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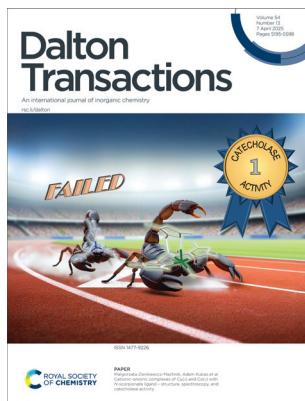
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Cover

See Xianglei Kong et al.,
pp. 5259–5267.

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5259.



Inside cover

See Małgorzata Zienkiewicz-
Machnik, Adam Kubas et al.,
pp. 5268–5285.

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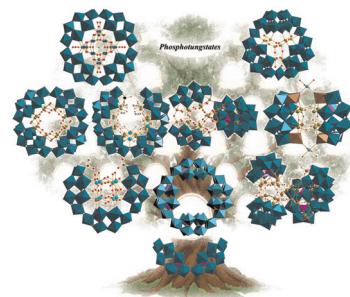
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PERSPECTIVE

5208

The cyclic 48-tungsto-8-phosphate [H₇P₈W₄₈O₁₈₄]³³⁻ Contant-Tézé polyanion and its derivatives [H₆P₄W₂₄O₉₄]¹⁸⁻ and [H₂P₂W₁₂O₄₈]¹²⁻: structural aspects and reactivity

Sib Sankar Mal,* Abhishek Banerjee and Ulrich Kortz*

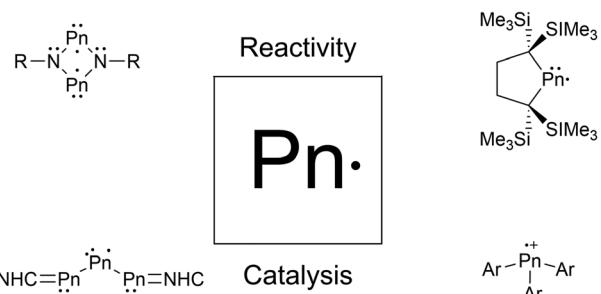


FRONTIER

5234

Recent advances in heavier group 15 (P, As, Sb, Bi) radical chemistry – frameworks, small molecule reactivity, and catalysis

Deana L. G. Symes and Jason D. Masuda*



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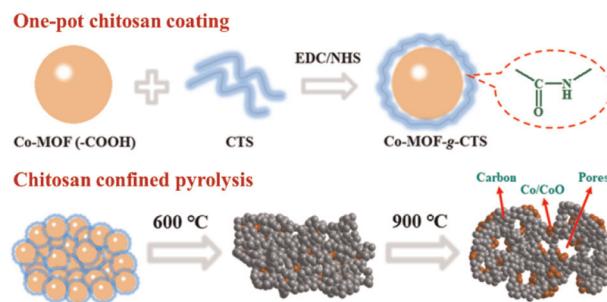
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COMMUNICATIONS

5250

The chitosan confined pyrolysis strategy enhances the catalytic performance of a carbon material based on a novel carboxyl functionalized MOF

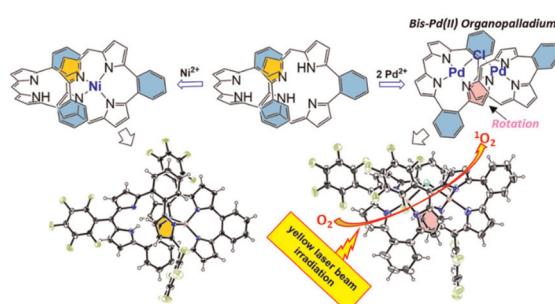
Dongsheng Wang, Tingyu He, Mingyue Fan, Tuotuo Li, Haina Qi, Zihan Lin,* Xiaoli Hu* and Zhongmin Su*



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Metal ions control configuration and $^1\text{O}_2$ generation capacity of hexaphyrin(2.1.2.1.2.1) with embedded benzene

