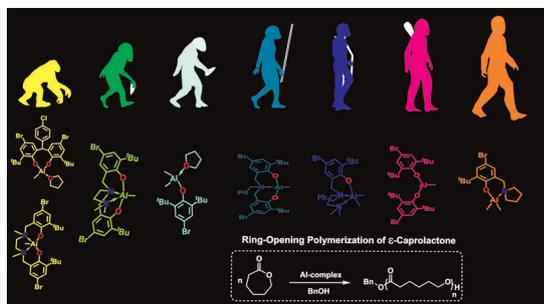
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C–H bond chlorination and bromination using water soluble nickel(II) guanidine complexes

Jaipriya Khatri, Vasanthapandiyani Mari, Aniruddha Sarkar, Naiwrit Karmodak and Basab Bijayi Dhar*

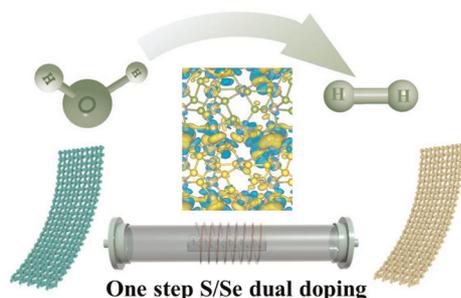
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Evolution of aluminum aminophenolate complexes in the ring-opening polymerization of ϵ -caprolactone: electronic and amino-chelating effects

Prasanna Kumar Ganta, Fei Huang, Taoufik Ben Halima, Rajiv Kamaraj, Yu-Ting Chu, Hsi-Ching Tseng, Shangwu Ding, Kuo-Hui Wu* and Hsuan-Ying Chen*

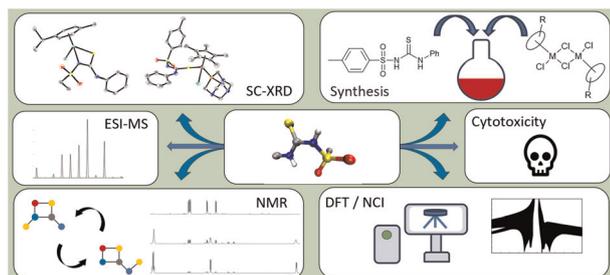
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Dual chalcogenide coordination engineering on a self-supported alloy electrode for enhanced hydrogen evolution reaction

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The coordination chemistry and anticancer activity of organo-ruthenium(II), -iridium(III) and -rhodium(III) complexes with sulfonyl-substituted thiourea ligands

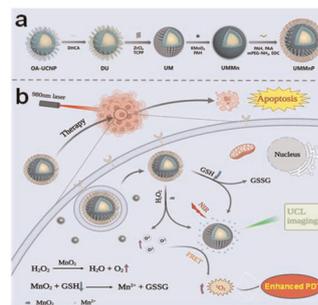
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Alleviating hypoxia by integrating MnO_2 with metal–organic frameworks coated upconversion nanocomposites for enhanced photodynamic therapy *in vitro*

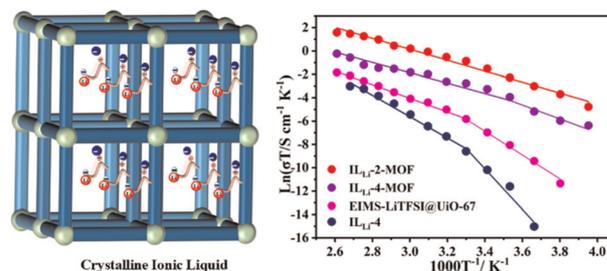
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An ionic-liquid functionalized metal–organic framework and its high performance as a solid electrolyte for lithium-ion conduction

