

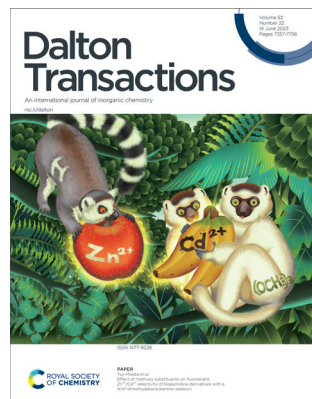
# Dalton Transactions

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See Yuji Mikata *et al.*,  
pp. 7411–7420.

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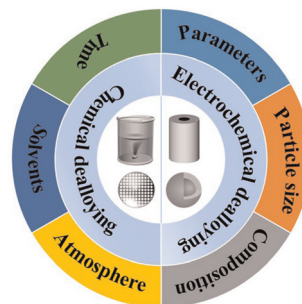
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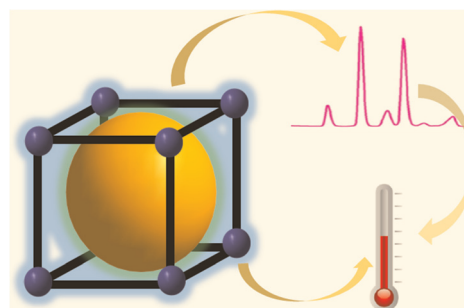
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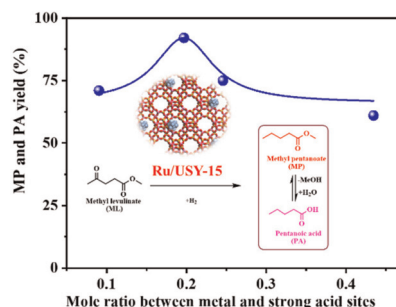


## COMMUNICATION

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## Efficient hydrodeoxygenation of methyl levulinate into pentanoic biofuels over Ru/USY catalysts

Shaohua Wang, Wenhao Cui, Caixia Miao, Nanfang Tang, Lu Lin, Zhijie Wu, Qingda An,\* Peng Tian, Jifeng Pang\* and Wenhao Luo\*

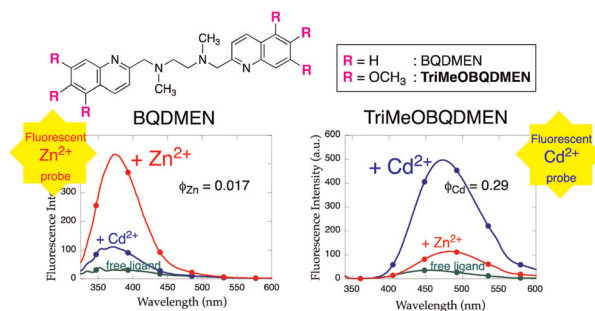


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Effect of methoxy substituents on fluorescent Zn<sup>2+</sup>/Cd<sup>2+</sup> selectivity of bisquinoline derivatives with a *N,N'*-dimethylalkanediamine skeleton

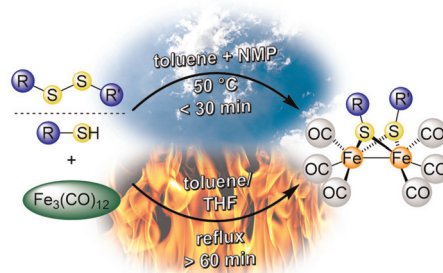
Yuji Mikata,\* Marin Tanaka, Saori Yasuda, Aya Tsuruta, Taeka Hagiwara, Hideo Konno and Takashi Matsuo



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## NMP makes the difference – facilitated synthesis of [FeFe] hydrogenase mimics

