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See Janez Košmrlj *et al.*,
pp. 8915–8925.

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Inside cover
See Hiroyuki Nishikawa *et al.*,
pp. 8926–8933.

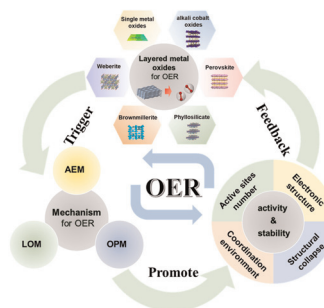
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Research progress on layered metal oxide electrocatalysts for an efficient oxygen evolution reaction

Lei Li, Yaoda Liu, Ya Chen, Wenfang Zhai and Zhengfei Dai*

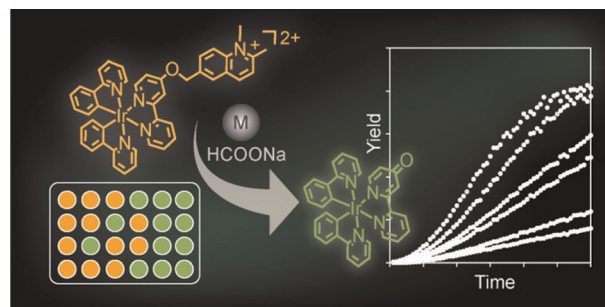


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A ratiometric substrate for rapid evaluation of transfer hydrogenation efficiency in solution

Yen-An Young, Huong T. H. Nguyen, Hieu D. Nguyen, Tuhin Ganguly, Yennie H. Nguyen and Loi H. Do*



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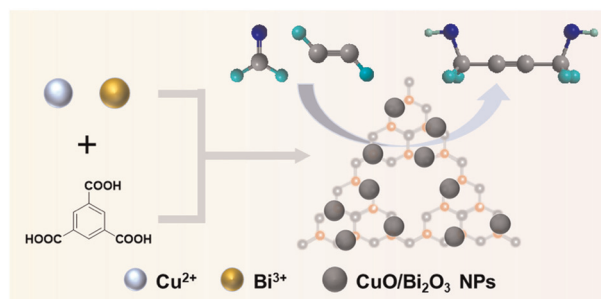
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COMMUNICATIONS

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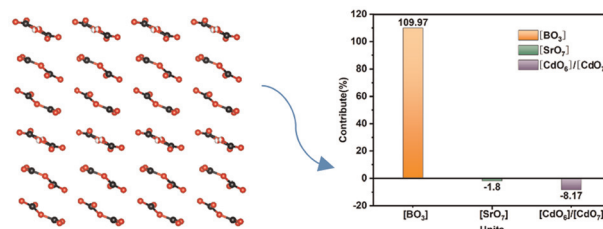
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Discovery of a new bimetallic borate with strong optical anisotropy activated by π -conjugated [B₂O₅] units

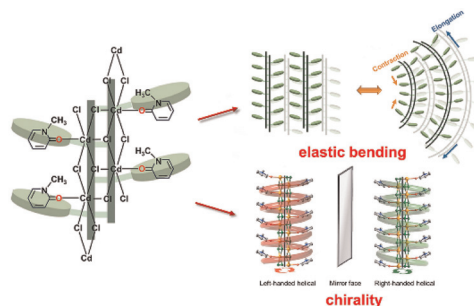
Meihui Chen, Wei Wei, Jiawei Zhao, Donghai An* and Yanna Chen*



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An elastic single crystal composed of one-dimensional chiral coordination polymers

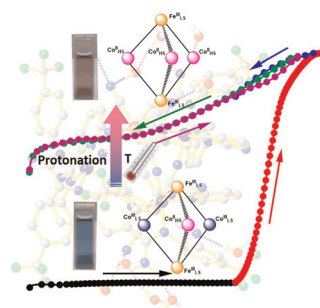
Yan Zhang, Yu-Xia Li, Kai-Ge Gao, Jia-Hui Zhang, Jie-Sheng Hu, Jun Tao and Zi-Shuo Yao*



