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See Warren E. Piers *et al.*,
pp. 7273–7281.

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Inside cover

See Jim A. Thomas *et al.*,
pp. 7282–7291.

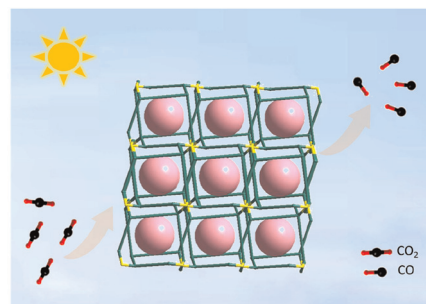
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COMMUNICATIONS

7257

A reduced polyoxometalate-encapsulated organo cobalt modified phosphate framework for improving photocatalytic reduction of CO₂

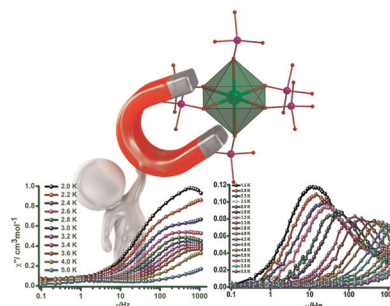
Yinhua Zhu, Pinfang Yan, Lingtong Xu, Zeyu Du,
Hua Mei* and Yan Xu*



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Magnetic anisotropy in octahedral Dy(III) and Yb(III) complexes

Aditya Borah, Sourav Dey, Kehkasha Siddiqui,
Sandeep K. Gupta, Gopalan Rajaraman* and
Ramaswamy Murugavel*



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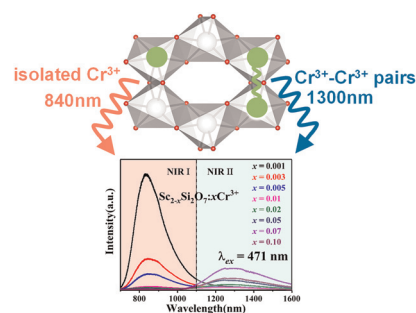


COMMUNICATIONS

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Origin of the Cr³⁺ concentration-dependent broad-band near-infrared emission in Sc₂Si₂O₇

Siyuan Xie, Boxin Ma, Dawei Wen, Qingguang Zeng, Yue Guo* and Ting Yu*

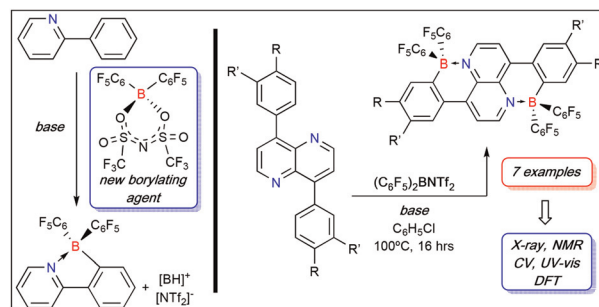


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Direct C–H electrophilic borylation with (C₆F₅)₂B–NTf₂ to generate B–N dibenzo[*a,h*]pyrenes

Tony Nguyen, Jason L. Dutton, Chia Yun Chang, Wen Zhou and Warren E. Piers*



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Iridium(III)-based minor groove binding complexes as DNA photocleavage agents

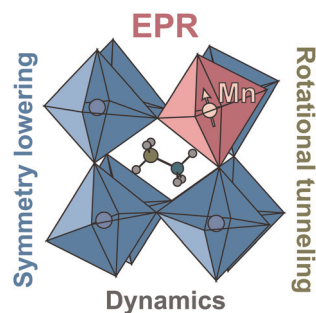
Stephen O. Aderinto, Torsten John, Abdulmujeeb Onawole, Raphael Peter Galleh and Jim A. Thomas*



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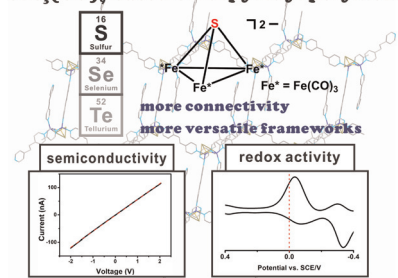
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Gediminas Usevičius, Justinas Turčak, Yuxuan Zhang, Andrea Eggeling, Žyginta Einorytė, Michael Allan Hope, Šarūnas Svirskas, Daniel Klose, Vidmantas Kalendra, Kestutis Aidis, Gunnar Jeschke, Jūras Banys and Mantas Šimėnas*



