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See Akihiro Tsurusaki,
Ken Kamikawa *et al.*,
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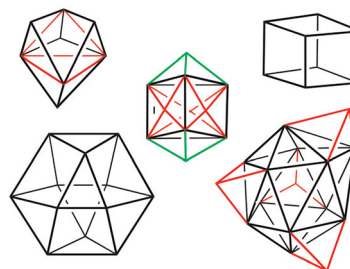
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2024, **53**, 2929.

PERSPECTIVE

2895

Systematics of stable copper and silver clusters protected by small bite chelating bidentate sulfur and selenium ligands related to their polyhedral cavities: analogies to aliphatic compounds and three-dimensional spherical aromatic systems

R. Bruce King



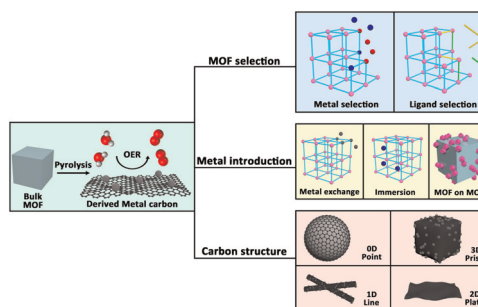
Polyhedra in Chelating Dithiolate Protected Copper and Silver Clusters

FRONTIER

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Insights on MOF-derived metal–carbon nanostructures for oxygen evolution

Junliang Chen and Jinjie Qian*



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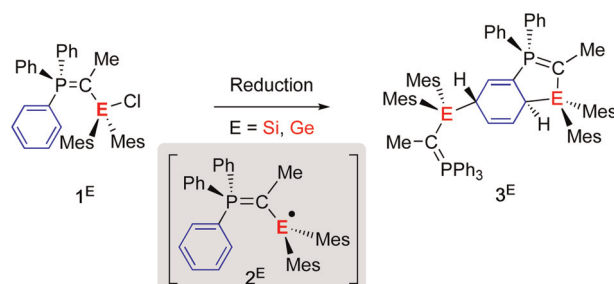


COMMUNICATIONS

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Intramolecular dearomative 1,4-addition of silyl and germyl radicals to a phenyl moiety

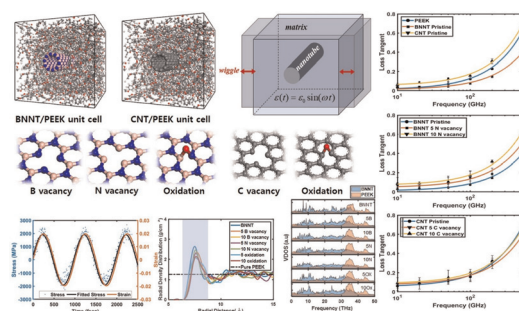
Felix Krämer, Jonas O. Wenzel, Israel Fernández* and Frank Breher*



2922

BNNT vs. CNT: influence of structural defects on damping characteristics of nanocomposites

Taeho Lee, Jun-Sik Kim and Seunghwa Yang*

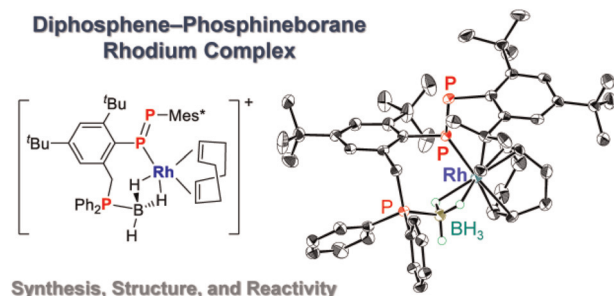


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Diphosphene with a phosphineborane tether and its rhodium complex

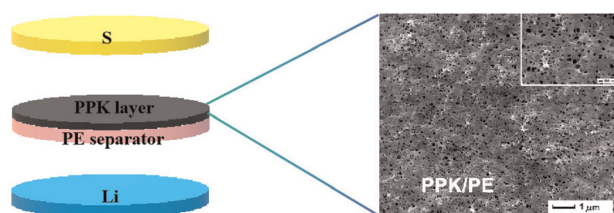
Akihiro Tsurusaki,* Shingo Takechi and Ken Kamikawa*



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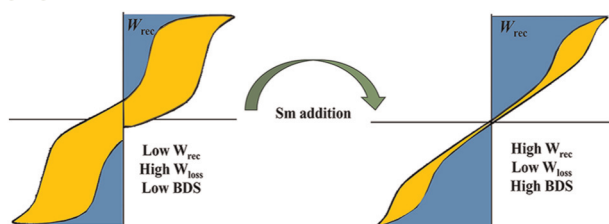
Enhancing the electrochemical properties of a lithium–sulfur battery using a modified separator with a phase-inversion layer