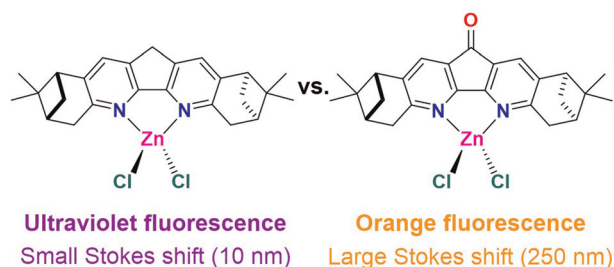
Stefan Benndorf, Philipp Buday, Benedikt Callies, Helmar Görls, Stephan Kupfer and Wolfgang Weigand\*



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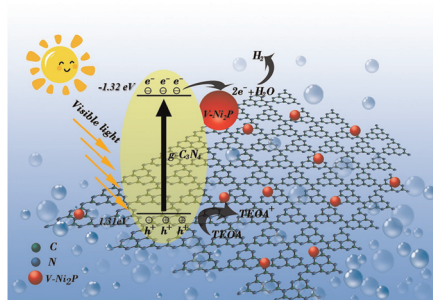
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Tatyana E. Kokina,\* Nikita A. Shekhovtsov,\* Eugene S. Vasilyev, Ludmila A. Glinskaya, Aleksandr V. Mikheyli, Victor F. Plyusnin,\* Alexey V. Tkachev\* and Mark B. Bushuev\*



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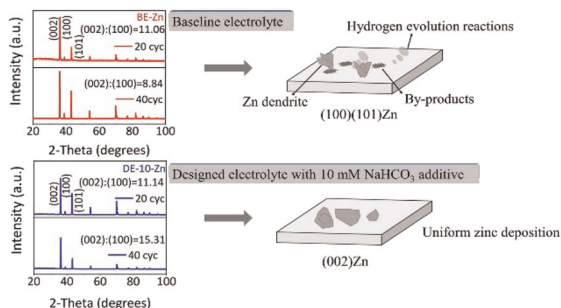
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### V-doped Ni<sub>2</sub>P nanoparticle grafted g-C<sub>3</sub>N<sub>4</sub> nanosheets for enhanced photocatalytic hydrogen evolution performance under visible light

Qian Chen, Jianfeng Huang,\* Ting Xiao, Liyun Cao,\* Dinghan Liu, Xiaoyi Li, Mengfan Niu, Guoting Xu, Koji Kajiyoishi and Liangliang Feng\*

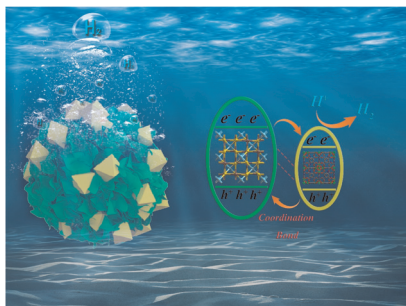
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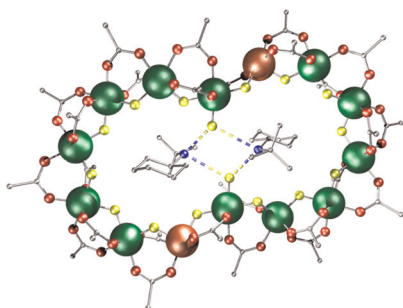
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Haijun Hu, Xiaodong Sun,\* Kailai Zhang, Yang Chen, Hui Li, Hongwei Huang, Yali Ma\* and Tianyi Ma\*

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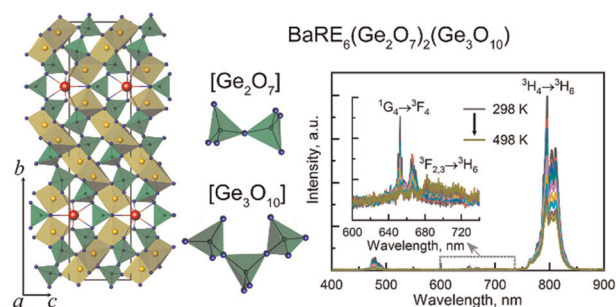