Jinrong Wu, Xiaojuan Lv, Zhaoli Xue,* Yue Wang, Fengxian Qiu* and Songlin Xue*

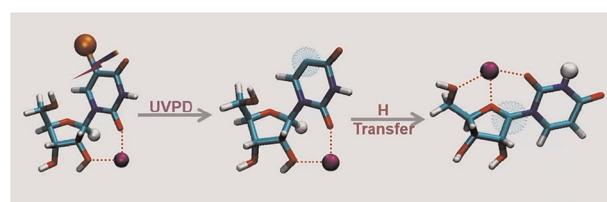


PAPERS

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Transition of the coordination modes in sodiated uridine radicals revealed by infrared multiphoton dissociation spectroscopy and theoretical calculations

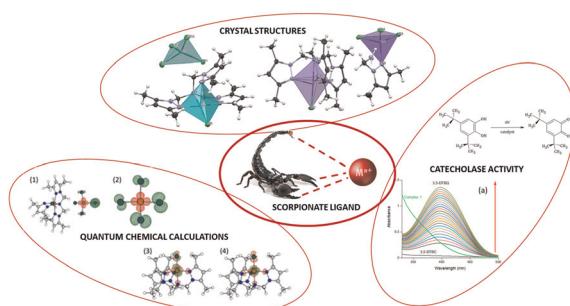
Kairui Yang, Min Kou, Zicheng Zhao, Jinyang Li and Xianglei Kong*



5268

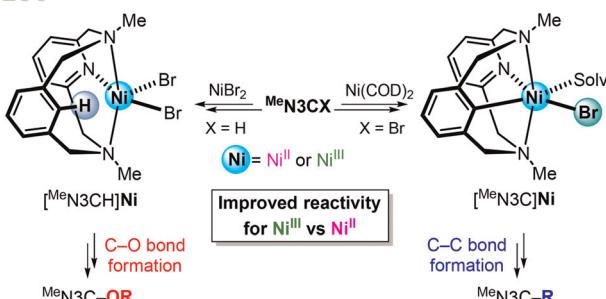
Cationic–anionic complexes of Cu(II) and Co(II) with *N*-scorpionate ligand – structure, spectroscopy, and catecholase activity

Małgorzata Zienkiewicz-Machnik,* Roman Luboradzki, Justyna Mech-Piskorz, Gonzalo Angulo, Wojciech Nogala, Tomasz Ratajczyk, Pavlo Aleshkevych and Adam Kubas*



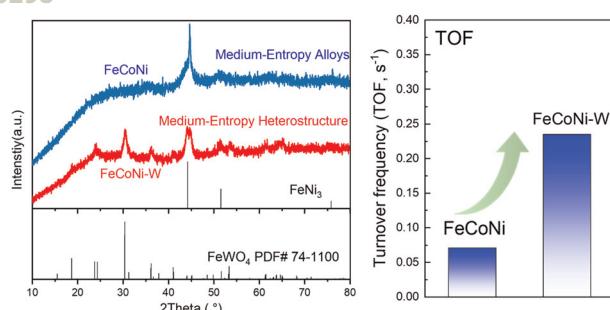
PAPERS

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**C–C and C–O bond formation reactivity of nickel complexes supported by the pyridinophane $\text{Me}^{\text{Me}}\text{N}^{\text{3C}}$ ligand**

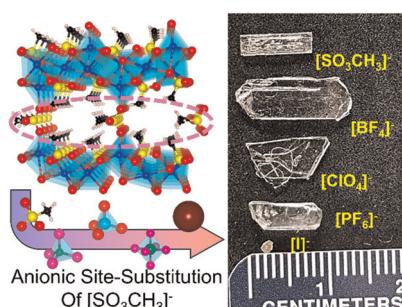
Joshua Ji-Nung Leung, Dae Young Bae, Yusuff Moshhood and Liviu M. Mirica*