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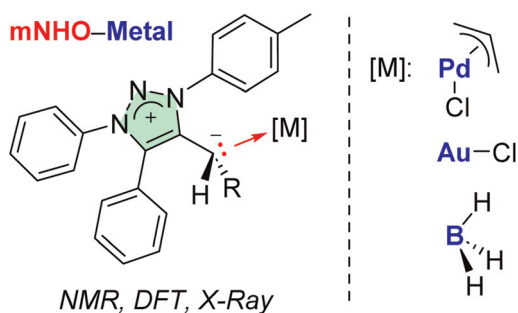
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Jyoti Yadav, Monojit Nandi, Ranjan Kharel, Moubani Mukherjee and Sanjit Konar*



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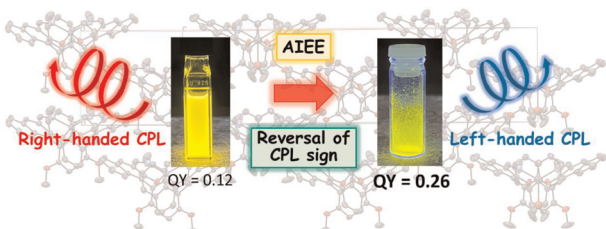
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Tisa Ževart, Balazs Pinter, Matic Lozinšek, Damijana Urankar, Ross D. Jansen-van Vuuren and Janez Košmrlj*

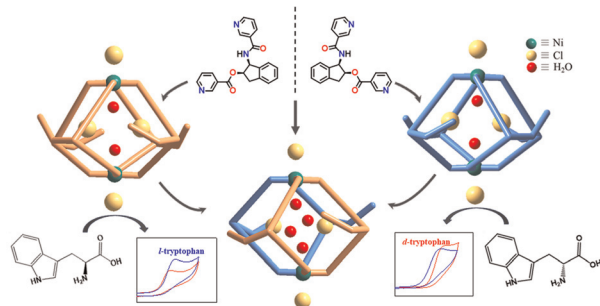
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Aggregation-induced enhanced fluorescence emission of chiral Zn(II) complexes coordinated by Schiff-base type binaphthyl ligands

Daiki Tauchi, Katsuya Kanno, Masashi Hasegawa, Yasuhiro Mazaki, Kazunori Tsubaki, Ken-ichi Sugiura, Takuya Shiga, Seiji Mori and Hiroyuki Nishikawa*

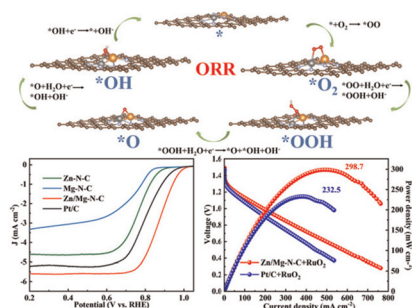
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Self-assembly of Ni(II) with a chiral ligand pair vs. mixture of the chiral ligand pair: structural features and recognition ability of Ni₂L₄ cages

Jihun Han, Hyo Jeong Back, Mohammad M. Hossain, Ok-Sang Jung* and Young-A. Lee*

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Synergistic dual sites of Zn-Mg on hierarchical porous carbon as an advanced oxygen reduction electrocatalyst for Zn-air batteries

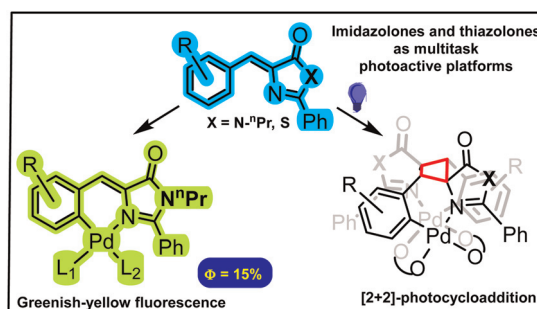
Mincong Liu, Jing Zhang, Yan Peng and Shiyong Guan*



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Orthopalladated imidazolones and thiazolones: synthesis, photophysical properties and photochemical reactivity

