

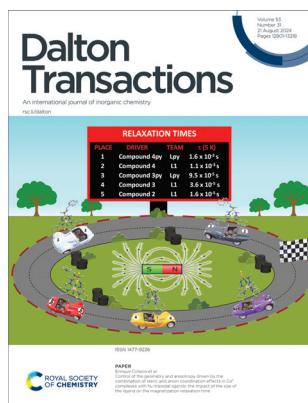
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Cover

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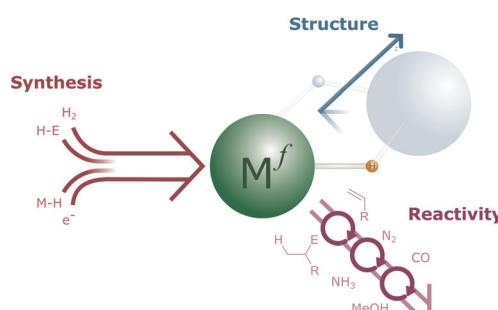
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f-Block hydride complexes – synthesis, structure and reactivity

Richard Drummond Turnbull and Nicola L. Bell*

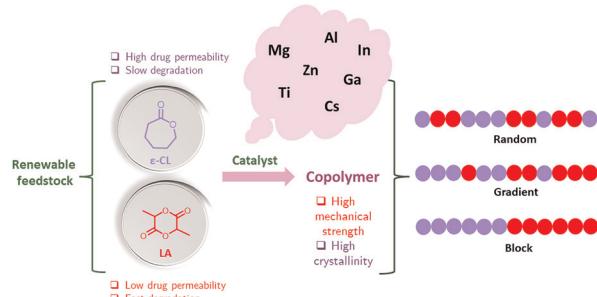


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Crafting sustainable solutions: architecting biodegradable copolymers through controlled ring-opening copolymerization

Shweta Sagar, Priyanku Nath, Aranya Ray, Alok Sarkar and Tarun K. Panda*





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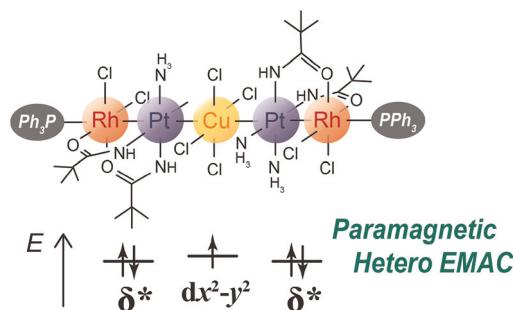


COMMUNICATIONS

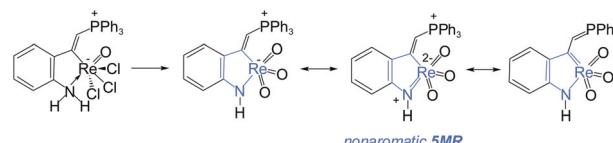
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Structure and redox behaviour of a paramagnetic Rh–Pt–Cu–Pt–Rh heterometallic-extended metal-atom chain

Kazuhiro Uemura* and Yuya Ikeda

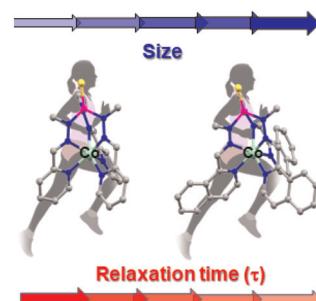


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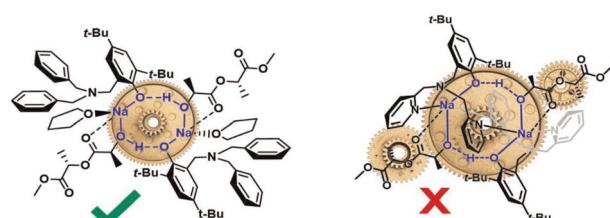
Aza-metallacycles with a heptavalent Re (d^0) centerQianhang Wang, Yarong Wang, Yue Zhao, Yang Li,*
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Control of the geometry and anisotropy driven by the combination of steric and anion coordination effects in Co^{II} complexes with N₆-tripodal ligands: the impact of the size of the ligand on the magnetization relaxation timeAritz Landart, María Mar Quesada-Moreno,
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Wiktor Zierkiewicz, Łukasz John and Jolanta Ejfler*