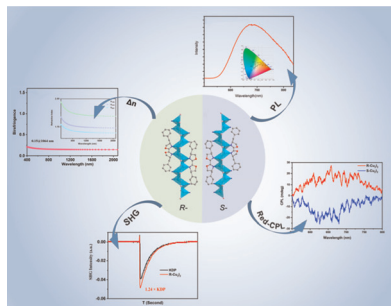
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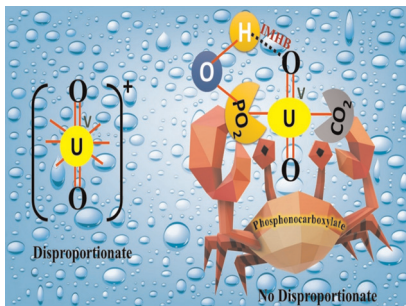
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**1D Cu(I)-based chiral organic–inorganic hybrid material with second harmonic generation and circular polarized luminescence**

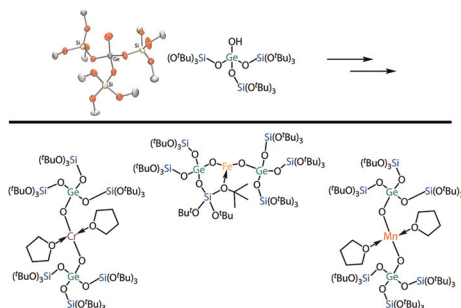
Zhi-Yuan Wu, Mu-Xin Yu, Zi-Qing Zhang, Jia-Xin Jiang, Ting Liu, Fei-Long Jiang, Lian Chen* and Mao-Chun Hong

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**Unusual redox stability of pentavalent uranium with hetero-bifunctional phosphonocarboxylate: insight into aqueous speciation**

Ashutosh Srivastava,* Sk. Musharaf Ali,* Rama Mohan Rao Dumpala, Sumit Kumar, Pranaw Kumar, Neetika Rawat and P. K. Mohapatra

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**M–Ge–Si thermolytic molecular precursors and models for germanium-doped transition metal sites on silica**

James P. Dombrowski, Vidmantas Kalendra, Micah S. Ziegler, K. V. Lakshmi, Alexis T. Bell and T. Don Tilley*

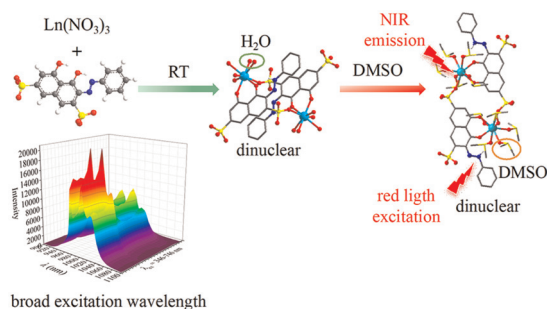


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Lanthanide complexes with an azo-dye chromophore ligand: syntheses, crystal structures, and near-infrared luminescence by long-wavelength excitation

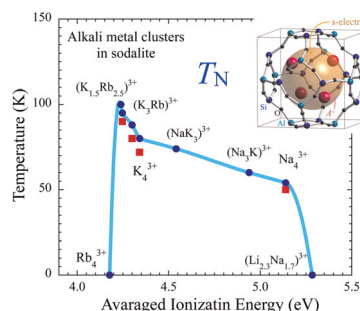
Yun-Long Chen, Min Feng,* Xiaofei Zhu* and Zhiping Zheng*



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Antiferromagnetism and insulator-metal transition of alkali metal-loaded sodalite

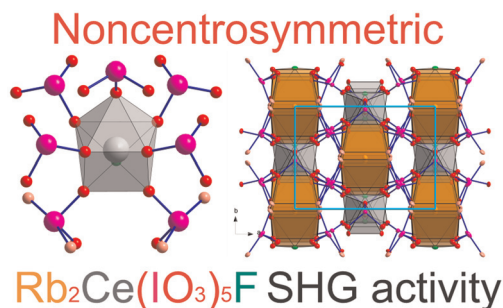
Takehito Nakano,* Kunihiro Watanabe, Atsufumi Hanazawa, Yuko Ishida, Kenji Tanibe and Ryosuke Sakon