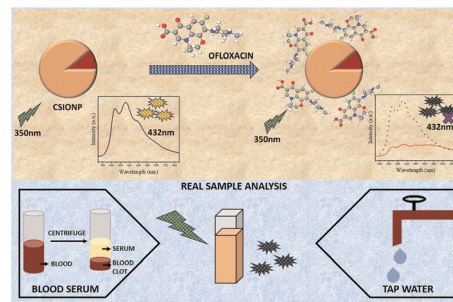
Darius Dumitraş, David Dalmau, Pilar García-Orduña, Alexandra Pop, Anca Silvestru and Esteban P. Urriolabeitia*



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Synthesis of highly luminescent core-shell nanoprobes in a single pot for ofloxacin detection in blood serum and water

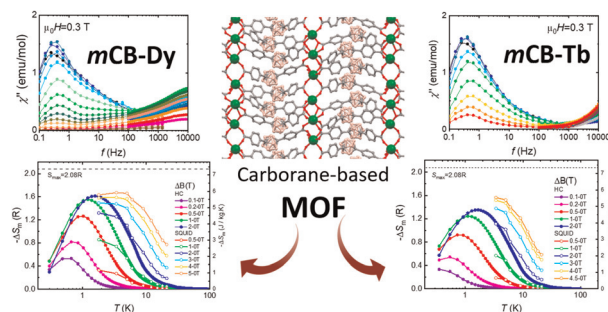
Pallavi Kadian, Astha Singh, Manish Kumar, Kanchan Kumari, Deepika Sharma and Jaspreet Kaur Randhawa*



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Magnetic properties and magnetocaloric effect of Ln = Dy, Tb carborane-based metal-organic frameworks

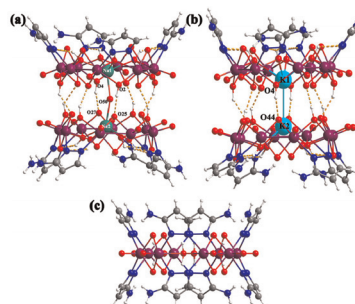
Zhen Li, Ana Arauzo, José Giner Planas* and Elena Bartolomé*



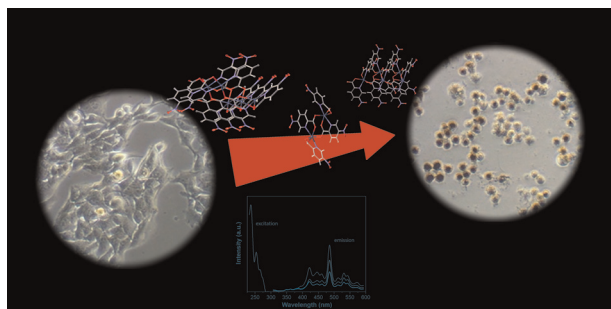
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Crown ether-like octanuclear molybdenum(v) clusters for cation binding and gas adsorption

Ru-Dan Dai, Zhen-Lang Xie, Cheng Liu, Dong Xin and Zhao-Hui Zhou*



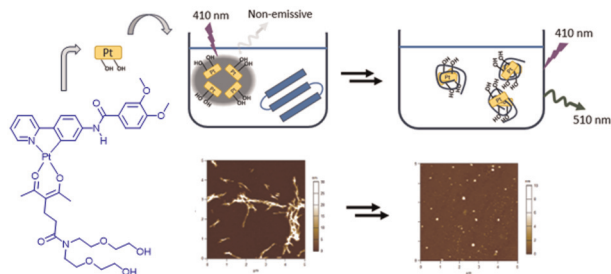
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Modulating anti-inflammatory and anticancer properties by designing a family of metal-complexes based on 5-nitro-picolinic acid

Amalia García-García,* Marta Medina-O'donnell, Sara Rojas, Mariola Cano-Morenilla, Juan Morales, María Mar Quesada-Moreno, Juan Sainz, Iñigo J. Vitorica-Yrezabal, Antonio Rodríguez-Diéguez, Amparo Navarro* and Fernando J. Reyes-Zurita*

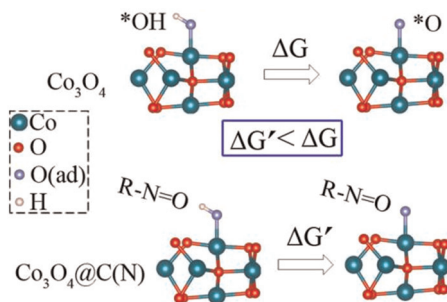
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Detection and disaggregation of amyloid fibrils by luminescent amphiphilic platinum(II) complexes