Songwei Li, Shengli Pang,* Xinye Qian,* Lina Jin and Xiangqian Shen



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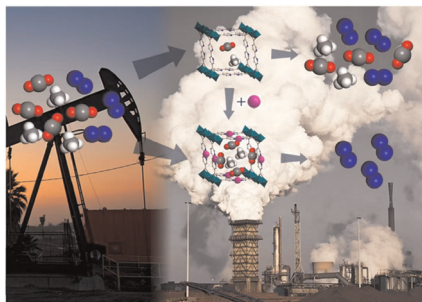
2949



Achieving excellent energy storage performance with thermal stability in lead-free AgNbO_3 ceramics

Wenna Chao, Juan Du, Peng Li, Wei Li and Tongqing Yang*

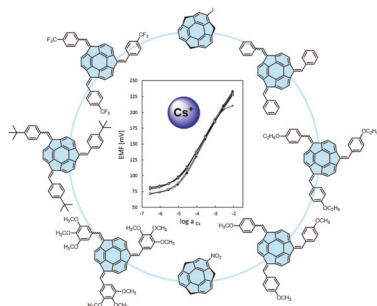
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Enhancing CO_2/N_2 and CH_4/N_2 separation performance by salt-modified aluminum-based metal–organic frameworks

Peng Zhang, Sai Ma, Yujuan Zhang, Chaohui He* and Tuoping Hu*

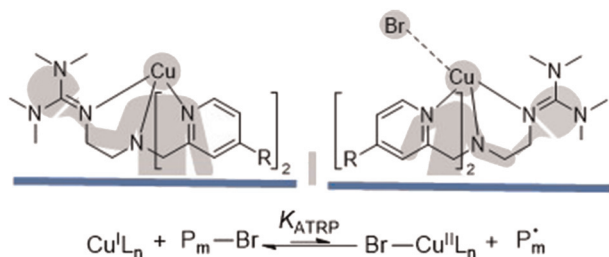
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Expanding the library of sumanene molecular receptors for caesium-selective potentiometric sensors

Joachim Ażgin, Małgorzata Wesoly, Krzysztof Durka, Hidehiro Sakurai, Wojciech Wróblewski and Artur Kasprzak*

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ATRP catalysts of tetradentate guanidine ligands – do guanidine donors induce a faster atom transfer?

Konstantin W. Kröckert, Felix Garg, Joshua Heck, Michel V. Heinz, Justin Lange, Regina Schmidt, Alexander Hoffmann and Sonja Herres-Pawlis*

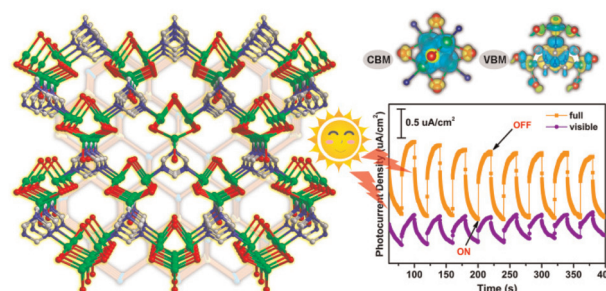


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[Ag₄Br₆] cluster-based 3D bromoargentate hybrid: crystal structure, optical/photoelectrical performance and theoretical study

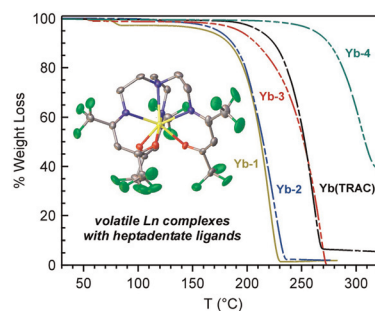
Ming-Hui Liu, Wei-Yang Wen, Hong-Yao Shen, Yan Yang, Jun Li* and Bo Zhang*



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Volatile lanthanide complexes with fluorinated heptadentate ligands

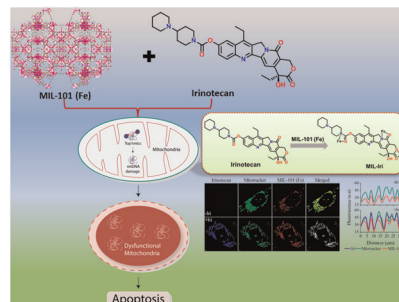
Joshua C. Zgrabik, Balaka Bhuniya, Thomas Branstad Phillips, Jorge Barroso, Bess Vlasisavljevic and Scott R. Daly*



