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

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

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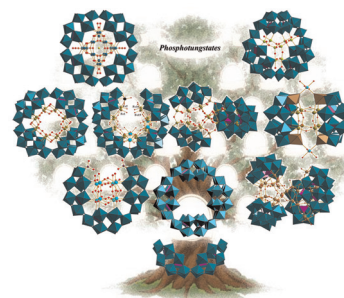
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PERSPECTIVE

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*

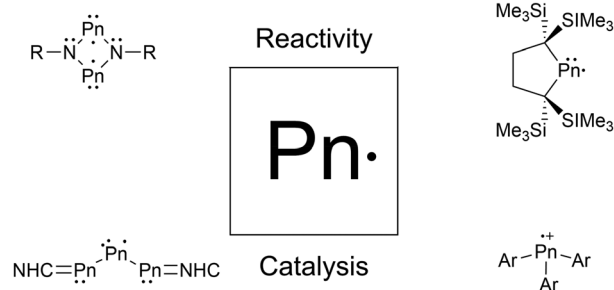


FRONTIER

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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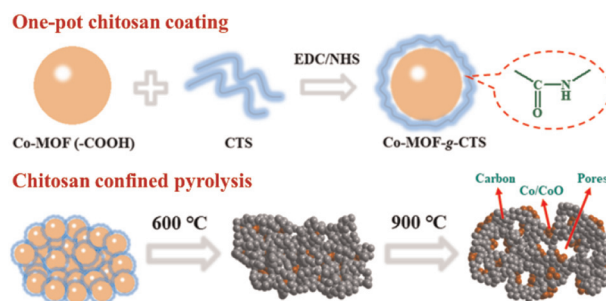
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COMMUNICATIONS

5250

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

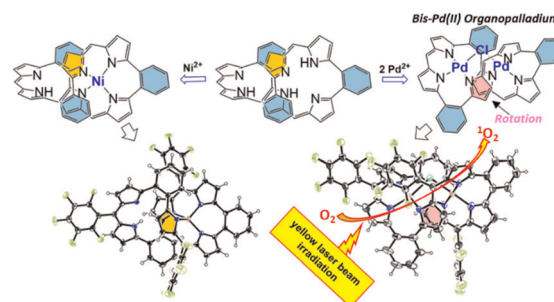
Dongsheng Wang, Tingyu He, Mingyue Fan, Tuotuo Li, Haina Qi, Zihan Lin,* Xiaoli Hu* and Zhongmin Su*



5255

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*

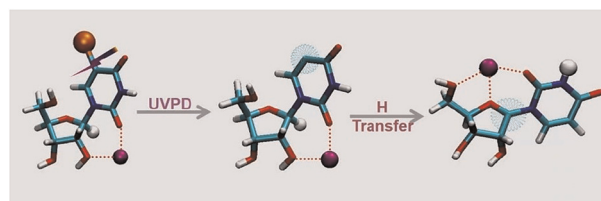


PAPERS

5259

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

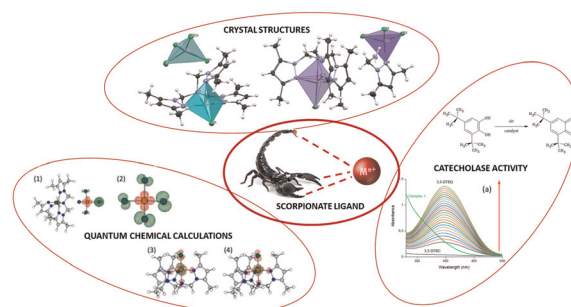
Kairui Yang, Min Kou, Zicheng Zhao, Jinyang Li and Xianglei Kong*