Zhuoheng Li, Akalanka B. Ekanayake, Anna E. Bartman, Jonathan A. Doorn, Alexei V. Tivanski and F. Christopher Pigge*

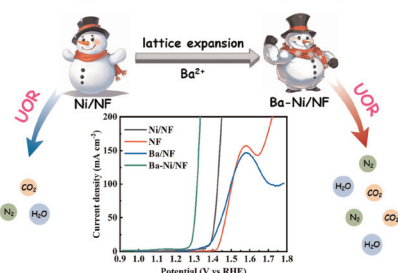
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Dopamine-modified cobalt spinel nanoparticles as an active catalyst for the acidic oxygen evolution reaction

Zhengle Chen, Zhiqing Yang, Xinyuan Li, Longhua Li* and Hua Lin*

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Barium-induced lattice expansion of Ni(OH)₂: enhancing catalytic urea oxidation activity for energy-saving H₂ production

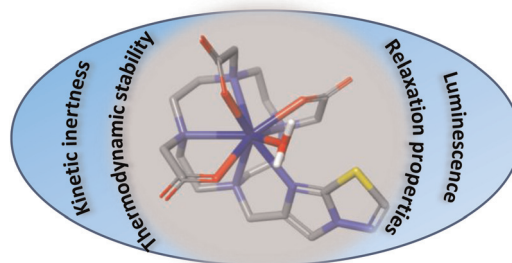
Cengceng Du, Zhenyu Wang, Yiming Wang, Wenjuan Xu,* Yuqiu Huo,* Hongbin Sun* and Guangwen Xu



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Investigation of Ln^{3+} complexation by a DOTA derivative substituted by an imidazothiadiazole: synthesis, solution structure, luminescence and relaxation properties

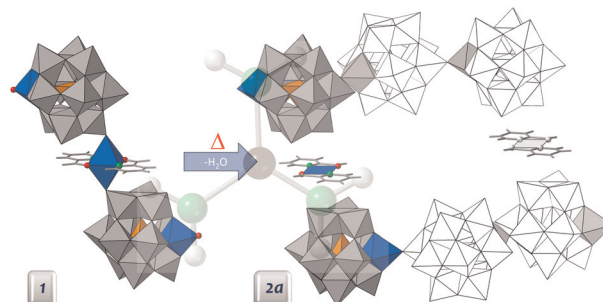
Emma Caillet, Léa Nunes, Svetlana V. Eliseeva, Modou Ndiaye, Manon Isaac, Agnès Pallier, Jean-François Morfin, Hervé Meudal, Stéphane Petoud, Sylvain Routier, Carlos Platas-Iglesias, Frédéric Buron* and Célia S. Bonnet*



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Crystal-to-crystal polymerisation of monosubstituted $[\text{PW}_{11}\text{O}_{39}\text{Cu}(\text{H}_2\text{O})]^{5-}$ Keggin-type anions

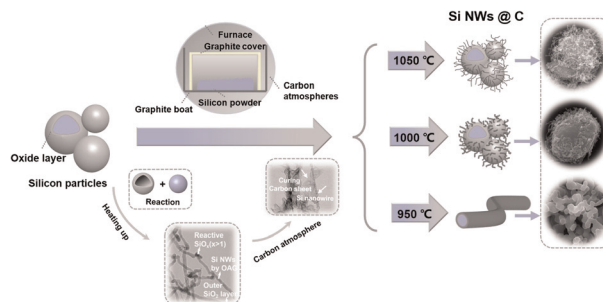
Estibaliz Ruiz-Bilbao, Aroa Pache, Unai Barrenechea, Santiago Reinoso, Leire San Felices, Maria dM. Vivanco, Luis Lezama, Beñat Artetxe* and Juan M. Gutiérrez-Zorrilla*



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One-step chemical vapor deposition synthesis of Si NWs@C core/shell anodes without additional catalysts by the oxide-assisted growth mechanism for lithium-ion batteries