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**Tungsten regulated medium-entropy heterostructure as a highly efficient electrocatalyst for oxygen evolution reaction**

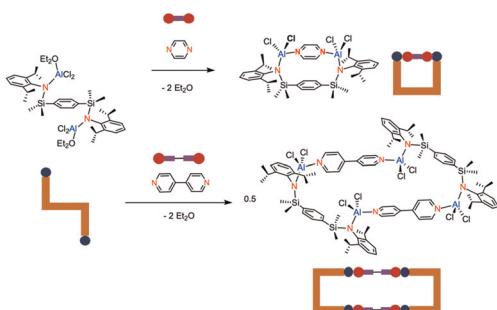
Jianliang Yuan, Qianglong Qi, Qingwen Wan, Jiangli Gong, Yue Zhang, Yuebin Feng, Chengxu Zhang* and Jue Hu*

5301

**Synthesis and large crystal growth of a family of mixed-anionic methanesulfonate salts by anionic site-substitution: $\text{Na}_5(\text{SO}_3\text{CH}_3)_4(\text{X})$ ($\text{X} = \text{BF}_4^-$, ClO_4^- , PF_6^- , I^-)**

Eric A. Gabilondo and P. Shiv Halasyamani*

5311

**Flexible bidentate aluminum Lewis acids for host-guest complex formation**

Tz-Ching Tsui, Hao-Yuan Lan, Han-Jung Li, Ting-Shen Kuo and Hsueh-Ju Liu*

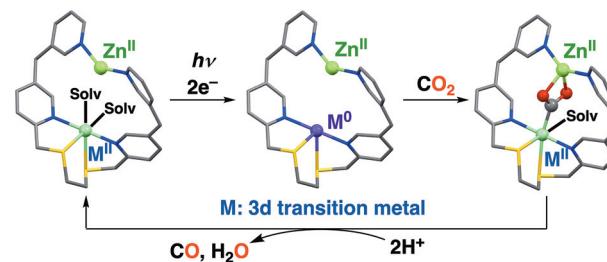


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Photocatalytic CO₂ reduction catalysed by 3d transition metal complexes bearing an S₂N₂ ancillary ligand equipped with pyridine pendants as binding sites for Lewis acids

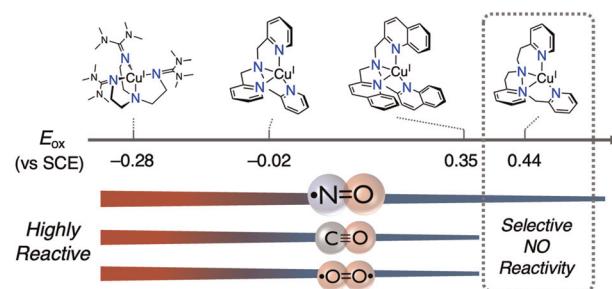
Tomoya Ishizuka, Asuka Hamaguchi, Yuki Hayashi, Yuto Tsukakoshi, Hiroaki Kotani, Takuya Kawanishi and Takahiko Kojima*



5327

Reactivity of copper(i) complexes supported by tripodal nitrogen-containing tetradentate ligands toward gaseous diatomic molecules, NO, CO and O₂

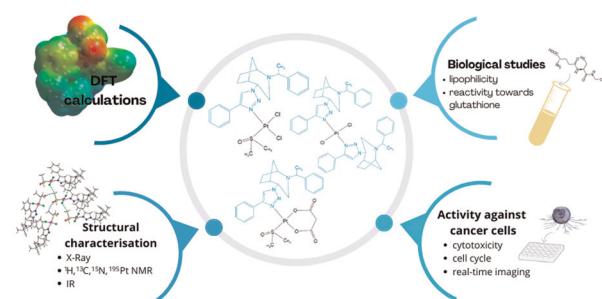
Yuma Morimoto,* Keisuke Inoue and Shinobu Itoh*