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New iodate fluoride $\text{Rb}_2\text{Ce}(\text{IO}_3)_5\text{F}$ with nonlinear optical properties

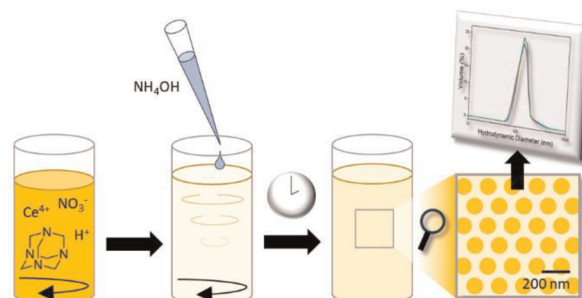
Oksana P. Grigorieva, Tatiana B. Shatalova, Alexey N. Kuznetsov, Peter S. Berdonosov,* Sergey Yu. Stefanovich, Konstantin A. Lyssenko and Valery A. Dolgikh



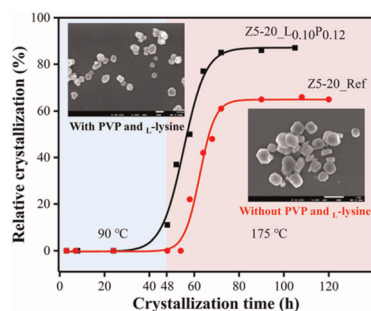
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Preparation of monodisperse cerium oxide particle suspensions from a tetravalent precursor

Ashley M. Hastings, Susana Herrera, Sharee Harris, Tashi Parsons-Davis, Andrew J. Pascall and Jennifer A. Shusterman*



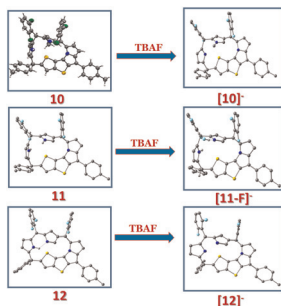
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Nonionic polymer and amino acid-assisted synthesis of ZSM-5 nanocrystals and their catalytic application in the alkylation of 2-methylnaphthalene

Junling Zhan, Ying Wang, Tengfei He, Luyang Sheng, Banghao Wu, Qun Liu, Mingjun Jia* and Yu Zhang*

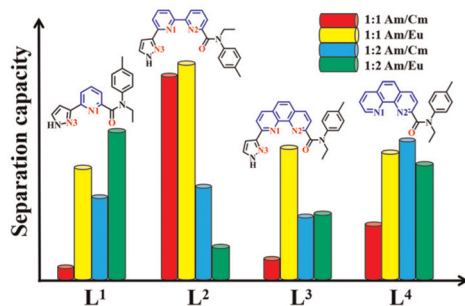
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Rational and controllable syntheses of variants of modified N-confused N-fused porphodimethenes and a porphotrimethene with adaptive properties

Manik Jana, Sumit Sahoo, Sanjay Kottekad, Dandamudi Usharani* and Harapriya Rath*

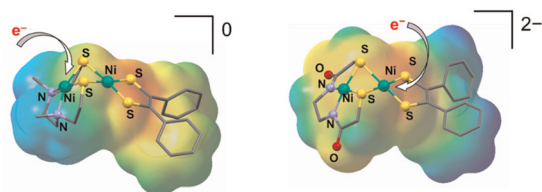
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Theoretical insights into selective extraction of Am(III) from Cm(III) and Eu(III) with asymmetric N-heterocyclic ligands

Yan-Mei Chen, Cong-Zhi Wang,* Lei Zhang, Qun-Yan Wu, Jian-Hui Lan, Zhi-Fang Chai and Wei-Qun Shi*

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Site Specific Redox Properties in Differentiated Bimetallic Nickel Complexes

Site specific redox properties in ligand differentiated di-nickel complexes inspired by the acetyl CoA synthase active site

Manuel Quiroz, Manish Jana, Kaiyang Liu, Nattamai Bhuvanesh, Michael B. Hall and Marcetta Y. Darensbourg*

