

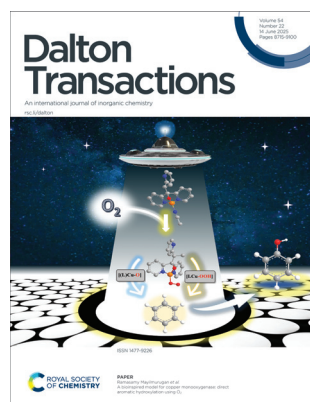
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IN THIS ISSUE

ISSN 1477-9226 CODEN DTARAF 54(22) 8715–9100 (2025)



Cover

See Ramasamy Mayilmurugan
et al., pp. 8788–8799.

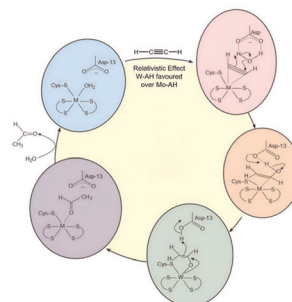
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PERSPECTIVES

8728

Relativistic effect behind the molybdenum vs. tungsten selectivity in enzymes

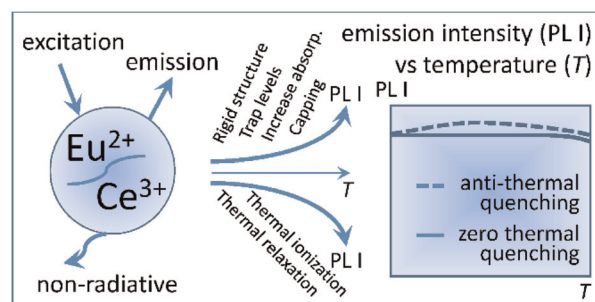
Udita Das, Ankita Das* and Asim K. Das*



8745

Research progress on the design and regulation of $\text{Eu}^{2+}/\text{Ce}^{3+}$ -activated anti-/zero thermal quenching phosphors

Shujuan Zhao, Yue Han, Shixun Lian and Jilin Zhang*



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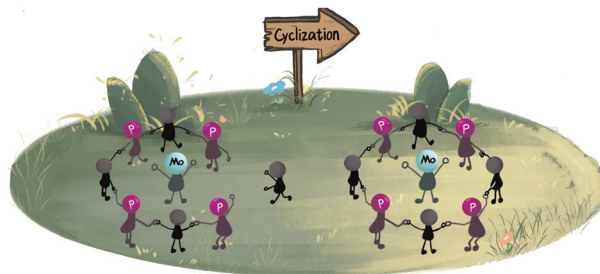
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Xianren Jiang, Chang-Hua Ding, Zaozao Qiu* and
Zuowei Xie

The reaction scheme illustrates the synthesis of a functionalized C₆₀ fullerene. It begins with a C₆₀ fullerene cage substituted with an iodine atom (I). This reacts with a nucleophile (Nu⁻) in the presence of a catalyst [Pd]. The reaction proceeds via a Pd 1,4-migration step, which is reversible, leading to the formation of a functionalized C₆₀ fullerene with a Nu group attached to the cage.

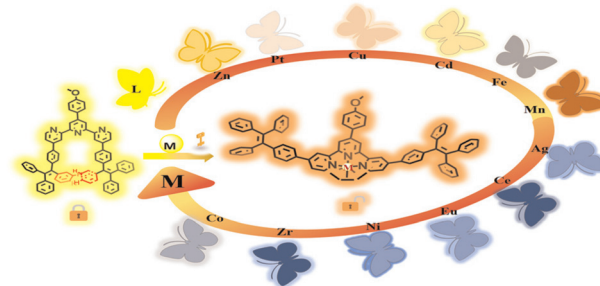
Synthesis of planar macrocyclic tetradentate phosphine–Mo complexes

