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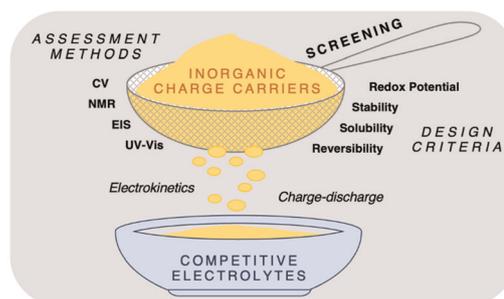
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TUTORIAL REVIEW

10164

Assessment methods for identifying suitable charge carriers for non-aqueous redox flow batteries

Mamta Dagar* and Ellen M. Matson*

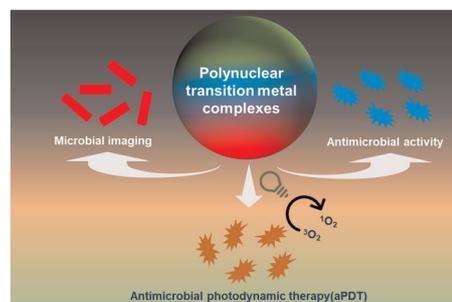


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Polynuclear transition metal complexes: emerging agents for bacterial imaging and antimicrobial therapy

Bishnu Das,* Sooraj Sathyanarayan and Parna Gupta*



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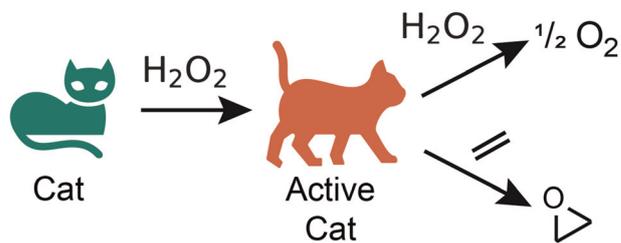
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Realising the ambivalent nature of H_2O_2 in oxidation catalysis – its dual role as an oxidant and a substrate

C. Maurits de Roo, Marika Di Berto Mancini and Wesley R. Browne*

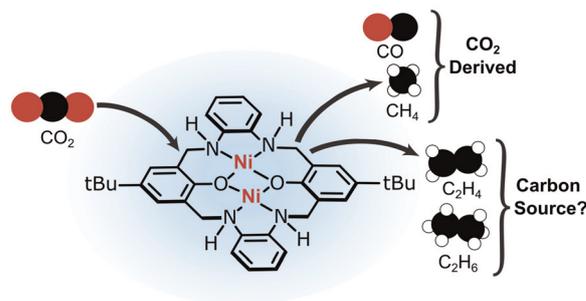


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Intermolecular π -stacking stabilization of a new high-M/L-ratio coordination motif for a dinuclear $\text{Fe}(\text{III})$ complex supported by a "salen-type" Schiff base derivative of *o*-xylylenediamine

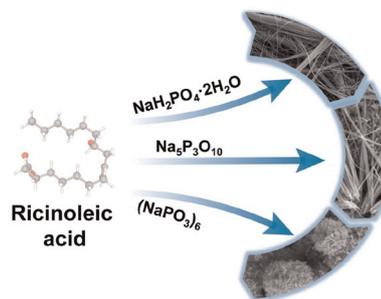
Iliia D. Shutilov, Pavel A. Volodin, Alexander S. Ovsyannikov,* Andrew V. Pyataev, Lyubov V. Frantsuzova, Daria P. Gerasimova, Ayrat R. Khamatgalimov, Svetlana E. Solovieva and Igor S. Antipin



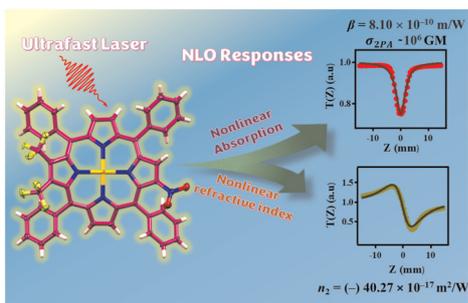
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Phosphate-driven microstructural evolution of hydroxyapatite

