

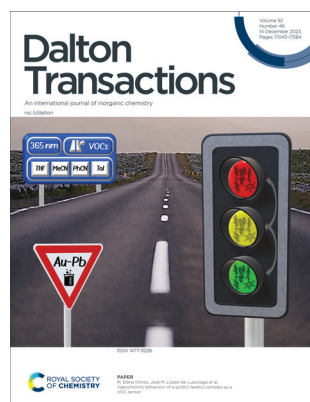
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### Inside cover

See Hsuan-Ying Chen *et al.*, pp. 17132–17147.

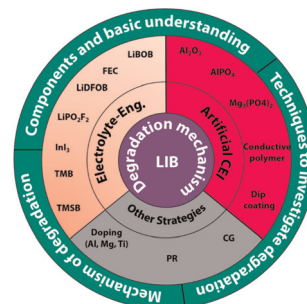
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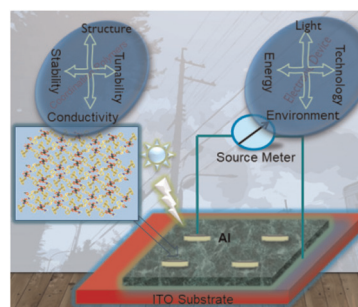


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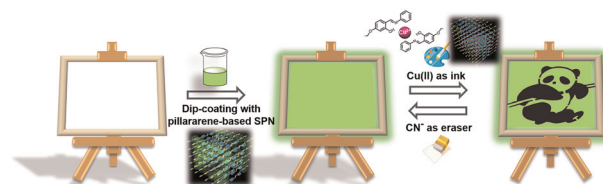


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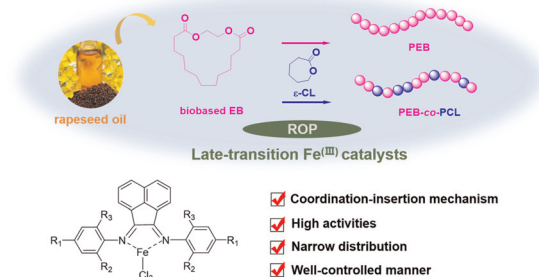
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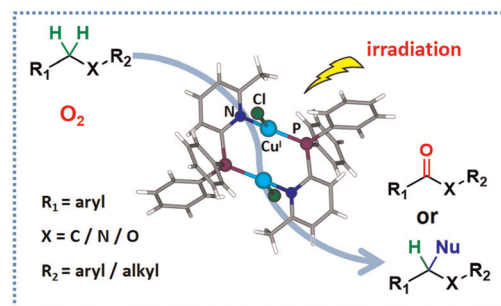
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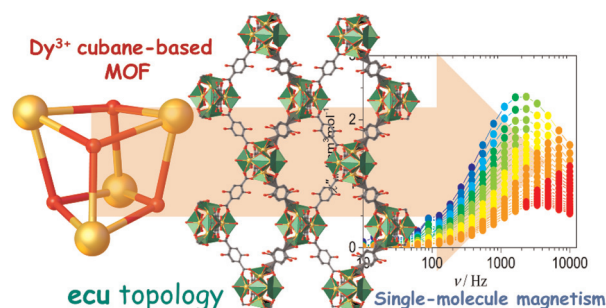
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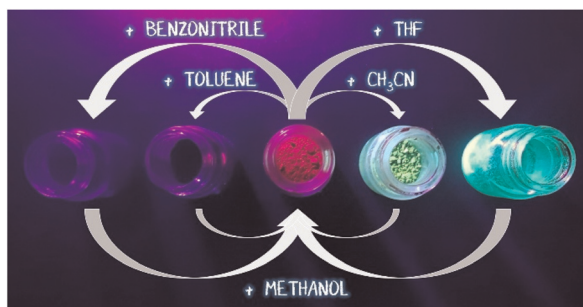
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Dong Shao,\* Yi Wan, Jiong Yang, Zhijun Ruan, Junlun Zhu and Le Shi\*