Xinchao Wang and Qian Liao*



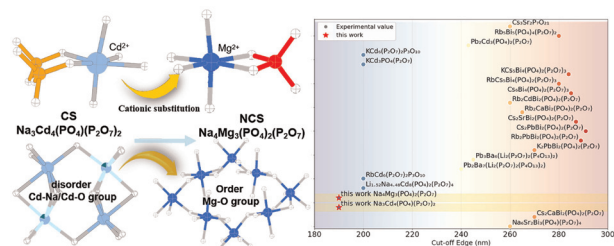
Anti AIE single molecule fluorescent switches for detection of heavy metal ions

Yi-Mei Peng, Yu-Ming Guan, Qixia Bai, Gang Chen,
Wei-Quan Lin, Jing-Xian Pang, Wen-Bo Xu,
Pingshan Wang* and Ting-Zheng Xie*



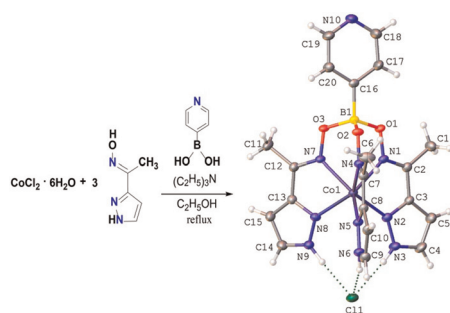
Two mixed P–O anionic phosphates with a distinctive structural transformation and deep ultraviolet cutoff edge

Lei Wu, Hongyu Huang, Jialong Wang, Qun Jing,*
Yi Huang, Xue Yu and Zhaohui Chen*



COMMUNICATIONS

8783

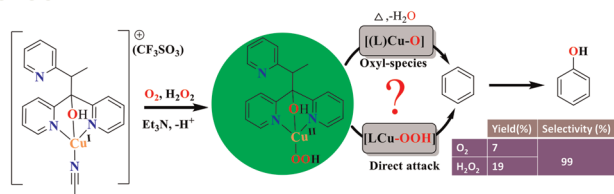


First pyridyl-terminated trigonal-prismatic cobalt(II) cage-like complex as prospective N-donor highly paramagnetic three-dimensional ligand and probe

Svetlana A. Belova, Alexander S. Belov, Margarita G. Bugaenko, Anastasia A. Danshina, Alexey I. Dmitriev, Mikhail V. Zhidkov, Denis V. Korchagin and Yan Z. Voloshin*

PAPERS

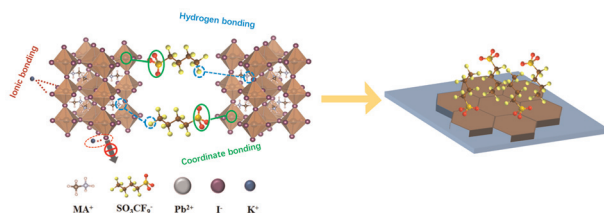
8788



A bioinspired model for copper monooxygenase: direct aromatic hydroxylation using O₂

Ramamoorthy Ramasubramanian, Karunanithi Anandababu, Mukesh Kumar and Ramasamy Mayilmurugan*

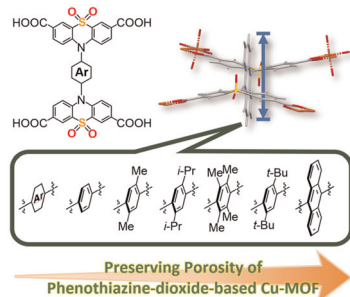
8800



Rationally tailored passivator with multisite surface-anchors for suppressing ion migration toward air-stable perovskite solar cells

Dandan Luo, Dingyu Xia, Fei Wang,* Chong Jia, Qiang Zhao, Xinhua Li and Yiqing Chen*

8813



Phenothiazine-dioxide-based Cu-MOFs: preserving porosity through the incorporation of substituents into organic linkers

Koh Sugamata,* Riko Furukawa, Natsuki Amanokura and Mao Minoura*

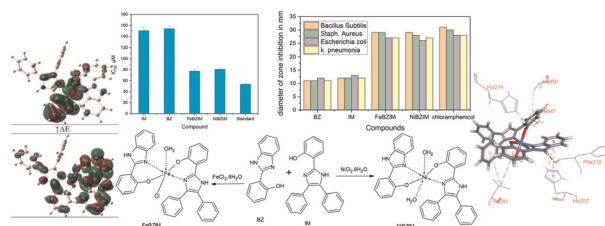


PAPERS

8819

Fe(III) and Ni(II) imidazole-benzimidazole mixed-ligand complexes: synthesis, structural characterization, molecular docking, DFT studies, and evaluation of antimicrobial and anti-inflammatory activities

