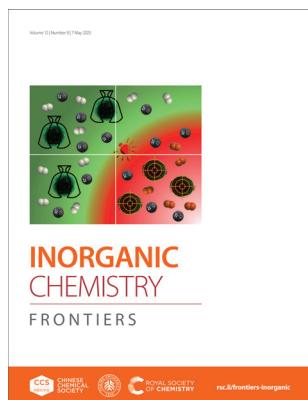


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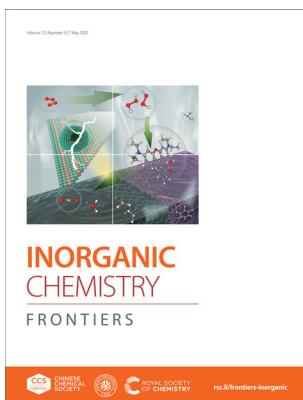
ISSN 2052-1553 CODEN ICFNAW 12(9) 3337–3546 (2025)



#### Cover

See José Ruiz,  
Vicente Marchán et al.,  
pp. 3367–3383.

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See Jie Wang, Liangyu Gong  
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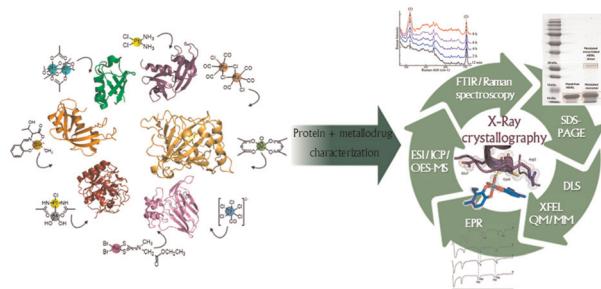
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### REVIEW

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## Investigation of metallodrug/protein interaction by X-ray crystallography and complementary biophysical techniques

Giarita Ferraro and Antonello Merlini\*

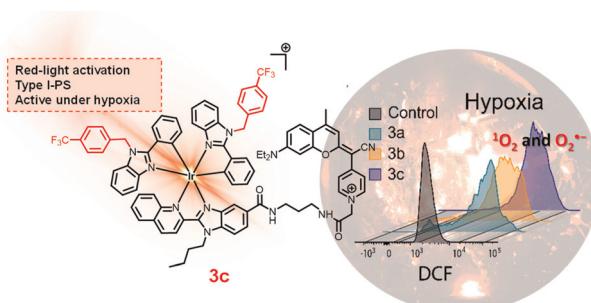


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## Achieving red-light anticancer photodynamic therapy under hypoxia using Ir(III)-COUPY conjugates

Enrique Ortega-Forte, Anna Rovira, Pezhman Ashoo, Eduardo Izquierdo-García, Cormac Hall, Diego Abad-Montero, Mireia Jordà-Redondo, Gloria Vigueras, Alba Deyà, José Luis Hernández, Jorge Galino, Manel Bosch, Marta E. Alberto, Antonio Francés-Monerris, Santi Nonell, José Ruiz\* and Vicente Marchán\*





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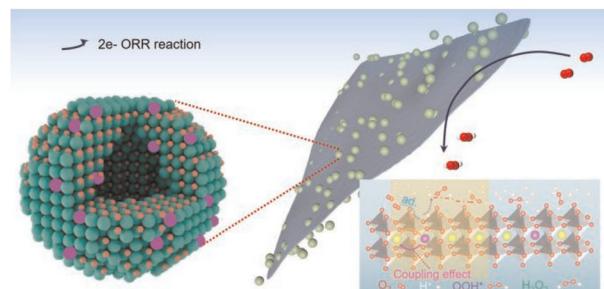
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## RESEARCH ARTICLES

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**Homogeneous bismuth dopants regulate cerium oxide structure to boost hydrogen peroxide electrosynthesis via two-electron oxygen reduction**

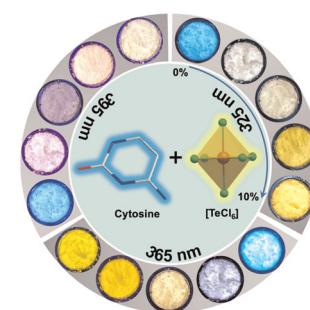
Qiying Yang, Changhui Sun, Lanju Sun, Hangning Liu, Linghao Su, Chuanli Ma, Jie Wang,\* Liangyu Gong\* and Zhenhua Yan



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**Excitation-dependent multicolor luminescence with tunable afterglow from  $\text{Te}^{4+}$ -doped  $(\text{CytH})_2\text{SnCl}_6$  for dynamic anticounterfeiting**

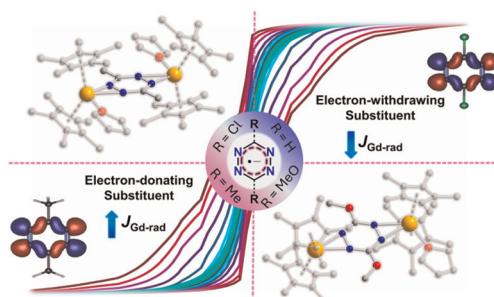
Mengjia Zhang, Xianli Li,\* Yuerong Xie, Chenghao Ye, Jiaoqiao Qian\* and Binbin Luo



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**Exploring the substitution effect on the magnetic coupling of tetrazinyl-bridged  $\text{Ln}_2$  single-molecule magnets**