Yin-chuan Wang, Lin-mao Ma, Hong-jin Xue, Jian-feng Qiu, Meng Zhang,* Gui-yong Xiao* and Yu-peng Lu*



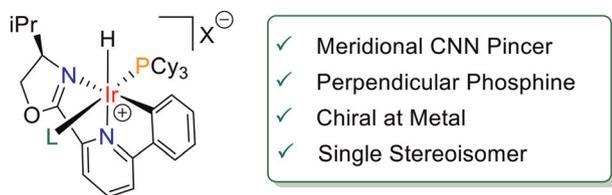
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Electron deficient β -trisubstituted porphyrins: synthesis, structural, spectral, and electrochemical studies and their intensity-dependent third-order nonlinear optical properties

Reena Jangra, Amritha J. Nair, Albin Kuriakose, Jitendra Nath Acharyya, G. Vijaya Prakash* and Muniappan Sankar*

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Chiral CNN pincer Ir(III)–H complexes. Transient ligand and counterion influences in the asymmetric hydrogenation of imines and quinolines

Yisong Wen, Albert Cabré, Jordi Benet-Buchholz, Antoni Riera* and Xavier Verdaguer*

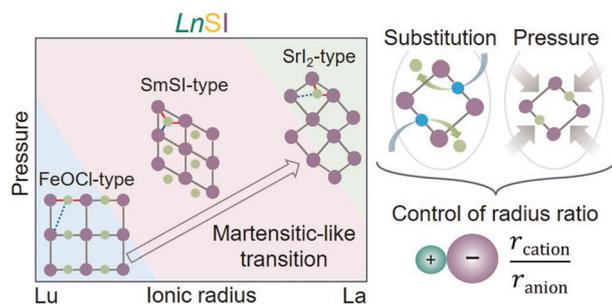
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Amorphous Ni–Fe–B bimetallic borides: boron-mediated synergy for ultrafast and stable 4-nitrophenol reduction

Jianquan Wang, Fangzheng Qi, Dong Ma, Guang-Ning Liu* and Cuncheng Li*

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Structural stability and polymorphic transitions in LnSI (Ln = lanthanides)

Shohei Kawanishi, Suguru Yoshida,* Hiroki Ubukata, Congling Yin, Yang Yang, Ryusei Morimoto, Simon J. Clarke and Hiroshi Kageyama*

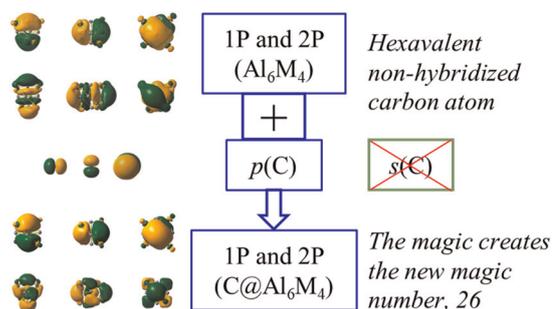


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The ternary $C@Al_6Cu_4$ cluster: hexavalent non-hybridized carbon atoms and a new magic number

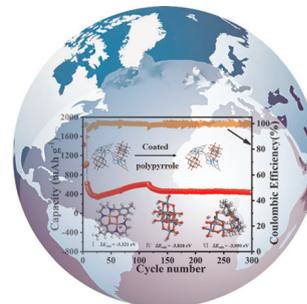
Yassin A. Jeilani, Long Van Duong,* Nguyen Minh Tam and Minh Tho Nguyen



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Crown ether-based hamburger POMOF combined with polypyrrole as a highly reversible lithium-ion battery anode material

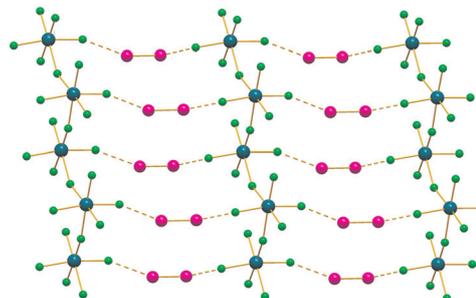
Hui Zhang, Zhujuan Ren, Jiaying Yu, Kuaibing Wang, Feifei Mao and Hua Wu*



