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See Yuichi Kitagawa *et al.*, pp. 8555–8562.

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See Fausthon Fred da Silva *et al.*, pp. 8563–8575.

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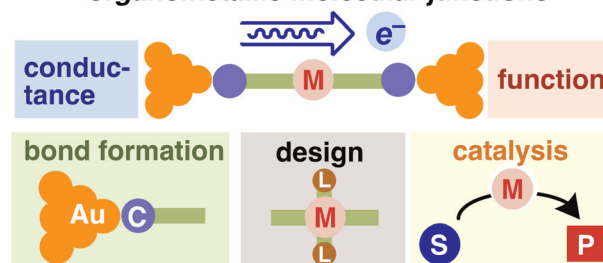
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Organometallics in molecular junctions: conductance, functions, and reactions

Yuya Tanaka

organometallic molecular junctions

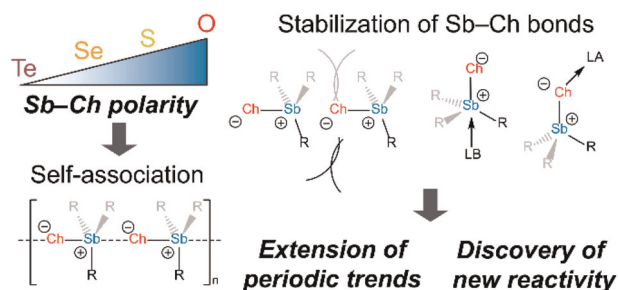


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Recent advances in the stabilization of monomeric stibinidene chalcogenides and stibine chalcogenides

John S. Wenger and Timothy C. Johnstone*



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Fundamental questions
Elemental answers

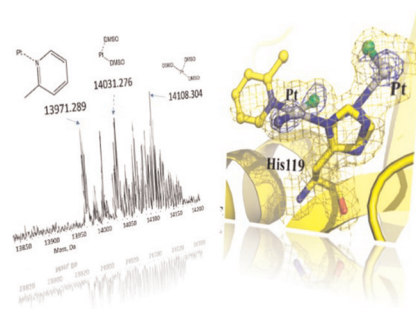


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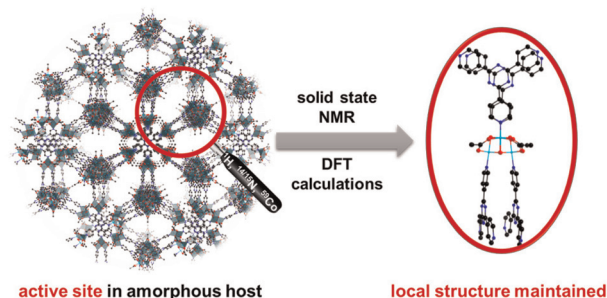
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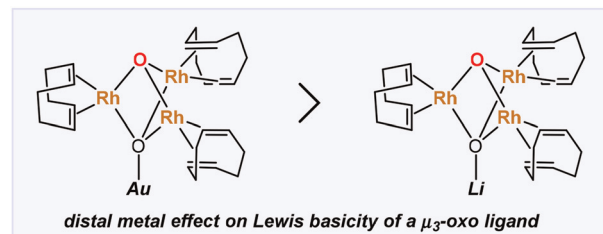
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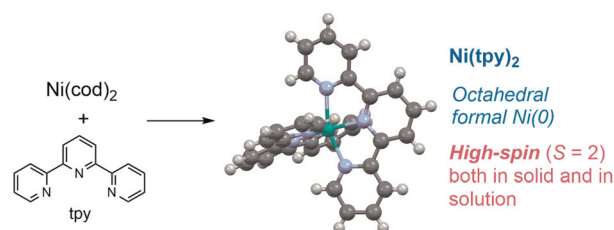
Hayato Tsurugi,* Hiroki Mori, Haruna Mori, Masami Nakamoto, Shinji Tanaka and Kazushi Mashima



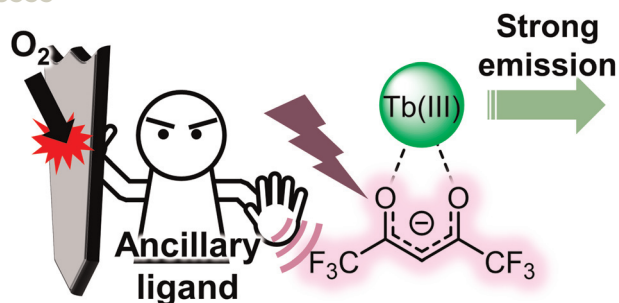
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Ni(2,2':6',2''-terpyridine)₂: a high-spin octahedral formal Ni(0) complex