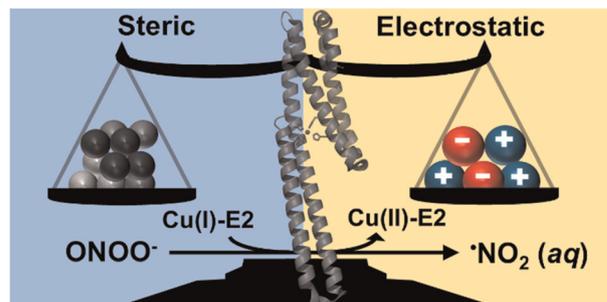
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Secondary sphere interactions modulate peroxy-nitrite scavenging by the E2 domain of amyloid precursor protein

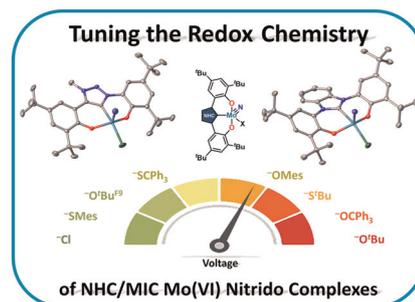
Eli C. Zuercher, Andrew T. Poore, Devendra Prajapat, Joseph Palazzo, Alana Thomas, Caitlin Birthright, Jack Lawrence, Ming Chen and Shiliang Tian*



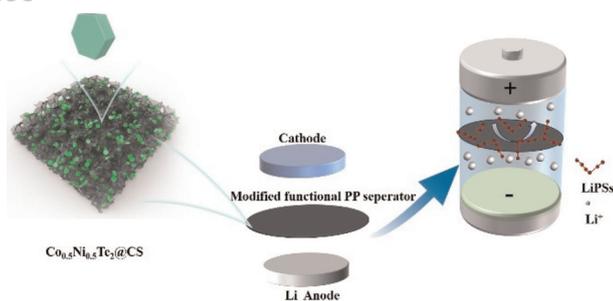
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Synthesis and electrochemical properties of molybdenum nitrido complexes supported by redox-active NHC and MIC ligands

Daniel Leitner, Florian R. Neururer and Stephan Hohloch*



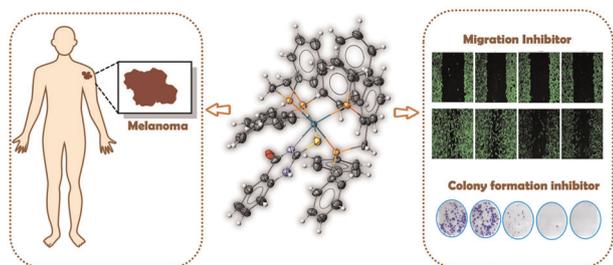
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LDH-derived Co_{0.5}Ni_{0.5}Te₂ dispersed in 3D carbon sheets as a separator modifier to enable kinetics-accelerated lithium–sulfur batteries

Chunmei Li, Kan Mi,* Kai Xu, Zhuo Jia, Xiaolei Jiang, Huili Peng, Xiuwen Zheng* and Hongjiao Nie*

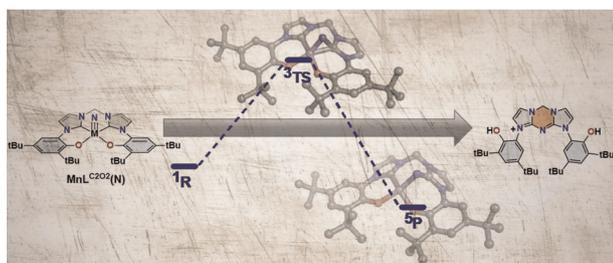
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Ru(II)-diphosphine/N,S-mercapto complexes and their anti-melanoma properties

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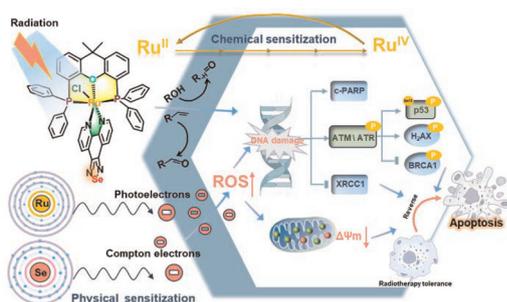
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Investigating the formation of metal nitride complexes employing a tetradentate bis-carbene bis-phenolate ligand