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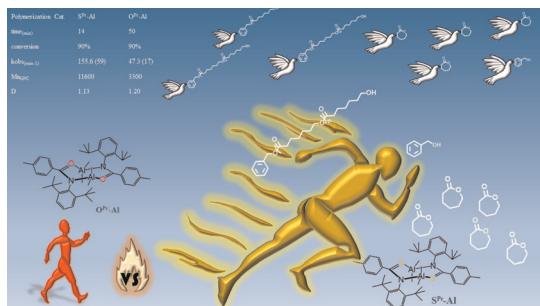
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Sonia Moreno, David Royo, Abdel G. El-Hachimi, María Rodríguez-Castillo, Miguel Monge, M. Elena Olmos\* and José M. López-de-Luzuriaga\*

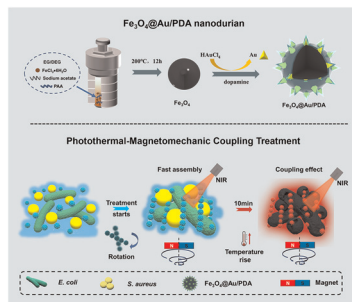
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### Improvement of catalytic activity of aluminum complexes for the ring-opening polymerization of ε-caprolactone: aluminum thioamidate and thioureidate systems

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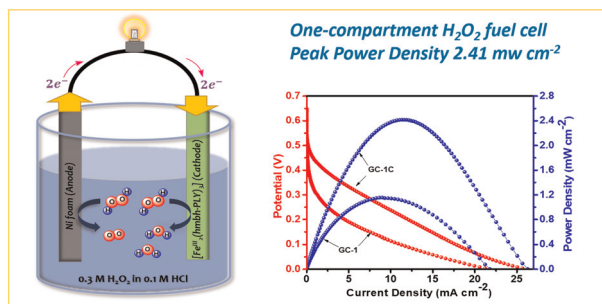
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Nisha Kamboj, Ayan Dey, Prem Lama, Moumita Majumder,\* Srijan Sengupta\* and Ramesh K. Metre\*



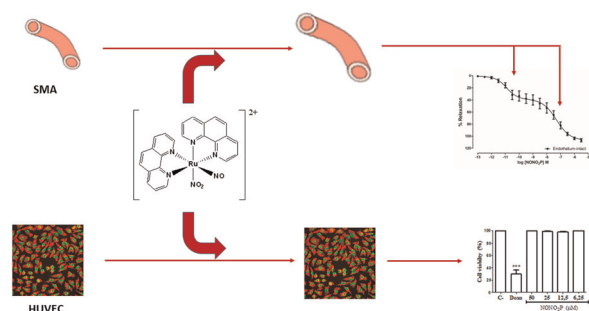


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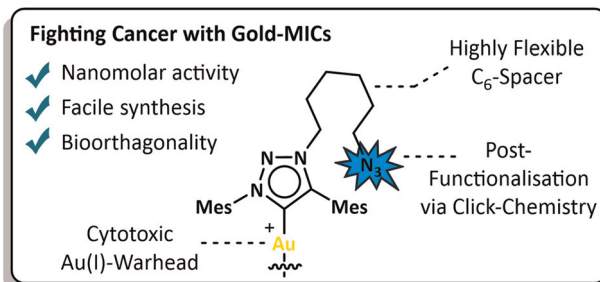
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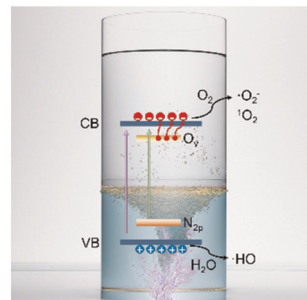
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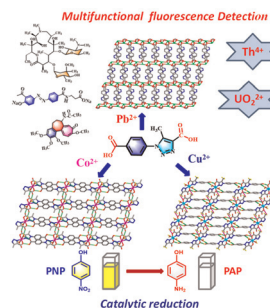
Yanmei Xing, Yiyan Zhang, Changhua Wang,\* Rui Wang, Dashuai Li, Shuang Liang and Xintong Zhang\*