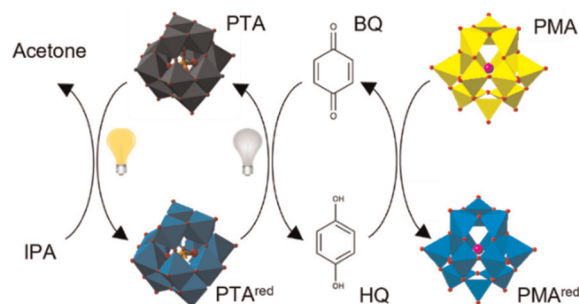
Nourah Almulhim, Hany M. Abd El-Lateef,*
Mohamed Gouda, Mai M. Khalaf and Aly Abdou*



8834

Photoinduced electron transfer cascade between Mo- and W-based polyoxometalates

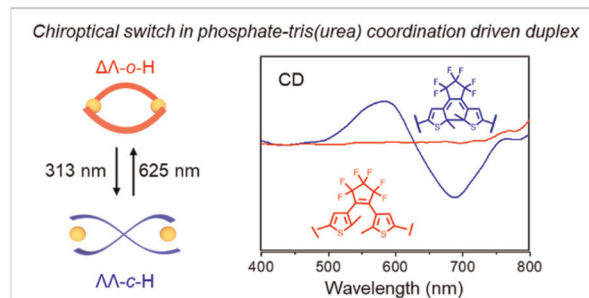
Manu Sánchez, Ana González, Emma Guerrero-Ortega,
Vipul Bansal* and Jose M. Dominguez-Vera*



8841

Dithienylethene-based supramolecular chiroptical switch in phosphate-coordination-driven 2 : 2 duplexes

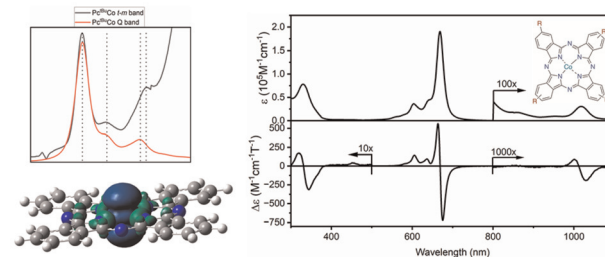
Mengxue Lu, Xiao-Wen Sun, Ji Wang, Wei Zhao,*
Hongwei Ma,* Xiao-Juan Yang and Biao Wu*



8846

Identifying charge-transfer and trip-multiplet states in Co(I), Co(II), and Co(III) phthalocyanines using (magneto)optical spectroscopy and (TD)DFT calculations

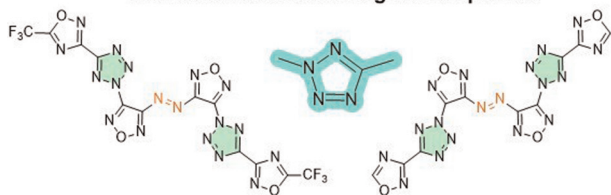
Breanna E. Muldowney, Dustin E. Nevonen,
Towhidi Illius Jeaydi, Christopher J. Ziegler,*
Brendon J. McNicholas* and Victor N. Nemykin*



PAPERS

8870

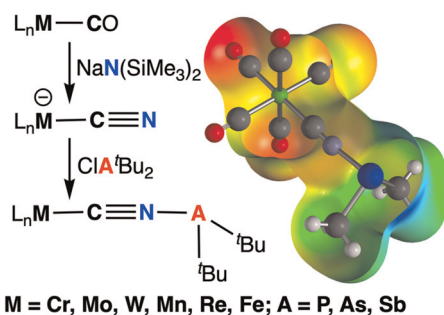
New tetrazole-based energetic compounds



Exploring the energetic potential of 2,5-disubstituted tetrazoles: a case of 2,5-bis(oxadiazolyl)tetrazoles