3010

Mitochondrial topoisomerase 1 targeted anticancer therapy using irinotecan encapsulated mesoporous MIL-101(Fe) synthesized *via* a vapour assisted method

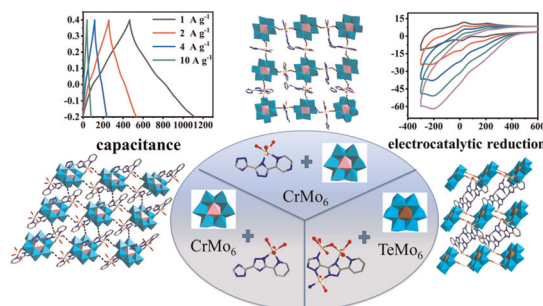
Anirban Ghosh, Arijit Ghosh, Arpan Bhattacharyya, Riddhi Mitra, Benu Brata Das* and Asim Bhaumik*



3020

Improved capacitive performances and electrocatalytic reduction activity by regulating the bonding interaction between Zn-bis(triazole-pyrazine)/pyridine units and diverse Anderson-type polyoxometalates

Ju-Ju Liang, Yu-Chun Lin, Zhi-Han Chang and Xiuli Wang*



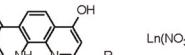
Zhiwei Lu, Xiaoxiao Pei, Tingting Wang, Kewei Gu,
Nan Yu, Mingsong Wang* and Junli Wang*

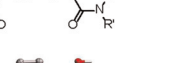
Zhiwei Lu, Xiaoxiao Pei, Tingting Wang, Kewei Gu,
Nan Yu, Mingsong Wang* and Junli Wang*

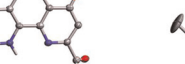
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Patrique Nunes, João Costa Pessoa, Isabel Correia* and
Ignacio E. León*

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Patrique Nunes, João Costa Pessoa, Isabel Correia* and
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unsymmetrical form **symmetrical form**







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Vitaly A. Roznyatovsky, Alexei D. Averin,
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Pavel D. Perflyev, Ksenia L. Isakovskaya,
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Toushique Ahmed, Amit Chakraborty, Sanchari Maity
and Sujoy Baitalik*

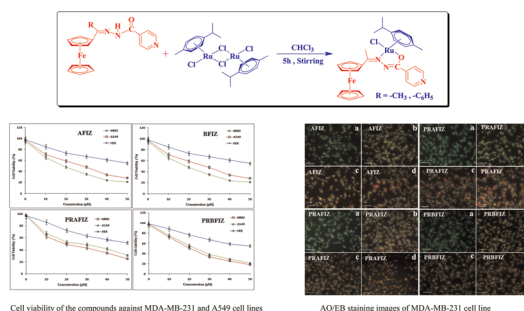
Toushique Ahmed, Amit Chakraborty, Sanchari Maity
and Sujoy Baitalik*

PAPERS

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Preparation of new organo-ruthenium(II) complexes and their nucleic acid/albumin binding efficiency and *in vitro* cytotoxicity studies

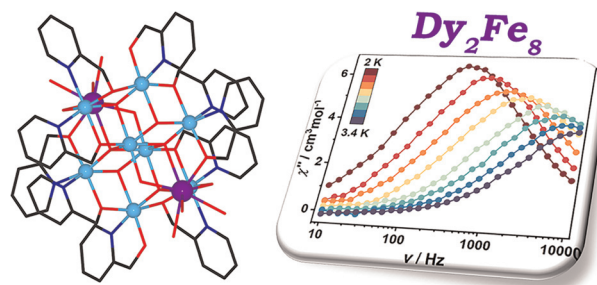
M. Sindhu, P. Kalaivani,* G. Prabusankar, R. Sivasamy and R. Prabhakaran*



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Single-molecule magnet behavior in heterometallic decanuclear $[\text{Ln}_2\text{Fe}_8]$ ($\text{Ln} = \text{Y}, \text{Dy}, \text{Ho}, \text{Tb}, \text{Gd}$) coordination clusters

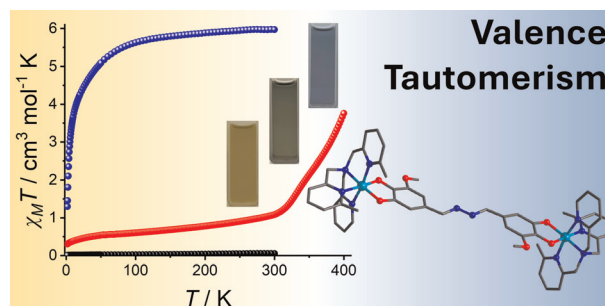
Man-Ting Chen, Hai-Xia Zhao,* La-Sheng Long* and Lan-Sun Zheng