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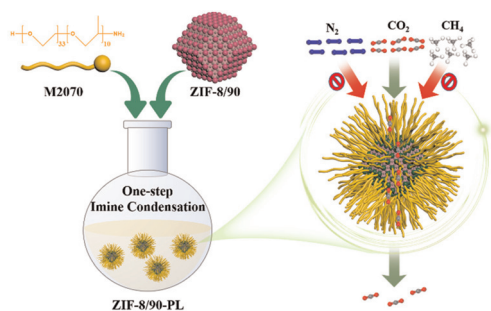
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Qiu Lv, Qing Lin Guan, Jin Long Li, Jin Xiao Li, Jing Jin,\* Feng Ying Bai\* and Yong Heng Xing



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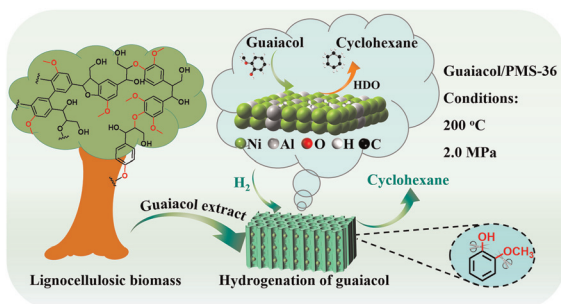
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### One-step synthesis of a ZIF-8/90-based type I porous liquid

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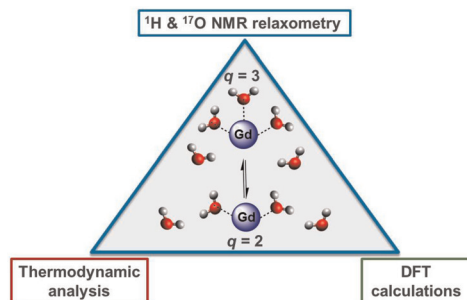
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Hang Li, Guan-Ze Chen and Chuan-De Wu\*

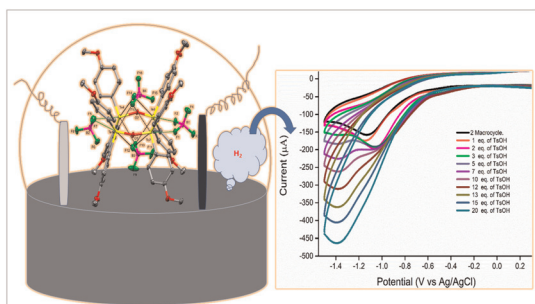
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Fabio Carniato and Mauro Botta\*

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### Electrocatalytic hydrogen evolution mediated by an organotelluroxane macrocycle stabilized through secondary interactions

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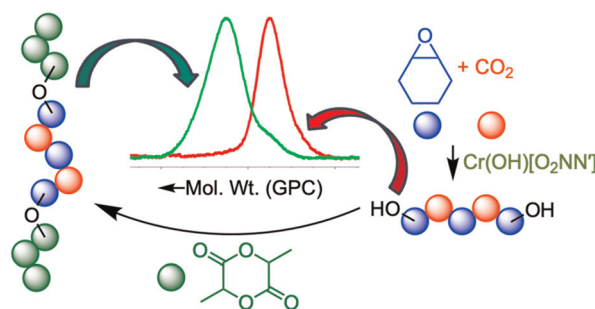


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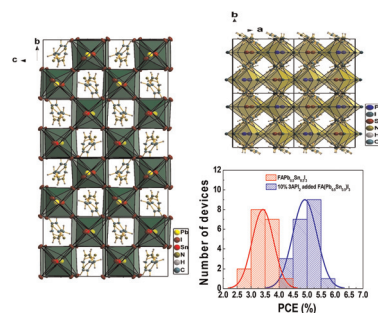
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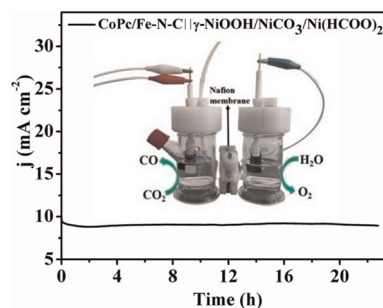
Mi-Hee Jung