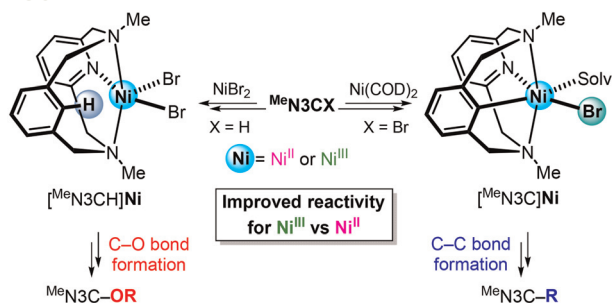
5268

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*



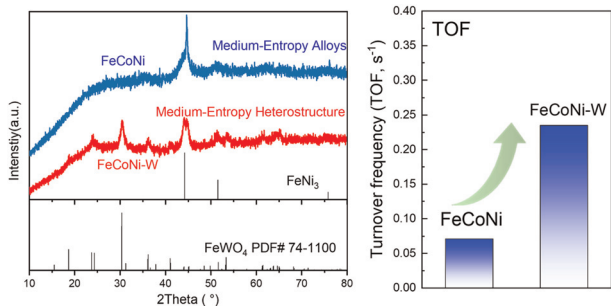
5286



C–C and C–O bond formation reactivity of nickel complexes supported by the pyridinophane ^{Me}N3C ligand

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

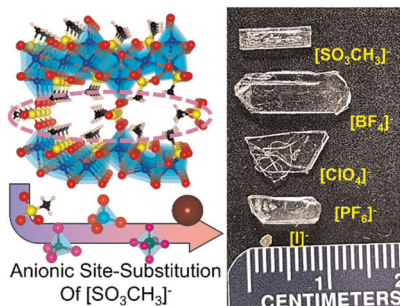
5293



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*

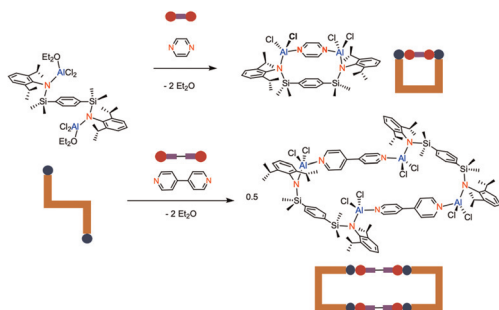
5301



Synthesis and large crystal growth of a family of mixed-anionic methanesulfonate salts by anionic site-substitution: Na₅(SO₃CH₃)₄(X) (X = BF₄⁻, ClO₄⁻, PF₆⁻, I⁻)

Eric A. Gabilondo and P. Shiv Halasyamani*

5311



Flexible bidentate aluminum Lewis acids for host–guest complex formation

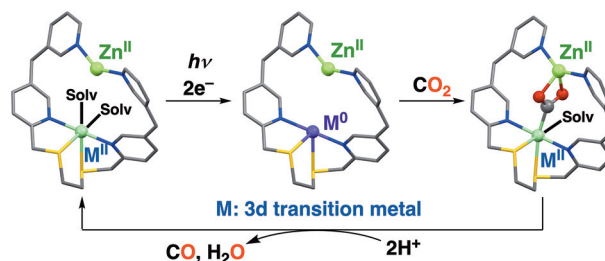
Tz-Ching Tsui, Hao-Yuan Lan, Han-Jung Li, Ting-Shen Kuo and Hsueh-Ju Liu*



5319

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

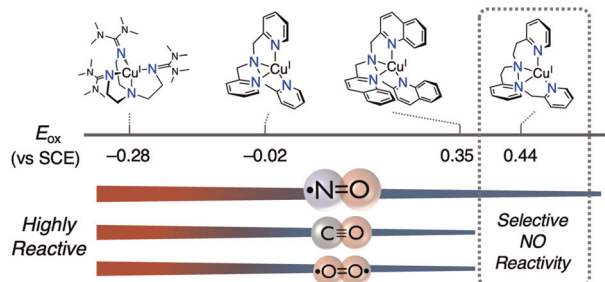
Tomoya Ishizuka, Asuka Hamaguchi, Yuki Hayashi, Yuto Tsukakoshi, Hiroaki Kotani, Takuya Kawanishi and Takahiko Kojima*