Natalia Cabrera-Lobera, Estefanía del Horno, M. Teresa Quirós, Elena Buñuel, Magali Gimeno, William W. Brennessel, Michael L. Neidig, José Luis Priego and Diego J. Cárdenas*



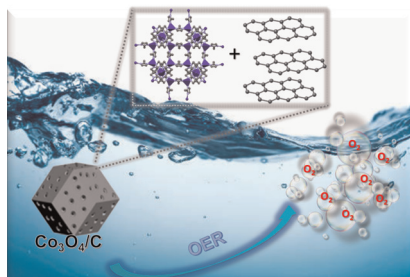
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Effective photosensitized emission of a Tb(III) complex using a β -diketonate photosensitizer and an oxygen barrier system in a thermally populated triplet state

Kota Inage, Mengfei Wang, Yasuchika Hasegawa* and Yuichi Kitagawa*

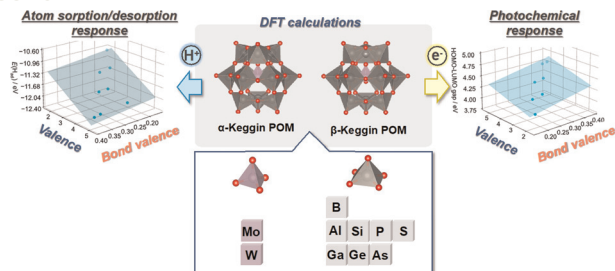
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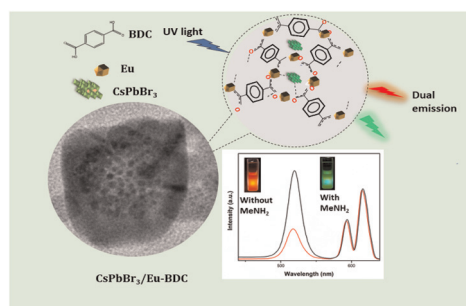
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A dual emitting CsPbBr₃/Eu-BDC composite as a ratiometric photoluminescent turn-on probe for aliphatic amine sensing

Shahnaz Ahmed* and Swapan Kumar Dolui

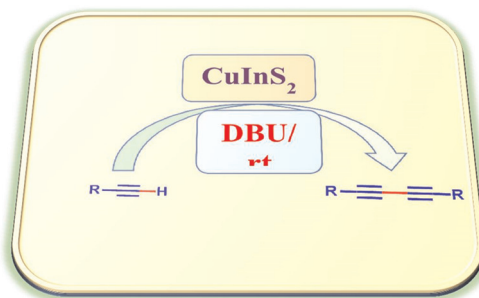


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Single-step synthesis of ternary metal chalcogenides (sf-CuInS₂ and sf-CuInSe₂) stripped off the organic cover and their use as a catalyst for symmetric Glaser–Hay coupling reactions

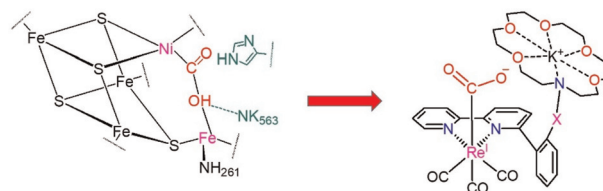
Muralidharan Krishnamurthi,* Sanyasinaidu Gottapu and Venkateswara Rao Velpuri



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Bio-inspired bimetallic models for electrochemical CO₂ reduction

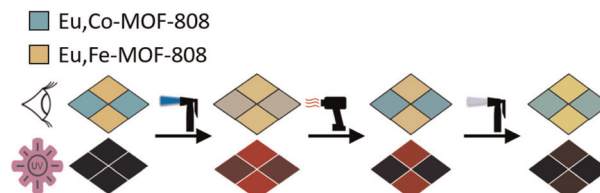
Weifang Feng, Ying Xiong, Ping Zhang, Minghong Li, Yaping Zhang, Fei Li* and Lin Chen*



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Transition metal and lanthanide modified MOF-808 for barcode design

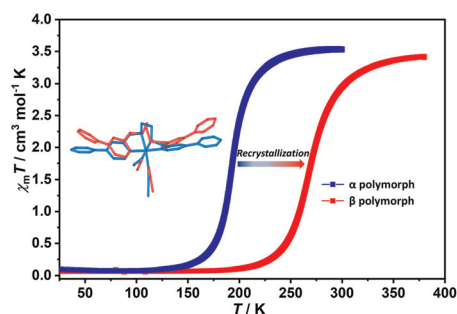
Nele Marquardt, Frederike von der Haar and Andreas Schaate*