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Unveiling the promising *in vitro* anticancer activity of lipophilic platinum(II) complexes containing (1S,4R,5R)-4-(4-phenyl-1*H*-1,2,3-triazol-1-yl)-2-((S)-1-phenylethyl)-2-azabicyclo[3.2.1]octane: a spectroscopic characterization and DFT calculation

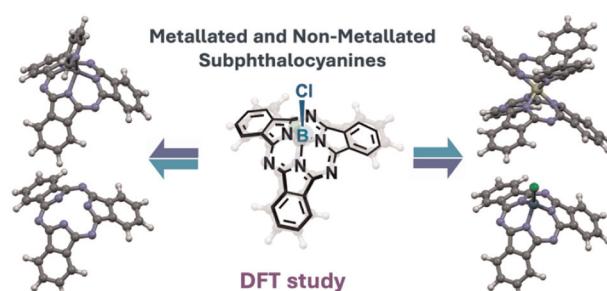
Adriana Kaszuba, Jerzy Sitkowski, Tadeusz Muzioł, Karolina Pokrzewka, Łukasz Kaźmierski, Małgorzata Maj, Franz Steppeler, Elżbieta Wojaczyńska, Marcin Hoffmann and Iwona Łakomska*



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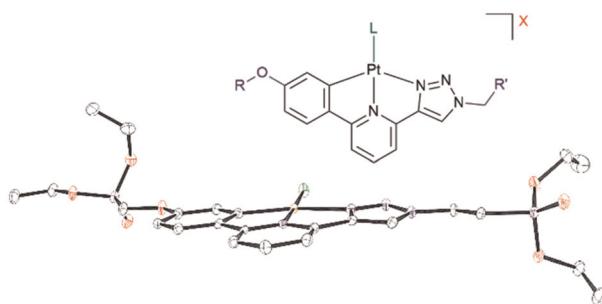
Effects of removing boron from subphthalocyanines: a theoretical perspective

Jorge Labella,* Jorge Labrador-Santiago, Daniel Holgado and Tomás Torres*



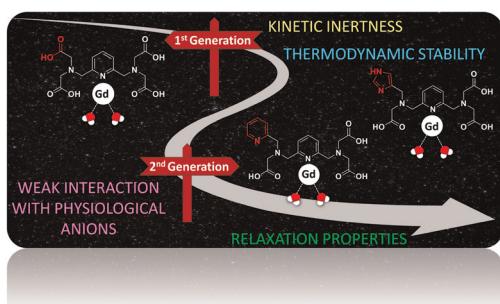
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Water-soluble luminescent platinum(II) complexes for guanine quadruplex binding

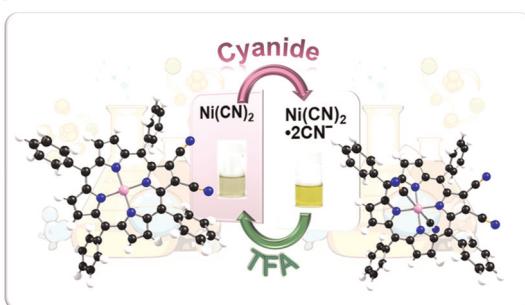
Simon Kroos, Marian Hebenbrock, Alexander Hepp, Marcus Layh, Joschua Lüke, Ali R. Tonkul, Cristian A. Strassert and Jens Müller*

5391


Tailoring the local environment of Ln^{3+} in pyridine-based complexes: effect on the thermodynamic, kinetic, structural and relaxation properties

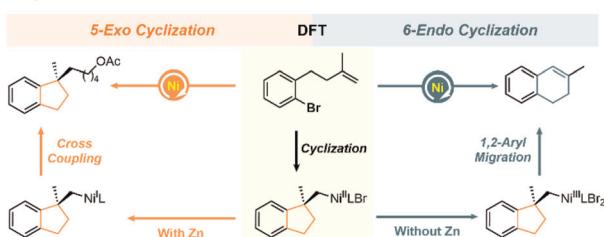
Martina Sanadar, Loëza Collobert, Harlei Martin, Jean-François Morfin, Zoltán Garda, Agnès Pallier, Serge Gambarelli, Andrea Melchior and Célia S. Bonnet*