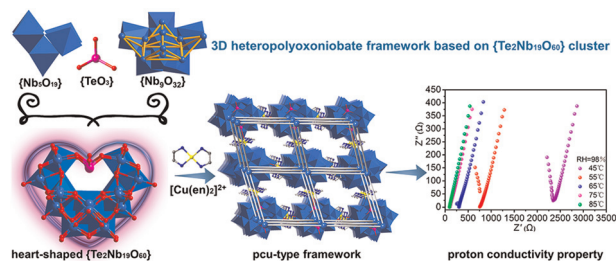


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A 3D heteropolyoxoniobate framework based on heart-shaped $\{\text{Te}_2\text{Nb}_{19}\text{O}_{60}\}$ clusters with proton conductivity property

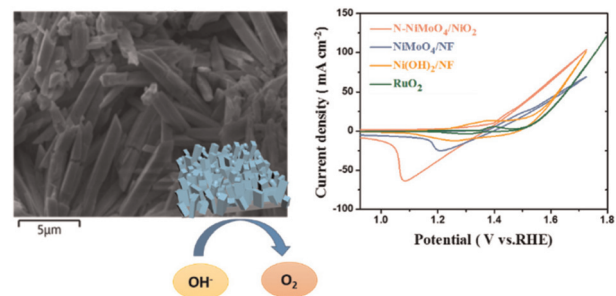
Ping-Xin Wu, Yue Han, Yu-Jin Lin, Yan-Qiong Sun* and Shou-Tian Zheng*



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A stable N-doped $\text{NiMoO}_4/\text{NiO}_2$ electrocatalyst for efficient oxygen evolution reaction

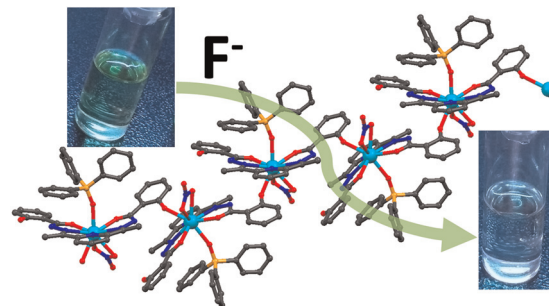
Zhengfang Hou, Fangyuan Fan, Zhe Wang and Yeshuang Du*



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Selective fluoride sensing by a novel series of lanthanide-based one-dimensional coordination polymers through intramolecular proton transfer

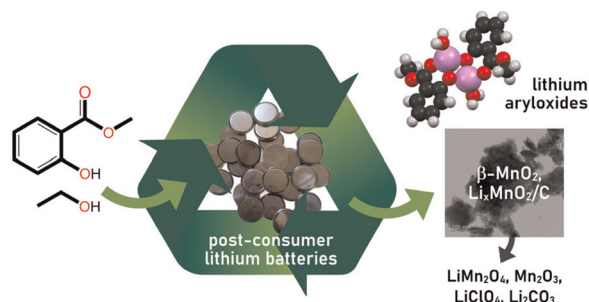
Vaibhav Singh, Lakshmi Thachanadan Suresh, Jean-Pascal Sutter* and Arun Kumar Bar*



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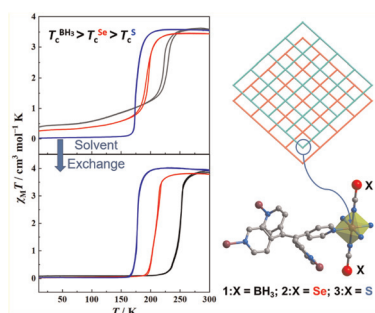
Recycling primary lithium batteries using a coordination chemistry approach: recovery of lithium and manganese residues in the form of industrially important materials

Rafał Petrus,* Adrian Kowaliński and Tadeusz Lis



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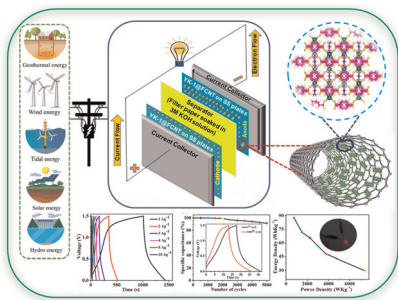
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Two-dimensional spin-crossover coordination polymers based on the 1,1,2,2-tetra(pyridin-4-yl) ethene ligand

Meng-Ling Wu, Yan-Cong Chen, Ze-Yu Ruan, Zhao-Ping Ni, Si-Guo Wu* and Ming-Liang Tong*