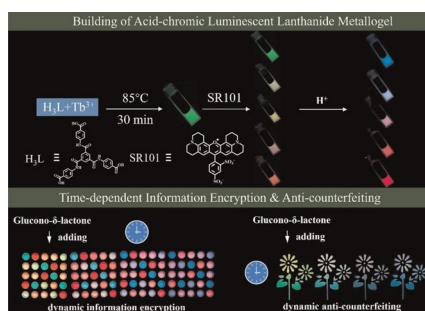
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Design and characterization of Fe(II) complexes with tetradentate ligands exhibiting spin-crossover near room temperature

Di-Yu Dou, Da-Fan Qi, Tian-Yuan Zhao, Peng-Xuan Zheng and Xin Bao*



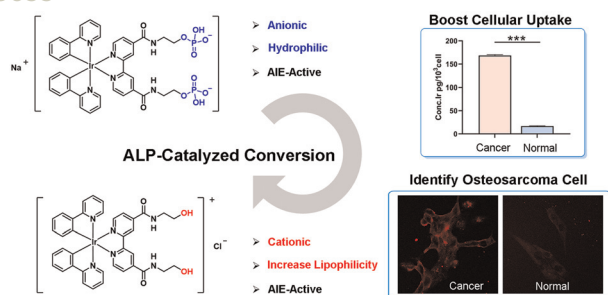
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An acid-chromic luminescent lanthanide metallogel for time-dependent information encryption and anti-counterfeiting

Binbin Zhang,* Yu Gan, Chao Liu, Qiuyu He, Jingye Chen, Jiaqi Li, Yanxiang You, Wenxiu Fan, Yujie Wang and Guangyue Bai*

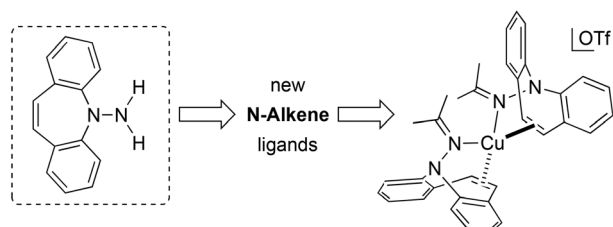
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An ALP-responsive, anionic iridium complex for specific recognition of osteosarcoma cells

Shuang Shen, Shuli Nong, Xianpeng Zhang, Jiaqi Song, Caiting Meng, Xinling Liu, Liang Shao, Guanying Li* and Li Xu*

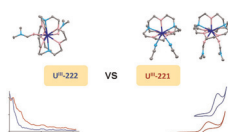
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Dibenzoazepine hydrazine is a building block for N-alkene hybrid ligands: exploratory syntheses of complexes of Cu, Fe, and Li

Alexander Grasruck, Kristina Schall, Frank W. Heinemann, Jens Langer, Alberto Herrera, Sybille Frieß, Günter Schmid and Romano Dorta*

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Comparison of the structural, electrochemical, and spectroscopic properties of two cryptates of trivalent uranium

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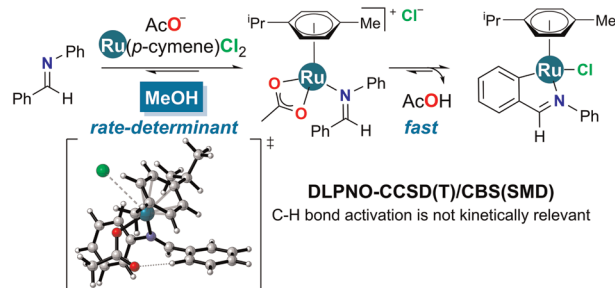