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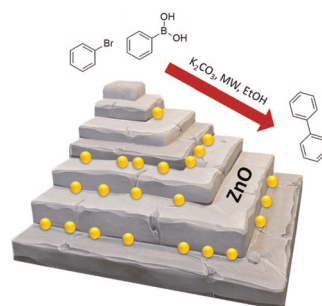
Li Zhang, Hong-Lin Zhu, Zhong-Yi Li and Yue-Qing Zheng\*



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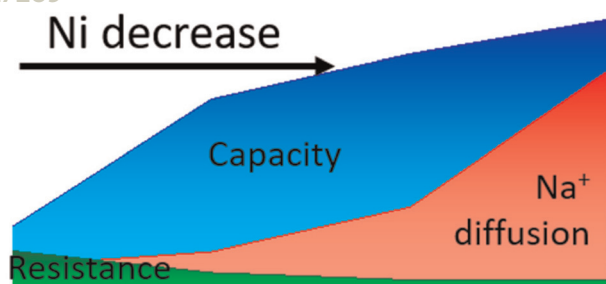
### Controllable deposition of dispersed Pd nanoparticles on ZnO for Suzuki–Miyaura cross-coupling reactions

Viviana Bressi, Thomas Len,\* Daniele Polidoro, Roberto Esposito, Michal Mazur, Maurizio Selva, Claudia Espro and Rafael Luque\*



## PAPERS

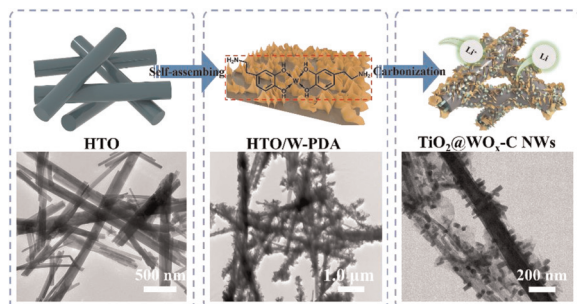
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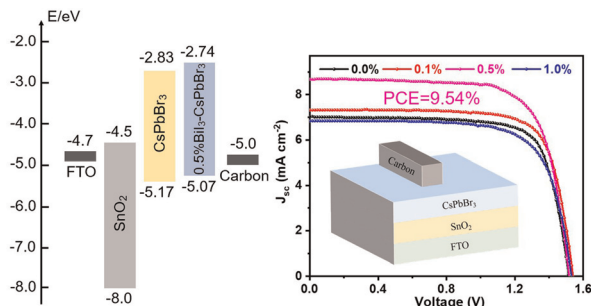
Pedro Lavela,\* Julia Leyva and José Luis Tirado

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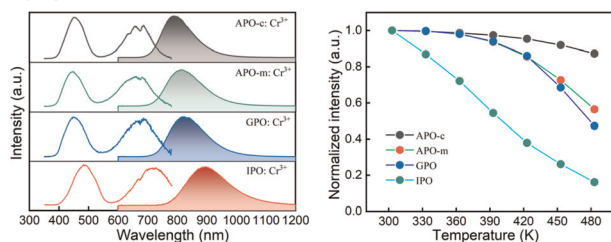
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Yuqi He, Zhenyang Li, Manying Liu,\* Saiqi Liu, Junjie Fu, Yange Zhang, Qiuye Li, Yuping Tong\* and Zhi Zheng\*

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Spectrally tunable near-infrared photoluminescence in MP<sub>3</sub>O<sub>9</sub>:Cr<sup>3+</sup> (M = Al, Ga, In) phosphate phosphors