5327

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

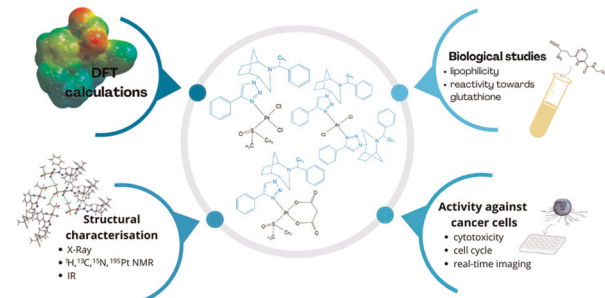
Yuma Morimoto,* Keisuke Inoue and Shinobu Itoh*



5334

Unveiling the promising *in vitro* anticancer activity of lipophilic platinum(II) complexes containing (1*S*,4*R*,5*R*)-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

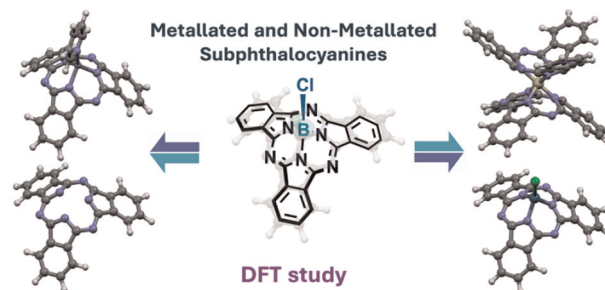
Adriana Kaszuba, Jerzy Sitkowski, Tadeusz Muzioł, Karolina Pokrzywka, Łukasz Kaźmierski, Małgorzata Maj, Franz Steppeler, Elżbieta Wojaczyńska, Marcin Hoffmann and Iwona Łakomska*



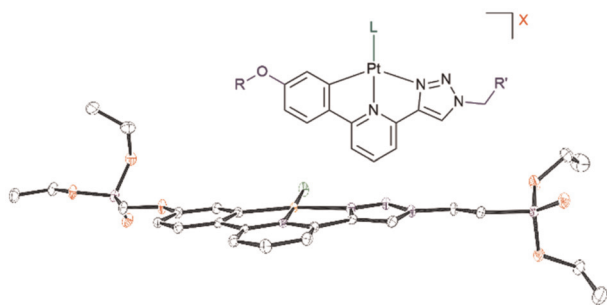
5355

Effects of removing boron from subphthalocyanines: a theoretical perspective

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



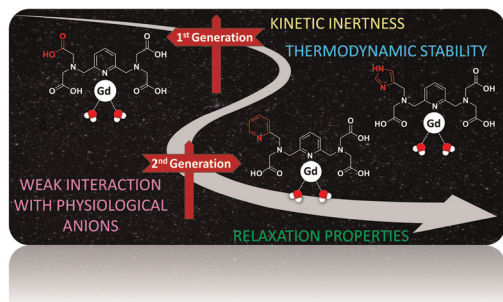
5367



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*

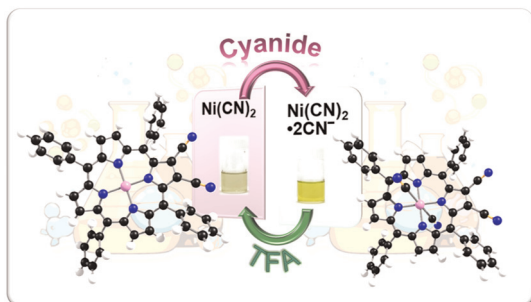
5391



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*

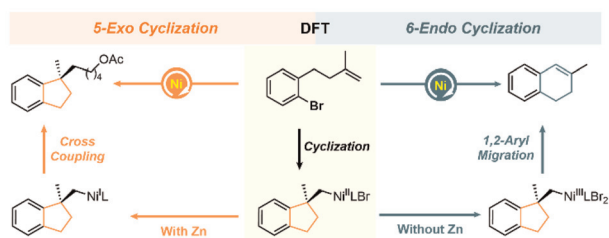
5406



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

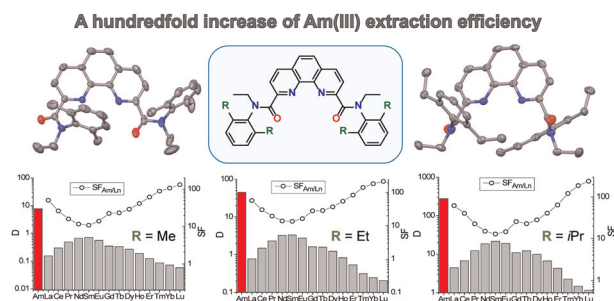
Yuxin Du, Hongli Wu, Miao Yang, Yuanbin She* and Yun-Fang Yang*



