

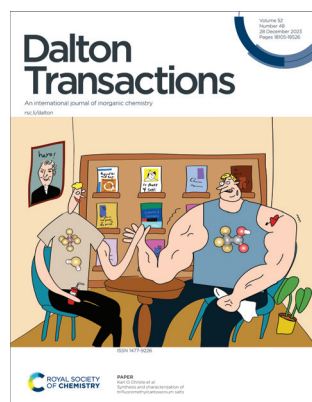
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pp. 18143–18147.

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See Phimphaka Harding,
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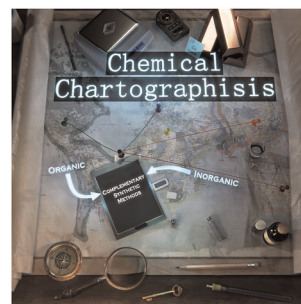
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PERSPECTIVE

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Chemical Chartography: a contemporary perspective in molecular design and synthesis

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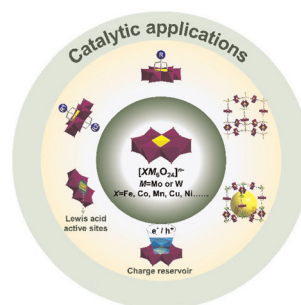


FRONTIER

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Anderson-type polyoxometalates for catalytic applications

Ai-Juan Li, Sheng-Li Huang* and Guo-Yu Yang*



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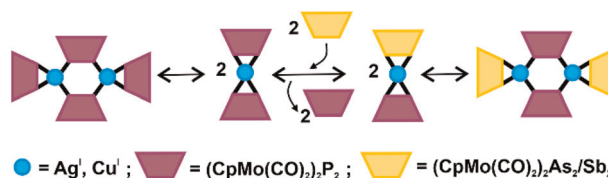


COMMUNICATION

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Novel synthetic route towards heteroleptic pnictogen-rich organometallic–inorganic coordination compounds

Pavel A. Shelyganov, Mehdi Elsayed Moussa, Michael Seidl, Lisa Zimmermann, Wagner Menezes da Silva and Manfred Scheer*

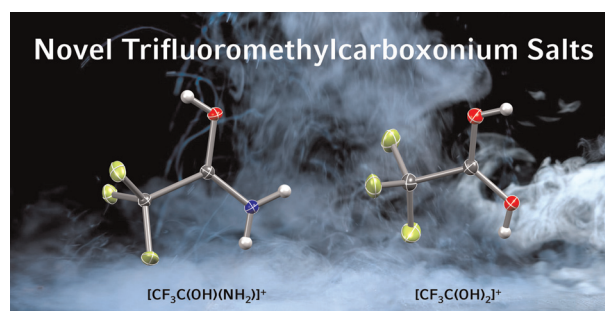


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Synthesis and characterization of trifluoromethylcarboxonium salts

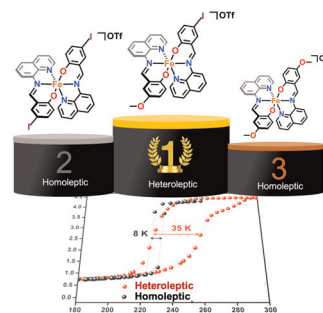
Thomas Saal, Ralf Haiges and Karl O Christe*



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Improving spin crossover characteristics in heteroleptic [Fe^{III}(qsal-5-I)(qsal-5-OMe)]A complexes

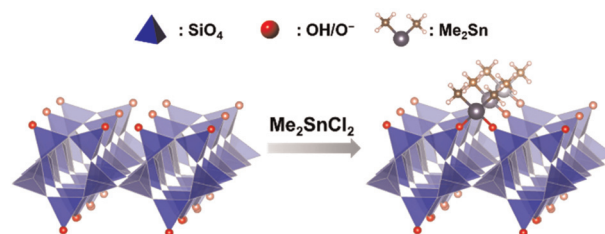
Raúl Díaz-Torres, Silvia Gómez-Coca, Eliseo Ruiz, Phimphaka Harding* and David J. Harding*