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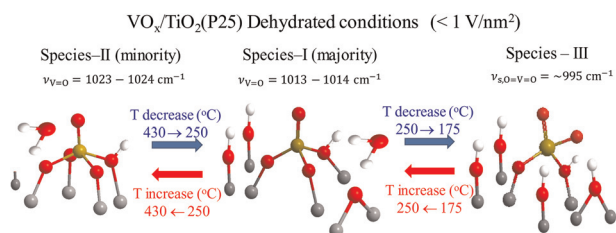
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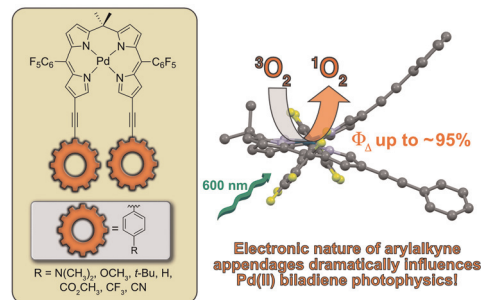
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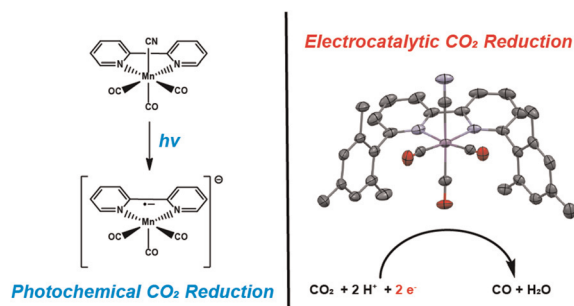
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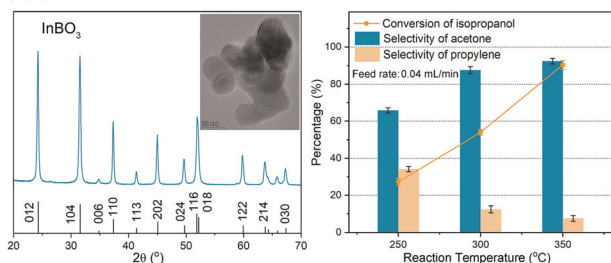
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Kailyn Y. Cohen, Delaan G. Nedd, Rebecca Evans and Andrew B. Bocarsly\*



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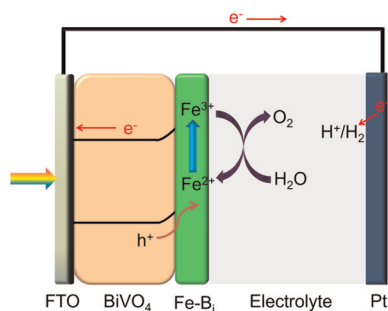
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### A Lewis acid–base paired InBO<sub>3</sub> catalyst: synthesis and high selectivity for isopropanol dehydrogenation

Yurong Sun, Wenliang Gao\* and Tao Yang\*

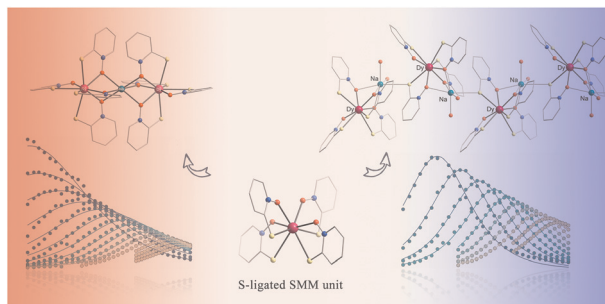
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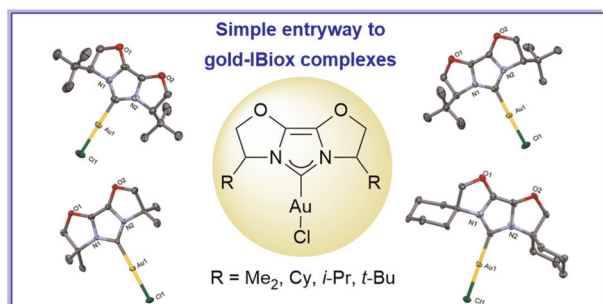
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### Modulation of the magnetic dynamics in two air-stable sulfur-ligated dysprosium complexes via polymerization