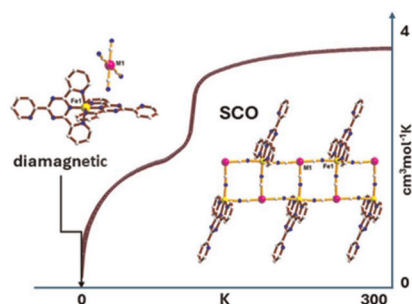
Zhou Fang, Peng Zhou, Yirong Tian, Huachan Fang* and Qianqian Zhang



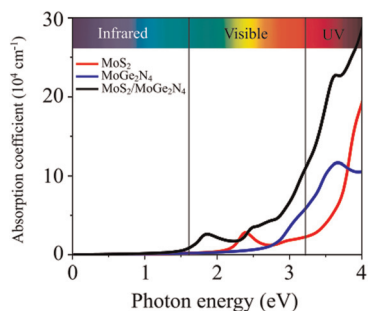
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New cyanido-bridged iron(II) spin crossover coordination polymers with an unusual ladder-like topology: an alternative to Hofmann clathrates

Diana Visinescu, Sergii I. Shylin, Sergiu Shova, Ghenadie Novitchi,* Delia-Laura Popescu and Maria-Gabriela Alexandru*



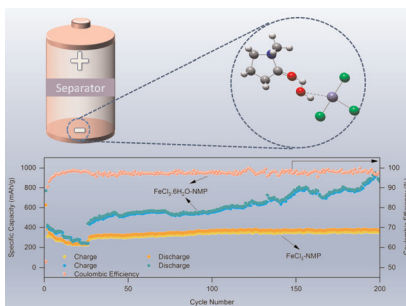
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Theoretical prediction of the electronic structure, optical properties and contact characteristics of a type-I MoS₂/MoGe₂N₄ heterostructure towards optoelectronic devices

S. T. Nguyen and K. D. Pham*

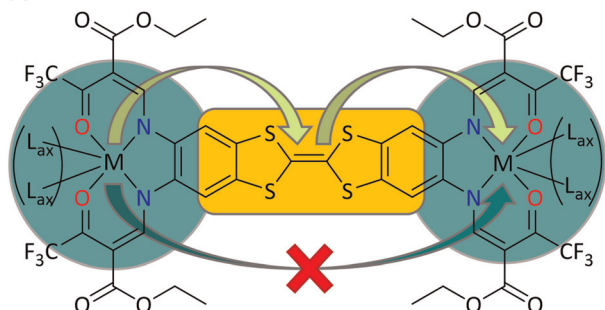
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Constructing novel hydrated metal molten salt with high self-healing as the anode material for lithium-ion batteries

Yiting Wang, Yifei Li, Jiali Chai, Yichuan Rui,* Lei Jiang* and Bohejin Tang*

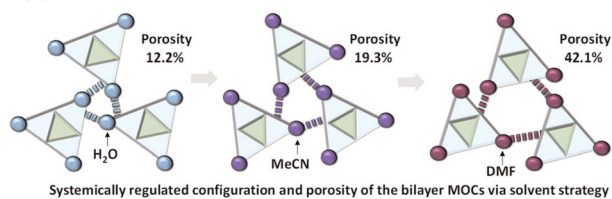
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Binucleating Jäger-type $\{(N_2O_2)_2\}^{4-}$ ligands: magnetic and electronic interactions of Fe(II), Ni(II) and Cu(II) across an in-plane TTF-bridge

Constantin Schreck, Sophie Schönfeld, Phil Liebing, Gerald Hörner and Birgit Weber*

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Solvents regulate the packing porosity of a bilayer metal–organic cage

Ting Pan, Yanxin Wu, Yuefeng Duan and Jingui Duan*

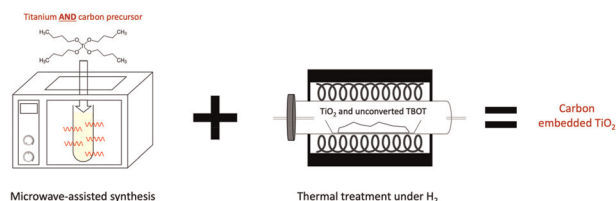


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An innovative synthesis of carbon-coated TiO₂ nanoparticles as a host for Na⁺ intercalation in sodium-ion batteries