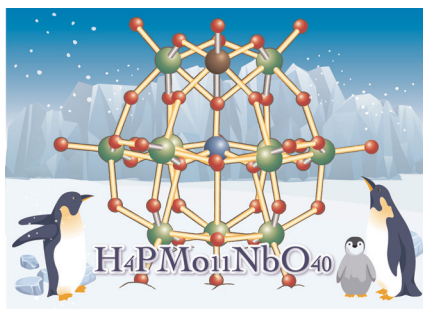
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Immobilization of isolated dimethyltin species on crystalline silicates through surface modification of layered octosilicate

Masashi Yatomi, Takuya Hikino, Seiji Yamazoe, Kazuyuki Kuroda and Atsushi Shimojima*



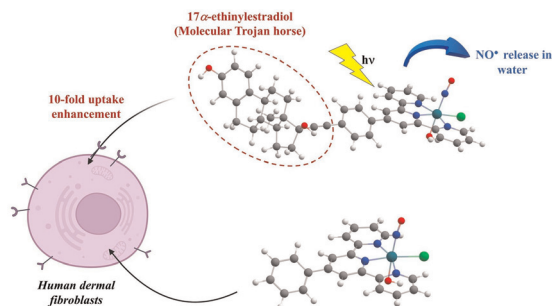
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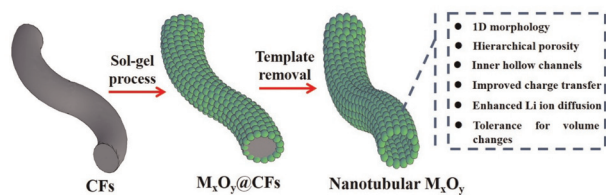
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A Trojan horse approach for enhancing the cellular uptake of a ruthenium nitrosyl complex

Pablo Labra-Vázquez,* Erika Rocha, Yue Xiao, Marine Tassé, Carine Duhayon, Norberto Farfán,* Rosa Santillan, Laure Gibot, Pascal G. Lacroix and Isabelle Malfant*

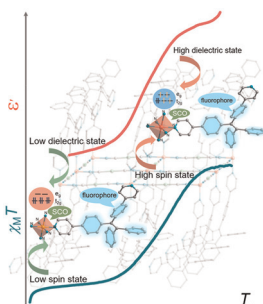
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Nanotubular Fe₂O₃ and Mn₃O₄ with hierarchical porosity as high-performance anode materials for lithium-ion batteries

Zhen Li,* Man Yang, Fengting Geng, Dashuai Zhang, Yongzheng Zhang, Xiuling Zhang, Xuliang Pang* and Longlong Geng*

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Simultaneous magneto-dielectric transitions in a fluorescent Hofmann-type coordination polymer

Fei-Fei Yan, Dan Liu, Rui Cai, Liang Zhao, Pan-Dong Mao, Hui-Ying Sun, Yin-Shan Meng* and Tao Liu*

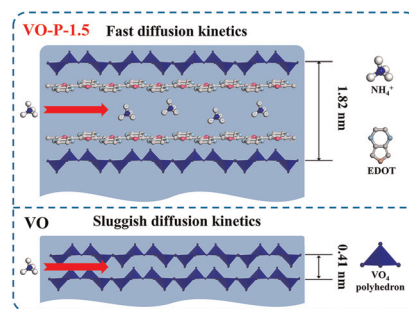


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Ultra-expanded interlayer spacing of vanadium oxide nanowires intercalated with poly(3,4-ethylene dioxythiophene) in organic ammonium ion batteries