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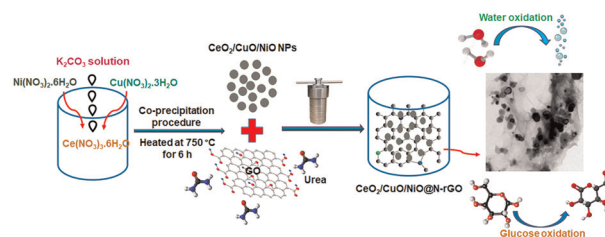


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# CeO<sub>2</sub>/CuO/NiO hybrid nanostructures loaded on N-doped reduced graphene oxide nanosheets as an efficient electrocatalyst for water oxidation and non-enzymatic glucose detection

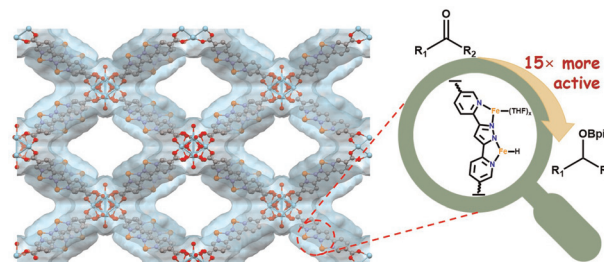
Sahar Jafari and Zohreh Shaghghi\*



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# A metal–organic framework-supported dinuclear iron catalyst for hydroboration of carbonyl compounds

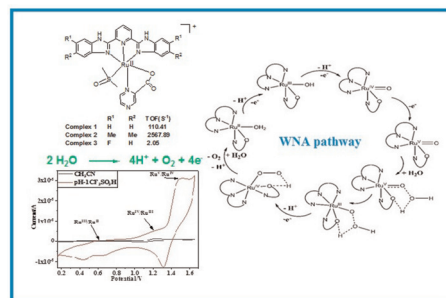
Yi-Jie Zhu, Jun-Jie Wang, Jun-Yu Li and Teng Zhang\*



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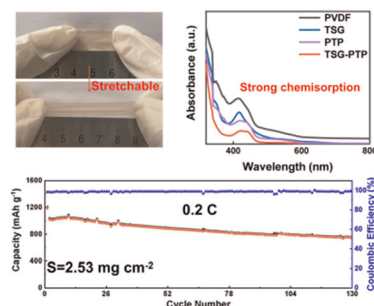
Sahanwaj Khan, Swaraj Sengupta, Md. Adnan Khan, Md. Palashuddin Sk and Subhendu Naskar\*



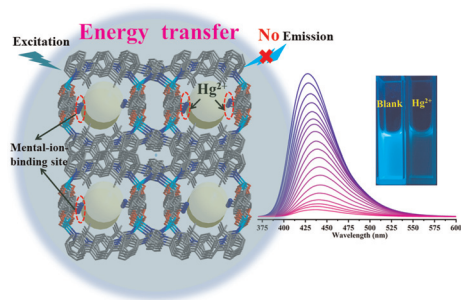
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# A ductile and strong-affinity network binder coupling inorganic oligomers and biopolymers for high-loading lithium–sulfur batteries

Mingxiu Hou, Jie Liu,\* Fengli Yu and Lei Wang\*



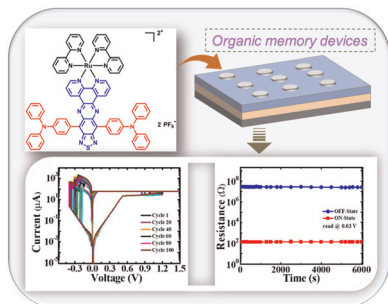
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Chaoxiong Li, Xuancheng Sun, Xianggao Meng,\*  
Dunjia Wang and Chunyang Zheng\*