Romain Kunert, Diego Martelino, Samyadeb Mahato, Nicholas M. Hein, Jason Pulfer, Christian Philouze, Olivier Jarjays,* Fabrice Thomas* and Tim Storr*

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Selenium-containing metallodrug overcomes cervical cancer radioresistance through physical–chemical dual sensitization

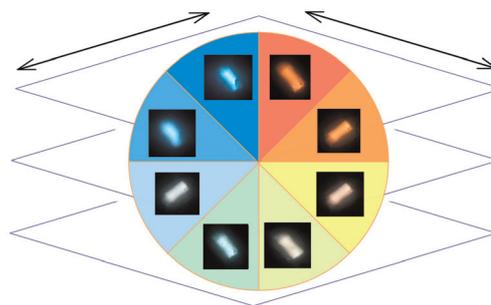
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Solvatomorphic phase transitions and tunable luminescence emission in lanthanide metal–organic frameworks

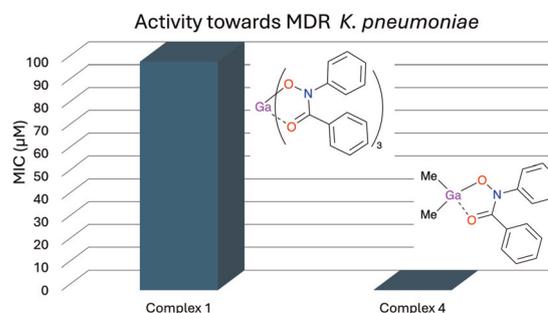
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Vladimir P. Fedin and Danil N. Dybtsev



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Highly selective organo-gallium hydroxamate mediated inhibition of antibiotic resistant *Klebsiella pneumoniae*

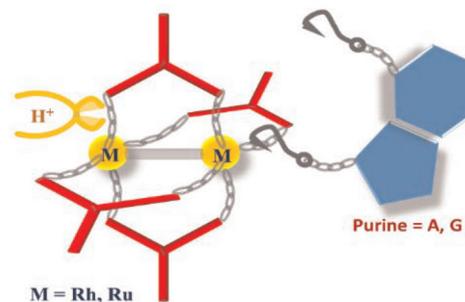
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Detailed mechanism of a DNA/RNA nucleobase substituting bridging ligand in diruthenium(II,III) and dirhodium(II,II) tetraacetato paddlewheel complexes: protonation of the leaving acetate is crucial

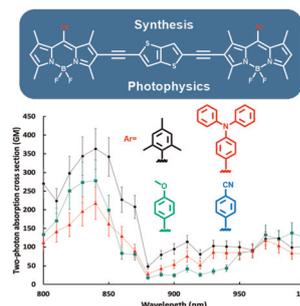
Ilgann Tolbatov, Tiziano Marzo, Paolo Umari, Diego La Mendola and Alessandro Marrone*



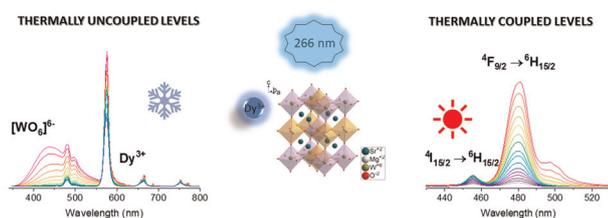
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Thieno[3,2-*b*]thiophene-based bridged BODIPY dimers: synthesis, electrochemistry, and one- and two-photon photophysical properties

Zhiyong Chai, Tingting Gu, Annaelle Beau,
Frédéric Bolze,* Claude P. Gros,* Xu Liang, Donghai Shi
and Haijun Xu*