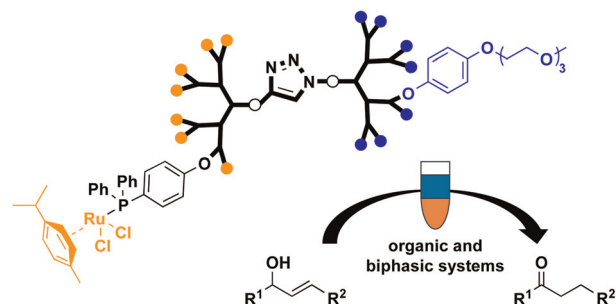
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A water-soluble polyphosphorhydrazone Janus dendrimer built by “click” chemistry as support for Ru-complexes in catalysis

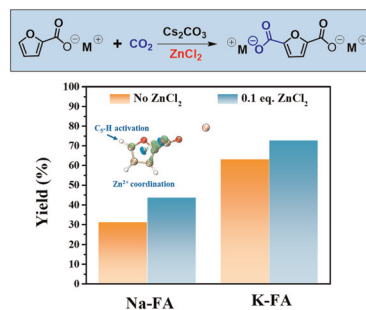
Joel Cejas-Sánchez, Anne-Marie Caminade, Anna Kajetanowicz, Karol Grela and Rosa María Sebastián*



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Enhanced carboxylation of furoic salt with CO₂ by ZnCl₂ coordination for efficient production of 2,5-furandicarboxylic acid

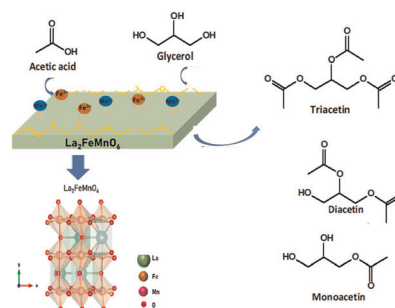
Peiyao Liu, Zhengzeng Yang, Mengyuan Zhang, Yufeng Liu, Dandan Han, Dan Wu,* Chunbao Xu and Jianshe Wang*



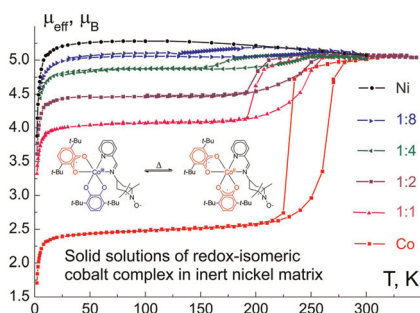
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Metal-doped niobate pyrochlores and double-perovskites for glycerol valorization: structural and electronic properties and DFT calculations

Gabriela Mota Bertoldo, Alcineia Conceição Oliveira,* Gilberto Dantas Saraiva, Rai Jucá, José Gadelha da Silva Filho, Elena Rodríguez-Aguado, José Jiménez-Jiménez and Enrique Rodríguez-Castellón



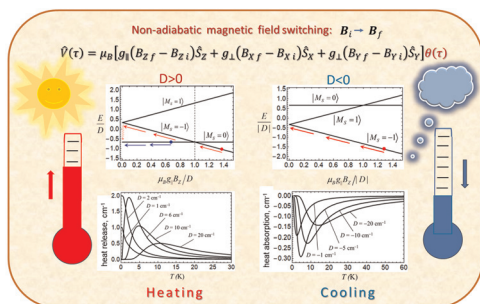
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Valence tautomeric interconversion of bis-dioxolene cobalt complex with imino-pyridine functionalized by TEMPO moiety in solid solutions with isostructural nickel analogue: phase transitions and monocystal destruction

Michael P. Bubnov,* Alexey A. Zolotukhin, Georgy K. Fukin, Roman V. Romyantsev and Artem S. Bogomyakov