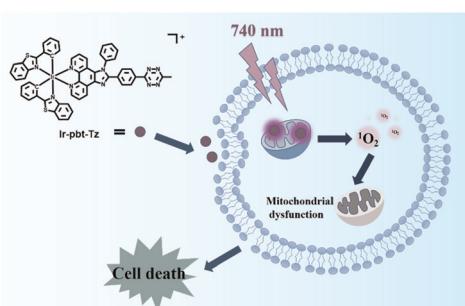
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Hydrogen production by a fully *de novo* enzyme

Sigrid Berglund, Clara Bassy, Ibrahim Kaya, Per E. Andrén, Vitalii Shtender, Mauricio Lasagna, Cecilia Tommos, Ann Magnuson and Starla D. Glover*

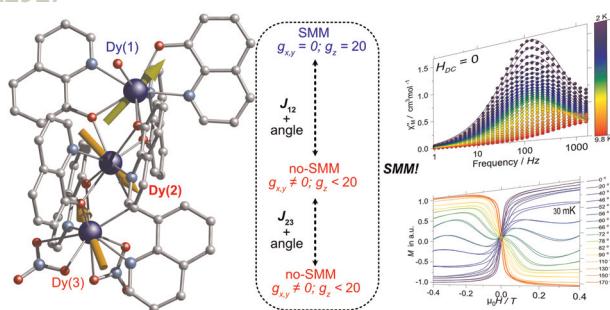
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Cyclometalated iridium(III) tetrazine complexes for mitochondria-targeted two-photon photodynamic therapy

Zanru Tan, Mingwei Lin, Jiangping Liu,* Huihui Wu* and Hui Chao*

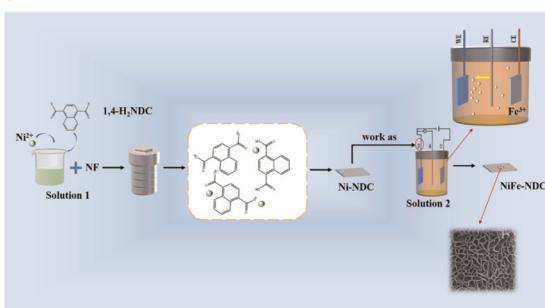
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Lester Batista, Sagar Paul, Concepción Molina-Jirón,* Juan A. Jaén, Dieter Fensker, Olaf Fuhr, Mario Ruben,* Wolfgang Wernsdorfer* and Eufemio Moreno-Pineda*

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A bimetallic NiFe MOF with ultra-thin two-dimensional nanosheet structure effectively accelerates oxygen evolution reaction

Jiaqi He, Xin Deng, Wenting Sun, Wenjing Shang, Yongbing Lou and Jinxi Chen*

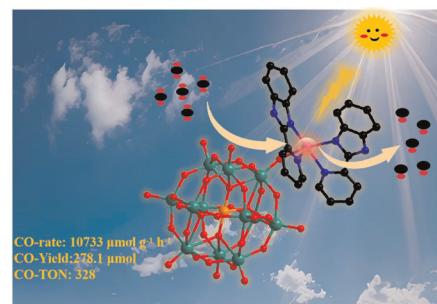


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Dual-nodes bridged cobalt-modified Keggin-type polyoxometalate-based chains for highly efficient CO₂ photoconversion

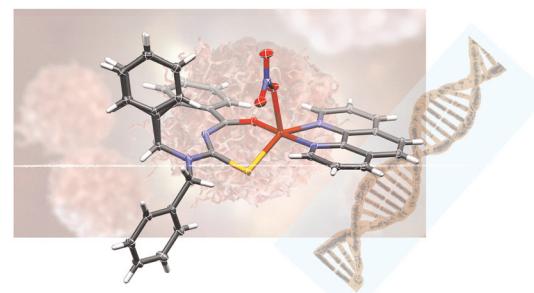
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Exploring the BSA- and DNA-binding, cytotoxicity, and cell cycle evaluation of ternary copper(II)/diimine complexes with *N,N*-dibenzyl-*N'*-benzoylthiourea as promising metallodrug candidates