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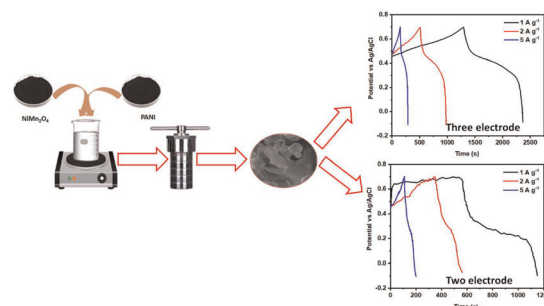
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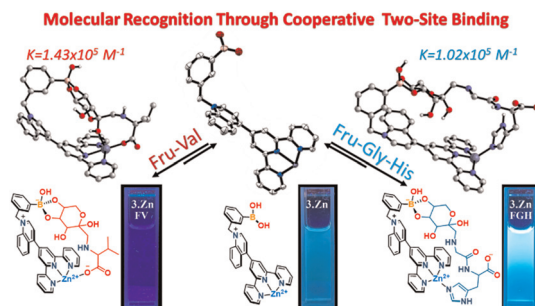
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Molecular two-point recognition of fructosyl valine and fructosyl glycyL histidine in water by fluorescent $\text{Zn}(\text{II})$ -terpyridine complexes bearing boronic acids

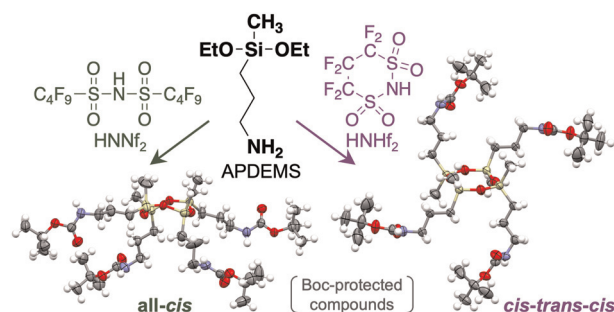
María K. Salomón-Flores, Josue Valdes-García, Alejandro O. Viviano-Posadas, Diego Martínez-Otero, Joaquín Barroso-Flores, Iván J. Bazany-Rodríguez and Alejandro Dorazco-González*



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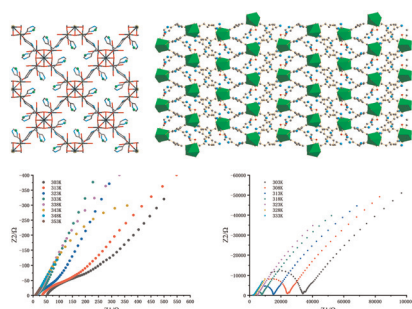
Stereoselective synthesis of different cyclic tetrasiloxane isomers depending on the superacid catalyst employed

Kanakano Sonoda, Norimitsu Tohnai and Yoshiro Kaneko*



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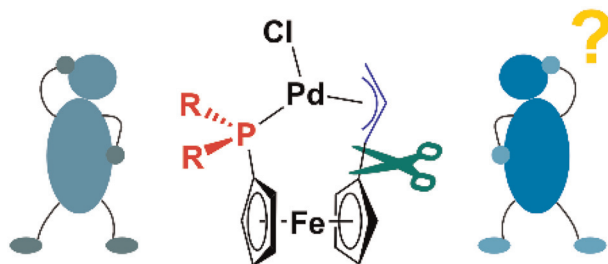
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Synthesis and proton-conductive behaviour of two MOFs with covalently bonded imidazoles in the channels

Kun-Peng Chen, Yue Ma, Hong-Xia Ren,*
Chen-Xi Zhang and Qing-Lun Wang*

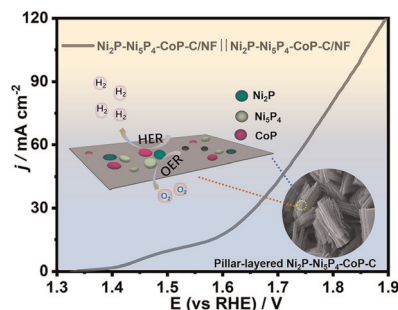
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Synthesis and catalytic properties of palladium(II) complexes with P,π-chelating ferrocene phosphinoallyl ligands and their non-tethered analogues

Karel Škoch, Jakub Antala, Ivana Císařová and
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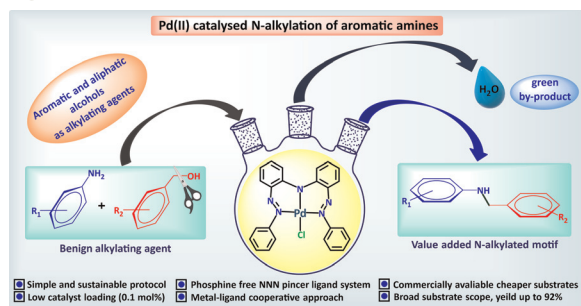
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A pillar-layered Ni₂P–Ni₅P₄–CoP array derived from a metal–organic framework as a bifunctional catalyst for efficient overall water splitting