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Tuning valence tautomerism in a family of dinuclear cobalt complexes incorporating a conjugated bridging bis(dioxolene) ligand with weak communication

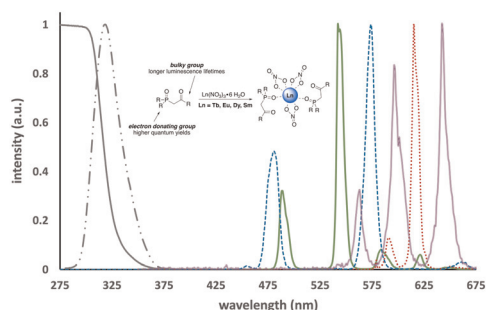
Tristan E. Fischer, Jett T. Janetzki, F. Zahra M. Zahir, Robert W. Gable, Alyona A. Starikova and Colette Boskovic*



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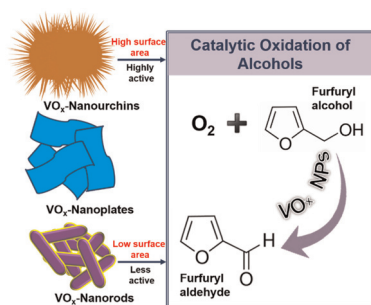
Three derivatives of phenacyldiphenylphosphine oxide: influence of aromatic and alkyl substituents on the luminescence sensitization of four $\text{Ln}(\text{NO}_3)_3$ salts

Georgia G. Sands, Alyssa K. Cook, Angelina Delabbio, Tim Fuhrer, Matthew D. Bailey, Erin G. Leach, Isabella R. Puroskey and Shannon M. Biroš*



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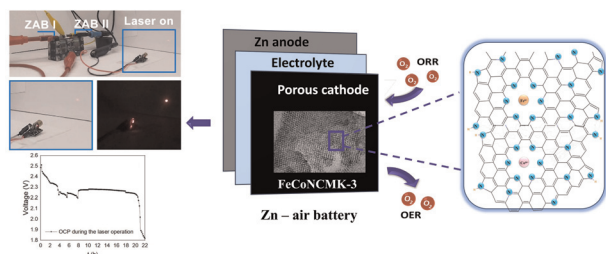
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Solvothermal synthesis of VO₂ nanoparticles with locally patched V₂O₅ surface layer and their morphology-dependent catalytic properties for the oxidation of alcohols

Dorothea Gömpel, Muhammad Nawaz Tahir,*
Mujeeb Khan, Syed Farooq Adil, Mohammed Rafi Shaik,
Mufsir Kuniyil, Abdulrahman Al-Warthan and
Wolfgang Tremel*

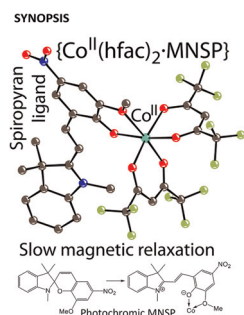
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Porous carbonaceous materials simultaneously dispersing N, Fe and Co as bifunctional catalysts for the ORR and OER: electrochemical performance in a prototype of a Zn–air battery

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Sebastián Pérez, Juan Muñoz Saldaña, Ligia Sierra,
Betty Lucy López, Alonso Moreno-Zuria,
Mohamed Mohamedi and Ruben Palacio*

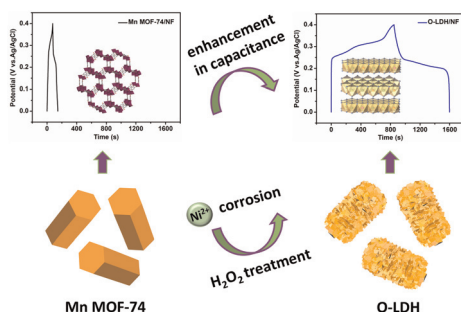
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Slow magnetic relaxation in a complex of photochromic spiropyran in a merocyanine form and cobalt(II) hexafluoroacetylacetonate

Nikita G. Osipov, Maxim A. Faraonov, Ilya A. Yakushev,
Nikolay N. Denisov, Akihiro Otsuka, Hiroshi Kitagawa
and Dmitri V. Konarev*

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Efficient improvement in the electrochemical performance of petal-like lamellar NiMn–LDHs with affluent oxygen vacancies derived from Mn MOF-74