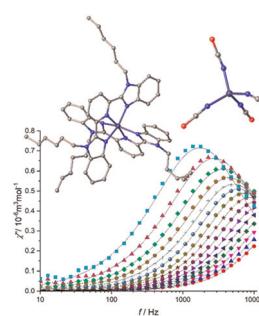
Guilherme R. Gonçalves,* Tamara Teixeira, Daniel P. Bezerra, Milena B. P. Soares, Valdenizia R. Silva, Luciano de S. Santos, Alzir A. Batista, Katia M. Oliveira and Rodrigo S. Corrêa*



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Magnetic anisotropy and slow relaxation of magnetisation in double salts containing four- and six-coordinate cobalt(II) complex ions

Jana Juráková, Vinícius Tadeu Santana, Ján Pavlik, Ján Moncoľ, Ivan Nemec, Miguel Clemente-León, Senthil Kumar Kuppusamy, Mario Ruben, Erik Čižmár and Ivan Šalitroš*



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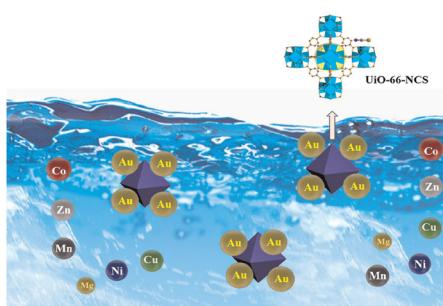
Construction of hierarchical NCMTs@MoO₂/FeNi₃ tubular heterostructures for enhanced performance in catalysis and protein adsorption

Hongxin Wang, Lixian Guo,* Jianmin Pan, Jingli Xu, Xue-Bo Yin and Min Zhang*



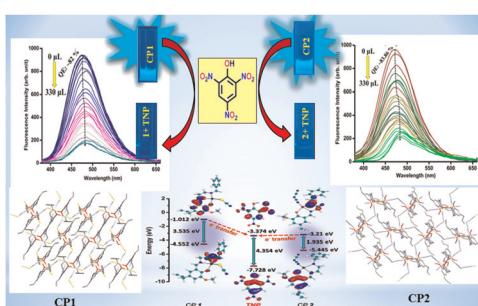
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Efficient recovery of gold from solution with a thiocyanate-modified Zr-MOF: adsorption properties and DFT calculations

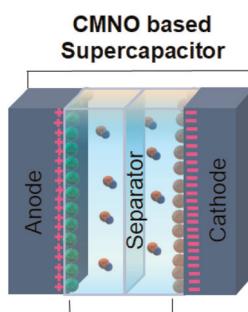
Yu-juan Xie, Tang-ming Li, Zhao-ting Shang, Wang-ting Lu and Fan Yu*

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Using eugenol scaffold to explore the explosive sensing properties of Cd(II)-based coordination polymers: experimental studies and real sample analysis

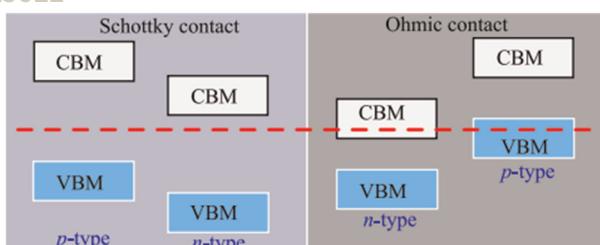
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Komal Ali Rao, Muhammad Ehsan Mazhar* and Javed Ahmad

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Nguyen V. Vinh, Son-Tung Nguyen and Khang D. Pham*

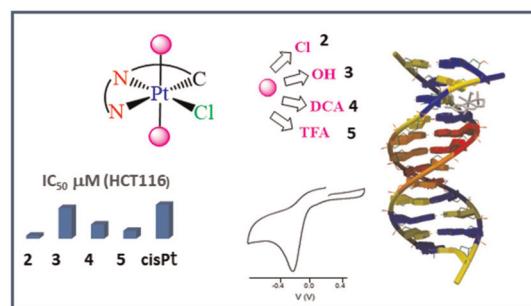


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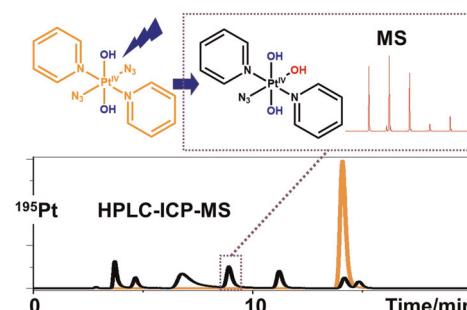
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Photosubstitution and photoreduction of a diazido platinum(IV) anticancer complex