Lipeng Jiang, Xue Jiang,\* Liangliang Zhang, Guocai Lv and Yanjing Su\*



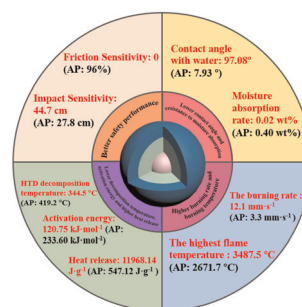


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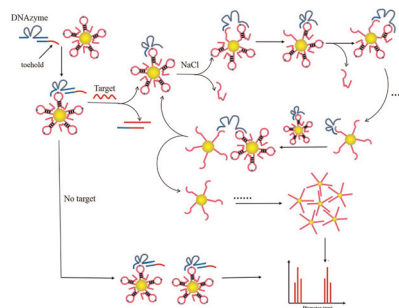
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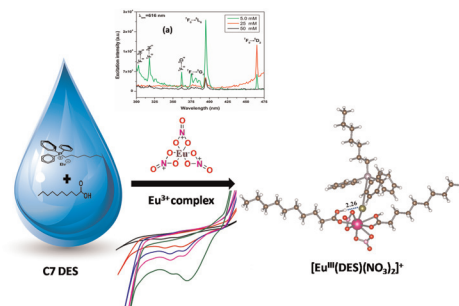
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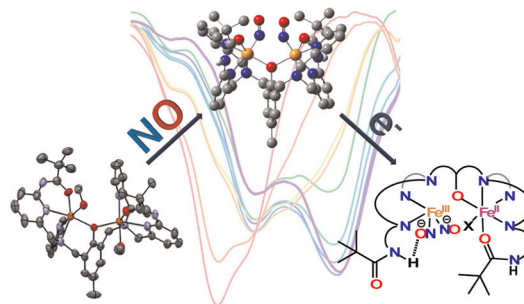
Sushil M. Patil, Ruchi Agrawal, Ruma Gupta,\* Santosh Kumar Gupta, Ayan Ghosh, Sumit Kumar, Kavitha Jayachandran and Tapan K. Ghanty



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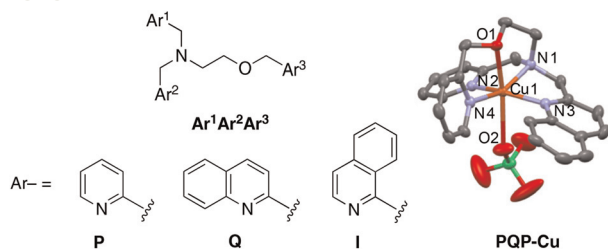
### Exploring second coordination sphere effects in flavodiiron nitric oxide reductase model complexes

Abigail J. Bracken, Hai T. Dong, Michael O. Lengel and Nicolai Lehnert\*



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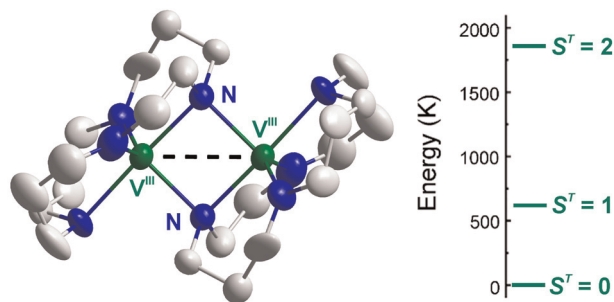
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### Evaluation of oxygen-containing pentadentate ligands with pyridine/quinoline/isoquinoline binding sites *via* the structural and electrochemical properties of mononuclear copper(II) complexes

Yuji Mikata,\* Mizuho Uchida, Hinata Koike, Sunao Shoji, Yutaka Ohseido, Yasushi Kawai and Takashi Matsuo

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Andreas Reiß, Maximilian Kai Reimann, Chengyu Jin, Martha Wachter-Lehn, Reinhard K. Kremer, Rainer Pöttgen, Karin Fink, Wim Klopper\* and Claus Feldmann\*

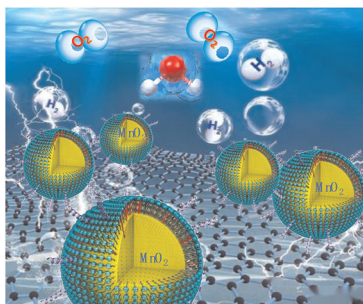
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### Unveiling the electronic and structural consequences of removing two electrons from B<sub>12</sub>H<sub>12</sub><sup>2-</sup>

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### Cation-doped sea-urchin-like MnO<sub>2</sub> for electro-catalytic overall water splitting

Haolu Sun, Songlin Chen, Bo Zhang, Jing Wang, Jun Yao,\* Deming Li\* and Guojun Yuan\*