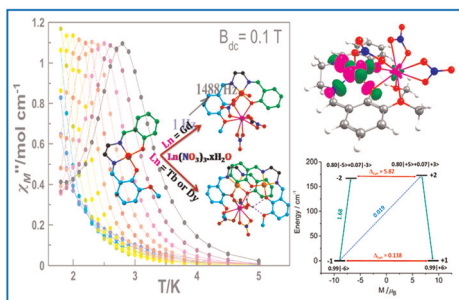
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Thermal processes in anisotropic metal complexes induced by non-adiabatic switching of magnetic field

Andrew Pali* and Boris Tsukerblat*

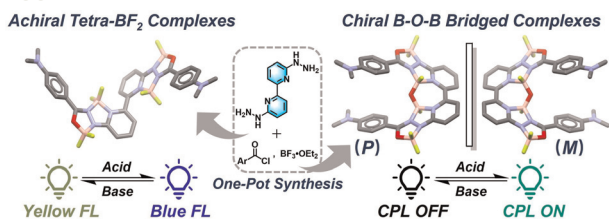
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Cu(II)-Ln(III) (Ln = Gd, Tb and Dy) complexes of an unsymmetrical N₂O₃ donor ligand: field induced SMM behaviour of Cu(II)-Tb(III) complexes

Pradip Bhunia, Souvik Maity, Tanmoy Kumar Ghosh, Arpan Mondal, Júlia Mayans and Ashutosh Ghosh*

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Simultaneous discovery of chiral and achiral dyes: elucidating the optical functions of helical and flag-hinged boron tetradentate complexes

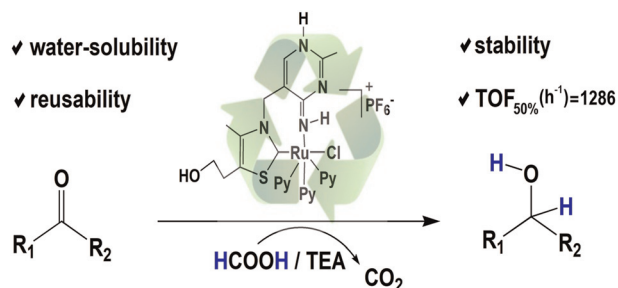
Luxia Cui, Ryoji Furuta, Takunori Harada, Takeru Konta, Yu Hoshino and Toshikazu Ono*



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Vitamin B1-based thiazol-2-ylidene–Ru(II) complexes: recyclable transfer hydrogenation catalysts in water

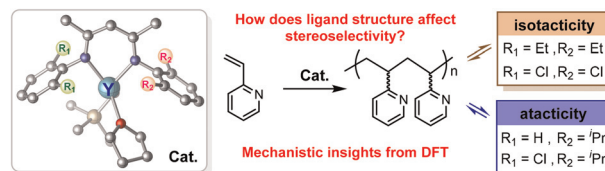
Rafet Kılınçarslan,* Hayriye Tuncer, Namık Özdemir and Bekir Çetinkaya



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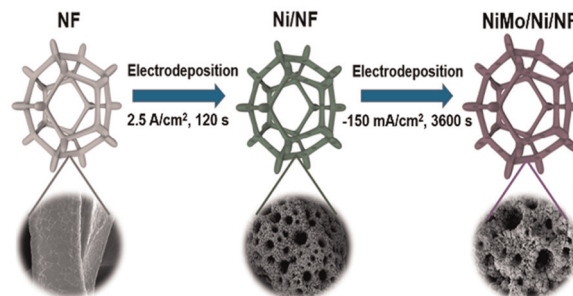
Xin Wen, Zhenli Zhang, Kaipai Ren, Wenzhen Zhang, Guangli Zhou* and Yi Luo*



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A self-supported porous NiMo electrocatalyst to boost the catalytic activity in the hydrogen evolution reaction

Qingxiang Kong, Yulei Li, Qin Zhao, Zhenwei Liu, Song Wu, Xiaoning Tong, Junli Wang, Bangfu Huang, Ruidong Xu* and Linjing Yang*



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Crystal structure of KMnPO₄F with short- and long-range order inside the layered magnetic system

Olga V. Yakubovich,* Larisa V. Shvanskaya,* Galina V. Kiriukhina, Sergei Simonov, Anatoliy S. Volkov, Olga V. Dimitrova, Vladimir V. Korolev, Yevgeniy A. Ovchenkov and Alexander N. Vasiliev