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Antimony vs. bismuth: structural differences in $Cat\{[MCl_5](l_2)\}$ halogen bond-linked supramolecular complexes

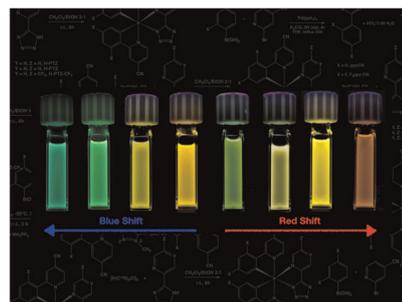
Nikita A. Korobeynikov, Andrey N. Usoltsev, Maxim N. Sokolov, Alexander S. Novikov and Sergey A. Adonin*



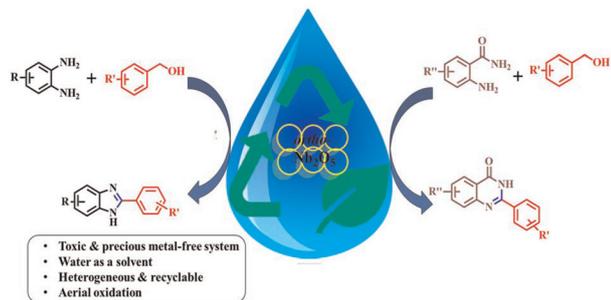
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Fine color-tuning of Ir(III) tetrazolato complexes: synthesis, photophysical properties and OLED device fabrication

Nicola Monti, Eleonora Previati, Giulia Vigarani, Massimo Cocchi, Francesca Tinti, Paolo Raiteri, Stefano Zacchini, Loris Giorgini, Massimiliano Massi, Stefano Stagni* and Valentina Fiorini*



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ortho-Nb₂O₅ as a recyclable heterogeneous catalyst for the synthesis of 2-substituted benzimidazoles and quinazolinones in an aqueous medium *via* oxidative dehydrogenative coupling

Rajasekharan Jayakumari Deepak, Thiagu Pavin and Ramasamy Karvembu*

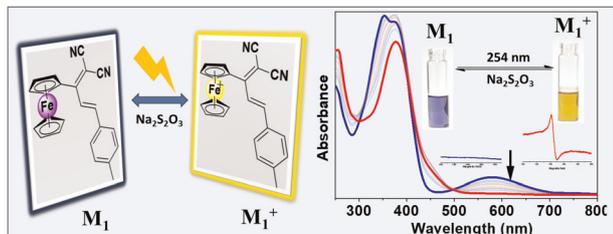
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Combination of chlorinated cobalt dicarbollide with N,O-donor ligands in extraction systems for separating f-elements

Mikhail A. Gerasimov,* Mikhail I. Koifman, Leonid O. Lanin, Victoria R. Przhilevskaya, Paulina Kalle, Nikita R. Yarenkov, Vasilisa A. Zhuravleva, Ekaterina A. Konopkina, Alexander V. Gopin, Mariia V. Evsiunina, Nataliya E. Borisova and Petr I. Matveev

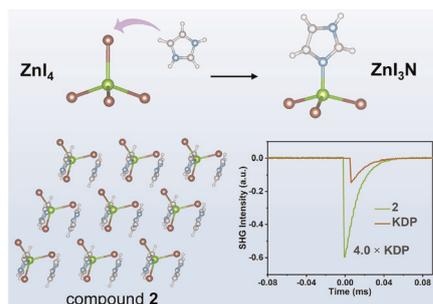
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Unprecedented photochromism of ferrocene-aryl dicyanovinylenes

Atul Babasaheb Nipate and M. Rajeswara Rao*

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Ligand substitution in organic–inorganic hybrid zinc iodides for second-harmonic generation