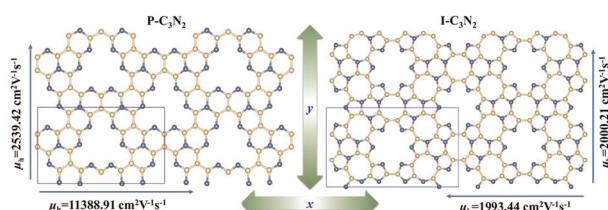
Huayun Shi, Christian Ward-Deitrich, Fortuna Ponte, Emilia Sicilia,* Heidi Goenaga-Infante* and Peter J. Sadler*



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Prediction of two-dimensional C₃N₂ semiconductors with outstanding stability, moderate band gaps, and high carrier mobility

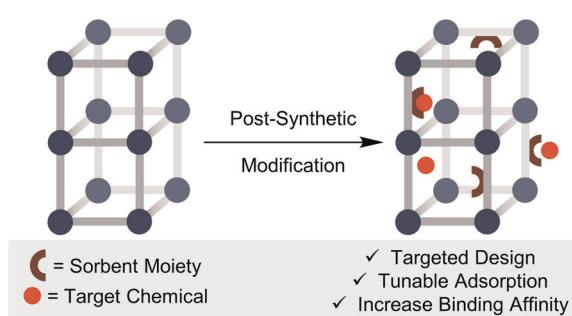
Longhui Li, Rui Tan,* Yulou Ouyang, Xiaolin Wei and Zhenkun Tang*



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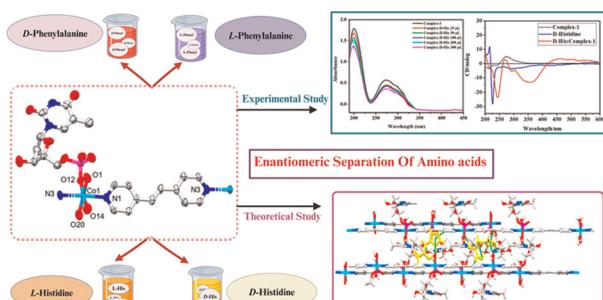
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Daniel A. Corbin, Michael R. Papantonakis, Viet K. Nguyen, Christopher J. Breshike* and R. Andrew McGill



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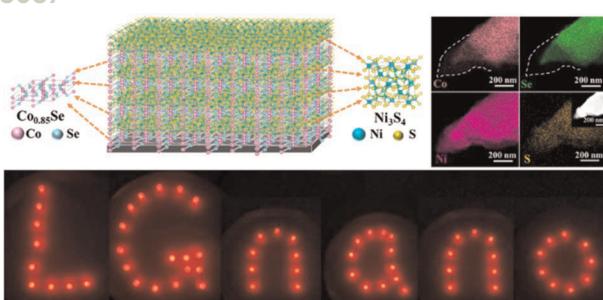
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Exploring enantioselective recognition of dTMP-Co-bpe coordination polymer for natural amino acids using molecular simulations and circular dichroism

Hafiz Muhammad Zohaib, Madiha Saqlain, Maroof Ahmad Khan, Sara Masood, Ijaz Gul, Muhammad Irfan* and Hui Li*

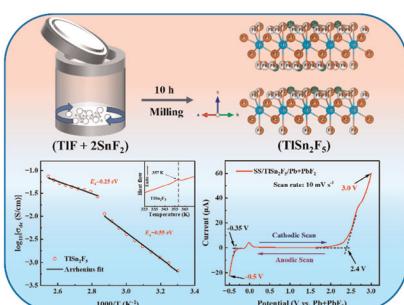
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Multi-layered heterogeneous interfaces created in $\text{Co}_{0.85}\text{Se}@\text{Ni}_3\text{S}_4/\text{NF}$ to enhance supercapacitor performances by multi-step alternating electrodeposition