5425

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

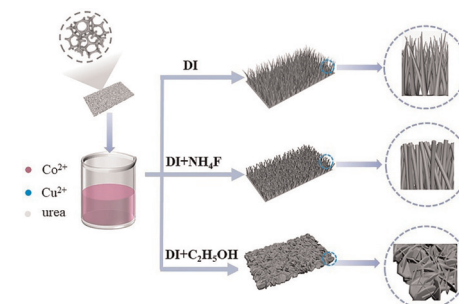
Nane A. Avagyan, Roman V. Zonov, Pavel S. Lempert, Mariia V. Evsyunina, Petr I. Matveev, Vitaly A. Roznyatovsky, Alexei D. Averin, Paulina Kalle, Victor A. Tafeenko, Svetlana A. Soloveva, Yulia V. Nelyubina, Vladimir G. Petrov, Yuri A. Ustynyuk and Valentine G. Nenajdenko*



5438

Facile and controllable synthesis of sea urchin-like CuCo_2O_4 on Ni foam for high-performance supercapacitors

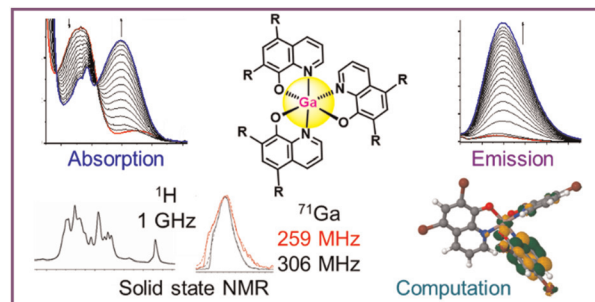
Bo Sun, Man Li, Linwen Li, Qijian Li, Xiaowen Chen, Fuxiang Wei,* Yanwei Sui, Jie He and Zunyang Zhang



5446

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

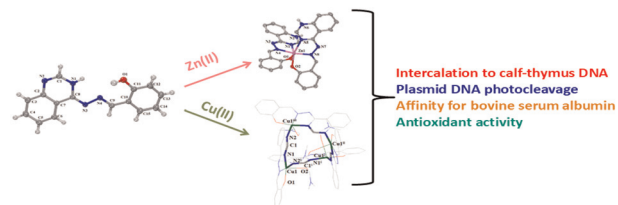
Vanessa V. Gaensicke, Stephanie Bachmann, Luca Craciunescu, Andrew W. Prentice, Martin J. Paterson, Dinu Iuga, Peter J. Sadler* and Rafael Cavalieri Marchi*



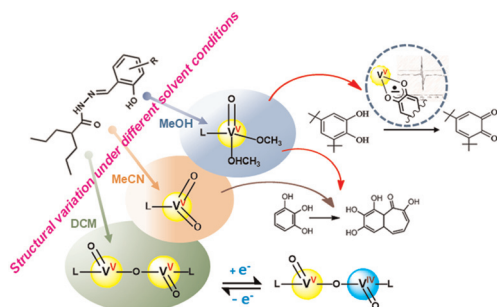
5458

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

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



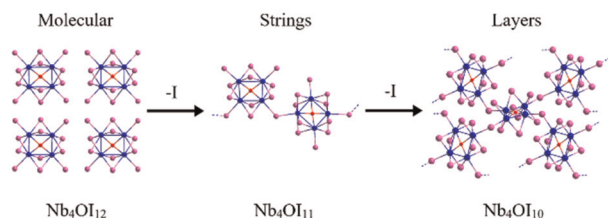
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New V^VO_2 , V^VO , V^VOVVO and electrogenerated $V^{IV}OVVO$ systems of valproic acid hydrazones: a study of catalytic activity