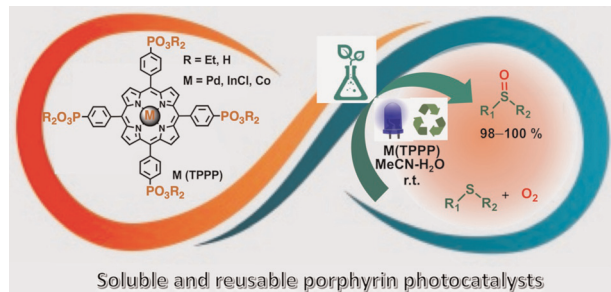
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Facile synthesis of a three-dimensional Ln-MOF@FCNT composite for the fabrication of a symmetric supercapacitor device with ultra-high energy density: overcoming the energy storage barrier

Mohammad Yasir Khan, Ahmad Husain, Dhiraj K. Mahajan, Mohammad Muaz, M. Shahid,* Mohd Zeeshan, Farasha Sama and Sharique Ahmad

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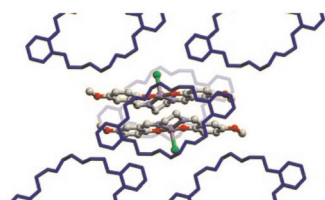


Phosphonate-substituted porphyrins as efficient, cost-effective and reusable photocatalysts

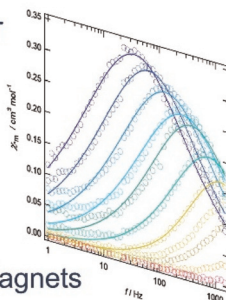
Azhar Kechiche, Shaymaa Al Shehimi, Lhoussain Khrouz, Cyrille Monnereau,* Christophe Bucher, Stephane Parola, Alla Bessmertnykh-Lemeune,* Yoann Rousselin, Andrey V. Cheprakov and Habib Nasri

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Supramolecular Strategy for



Single Molecule Magnets



Unlocking single molecule magnetism: a supramolecular strategy for isolating neutral Mn^{III} salen-type dimer in crystalline environments

Yuri Kyoya, Kiyonori Takahashi,* Wataru Kosaka, Rui-Kang Huang, Chen Xue, Jia-bing Wu, Hitoshi Miyasaka and Takayoshi Nakamura*

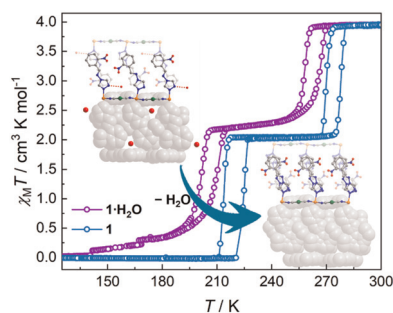


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Guest water-induced structural transformation and spin-crossover variation of a two-dimensional Hofmann-type compound

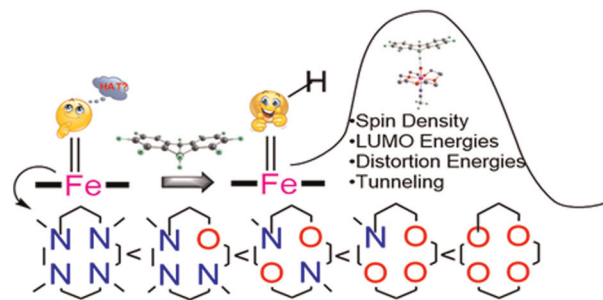
Zhi-Kun Liu, Ke Sun, Jin-Peng Xue, Zi-Shuo Yao* and Jun Tao*



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A density functional theory analysis of the C–H activation reactivity of iron(IV)-oxo complexes with an 'O' substituted tetramethylcyclam macrocycle

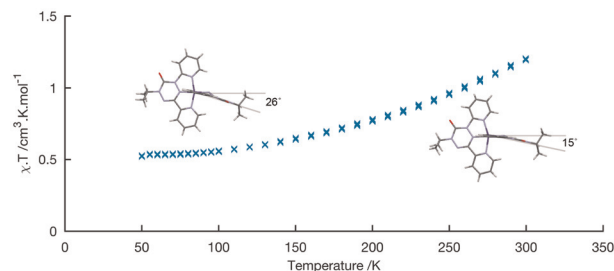
Lovleen Kaur and Debasish Mandal*



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Spectroscopic and thermodynamic characterization of a cobalt-verdazyl valence tautomeric system. influence of crystal structure, solvent and counterion