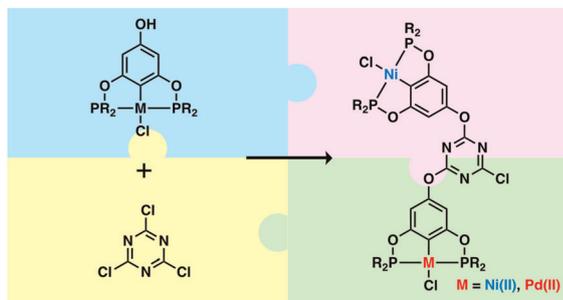
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A highly sensitive ratiometric optical thermometer based on a Sr_2MgWO_6 double perovskite doped with Dy^{3+} exploiting thermally coupled and uncoupled levels

Thi Hong Quan Vu,* Bartosz Bondzior, Dagmara Stefańska, Shovan Dan and Przemysław Jacek Dereń

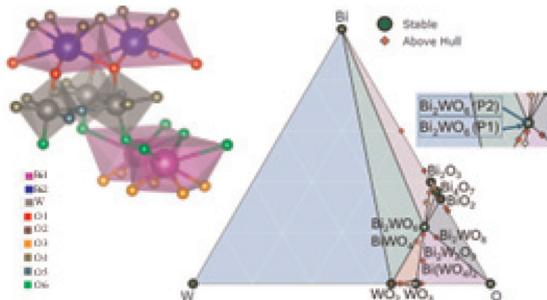
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Simple and easy functionalization of *para*-hydroxy POCOP-M ($\text{M} = \text{Ni(II)}, \text{Pd(II)}$) pincer complexes: synthesis of multimetallic species

Juan S. Serrano-García, Marco Antonio García-Eleno,* Antonino Arenaza-Corona, Ernesto Rufino-Felipe, Hugo Valdés, Simon Hernandez-Ortega and David Morales-Morales*

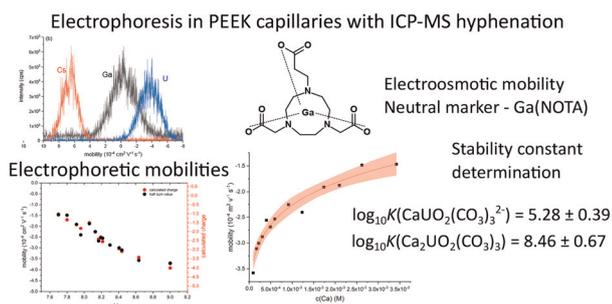
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Structural properties, thermodynamic stability and reaction pathways for solid-state synthesis of Bi_2WO_6 polymorphs

Hien Doan-Thi, Linh Tran-Phan-Thuy, Hai Pham-Van* and Hoang Luc-Huy

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Study of $\text{Ca}_n\text{UO}_2(\text{CO}_3)_3^{(4-2n)-}$ complexes using CE-ICP-MS with polyetheretherketone (PEEK) capillaries

Ruopei Sun, Erwan Dupuis, Jean Aupiais and Pascal E. Reiller*

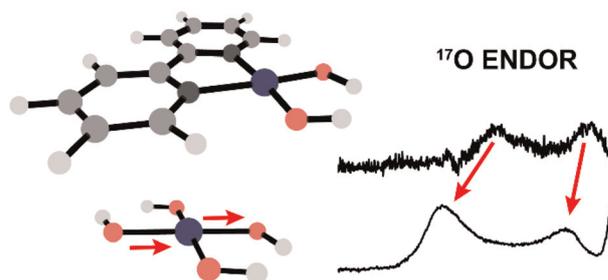


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Distinguishing between aquo and hydroxo coordination in molecular copper complexes by ^1H and ^{17}O ENDOR spectroscopy

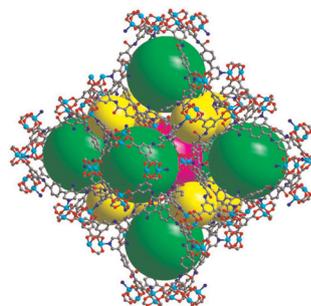
Julia Haak and George E. Cutsail III*



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Highly efficient CO_2 capture and chemical fixation of a microporous (3, 36)-connected *txt*-type $\text{Cu}(\text{II})$ -MOF with multifunctional sites