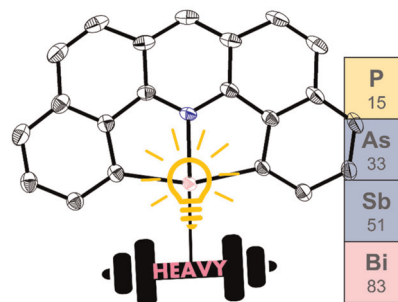
Haode Zhang, Shan Hu, Xinlei Tang, Yu Tian, Jiawen Zhao, Haohao Sun, Zelang Jian and Wen Chen*



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Enhanced luminescence properties through heavy ancillary ligands in [Pt(C^{^N}^C)(L)] complexes, L = AsPh₃ and SbPh₃

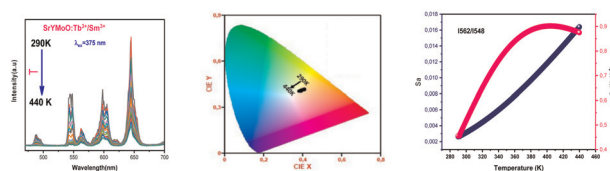
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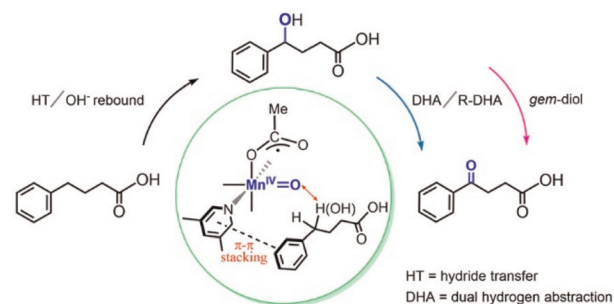
Ikhlas Kachou, Mohamed Dammak,* Sandy Auguste, Frederic Amiard and Philippe Daniel



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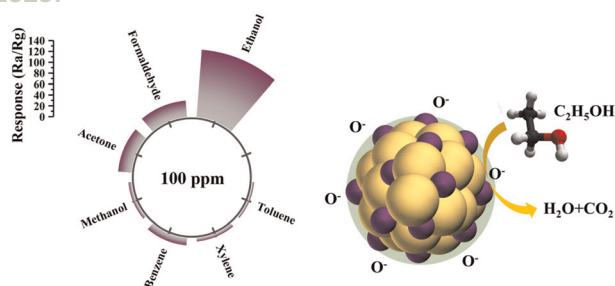
The elusive reaction mechanism of Mn(II)-mediated benzylic oxidation of alkylarene by H₂O₂: a gem-diol mechanism or a dual hydrogen abstraction mechanism?

Shoujun Wang, Dongru Sun,* Zhimin Wu, Yufen Zhao and Yong Wang*



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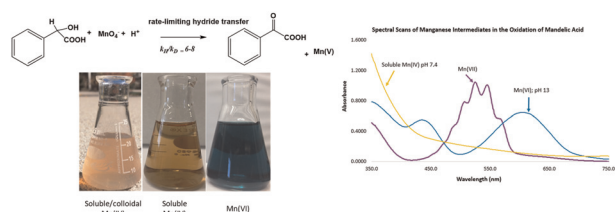
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Hydrothermal synthesis of a bimetallic metal-organic framework (MOF)-derived $\text{Co}_3\text{O}_4/\text{SnO}_2$ composite as an effective material for ethanol detection

Yang Mu, Zhenkai Zhang, Zhiguo Yang, Chen Yue, Zhenyue Liu, Davoud Dastan, Xi-Tao Yin* and Xiaoguang Ma*

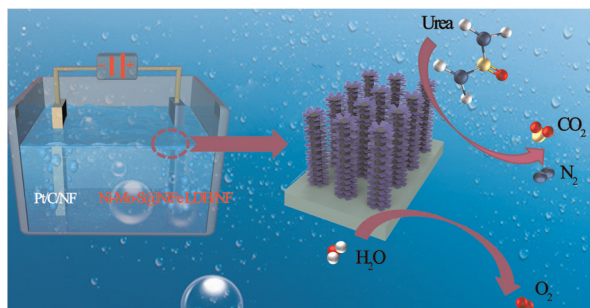
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Pathways in permanganate oxidation of mandelic acid: reactivity and selectivity of intermediate manganese species