Jing Shi, Hongbo Tai, Dongwei Xu, Xiaomin Kang* and
Zhiliang Liu*

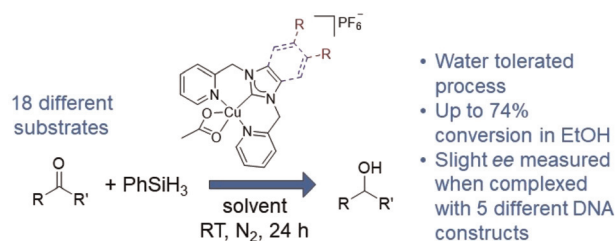


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Three water-soluble copper(II) *N*-heterocyclic carbene complexes: toward copper-catalyzed ketone reduction under sustainable conditions

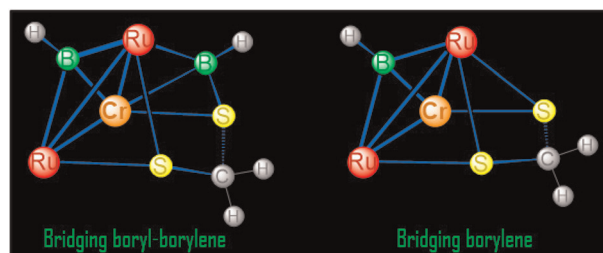
Mitu Sharma, Amanda M. Perkins, Raymond Femi Awoyemi, Allison N. Schmittou, Selvam Raju, Brad S. Pierce, Bruno Donnadieu, David O. Wipf, Sean L. Stokes and Joseph P. Emerson*



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Hetero-trimetallic complexes comprising bridging boryl and borylene ligands: an experimental and theoretical study

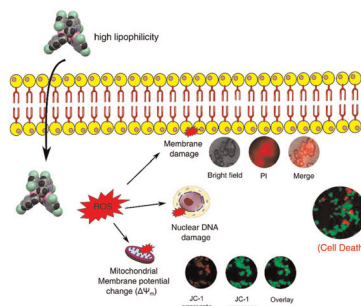
Subhash Bairagi, Soumen Giri, Deepak Kumar Patel, Diana Luong, Boniface P. T. Fokwa* and Sundargopal Ghosh*



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Transferrin-inspired iron delivery across the cell membrane using [(L₂Fe)₂(μ-O)] (L = chlorquinaldol) to harness anticancer activity of ferroptosis

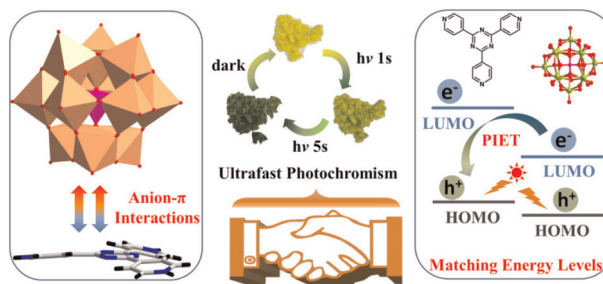
Nalin Abeydeera, Khalil Mudarmah, Bishnu D. Pant, Jeanette A. Krause*, Yao-Rong Zheng* and Songping D. Huang*



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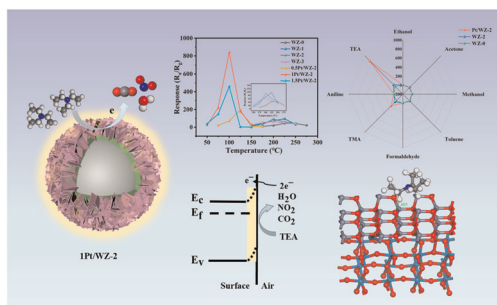
Polyoxometalate/s-triazine hybrid heterostructures with ultrafast photochromic properties

Yue-Chen Chen, Yi-Ming Di, Shu-Quan Zhang and Mei-Jin Lin*



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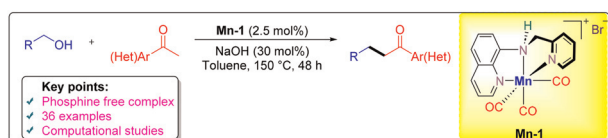
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Preparation of Pt/WO₃@ZnO hollow spheres for low-temperature and high-efficiency detection of triethylamine

Junyi Dong, Junkai Shao, Caixuan Sun, Guofeng Pan* and Xueli Yang*

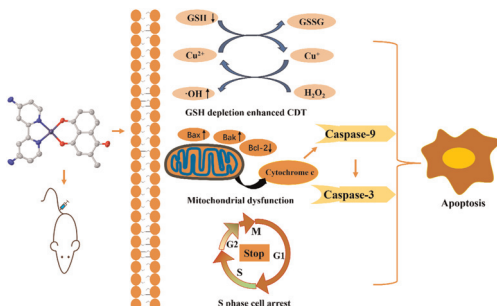
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NNN manganese complex-catalyzed α -alkylation of methyl ketones using alcohols: an experimental and computational study