Chunyan Zhang, Jinkun Yang, Hang Li, Mengfei Su, Boru Xiong, Feng Gao* and Qingyi Lu*

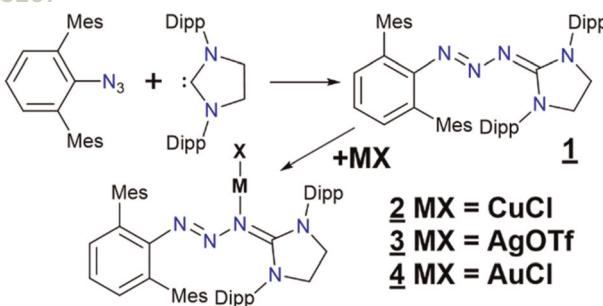
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TlSn_2F_5 , a SnF_2 -based solid electrolyte with high ionic conductivity and electrochemical stability for all-solid-state fluoride ion batteries

K. Ramakrushna Achary, Sumit Khatua, K. Kamala Bharathi and L. N. Patro*

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Group 11 complexes of a bulky triazene ligand

Tanner George, Tamika Grant, Isadora Schumann Munhoz, Thai Do and Jason D. Masuda*

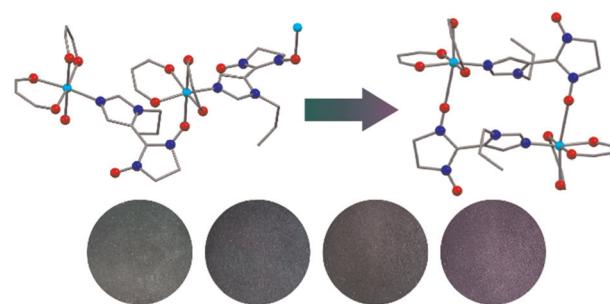


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Solvent-controlled solid-state phase transitions of a heterospin Cu(II) complex with imidazolyl-substituted nitronyl nitroxide

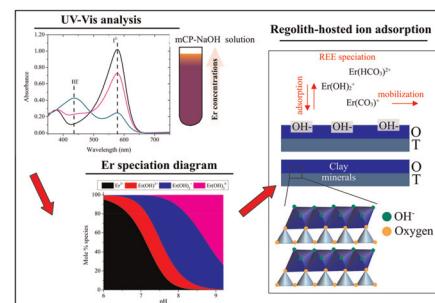
Kristina A. Smirnova, Irina V. Golomolzina, Galina V. Romanenko, Sergey V. Fokin, Svyatoslav E. Tolstikov, Gleb A. Letyagin, Platon A. Chernavin and Artem S. Bogomyakov*



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UV-Vis spectrophotometric determination of rare earth elements (REE) speciation at near-neutral to alkaline pH. Part I: *m*-cresol purple properties from 25–75 °C and Er hydrolysis

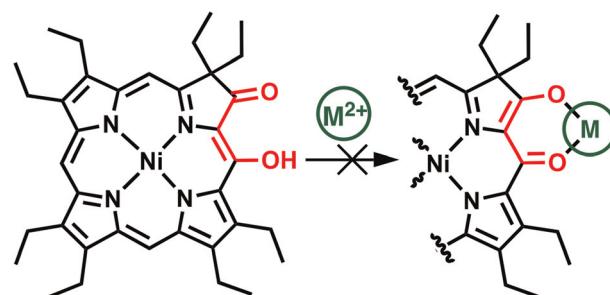
Hannah Juan Han* and Alexander P. Gysi



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Oxochlorin frameworks confining a β -hydroxyketone moiety

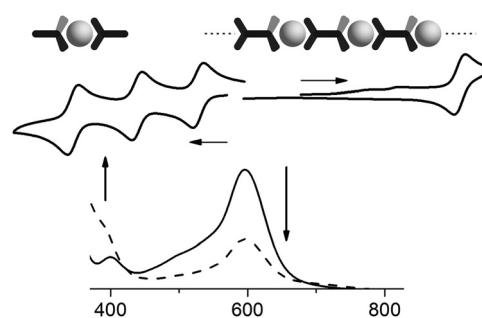
Nivedita Chaudhri,* Matthew J. Guberman-Pfeffer, Matthias Zeller and Christian Brückner*