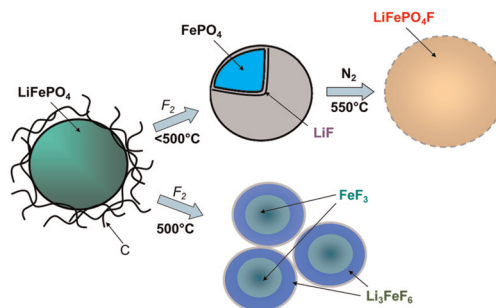
David J. R. Brook,* Jeffrey DaRos, Aamani Ponnekanti, Stefano Agrestini and Eric Pellegrin



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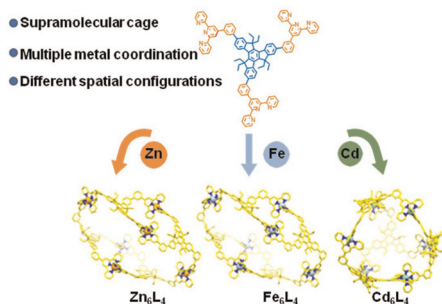
Insertion of fluorine into a LiFePO₄ electrode material by gas–solid fluorination

Lemoine Kevin,* Kenmogne-Debah Roméo, Doubtsof Léa, Frezet Lawrence, Petit Elodie, Guerin Katia, Devouard Bertrand, Sougrati Moulay-Tahar, Delbègue Diane and Bonnet Pierre*



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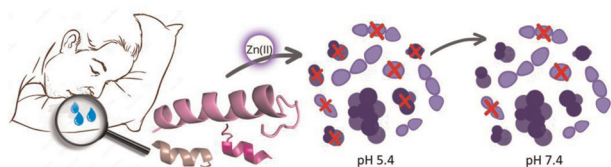
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Metal-ion-determined geometrical configurations of metallo-cages with different emission properties

Zirui Zhai, Qixia Bai, Yu-Ming Guan, He Zhao, Tun Wu, Jingxian Pang, Haoxuan Xu, Ting-Zheng Xie, Zhe Zhang* and Pingshan Wang*

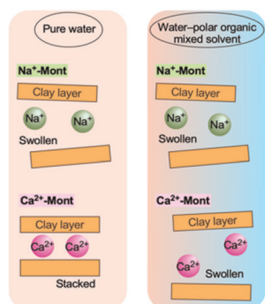
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Impact of metal coordination and pH on the antimicrobial activity of histatin 5 and the products of its hydrolysis

Emilia Dzień, Joanna Wąty,* Arian Kola, Aleksandra Mikołajczyk, Adriana Miller, Agnieszka Matera-Witkiewicz, Daniela Valensin and Magdalena Rowińska-Żyrek*

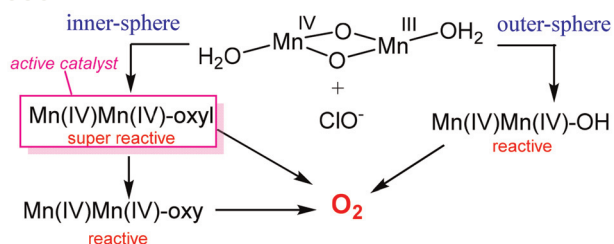
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Swelling and delamination of inorganic homoionic montmorillonite clay in water-polar organic mixed solvents

Teruyuki Nakato,* Munehiro Kubota, Yuki Otsuka, Yuta Yane, Kosei Orio, Emiko Mouri, Yusuke Yamauchi and Hirokatsu Miyata

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Elucidating the catalytic mechanisms of O_2 generation by $[\text{Mn}_2(\mu\text{-O})_2(\text{terpy})_2(\text{OH}_2)_2]^{3+}$ using DFT calculations: a focus on ClO^- as oxidant

Alireza Ariafard,* Matthew Longhurst, Gerhard F. Swiegers and Robert Stranger*

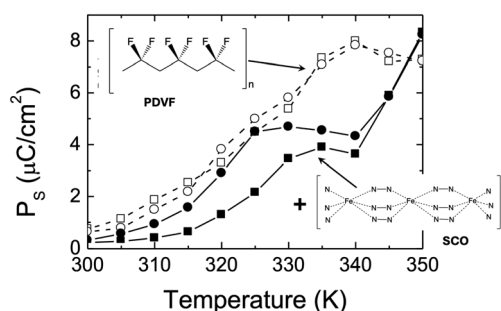


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Memory effect in ferroelectric polyvinylidene fluoride (PVDF) films *via* spin crossover probes