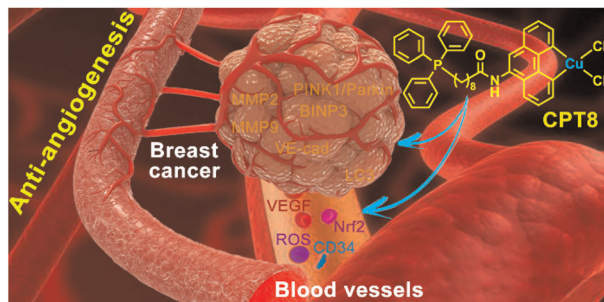
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Mengzhu Wang, Nan He, Runze Tang, Feiyang Li,  
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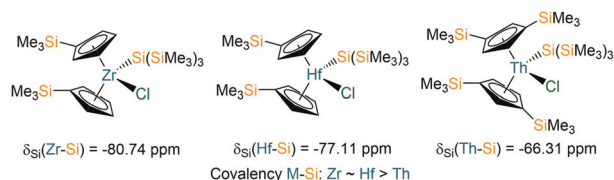
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### A copper complex that combats triple negative breast cancer by restraining angiogenesis

Huixian Zheng, Chaoyi Hu, Yunyun Quan, Xiaoxia Ye,\*  
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### Comparison of group 4 and thorium M(IV) substituted cyclopentadienyl silanide complexes

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Ashley J. Wooles, Stephen T. Liddle\* and David P. Mills\*

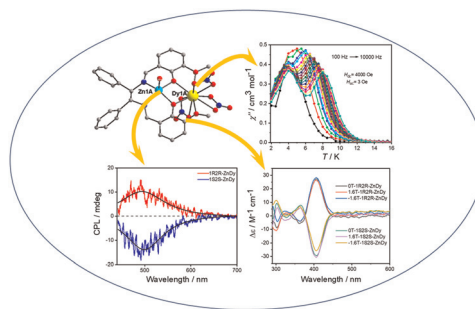


## PAPERS

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## Circularly polarized luminescence and magneto-optic effects from chiral Dy(III) single molecule magnets

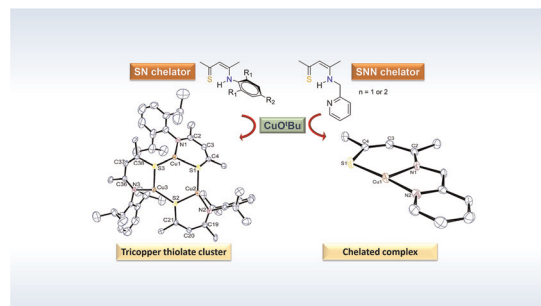
Hong Huang, Rong Sun, Xiao-Fan Wu, Youchao Liu, Jun-Zheng Zhan, Bing-Wu Wang\* and Song Gao\*



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Denticity governs the formation of  $\beta$ -thiokeiminato tri-copper(I) and mono-copper(I) complexes

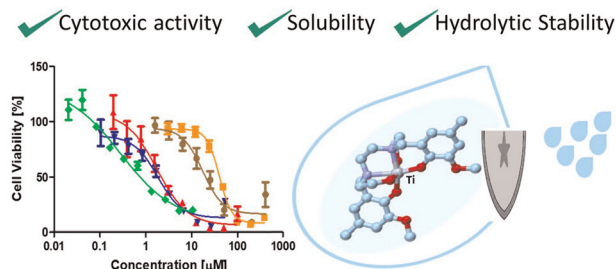
Venkata Sai Sashankh Penki, Yu-Lun Chang, Hsing-Yin Chen, Yu-Ting Chu, Yu-Ting Kuo, Dorothy Priyanka Dorairaj, Sri Sudewi, Shang-Wu Ding and Sodio C. N. Hsu\*