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

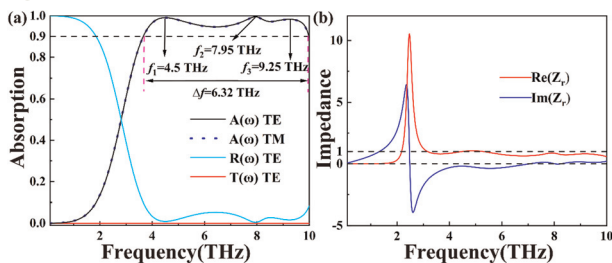
5486



The family of tetranuclear Nb_4OI_{12-x} clusters ($x = 0, 1, 2$): from the molecular Nb_4OI_{12} cluster to extended chains and layers

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

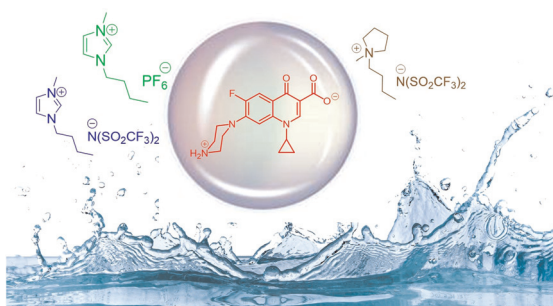
5494



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*

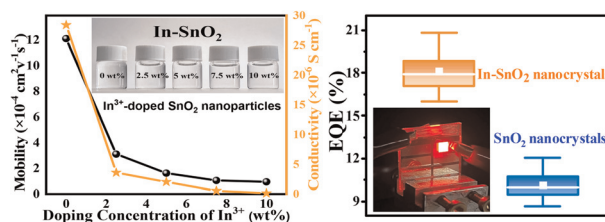


PAPERS

5511

Tuning charge transportation balance in quantum dot light emitting diodes by decreasing the mobility and conductivity of In-doped SnO₂ nanocrystal electron transport layers

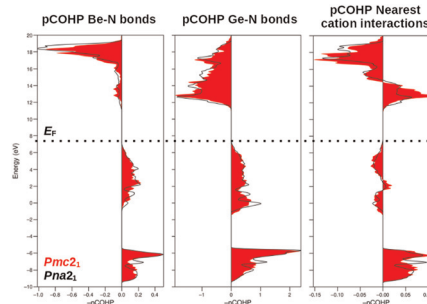
Chen Lin, Mengxin Liu, Yuhui Liu, Xinan Shi* and Daocheng Pan*



5521

Why is BeGeN₂ different? A computational bonding analysis

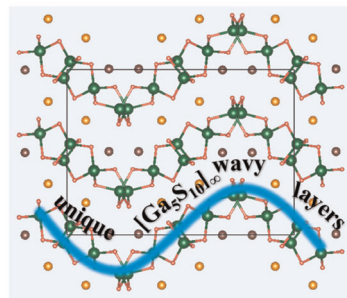
Joachim Breternitz



5526

NaCaGa₃S₆: a mixed alkali metal and alkaline earth metal sulfide with a distinctive [Ga₅S₁₀]_∞ layered framework

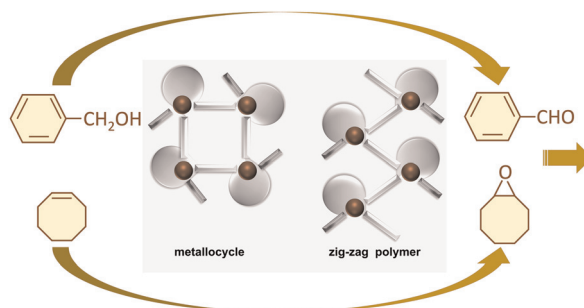
Jiale Chen, Haipeng Zhou, Huimin Sha, Jinfeng Liu, Xiu Zhu, Guisheng Xu* and Jiankang Wang*