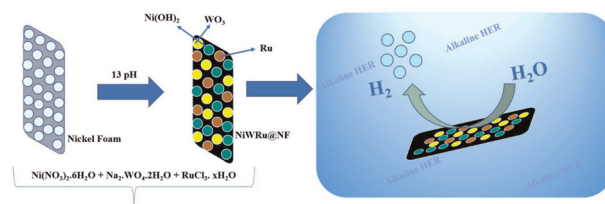
Yong Sung Koo and Jose Ramon Galan-Mascaros*



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An advanced Ru-based alkaline HER electrocatalyst benefiting from Volmer-step promoting 5d and 3d co-catalysts

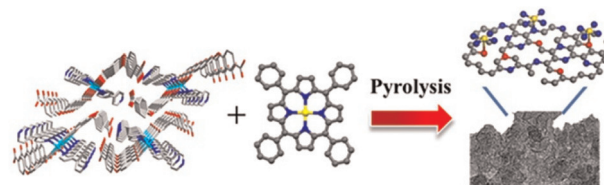
M. Ramaprakash, Nasrin Banu G, Bernaudshaw Neppolian* and Anantharaj Sengeni*



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Coordination polymer derived Fe–N–C electrocatalysts with high performance for the oxygen reduction reaction in Zn–air batteries

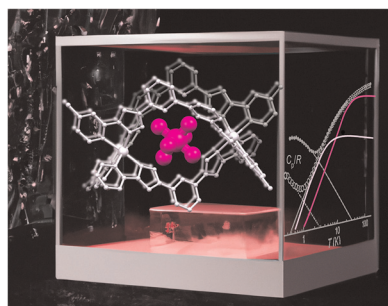
Peng-Peng Guo, Chao Xu, Kun-Zu Yang, Chen Lu, Ping-Jie Wei, Qi-Zhi Ren* and Jin-Gang Liu*



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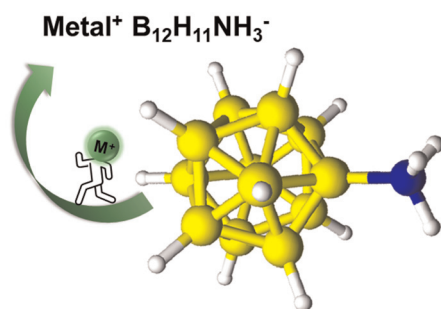
Modulated spin dynamics of [Co2] coordination helicates *via* differential strand composition

Leóni A. Barrios*, Nuria Capó, Hanae Boulehour, Daniel Reta, Inés Tejedor, Olivier Roubeau* and Guillem Aromí*



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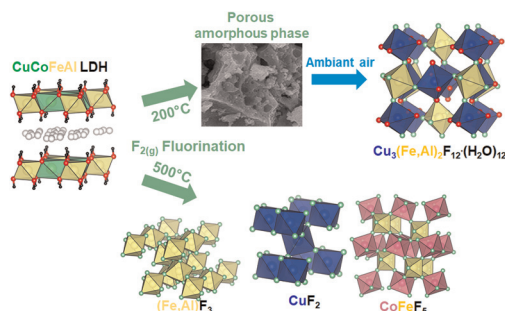
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Ionic conduction in ammonia functionalised *closo*-dodecaborates MB₁₂H₁₁NH₃ (M = Li and Na)

Steffen R. H. Jensen, Mathias Jørgensen, Thi Phuong Thao Nguyen, Greg Nolan, Craig E. Buckley, Torben R. Jensen* and Mark Paskevicius*

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Intimately mixed copper, cobalt, and iron fluorides resulting from the insertion of fluorine into a LDH template

Abderrauof Rouag, Régis Porhiel, Kevin Lemoine, Fabrice Leroux, Jean-Marc Grenèche, Diane Delbègue, Cristina Iojoiu and Katia Guérin*

CORRECTION

7641

Correction: On the mercuration, palladation, transmetalation and direct auration of a C[^]N[^]C pincer ligand

Alice Jane McEllin, Christopher A. Gault, Adrian C. Whitwood, Jason M. Lynam and Duncan W. Bruce*