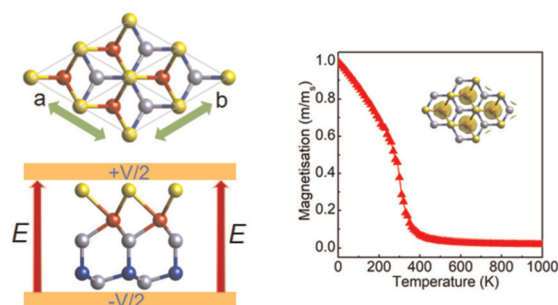


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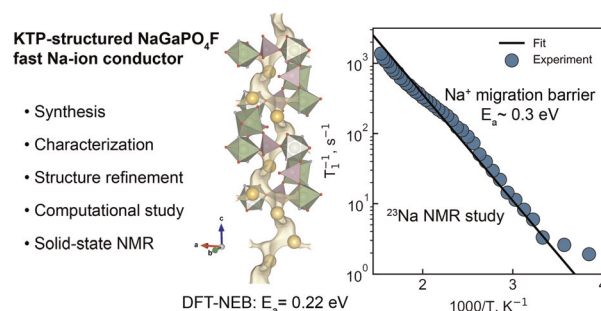
Zhen Gao, Yao He\* and Kai Xiong



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## NaGaPO<sub>4</sub>F – a KTiOPO<sub>4</sub>-structured solid sodium-ion conductor

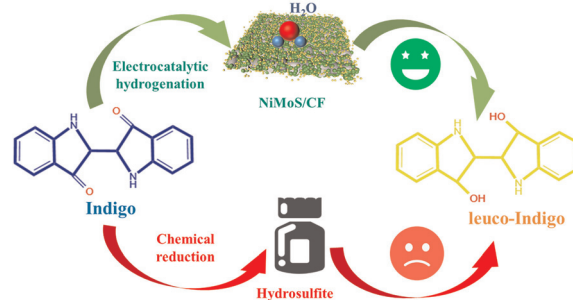
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17438

## Electrocatalytic hydrogenation of indigo by NiMoS: energy saving and conversion improving

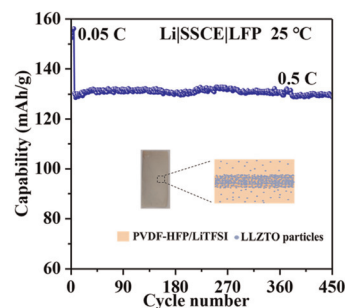
Zihao Liu, Xunkai Yu, Jie Li, Dong Wei, Junjun Peng, Huiyu Jiang, Huihong Liu\* and Sakil Mahmud



17449

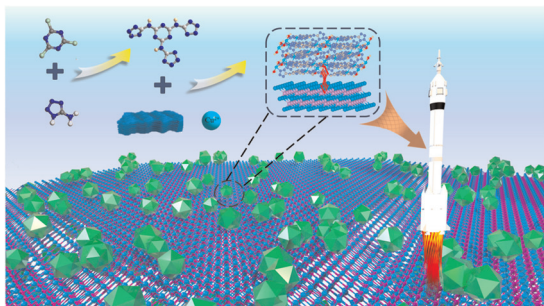
## Uniting Young's modulus and the flexibility of solid-state electrolytes for high-performance Li-batteries at room temperature

Haitao Zhao, Yan Zhang, Zehua Zhao, Zhuangzhuang Xue and Lei Li\*



## PAPERS

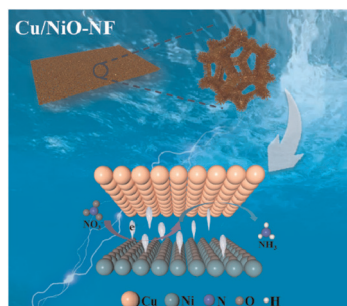
17458



***In situ* growth of copper-based energetic complexes on GO and an MXene to synergistically promote the thermal decomposition of ammonium perchlorate**

Shuting Li, Min Li, Jinxi Han, Zhengqiang Xia, Sanping Chen,\* Gang Xie, Shengli Gao, Jack Y. Lu and Qi Yang\*