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Synthesis, spectral and electrochemical studies of electron-deficient nitrile porphyrins and their utilization in selective cyanide sensing

Varusha Bhardwaj and Muniappan Sankar*

5419


Nickel-catalyzed reductive arylalkylation of alkenes: 5-exo cyclization vs. 6-endo cyclization vs. 1,2-aryl migration to 6-endo product

Yuxin Du, Hongli Wu, Miao Yang, Yuanbin She* and Yun-Fang Yang*



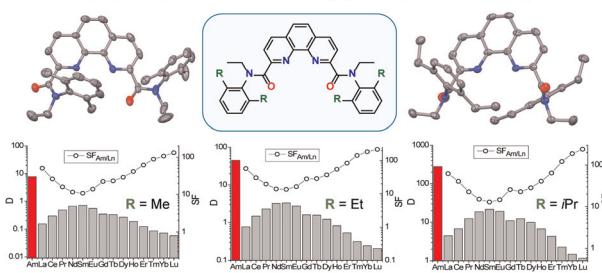
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Steric hindrance of phenanthroline diamides enables a hundredfold increase in Am(III) extraction efficiency

Nane A. Avagyan, Roman V. Zonov, Pavel S. Lempert, Mariia V. Evsionina, Petr I. Matveev, Vitaly A. Roznyatovsky, Alexei D. Averin, Paulina Kalle, Victor A. Tafeenko, Svetlana A. Soloveva, Yulia V. Nelyubina, Vladimir G. Petrov, Yuri A. Ustyynyuk and Valentine G. Nenajdenko*

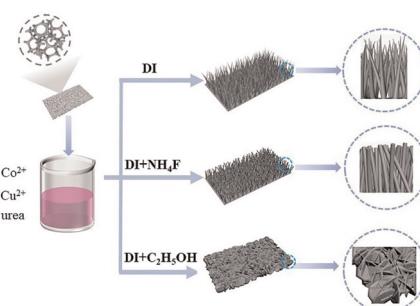
A hundredfold increase of Am(III) extraction efficiency



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Facile and controllable synthesis of sea urchin-like CuCo₂O₄ on Ni foam for high-performance supercapacitors

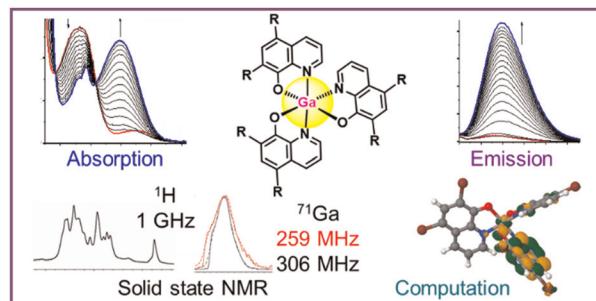
Bo Sun, Man Li, Linwen Li, Qijian Li, Xiaowen Chen, Fuxiang Wei,* Yanwei Sui, Jie He and Zunyang Zhang



5446

New insights into bioactive Ga(III) hydroxyquinolinate complexes from UV-vis, fluorescence and multinuclear high-field NMR studies

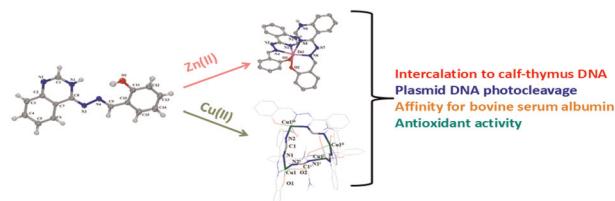
Vanessa V. Gaensicke, Stephanie Bachmann, Luca Craciunescu, Andrew W. Prentice, Martin J. Paterson, Dinu Iuga, Peter J. Sadler* and Rafael Cavalieri Marchi*