Sachin Jalwal, Anitta Regina, Vaishnavi Atreya, Manikandan Paranjothy* and Subrata Chakraborty*

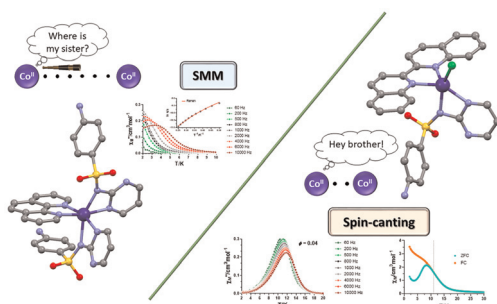
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Discovery of mitochondrion-targeting copper(II)-plumbagin and -bipyridine complexes as chemodynamic therapy agents with enhanced antitumor activity

Hai-Qun Zhang, Xing Lu, Jiang-Lun Wu, Mei-Quan Ou, Nan-Feng Chen, Hong Liang* and Zhen-Feng Chen*

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Spin canting and slow magnetic relaxation in mononuclear cobalt(II) sulfadiazine ternary complexes

Cristian Villa-Pérez,* Andoni Zabala-Lekuona,* Iñigo J. Vitorica-Yrezabal, José Manuel Seco, Javier Cepeda, Gustavo Alberto Echeverría and Delia Beatriz Soria*

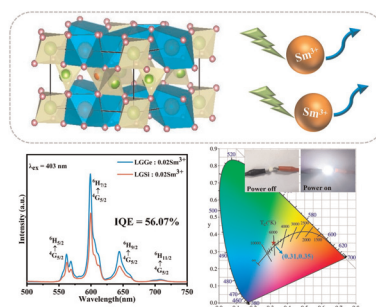


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Novel Sm^{3+} -doped $\text{La}_3\text{Ga}_5\text{MO}_{14}$ ($M = \text{Si}$ or Ge) phosphors for indoor illumination: effects of M cations on photoluminescence

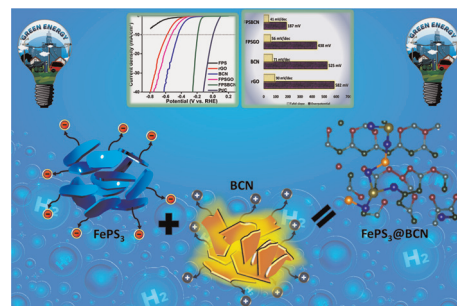
Xiaohua Li, Jina Ding,* Zhuo Tang, Xinyi Lin, Huan Dong, Anhua Wu and Linwen Jiang*



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Electrostatic co-assembly of FePS_3 nanosheets and surface functionalized BCN heterostructures for hydrogen evolution reaction

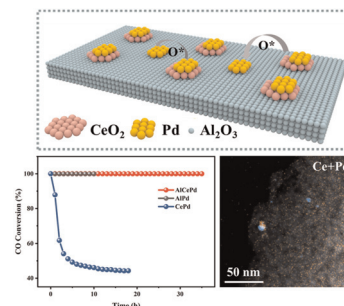
Abhinandan Patra, K. Pramoda, Shridhar Hegde, Aravind K., Kseniia Mosina, Zdenek Sofer and Chandra Sekhar Rout*



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Boosting the catalytic performance of Al_2O_3 -supported Pd catalysts by introducing CeO_2 promoters

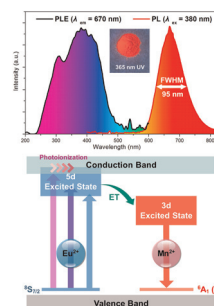
Xiaoxiao Han, Lingling Zhang,* Rui Zhang, Ke Wang, Xiao Wang, Bo Li,* Zhiping Tao, Shuyan Song* and Hongjie Zhang



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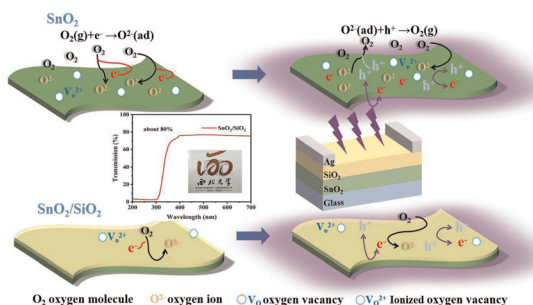
Wide-band excited and deep-red sensitized Mn^{2+} emission from an $\text{NaSrSc}(\text{BO}_3)_2:\text{Eu}^{2+}$, Mn^{2+} phosphor with vanished Eu^{2+} emission