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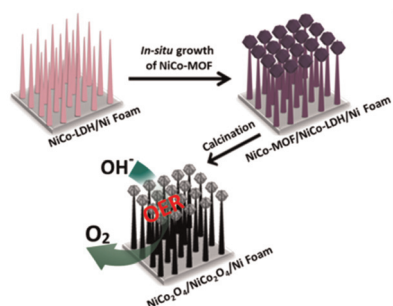
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1D/2D core-shell structure Ni-Mo-S@NiFe LDH grown on nickel foam: a bifunctional electrocatalyst for efficient oxygen evolution and urea oxidation reactions

Tengfei Zhang, Dan Xu, Ping Liu, Huan Liu, Long Chen, Tiantian Gu, Feng Yu, Yanyan Liu* and Gang Wang*

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In situ growth of NiCo-MOF and the derived $\text{NiCo}_2\text{O}_4/\text{NiCo}_2\text{O}_4/\text{Ni}$ foam composite with a wire-penetrated-cage hierarchical architecture for an efficient oxygen evolution reaction

Xianchun Liu and Yan Xing*

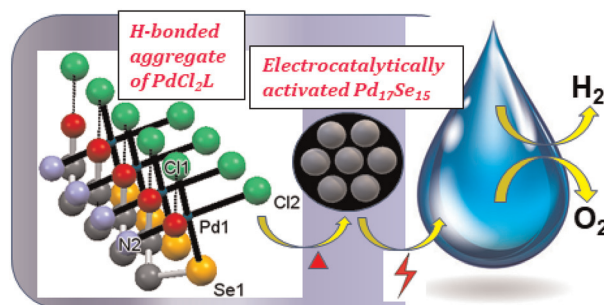


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Hydrogen-bonded linear chain assemblies of palladium(II)-selenoether complexes: solid state aggregates as templates for nano-structural Pd₁₇Se₁₅ leading to efficient electrocatalytic activity

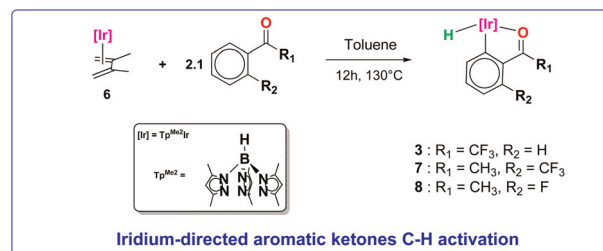
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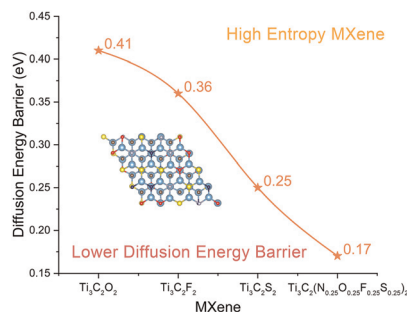
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First-principles calculation on the lithium storage properties of high-entropy MXene Ti₃C₂(N_{0.25}O_{0.25}F_{0.25}S_{0.25})₂

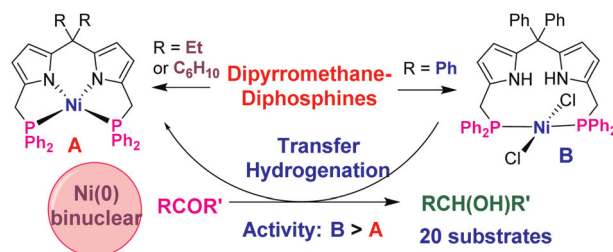
Kechen Li, Pengju Hao, Qian Zhang,* Jianbo Zhang, Sydorov Dmytro and Yang Zhou*