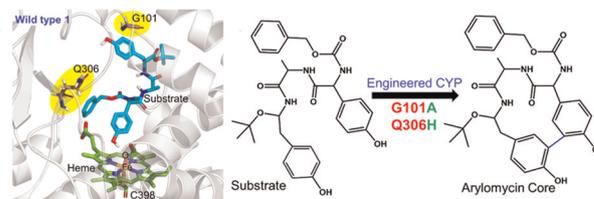
Wenyu Dong, Zhaoxu Wang,* Zuxian Cai, Yiqiang Deng,* Guanyu Wang and Baishu Zheng*



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Structural and mechanistic insights into oxidative biaryl coupling to form the arylomycin core by an engineered CYP450

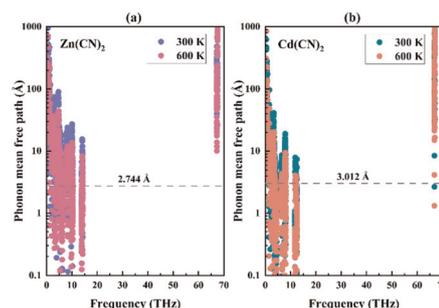
Vandana Kardam, Vaibhav Bhatt and Kshatresh Dutta Dubey*



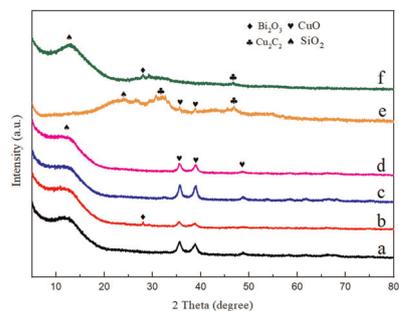
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Anharmonicity and lattice thermal conductivity of negative thermal expansion materials $\text{Zn}(\text{CN})_2$ and $\text{Cd}(\text{CN})_2$ by first-principles calculations

Ya-Ning Sun, Lei Wang* and Cong Wang*



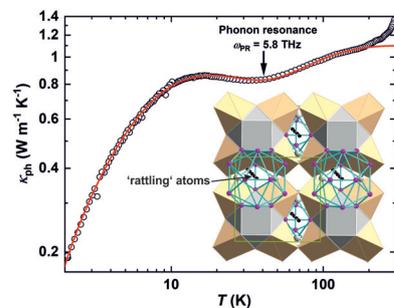
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The preparation of CuM/SiO₂ (M = Bi, Mg, Mn) catalysts applied in ethynylation of formaldehyde for 1,4-butyndiol synthesis: the positive interface effect of CuO and Bi₂O₃

Jiali Chen, Guihua Yang,* Feng Gao and Rui Wang

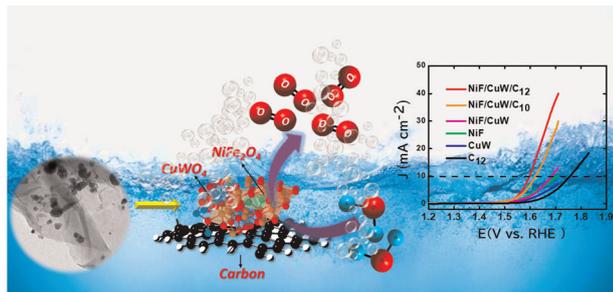
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Yb₅Rh₆Sn₁₈: a valence fluctuating system with ultra-low thermal conductivity

Oleksandr Bolielyi, Volodymyr Levytskyi, Jörg Wagler, Kristina O. Kvashnina, Bohdan Kundys, Andreas Leithe-Jasper and Roman Gumeniuk*