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## Phenolato Ti(IV) hexacoordinate complexes for anticancer chemotherapy: enhancement of solubility, hydrolytic stability, and cytotoxicity

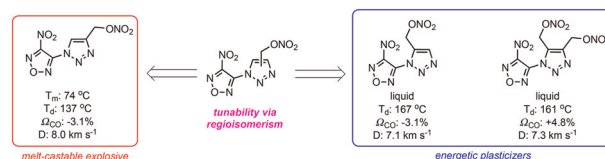
Mohammad Taha and Edit Y. Tshuva\*



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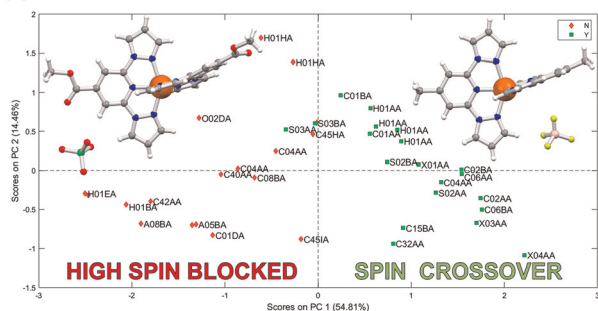
## Impact of regiochemistry in energetic materials science: a case of (nitratomethyl-1,2,3-triazolyl) furazans

Margarita A. Epishina, Alexander S. Kulikov, Ivan V. Ananyev, Aleksei A. Anisimov, Konstantin A. Monogarov and Leonid L. Fershtat\*



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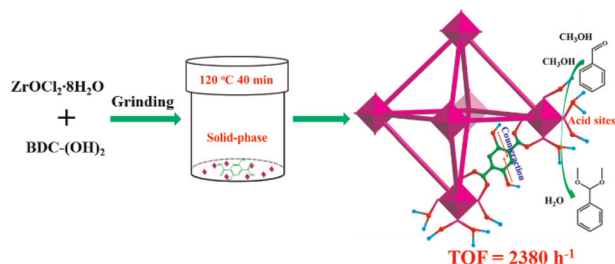
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### A proficient multivariate approach for iron(II) spin crossover behaviour modelling in the solid state

Lorenzo Marchi, Simone Fantuzzi, Andrea Cingolani, Alessandro Messori, Rita Mazzoni, Stefano Zacchini, Marina Cocchi and Luca Rigamonti\*

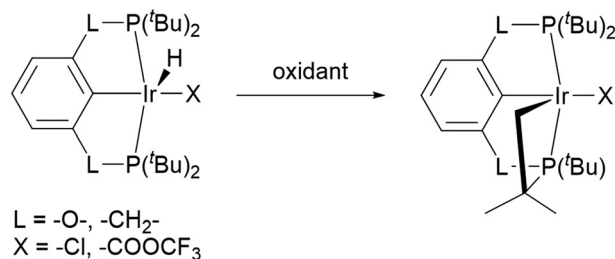
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### Solid-phase rapid synthesis of hierarchical UiO-type metal–organic frameworks as excellent solid acid catalysts for acetalization of benzaldehyde with alcohol

Gan Ye,\* Lulu Wan, Jun Zhou, Lei Wu and Qiuli Zhang\*

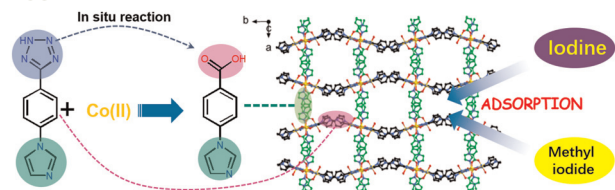
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### Oxidation-induced C–H bond activation in iridium pincer complexes