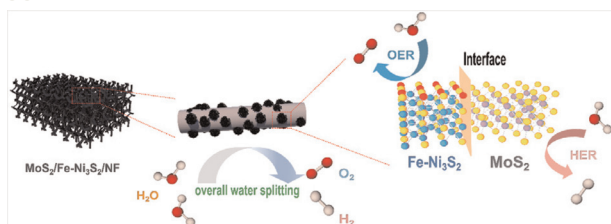
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Dipyrromethane–diphosphine: the effect of meso substituents on the formation of nickel complexes and on their performance in the transfer hydrogenation of ketones

Rohit Gupta, Ashok Kumar and Ganesan Mani*



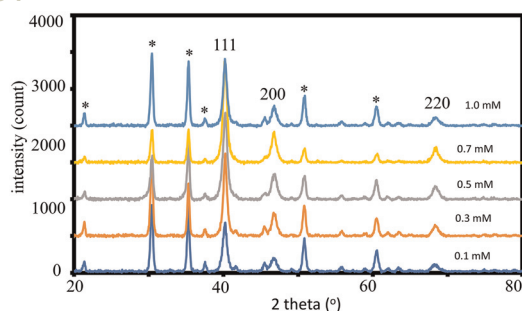
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Ni(OH)₂-derived lamellar MoS₂/Ni₃S₂/NF with Fe-doped heterojunction catalysts for efficient overall water splitting

Minghao Dou, Mengjie Yao, Kai Ding, Yuye Cheng, Hongyu Shao, Shenjie Li* and Yanyan Chen*

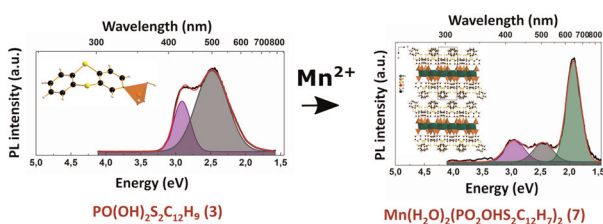
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Iridium–palladium binary alloy as a counter electrode in dye-sensitized solar cells

N. A. S. Aziz, M. Y. A. Rahman,* A. A. Umar and E. R. Mawarnis

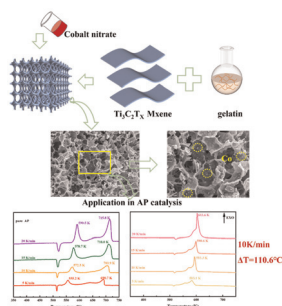
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A new series of magnetic and luminescent layered hybrid materials obtained from thianthrene phosphonic acid: M(H₂O)₃PO₃-S₂C₁₂H₇ (M = Cu, Zn) and M(H₂O)₂(PO₂OH-S₂C₁₂H₇)₂ (M = Mn, Co)

Geoffrey Letheux, Parameshwari Ganesan, Fabien Veillon, Julien Varignon, Olivier Perez, Julien Cardin, Christophe Labbé, Guillaume Rogez, Mathilde Ligeour, Paul-Alain Jaffrès* and Jean-Michel Rueff*

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Gelatin-modified MXene carbon aerogels for ammonium-perchlorate-catalyzed thermal decomposition

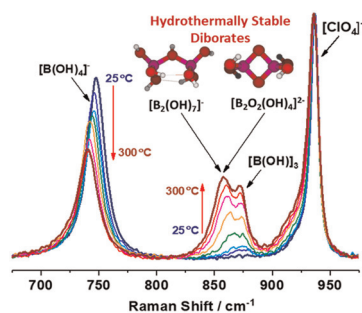
Yujie Yan, Bo Jin* and Rufang Peng



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A Raman spectroscopic and *ab initio* investigation of aqueous boron speciation under alkaline hydrothermal conditions: evidence for the structure and thermodynamic stability of the diborate ion