5458

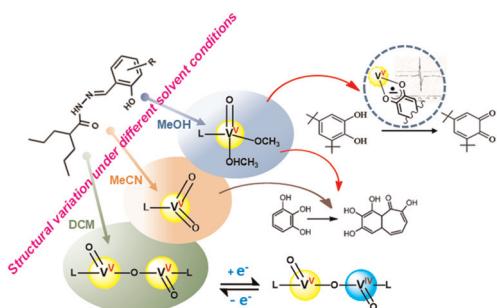
A mononuclear zinc(II) complex and a tetranuclear copper(II) azametallacoronate with (E)-2-((2-(quinazolin-4-yl)hydrazone)methyl)phenol: structure and biological activity

Chrisoula Kakoulidou, Antonios G. Hatzidimitriou, Konstantina C. Fylaktakidou* and George Psomas*



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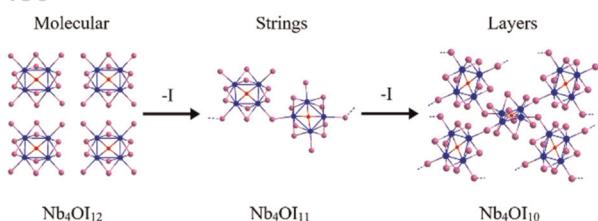
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New $V^{\text{V}}\text{O}_2$, $V^{\text{V}}\text{O}$, $V^{\text{V}}\text{OV}^{\text{V}}\text{O}$ and electrogenerated $V^{\text{IV}}\text{OV}^{\text{V}}\text{O}$ systems of valproic acid hydrazones: a study of catalytic activity

Roumi Patra, Debopam Sinha, Sandip Mondal and Kajal Krishna Rajak*

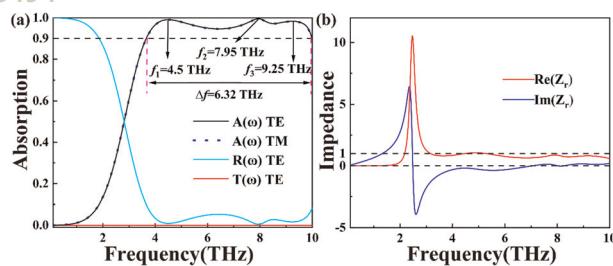
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The family of tetranuclear $\text{Nb}_4\text{Ol}_{12-x}$ clusters ($x = 0, 1, 2$): from the molecular $\text{Nb}_4\text{Ol}_{12}$ cluster to extended chains and layers

Jan Beitlberger, Mario Martin, Marcus Scheele, Patrick Schmidt, Markus Ströbele and H.-Jürgen Meyer*

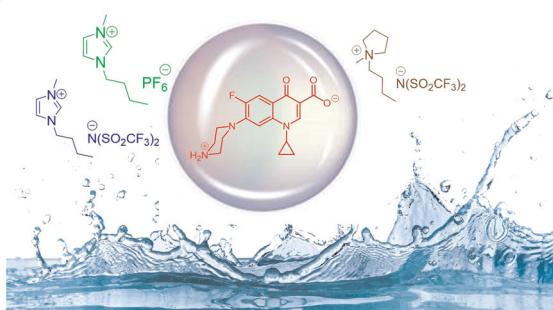
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A terahertz band multifunctional metamaterial transmission-absorption switching device based on vanadium dioxide

Xinmei Wang, Xianding He, Chaojun Tang,* Bin Shui and Zao Yi*

5502



Unravelling the optical properties and self-assembly behavior of ciprofloxacin in ionic liquid environments: probing the role of cationic residues and counter anions