Qihang Ni, Zixian Zhu, Yan Wang, Chengyu Jiang,
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A sustainable strategic approach for *N*-alkylation of amines with activation of alcohols triggered via a hydrogen auto-transfer reaction using a Pd(II) complex: evidence for metal–ligand cooperativity

Virendra Kumar Chaudhary, Prashant Kukreti,
Keshav Sharma, Kapil Kumar, Sain Singh, Sheela Kumari
and Kaushik Ghosh*

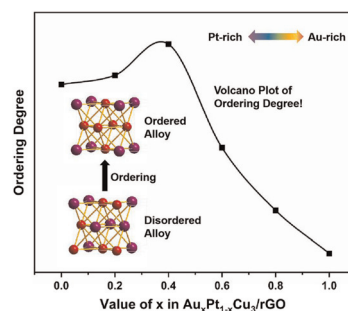


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Insight into the ordering process and ethanol oxidation performance of Au–Pt–Cu ternary alloys

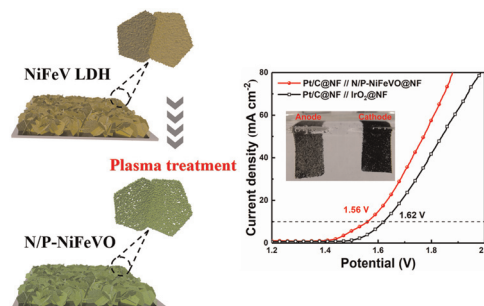
Wenbo Zhao, Mengyao Li and Shi Hu*



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N/P-doped NiFeV oxide nanosheets with oxygen vacancies as an efficient electrocatalyst for the oxygen evolution reaction

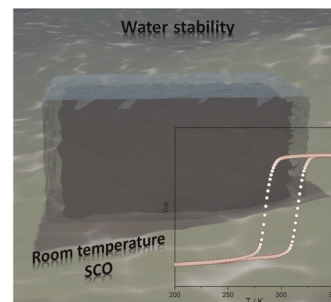
Jingyuan Zhang, Zhen Ma, Lanqi Wang, Hui Ni, Jianing Yu and Bin Zhao*



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Unlocking room-temperature bistable spin transition at the nanoscale: the synthesis of core@shell [Fe(NH₂trz)₃(NO₃)₂]@SiO₂ nanoparticles

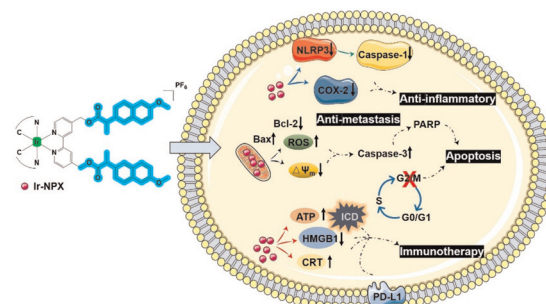
A. Regueiro, M. Martí-Carrascosa, R. Torres-Cavanillas* and E. Coronado*



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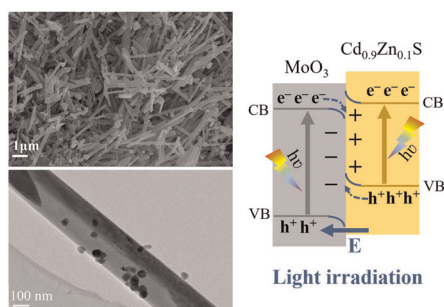
Iridium(III) complexes conjugated with naproxen exhibit potent anti-tumor activities by inducing mitochondrial damage, modulating inflammation, and enhancing immunity

Kai Xie, Xing-Yun Lu, Hou Zhu, Lin-Yuan Zhu, Rong-Tao Li* and Rui-Rong Ye*



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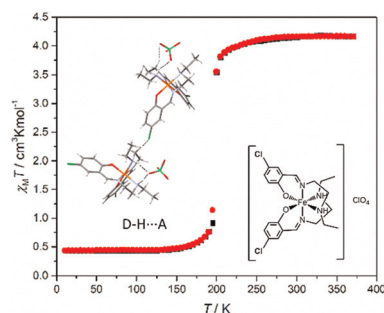
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Twinned crystal Cd_{0.9}Zn_{0.1}S/MoO₃ nanorod S-scheme heterojunctions as promising photocatalysts for efficient hydrogen evolution