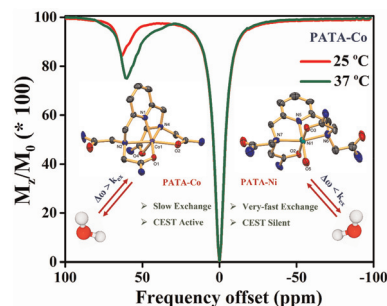
Swaroop Sasidharanpillai, Jenny S. Cox, Cory C. Pye and Peter R. Tremaine*



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Study of paraCEST response on six-coordinated Co(II) and Ni(II) complexes of a pyridine-tetraamide-based ligand

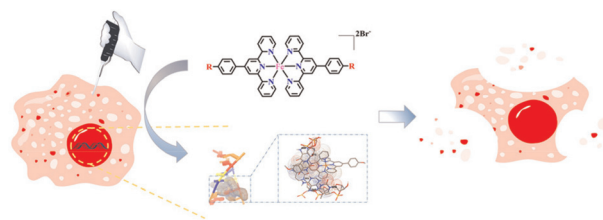
Suvam Kumar Panda, Ankit Rai and Akhilesh Kumar Singh*



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Fe(II) complexes of 2,2':6',2''-terpyridine ligands functionalized with substituted-phenyl groups: synthesis, crystal structures and anticancer potential

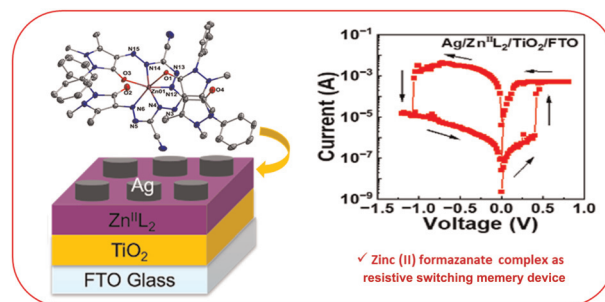
Dameng Sun, Xin Huang, Ruojun Man, Xinjie Jia, Xinluan Song, Sihan Wang, Xingyong Xue,* Hongming Liu* and Zhen Ma*



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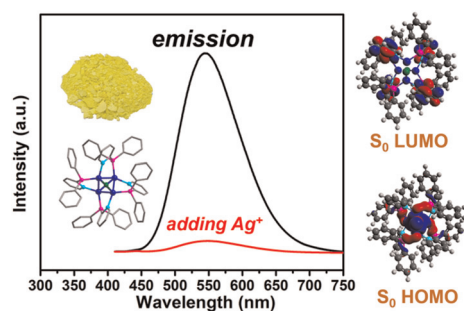
Design and synthesis of a solution-processed redox-active bis(formazanate) zinc complex for resistive switching applications

Sunita Birara, Shalu Saini, Moumita Majumder,* Prem Lama, Shree Prakash Tiwari* and Ramesh K. Metre*



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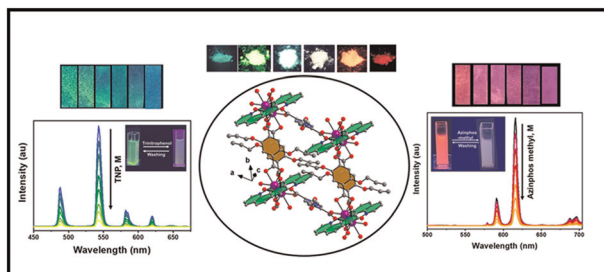
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Large-scale synthesis, mechanism, and application of a luminescent copper hydride nanocluster

Tingting Xu, Endong Wang, Shuai Liu, Zhezhen Wei, Peiqun Yin, Jianan Sun, Wen Wu Xu* and Yongbo Song*