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Spectro-electrochemical study of iron and ruthenium bis-terpyridine complexes with methyl viologen-like subunits as models for supramolecular polymers

Mira T. Gamache, Benjamin Gehring, Garry S. Hanan and Dirk G. Kurth*



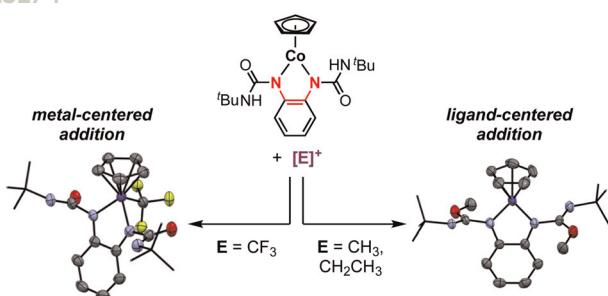
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**Steric and electronic influence on Cu–Cu short contacts in β -thioketiminato tricopper(I) clusters**

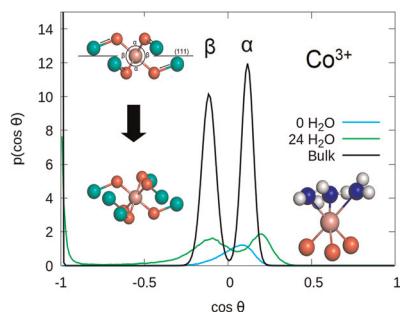
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**Metal- versus ligand-centered reactivity of a cobalt-phenylenediamide complex with electrophiles**

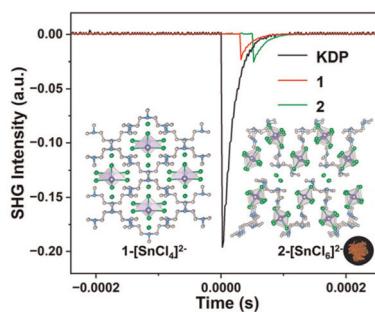
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Tim Kox and Stephane Kenmoe*

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**Amine-directed synthesis, valence state control, and optical properties of two new organic-inorganic tin chlorides**

Xuemei Wen, Gangji Yi, Zhizhuan Zhang, Caihong Guo,* Hongmei Zeng, Ling Huang, Guohong Zou and Zhien Lin*

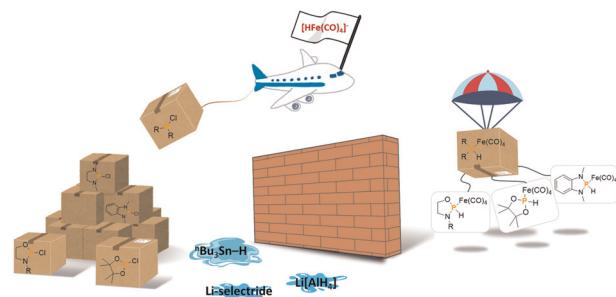


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Facile synthesis of five-membered cyclic RE₂P–H iron(0) complexes

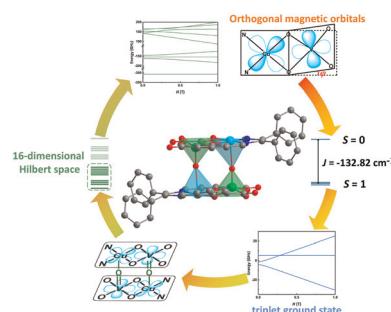
Philipp C. Brehm, Gregor Schnakenburg and Rainer Streubel*



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Orthogonal magnetic orbitals in high spin Cu–VO units: structure, magnetism and EPR study of anisotropic heterometallic complexes

Qing-Song Deng, Yu-Shuang Zhang, Ye-Xin Wang, Yi Xie, Peng-Xiang Fu, Song Gao, Zheng Liu* and Shang-Da Jiang*



RETRACTION

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Retraction: Multifunctional luminescence sensing and white light adjustment of lanthanide metal–organic frameworks constructed from the flexible cyclotriphosphazene-derived hexacarboxylic acid ligand

Meng Wang, Hong Wei Gao, Jin Xiao Li, Feng Ying Bai,* Yong Heng Xing and Zhan Shi