Jiaqi Fan, Hongji Song, Wenjing Huang, Jiahui Zhang, Lingran Wu, Chunyan Zhou,* Zhan-chao Wu* and Xinguo Zhang*



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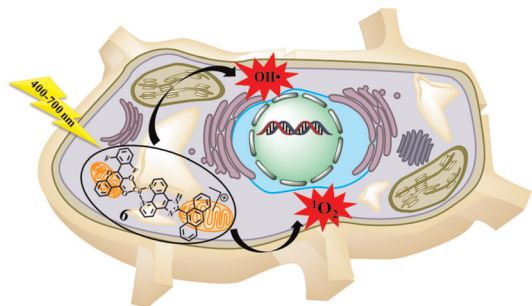
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The enhanced responsivity and response speed of SnO_2 visible-blind transparent photodetectors via the SiO_2 passivation layer

Mingkun Huang, Yue Wang, Lei Yang, Sen Ren, Le Wang, Yuanhao Kang and Niumiao Zhang*

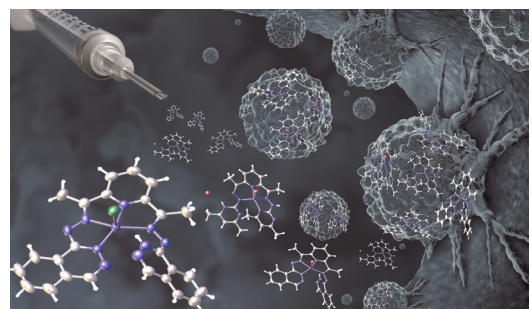
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Cu(II) flavonoids as potential photochemotherapeutic agents

Namisha Das, Bidisha Bora, Aarti Upadhyay, Dhananjay Das, Arpan Bera* and Tridib K. Goswami*

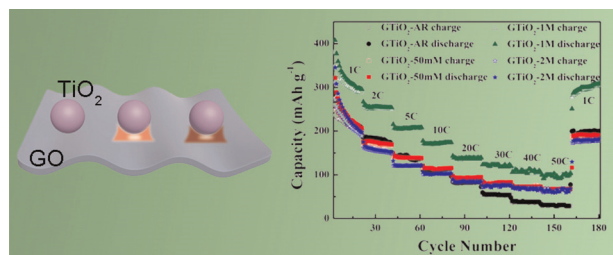
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Copper(II) coordination compounds based on bis-hydrazones of 2,6-diacetylpyridine: synthesis, structure, and cytotoxic activity

Anna A. Kapustina, Yulia P. Tupolova,* Leonid D. Popov, Valery G. Vlasenko, Konstantin B. Gishko, Alexandra G. Berejnaya, Aleksandr A. Shcherbatykh, Yuliya A. Golubeva, Lyubov S. Klyushova, Elizaveta V. Lider, Vladimir A. Lazarenko, Oleg P. Demidov, Pavel A. Knyazev, Stanislav S. Bachurin, Vladimir B. Nalbandyan and Igor N. Shcherbakov

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Spontaneous redox reaction-mediated interfacial charge transfer in titanium dioxide/graphene oxide nanoanodes for rapid and durable lithium storage

Nan Jiang, Yuzhao Zhang, Yutong Zhao, Huilin Fan, Runguo Zheng, Zhiyuan Wang, Hongyu Sun* and Yanguo Liu*

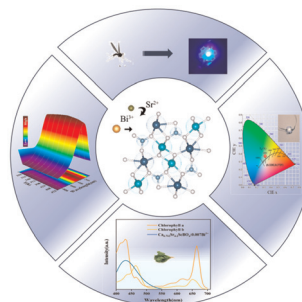


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A novel blue emitting phosphor $\text{Ca}_{1-y}\text{Sr}_y\text{ScBO}_4:\text{Bi}^{3+}$ with zero-thermal quenching for multi-scenario application

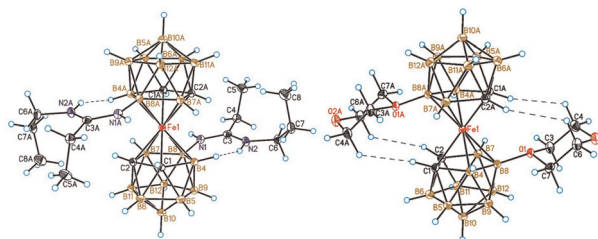
Zekang Yan, Panlai Li,* Jie Gong, Mengdi Liu, XiuXiu Feng, Ting Zhang, Xiaojie Li, Dongxu Guo, Hao Suo and Zhijun Wang*