Swapan Patra and Nilanjan Dey*

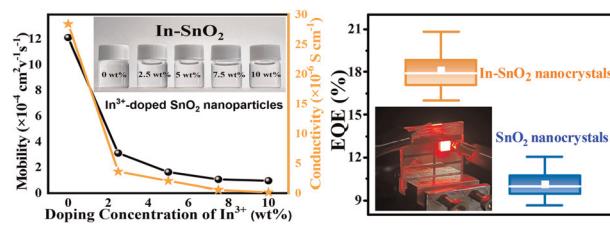


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Tuning charge transportation balance in quantum dot light emitting diodes by decreasing the mobility and conductivity of In-doped SnO_2 nanocrystal electron transport layers

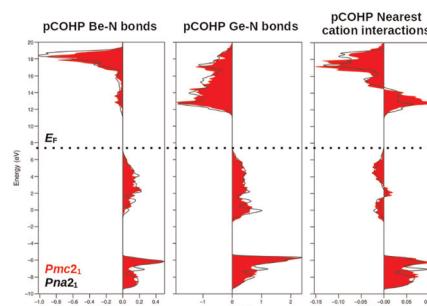
Chen Lin, Mengxin Liu, Yuhui Liu, Xian Shi* and Daocheng Pan*



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Why is BeGeN₂ different? A computational bonding analysis

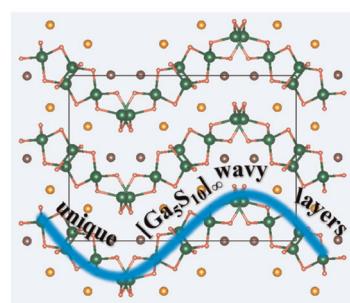
Joachim Breternitz



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NaCaGa₃S₆: a mixed alkali metal and alkaline earth metal sulfide with a distinctive $[\text{Ga}_5\text{S}_{10}]_\infty$ layered framework

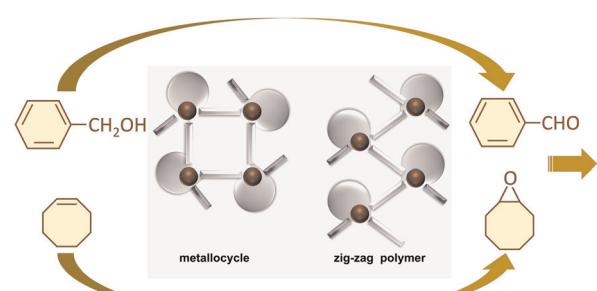
Jiale Chen, Haipeng Zhou, Huimin Sha, Jinfeng Liu, Xiu Zhu, Guisheng Xu* and Jiankang Wang*



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Influence of ancillary ligands on the formation and functionality of oxovanadium(v) metallocsupramolecular assemblies: advanced computational and catalytic analyses

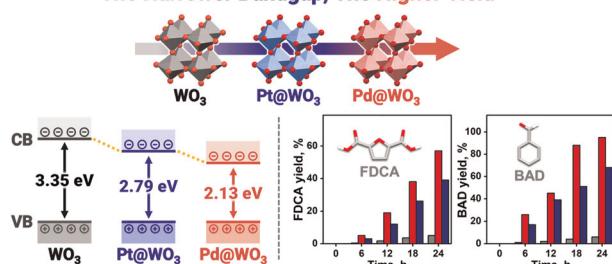
Edi Topić, Josipa Sarjanović, Danijela Musija, Mirna Mandarić, Andrea Cocić, Tomica Hrenar, Dominique Agustin, Jana Pisk* and Višnja Vrdoljak*



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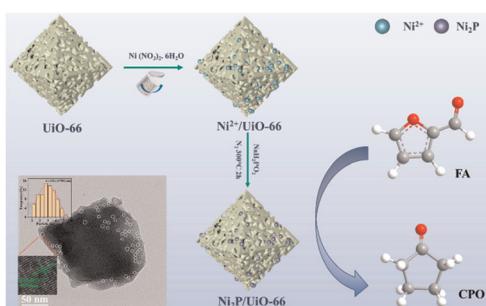
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The Narrower Bandgap, The Higher Yield