Vera A. Sereda, Ekaterina V. Dubasova, Ivan V. Ananyev, Ekaterina K. Kosareva and Leonid L. Fershtat*

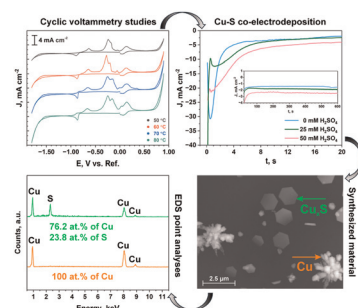
8881



Pnictogen-functionalised isocyanide ligands

Ryan M. Kirk and Anthony F. Hill*

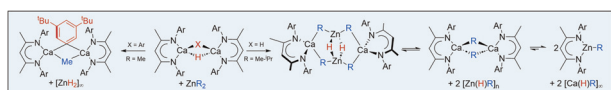
8888



A study of simultaneous electrodeposition of Cu and S in choline chloride-ethylene glycol deep eutectic solvents: a pathway to the synthesis of copper sulfide hexagons

Mateusz Szczerba,* Joanna Kapusta-Kotodziej, Mateusz M. Marzec, Krystian Sokotowski and Agnieszka Brzózka*

8903



Alkylzinc-mediated transmetalation of a calcium hydride

Kyle G. Pearce,* Mary F. Mahon and Michael S. Hill

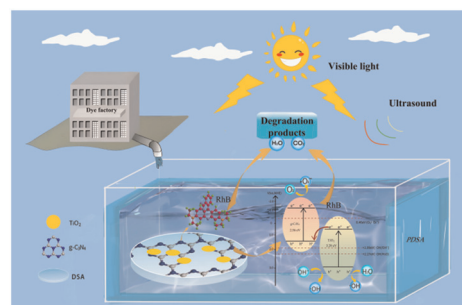


PAPERS

8908

Photocatalytic double-sided adhesives: preparation, photocatalytic degradation of dye solutions and durable performance

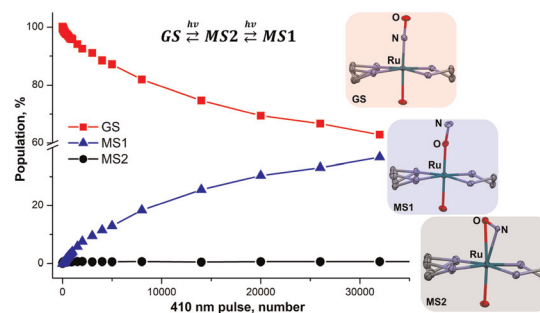
Shenglei Feng, Miaomiao Zhu, Yu Ning, Huisen Dong, Hanshuo Wei, Xiaoying Liang* and Jielu Zhu



8918

Exploring the photoswitching pathways and efficiency of NO isomerization in ethylenediamine ruthenium nitrosyl complexes

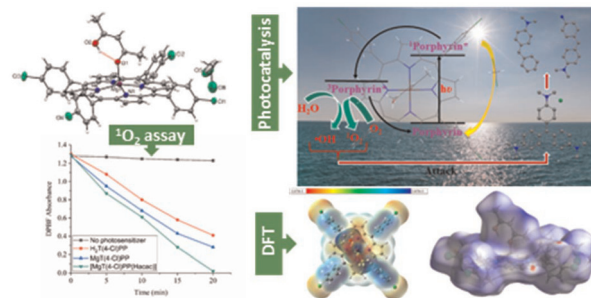
Artem A. Mikhailov,* Appolinaire Tchoutchoua Tiognou, Anastasiya O. Brovko, Gennadiy A. Kostin and Dominik Schaniel



8932

Acetylacetone as an axial ligand in metalloporphyrin: its first crystal structure, coordination chemistry, and potential application as an efficient photosensitizer