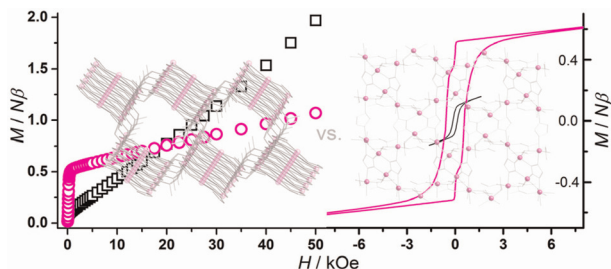
17470



**Cu/NiO nanorods for efficiently promoting the electrochemical nitrate reduction to ammonia**

Xu Liu, Yun Duan, Xue-Tao Cheng, Hui-Lin Zhao, Zhiliang Liu and Yan-Qin Wang\*

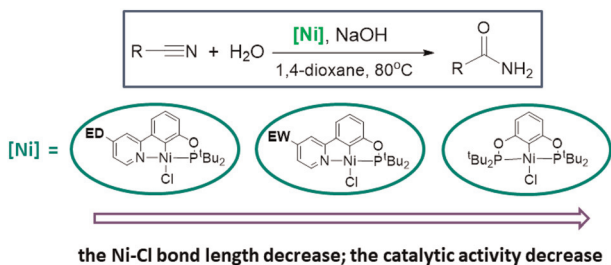
17477



**Interlayer interaction-force-tuned magnetic responses in Co<sup>II</sup>-tetrazolate-carboxylate system from canted antiferromagnet to field-induced metamagnet**

Bo Ding, Zhong-Yi Liu, Xin-Jing Gong, Hui-Min Tang, Xiu-Guang Wang, Zheng-Yu Liu, Hui-Ming Dong, Jing Liu and En-Cui Yang\*

17485



**Structures of nickel chloride and thiolate complexes supported by PCN and POCOP pincer ligands and catalytic reactivity of the chloride complexes**

Jia-Xue Mao, Jiarui Chang, Jie Zhang\* and Xuenian Chen\*



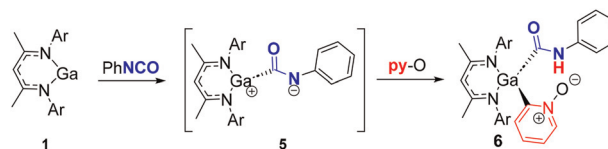


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17493

**1,3-C–H bond activation on a transient gallium(i)/isocyanate adduct**

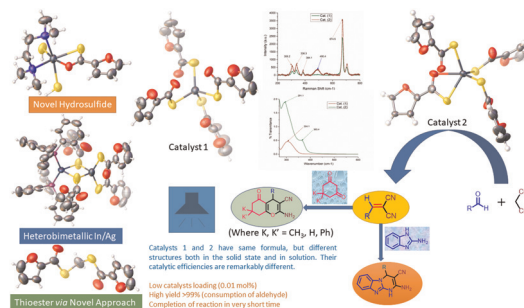
Sruthi S. Puthiyaveetil, Aishabibi Kassymbek, Anton Dmitrienko, Melanie Pilkington and Georgii I. Nikonov\*



17499

**Synthesis and structural features of indium(III) furan-2-thiocarboxylates showing efficient catalytic activity toward multicomponent reactions via Knoevenagel condensation**

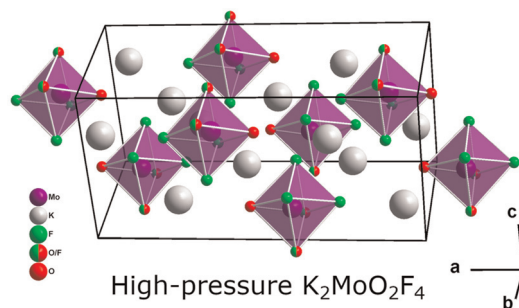
Krishna Kumar, Raj Kumar Sahani, Somenath Garai and Subrato Bhattacharya\*



17514

**A new high-pressure polymorph of K<sub>2</sub>MoO<sub>2</sub>F<sub>4</sub>**

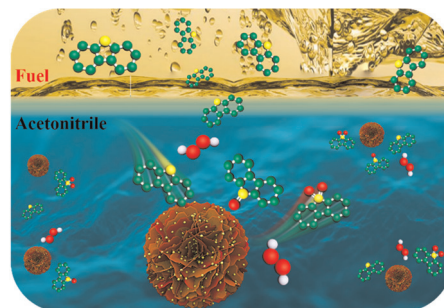
Fabian Zimmerhofer and Hubert Huppertz\*