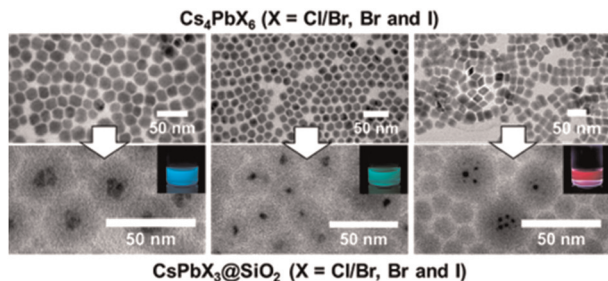
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Turn-off luminescence sensing, white light emission and magnetic studies of two-dimensional lanthanide MOFs

Krishna Manna, Jean-Pascal Sutter* and Srinivasan Natarajan*

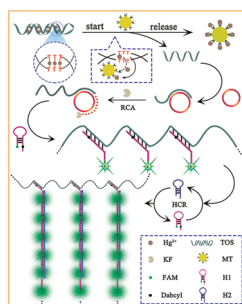
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Water-assisted synthesis of stable and multicolored CsPbX₃@SiO₂ core-shell nanoparticles as fluorescent probes for biosensing

Cynthia Collantes, William Teixeira, Victoria González-Pedro,* María-José Bañuls, Pedro Quintero-Campos, Sergi Morais and Ángel Maquieira

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A metal ion-coordinated DNA probe for sensitive fluorescence detection of metallothionein via a dual nucleic acid amplification strategy

Zihao Yin, Shunmei Li, Xiaojun Liu, Ruo Yuan and Yun Xiang*

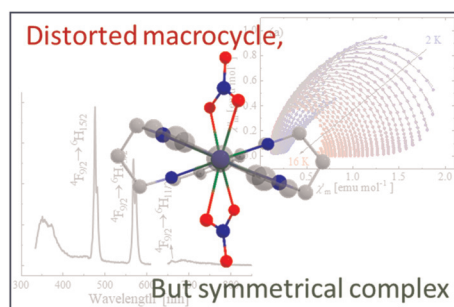


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Influence of symmetry on the magneto-optical properties of a bifunctional macrocyclic Dy^{III} complex

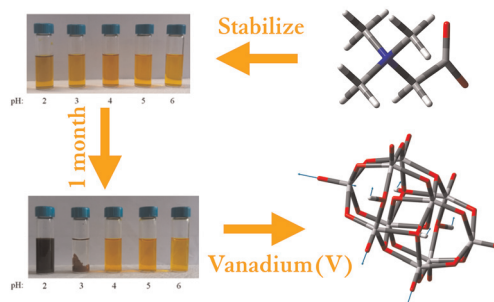
Yolimar Gil,* Ricardo Costa de Santana, Andrés Vega, Daniel Aravena* and Evgenia Spodine



18489

Betaine mediated enhancement of thermal stability and acidity tolerance of vanadium(v) solutions

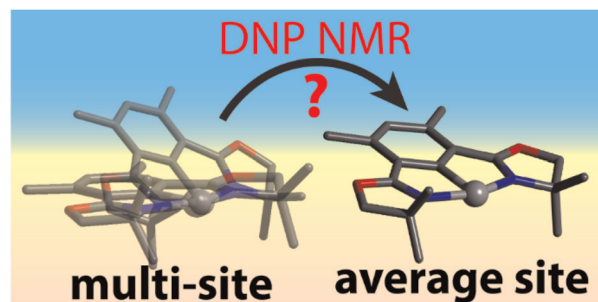
Luca Guglielmo,* Andrea Mezzetta, Felicia D'Andrea, Lorenzo Guazzelli and Christian Silvio Pomelli*



18502

On the use of NMR distance measurements for assessing surface site homogeneity

Frédéric A. Perras* and Damien B. Culver



18513

Trigonal prismatic coordination geometry imparted by a macrocyclic ligand: an approach to large axial magnetic anisotropy for Co(II)

Eva Zahradníková, Jean-Pascal Sutter,* Petr Halaš and Bohuslav Drahoš*