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Charge-compensated *nido*-carborane derivatives in the synthesis of iron(II) bis(dicarbollide) complexes

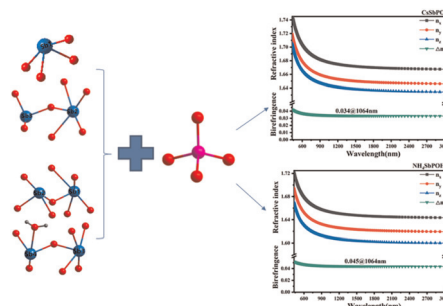
Marina Yu. Stogniy, Sergey A. Anufriev, Ekaterina V. Bogdanova, Nadezhda A. Gorodetskaya, Alexei A. Anisimov, Kyrill Yu. Suponitsky, Ivan D. Grishin and Igor B. Sivaev*



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Novel antimony phosphates with enlarged birefringence induced by lone pair cations

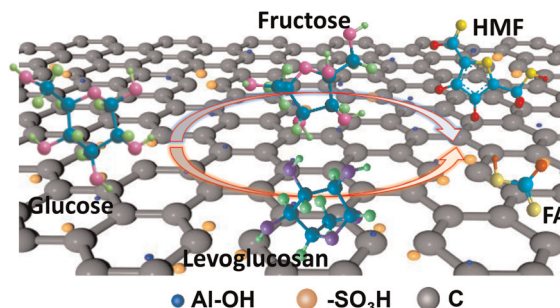
Mei Hu, Jialong Wang, Nuerbiye Tuerhong, Zhiyuan Zhang, Qun Jing,* Zhaohui Chen,* Yonglei Yang and Ming-Hsien Lee



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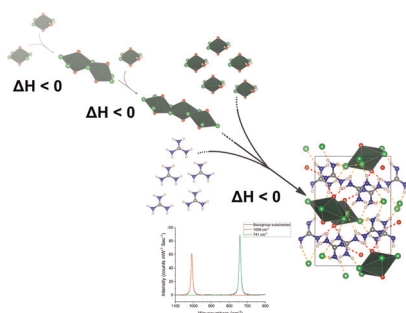
Aluminum ion intercalation in mesoporous multilayer carbocatalysts promotes the conversion of glucose to 5-hydroxymethylfurfural

Mingfu Li,* Liqun Jiang, Sufei Feng, Junsheng Huang, Pingjun Zhang* and Jian Zhang*



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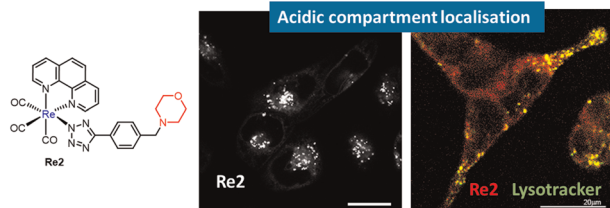
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Synthesis, characterization, and density functional theory investigation of $(\text{CH}_6\text{N}_3)_2[\text{NpO}_2\text{Cl}_3]$ and $\text{Rb}[\text{NpO}_2\text{Cl}_2(\text{H}_2\text{O})]$ chain structures

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Synthesis and cellular uptake of neutral rhenium(II) morpholine complexes

Christie A. Bader, Peter V. Simpson, Elena Dallerba, Stefano Stagni, Ian R. D. Johnson, Shane M. Hickey, Alexandra Sorvina, Mark Hackett, Alexandre N. Sobolev, Doug A. Brooks, Massimiliano Massi* and Sally E. Plush*

CORRECTIONS

3414

Correction: Antiproliferative activity of Ni(II), Cu(II), and Zn(II) complexes of dithiocarbamate: synthesis, structural characterization, and thermal studies

Anupam Singh, Kunal Shiv, Ranjeet Singh, M. K. Bharty, Partha Pratim Manna* and Lal Bahadur Prasad*

3415

Correction: ^{57}Fe Mössbauer spectroscopy and high-pressure structural analysis for the mechanism of pressure-induced unique magnetic behaviour in $(\text{cation})[\text{Fe}^{\text{II}}\text{Fe}^{\text{III}}(\text{dto})_3]$ (cation = Ph_4P and $^n\text{PrPh}_3\text{P}$; dto = 1,2-dithiooxalato)

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