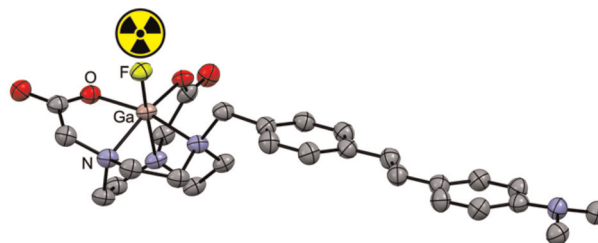
Abdul K. Choudhury and Jagannath Bhuyan*



8945

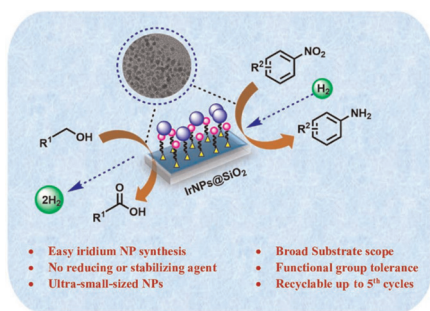
A gallium fluoride-18 complex containing a pentadentate macrocyclic ligand with a dimethylaminostilbene functional group designed for diagnostic imaging of Alzheimer's disease

HuiJing Koay, Mohammad B. Haskali, Jessica Van Zuylekom, Carleen Cullinane, Catriona A. McLean, Jonathan M. White, Peter D. Roselt and Paul S. Donnelly*



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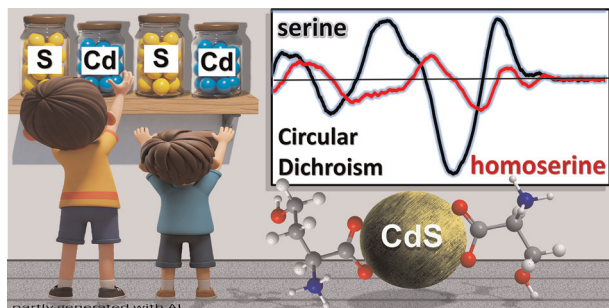
8956



Phosphine-assisted synthesis of a nanostructured iridium catalyst for acceptorless dehydrogenation of alcohols and chemoselective hydrogenation of nitroarenes

Jyotishma Baruah and Pankaj Das*

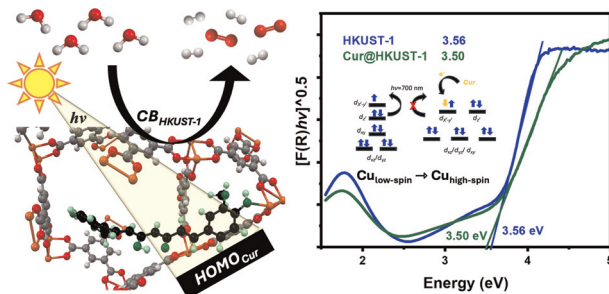
8972



Cadmium sulfide quantum dots functionalized with serine, proline, and aspartic acid homologs to study the influence of ligand size on the induced circular dichroism

Milan Balaz,* Yoonbin A. Joh and Krisztina Varga*

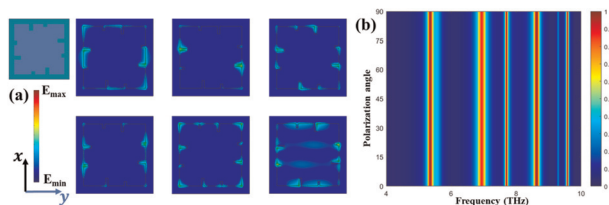
8979



Novel curcumin@HKUST-1 composite with enhanced visible light harvesting capacities for photocatalytic applications

Luis A. Alfonso-Herrera, Jesús S. Rodríguez-Girón, J. Edgar Carrera-Crespo, Francisco Tzompantzi, Daniel Sánchez-Martínez, Alejandra M. Navarrete-López* and Hiram I. Beltrán*

8993



Highly tunable rotationally symmetric multi-band terahertz absorber with enhanced sensing capabilities