Enhancing visible-light-driven photocatalysis of Pd- and Pt-doped WO₃ nanoparticles: the role of oxygen vacancies and bandgap narrowing

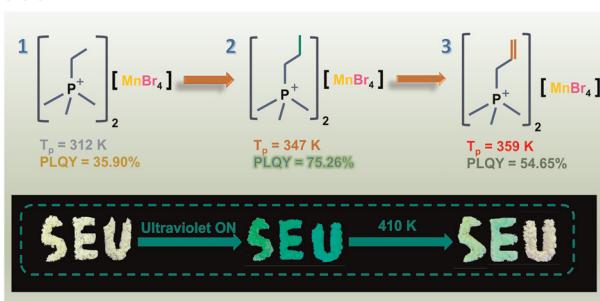
Hyeri Jeon, Dung Thanh Hoang, Hyejin Yu, Sunyoung Hwang, Hyun Sung Kim,* Seungwoo Hong* and Hangil Lee*

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Solvent-free fabrication of an Ni₂P/UiO-66 catalyst for the hydrogenation of furfural to cyclopentanone

Fanglin Liu, Luyao Li, Hui Hu, Mengting Yu, Dan Zhao, Shengjun Deng, Shunmin Ding, Weiming Xiao,* Shuhua Wang and Chao Chen

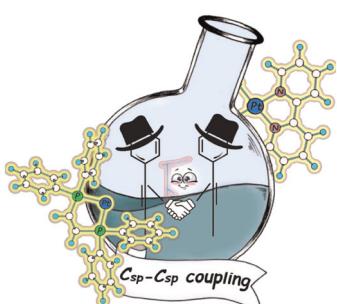
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Tuning phase transition and fluorescence quenching in 0D organic–inorganic hybrid materials by precise organic cation modification

Leqi Chen, Zining Zhou, Yawen Yang and Qiong Ye*

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Facile C_{sp}–C_{sp} bond formation prompted by an electrophilic fluorinating reagent from bis(alkynyl) platinum complexes

Somayeh Kochebaghi, Shabnam Borji, Mohsen Golbon Haghghi* and Elin Sarkissian

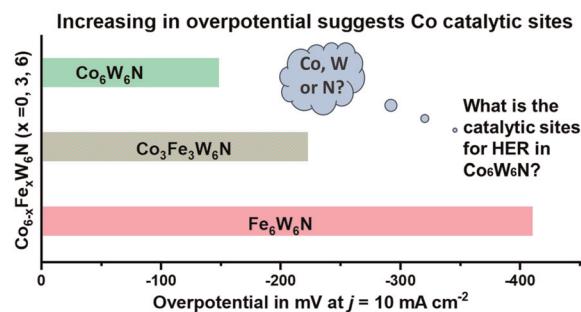


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The investigation of $\text{Co}_{6-x}\text{Fe}_x\text{W}_6\text{N}$ ($x = 0, 3, 6$) as electrocatalysts for the hydrogen evolution reaction

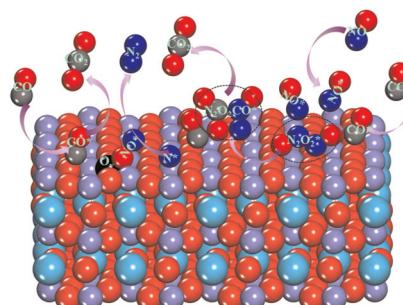
Youyi Sun,* Zhengxin Yang, Weihao Li and Alexey Y. Ganin



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Combined insights from DFT and microkinetics into NO reduction by CO over an LaFeO_3 perovskite

Liming Zhao, Yingju Yang and Jing Liu*



CORRECTION

5595

Correction: Two-step spin transition around room temperature in a Fe^{III} complex

Jianfeng Wu,* Mengtao Li, Qianqian Yang, Baoliang Zhang* and Jinkui Tang*