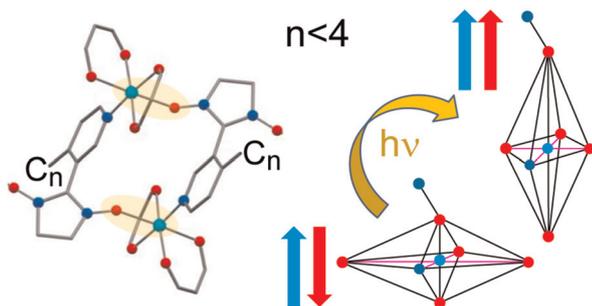
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An oxycarbide-derived-carbon supported nickel ferrite/copper tungstate ternary composite for enhanced electrocatalytic activity towards the oxygen evolution reaction

Kumar Sanket, Uttam Kumar, Indrajit Sinha* and Shantanu K. Behera*

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Light-induced spin-state switching in heterospin complexes of Cu(hfac)₂ with pyridine-based nitroxides

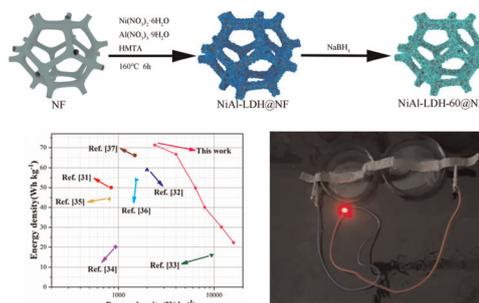
Konstantin V. Zaitsev, Svyatoslav E. Tolstikov, Artem S. Bogomyakov, Sergey L. Veber, Renad Z. Sagdeev and Matvey V. Fedin*



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Fabrication of oxygen-vacancy abundant NiAl-layered double hydroxides for ultrahigh capacity supercapacitors

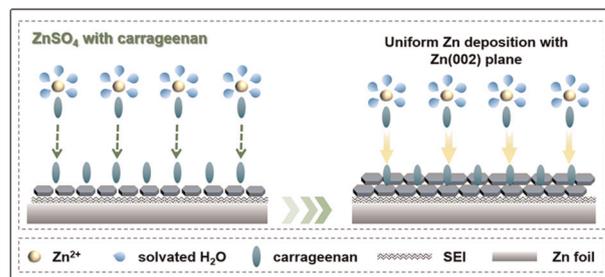
Ziyu Wang, Yifan Song, Ruiqi Li, Risheng Li, Rungping Jia, Kunliang Nie,* Haijiao Xie, Xiaowei Xu* and Lin Lin*



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A carrageenan-induced highly stable Zn anode by regulating interface chemistry

Yan Xu,* Zhaohe Guo, Xuena Xu, Liluo Shi, Xueyao Mo, Lu Li, Limei Sun, Hongri Wan* and Ming Song*

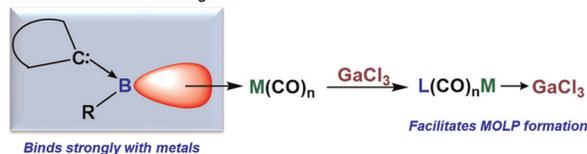


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Binding of base-stabilized borylenes with transition metals and formation of metal only Lewis pairs

Barsha Chakraborty, Raj Rishi Hazarika, Holger Braunschweig* and Ashwini K. Phukan*

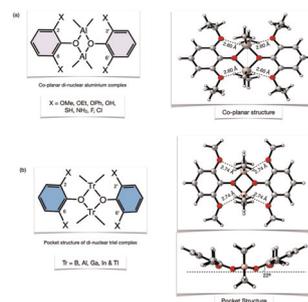
Base-stabilized borylene (L) – an alternative for conventional electron donor ligands



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The curious case of co-planarity in di-nuclear triel complexes: a density functional investigation

Mayank Khera and Neetu Goel*



CORRECTION

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Correction: Construction of efficient Pb(II) carboxylate catalysts for the oxygen and hydrogen evolution reactions

Janak, Vijay S. Sapner, Bhaskar R. Sathe* and Sadhika Khullar*