17524

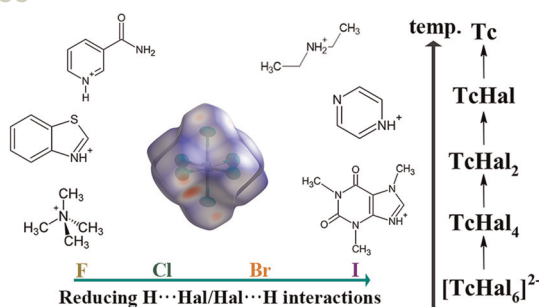
**Defective silicotungstic acid-loaded magnetic floral N-doped carbon microspheres for ultra-fast oxidative desulfurization of high sulfur liquid fuels**

Yefeng Liu,\* Xiaojie Yin, Chuan Li, Zhong Xie, Fuyan Zhao, Jing Li, Jinpei Hei, Yang Han, Nannan Wang\* and Peng Zuo\*



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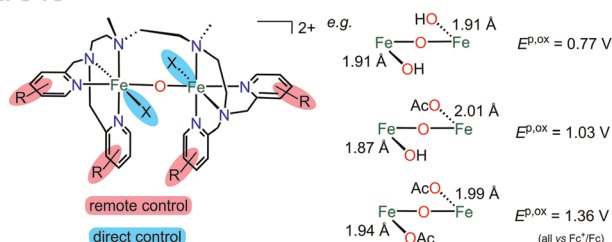
17538



### Influence of the organic cation on the formation of hexahalotechnetates: X-ray, thermal and comparative analyses of non-covalent interactions

Anton P. Novikov, Karim A. Zagidullin,\*  
Mikhail A. Volkov, Konstantin E. German, Iurii M. Nevolin  
and Mikhail S. Grigoriev

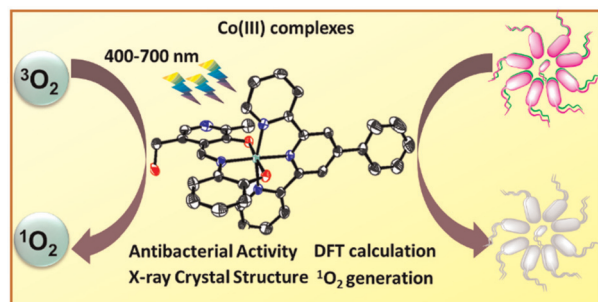
17548



### Direct and remote control of electronic structures and redox potentials in $\mu$ -oxo diferric complexes

Sebastian Finke, Anja Stammler, Jan Oldengott,  
Stephan Walleck and Thorsten Glaser\*

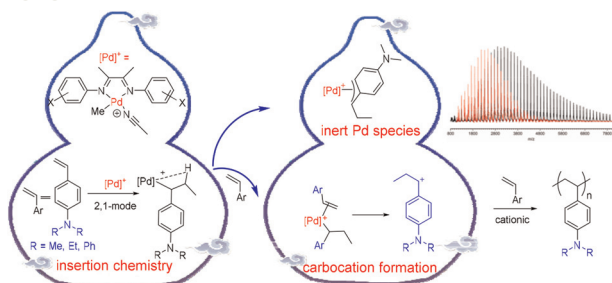
17562



### Polypyridyl-based Co(III) complexes of vitamin B<sub>6</sub> Schiff base for photoactivated antibacterial therapy

Apurba Mandal, Rohit Rai, Sukanta Saha,  
Rajesh Kushwaha, Li Wei, Hemonta Gogoi,  
Arif Ali Mandal, Ashish Kumar Yadav, Huayi Huang,\*  
Arnab Dutta, Prodyut Dhar\* and Samya Banerjee\*

17573



### Experimental and theoretical insights into palladium-mediated polymerization of *para*-*N,N*-disubstituted aminostyrene

Chi Shing Cheung, Zonglin Qiu, Donghui Li,  
Huiyun Deng, Handou Zheng\* and Haiyang Gao\*