Jie Chen, Ying Xie,* Haitao Yu, Zhenzi Li and Wei Zhou*

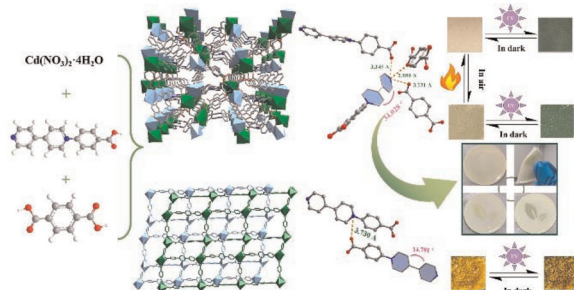
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The role of intermolecular interactions in [Fe(X-salEen)₂]ClO₄ spin crossover complexes

Marcos A. Bento, Tiago Gomes, Frederico F. Martins, Adrià Gil, Liliana P. Ferreira, Sónia Barroso, Clara S. B. Gomes, Yann Garcia and Paulo N. Martinho*

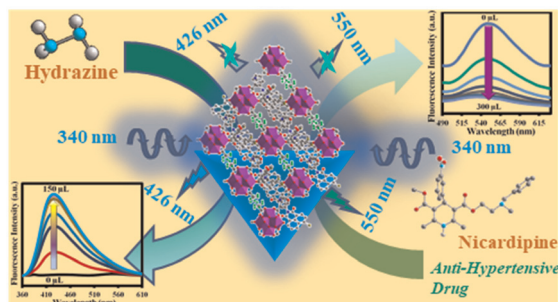
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Tunable photo/thermochromic properties of Cd(II)-viologen coordination polymers modulated by coordination modes for flexible imaging films and anti-counterfeiting

Li Huang, Xiao-Nan Li, Yuan Shen, Yang Hua, Run-Hong Song, Wen-Bo Cui, Zi-Yi Li and Hong Zhang*

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Naphthalimide functionalized metal-organic framework for rapid and nanomolar level detection of hydrazine and anti-hypertensive drug nicardipine

Sk Sakir Hossain, Dirk Volkmer and Shyam Biswas*

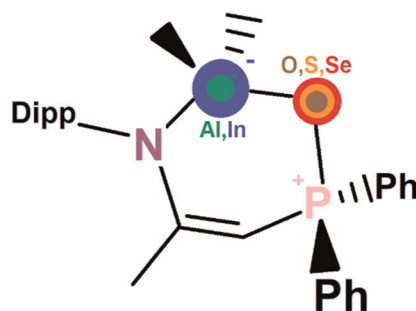


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Contrasting a series of bidentate amido phosphine oxide, sulfide, or selenide ligands and complexes of dimethyl aluminum and indium

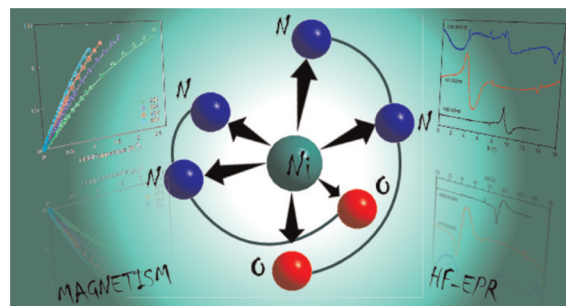
Tanner A. George and Jason D. Masuda*



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Six-coordinated nickel(II) complexes with benzothiadiazole Schiff-base ligands: synthesis, crystal structure, magnetic and HF-EPR study

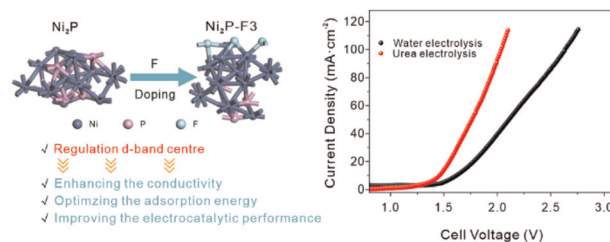
Nataliya Plyuta, Anne-Laure Barra, Ghenadie Novitchi and Narcis Avarvari*



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F-regulated Ni_2P -F3 nanosheets as efficient electrocatalysts for full-water-splitting and urea oxidation

Xi Sun, Shixue Song, Gaojie Yan, Yingchun Liu, Huili Ding, Xiaojie Zhang* and Yi Feng*



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Gradual solid-state redox-isomerism in the lanthanide series

Daria A. Lukina, Alexandra A. Skatova, Roman V. Rumyantsev, Serhiy V. Demeshko, Franc Meyer and Igor L. Fedushkin*