Juan Cheng, Gangji Yi, Ying Long, Qinglan Zhong, Guohong Zou, Lindong Luan* and Zhien Lin*

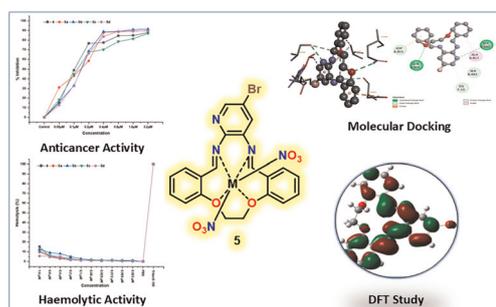


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A salophen-type macrocyclic Schiff base ligand and its metal complexes: exploring *in vitro* anticancer efficacy via *in silico* topoisomerase II β enzyme targeting

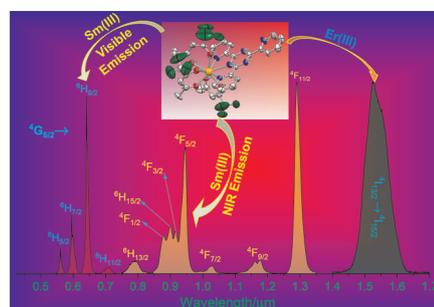
Monika Yadav, Deepak Yadav, Dharam Pal Singh and Jitander Kumar Kapoor*



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Efficient 0.4 μm –1.6 μm emission from muffin-shaped nine-coordinated ternary samarium(III) and erbium(III) complexes

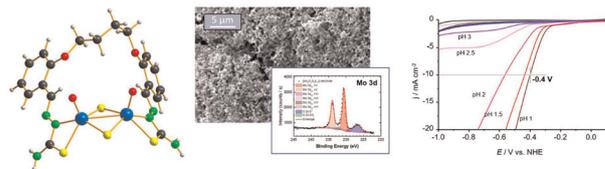
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Hydrogen evolution reaction evidenced for Mo₂O₂S₂-thiosemicarbazone coordination complexes

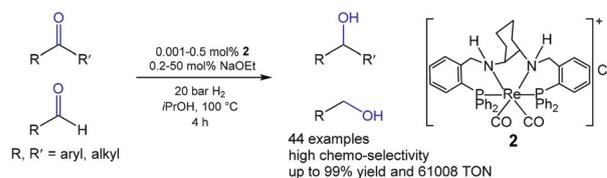
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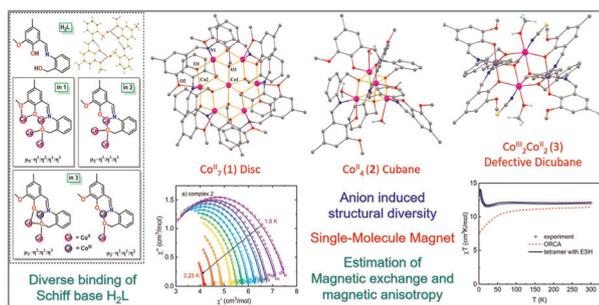
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Efficient hydrogenation of ketones and aldehydes catalysed by a well-defined PNNP-rhenium complex

Shuting Xu, Yu Zhang, Bin Li, Hao Li, Jing Huang, Yiyu Chen, Kun Hu, Fengjun Zhang and Xiaolong Fang*



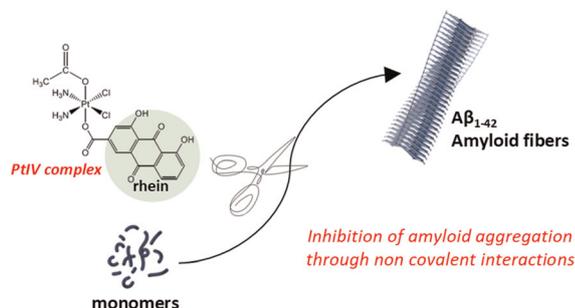
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Experimental and theoretical insights into magnetic exchange and anisotropy in multinuclear cobalt complexes displaying slow relaxation