Alexey V. Polukeev\* and Magdalena Tasić

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### A mixed-ligand Co(II) MOF synthesized from a single organic ligand to capture iodine and methyl iodide vapour

Yilong Lin, Panyu Zeng, Die Wang, Tian-Tian Li,\* Liang-Hua Wu and Sheng-Run Zheng\*

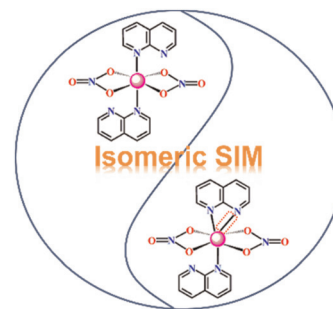


## PAPERS

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## Magnetic properties of two coordination isomeric cobalt(II) single-ion magnets

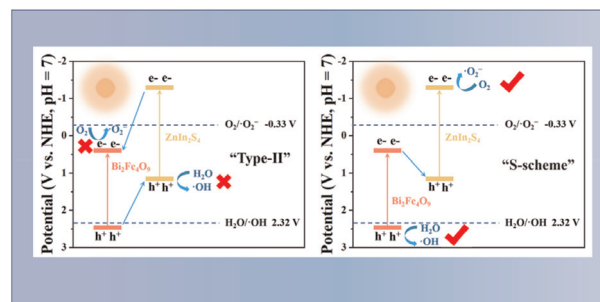
Hui-Hui Cui,\* Hong-Juan Xu, Tengkun Zhang, Shuchang Luo,\* Wei Tong, Miao Wang, Jin Wang, Lei Chen and Yanfeng Tang\*



7724

Bi<sub>2</sub>Fe<sub>4</sub>O<sub>9</sub>@ZnIn<sub>2</sub>S<sub>4</sub> S-scheme laminated hetero-junction photocatalyst towards optimized photocatalytic performance

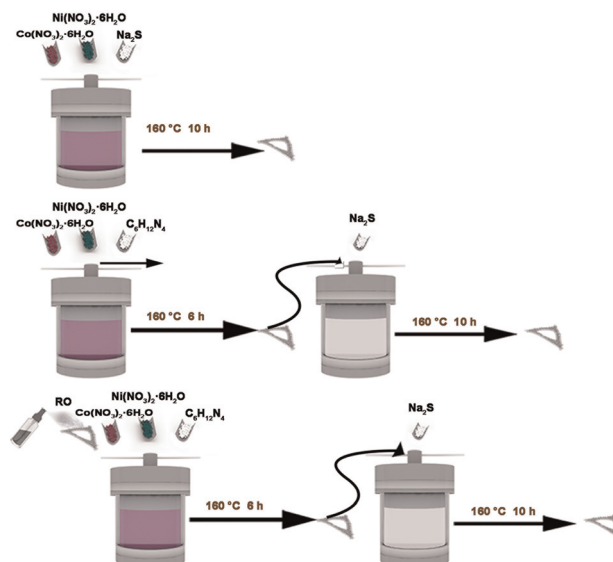
Chunxu Wu, Zipeng Xing,\* Yichao Wang, Hui Peng, Weifeng Kong, Shilin Yang,\* Zhenzi Li and Wei Zhou\*



7731

A cycle-durable hollow nanoneedle structure with a nanosheet as a conductive substrate CoS<sub>1.097</sub>/Ni<sub>9</sub>S<sub>8</sub>@RGO to enhance supercapacitor performance

Yanmin Wang, Chong Sun, Hu Zhao, Jinlong Cui, Yongqiang Zhang\* and Wenxiu He\*



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## Donor-acceptor bridge 2,5-bis(2-oxido-phenyl)thiazolo-[5,4-d]thiazole derived diruthenium and diosmium systems. Structural and competitive electronic events as a function of metal ion, bridge and ancillary ligand

Suman Dhara, Sarbajeet Chakraborty, Liton Seikh and Goutam Kumar Lahiri\*