Baowei Zhang, Mengsi Liu,* Yifei Huang, Yiping Xu and Zao Yi*

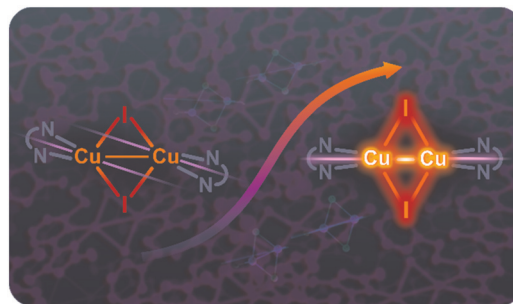


PAPERS

9000

Interplay of the Cu...Cu distance and coordination geometry as a factor affecting the quantum efficiency in dimeric copper(i) halide complexes with derivatives of 4-pyrazolylpyrimidine-2-thiol

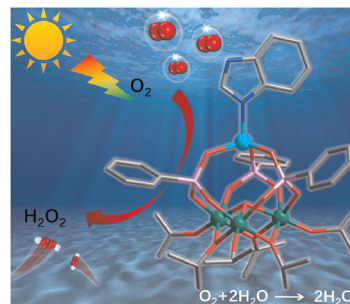
Sofia V. Skvortsova,* Fyodor K. Verkhov,
Elena B. Nikolaenkova, Marianna I. Rakhmanova,
Tatiana E. Kokina, Taisiya S. Sukhikh,
Nikita A. Shekhovtsov* and Mark B. Bushuev*



9016

Precisely tailoring Lewis pairs in polyoxotitanium clusters for efficient photocatalytic production of hydrogen peroxide

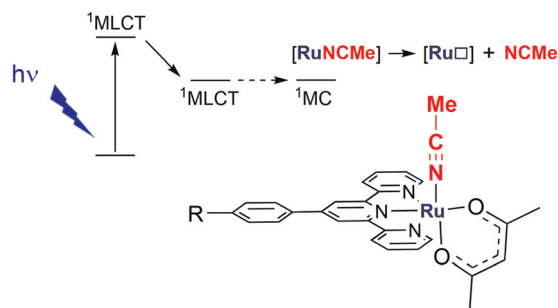
Mengke Gao, Shiming Zhang, Yayu Yan, Zehao Qian,
Liyang Qin, Xiaoyu Liu, Qing-Rong Ding, Qiaohong Li,
Xin Wu* and Jian Zhang*



9021

Photo-release of acetonitrile in ruthenium(II) complexes with various substituted terpyridine ligands

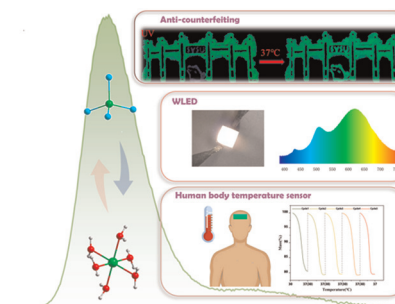
Vladyslav Mudrak, Pascal G. Lacroix,* Pablo Labra-
Vázquez, Marine Tassé, Sonia Mallet-Ladeira and
Isabelle Malfant*



9032

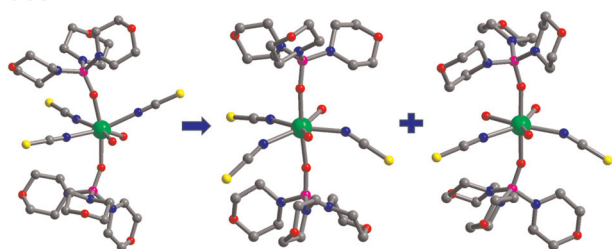
Adaptive hydrogen-bonding strategy driven 0D manganese-based metal halides with multifunctional fluorescent applications

Jiamin Liu, Yuntao Ruan, Qiaoqi Qin, Yong Shen,
Zhengliang Wang, Daibin Kuang and Long Jiang*



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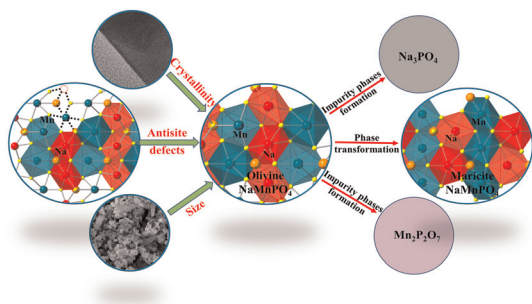
9039