Narayan Ch. Jana, Erik Čížmár, Paula Brandão, Kuheli Pramanik and Anangamohan Panja*

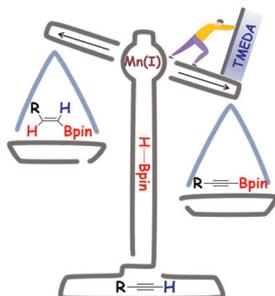
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The effects of platinum(IV) complexes on Aβ_{1–42} aggregation: a synergistic inhibition upon axial coordination

Sara La Manna, Daniele Florio, James A. Platts, Elisabetta Gabano, Mauro Ravera and Daniela Marasco*

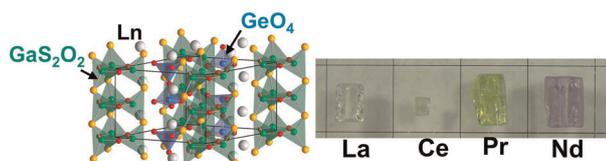
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Manganese(I)-catalyzed dehydrogenative borylation of terminal alkynes

Pratiksha B. Ghanwat, Debashree Bora, Rinu Pandya, Kumar Vanka,* Biswajit Saha* and Sakya S. Sen*

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Flux crystal growth, structure, and optical properties of non-centrosymmetric oxysulfides Ln₃Ga₃Ge₂S₃O₁₀ (Ln = La, Ce, Pr, Nd)

Hong Yan, Kotaro Fujii, Yoshitaka Matsushita, Masatomo Yashima, Kazunari Yamaura and Yoshihiro Tsujimoto*

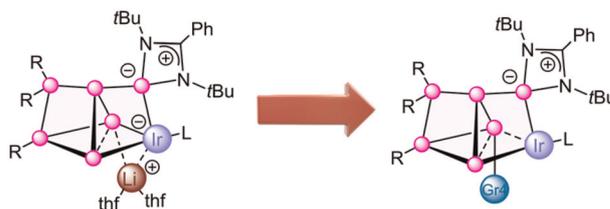


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Heterobimetallic unsaturated silicon clusters (siliconoids) with transition metal-expanded scaffolds

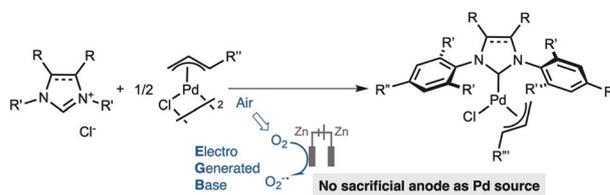
Luisa Giarrana, Nadine E. Poitiers, Alida Stürmer, Michael Zimmer, Volker Huch, Bernd Morgenstern and David Scheschkewitz*



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Electrochemical synthesis of palladium N-heterocyclic carbene (NHC) complexes

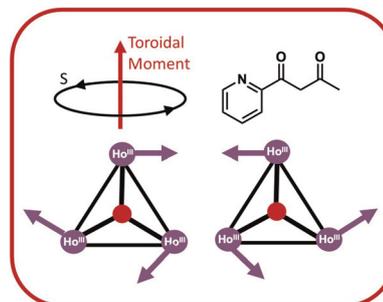
Roman V. Larkovich, Francis Bru, Maxime R. Vitale, Laurence Grimaud and Catherine S. J. Cazin*



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Trinuclear rare earth pyridyl- β -diketonate complexes: developing new methods towards finding lost toroidal spin states

Patrick Mangundu, Kate E. Tanner, Andrew Bloomfield, Peter J. Barnard, Keith F. White, Curtis C. Ho, Nageshwar R. Yepuri, Richard A. Mole and Rebecca O. Fuller*



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Unveiling the Ni–Fe coordination environments for enhanced 1,4-butanediol selectivity in 1,4-butyndiol hydrogenation

Liping Zhao, Lin Wang, Ruitian Xie, Lingji Liu, Xueqing Hai, Shuohan Wang, Xiaosheng Yu, Binwu Yang, Changzhen Wang* and Yongxiang Zhao*