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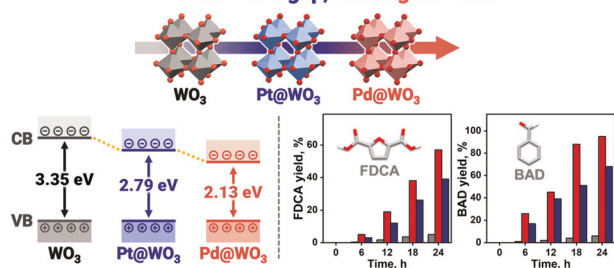
Influence of ancillary ligands on the formation and functionality of oxovanadium(v) metallocyclic assemblies: advanced computational and catalytic analyses

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



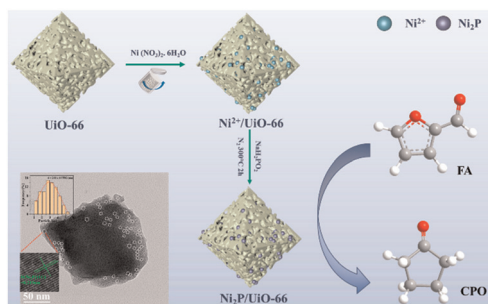
5546

The Narrower Bandgap, The Higher Yield

Enhancing visible-light-driven photocatalysis of Pd- and Pt-doped WO_3 nanoparticles: the role of oxygen vacancies and bandgap narrowing

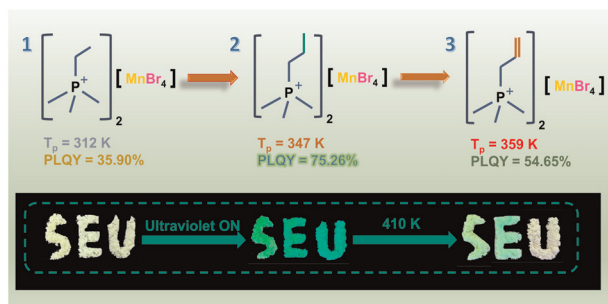
Hyeri Jeon, Dung Thanh Hoang, Hyejin Yu, Sunyoung Hwang, Hyun Sung Kim,* Seungwoo Hong* and Hangil Lee*

5554

Solvent-free fabrication of an $\text{Ni}_2\text{P}/\text{UiO}-66$ 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

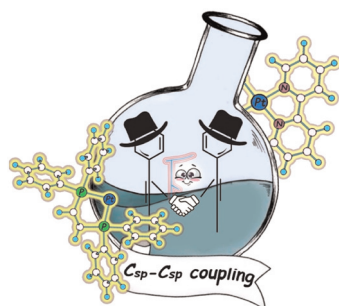
5560



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*

5568

Facile $\text{C}_{\text{sp}}-\text{C}_{\text{sp}}$ bond formation prompted by an electrophilic fluorinating reagent from bis(alkynyl) platinum complexes

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

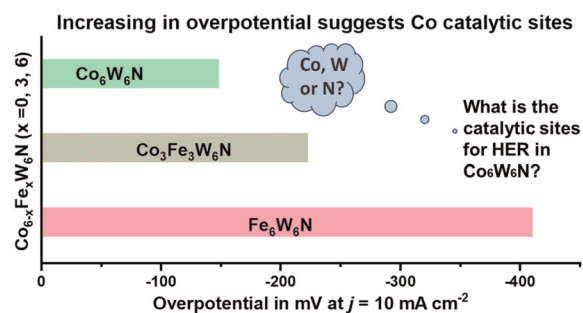


PAPERS

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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

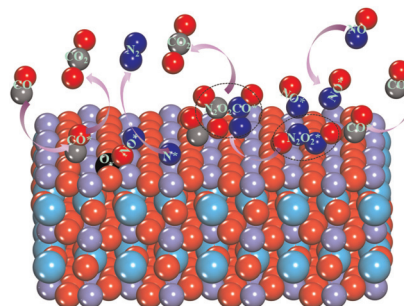
Youyi Sun,* Zhengxin Yang, Weihao Li and Alexey Y. Ganin



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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*