Synergistic construction of highly symmetrical lanthanide single-ion magnets using neutral phosphoryl and anionic thiocyanate ligands

Bei Liu, Xiao-Yan Dong, Hui-Wen Gong, Zheng Sun, Rong Sun, Wen-Hua Zhu,* Lei Zhang, Hao-Ling Sun,* Man-Yun Zhao, Ning-Ning Huang, Qing-Yan Bian and Song Gao*

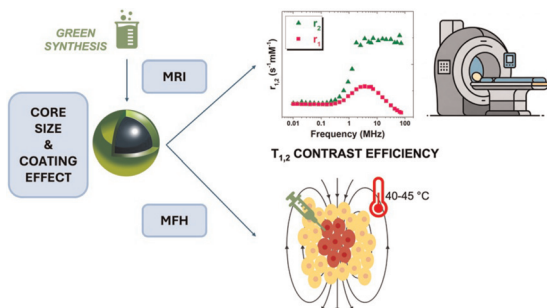
9049



On the thermal stability of olivine NaMnPO_4

Han Xiao and Haisheng Fang*

9057



Iron oxide nanospheres: dual functionality as MRI contrast agents and magnetic fluid hyperthermia therapeutics

Margherita Porru, Francesca Brero,* Carlos Diaz-Ufano, Manuel Mariani, Francesco Orsini, Paolo Arosio, Maria del Puerto Morales and Alessandro Lascialfari

9069



Syntheses and structures of cationic osmium bis(σ -B-H) borane complexes

Xiaowen Yang, Minghui Tian, Yongliang Wei, Feifei Han* and Tongdao Wang*

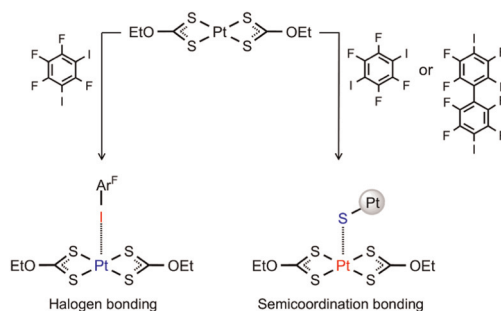


PAPERS

9076

Engineering metal site behavior: electrophilic-nucleophilic dualism in square-planar platinum(II) through geometry-controlled switching

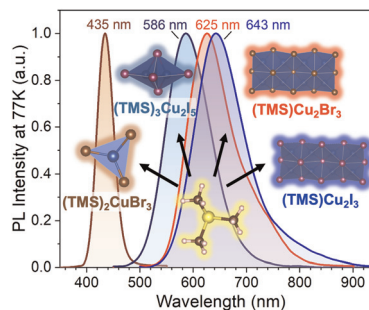
Anastasiya A. Eliseeva,* Daniil M. Ivanov,
Anton V. Rozhkov, Vadim Yu. Kukushkin and
Nadezhda A. Bokach*



9088

Crystal structures and luminescence properties of halocuprates with trimethylsulfonium cations

Andrey A. Petrov,* Luyi Chen, Mingming Li,*
Sergey A. Fateev, Andrey V. Petrov, Victor N. Khurstalev
and Alexey B. Tarasov



CORRECTIONS

9095

Correction: Functional biomimetics for copper oxidases: interesting catalytic promiscuity of novel monocopper(II) complexes

Vigneswara Chellam Ravisankar, Balasubramaniam Selvakumaran, Tamilarasan Ajaykamel and Mariappan Murali*

9097

Correction: Construction of ternary TiO₂/CdS/IrO₂ heterostructure photoanodes for efficient glycerol oxidation coupled with hydrogen evolution

Chenfeng Jiang, Yibo Ding, Jiayu Lin, Yi Sun, Wei Zhou, Xiaoyan Zhang,* Hongbin Zhao, Weimin Cao and
Danhong Cheng