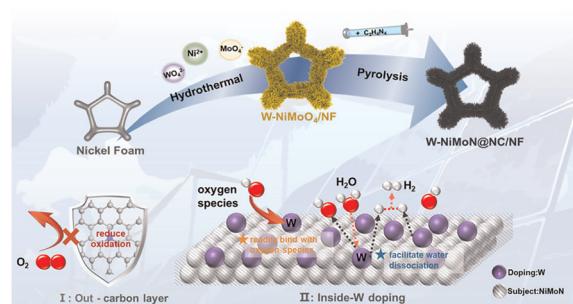
Niki Mavragani, Alexandros A. Kitos, Rezeda Gayfullina, Akseli Mansikkamäki,\* Jani O. Moilanen\* and Muralee Murugesu\*



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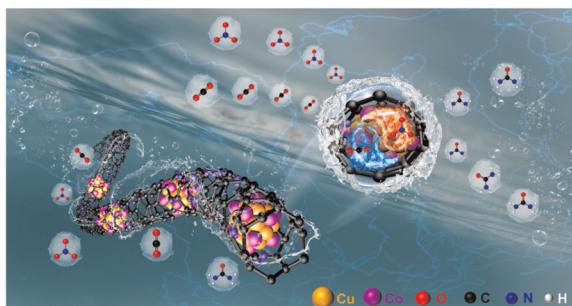
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Rufei Zhang, Hui Teng, Jinyuan Miao, Jianing Kang, Lili Zhou, Linting Cheng, Zhiqun Bai, Jianwen Zhang, Jia Liu, Yang Tang\* and Pingyu Wan



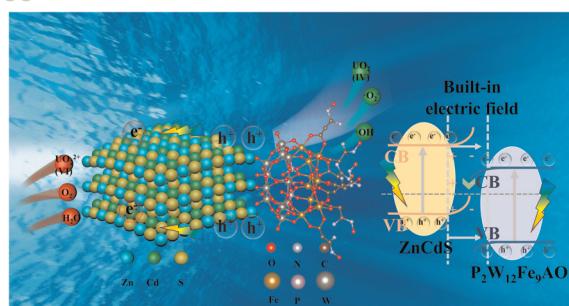
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**Optimizing the electronic structure of copper and cobalt dual sites for efficient electrosynthesis of urea**

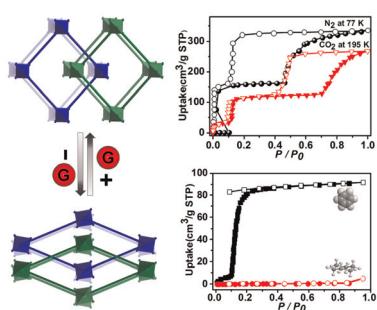
Jiafang Liu, Shengbo Zhang,\* Zhixian Mao, Wenyi Li, Meng Jin, Huajie Yin, Yunxia Zhang, Guozhong Wang and Haimin Zhang\*

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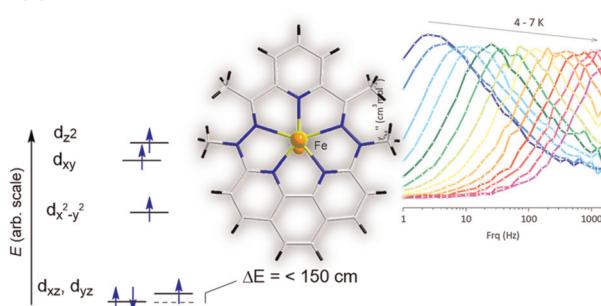
Yu Liu, Donghui Cui, Xue Yang and Fengyan Li\*

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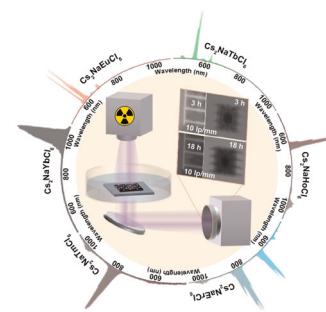
**Engineering first-order spin–orbit coupling in a pentagonal bipyramidal Fe(II) complex and subsequent SMM behavior**

Kateryna Bretosh, Virginie Béreau, Flaurent Heully-Alary, Nicolas Suaud,\* Carine Duhayon, Elen Duverger-Nédellec, Nathalie Guihéry\* and Jean-Pascal Sutter\*

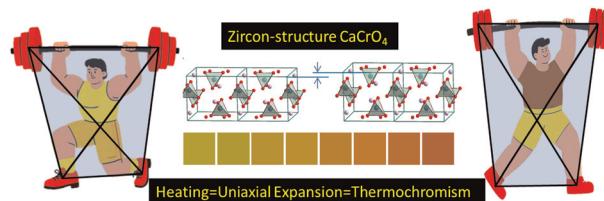


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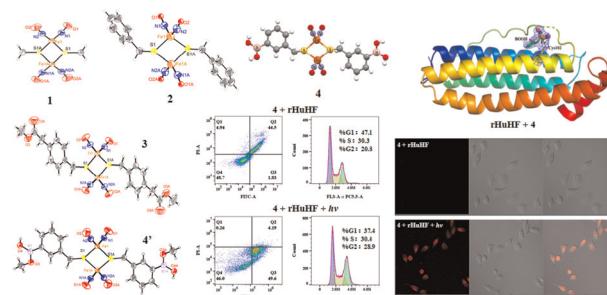
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**Rare earth double perovskites for underwater X-ray imaging applications**Ying Wang, Chao Wang, Luxuan Men, Jinlong Zhu,  
Qingsong Hu,\* Jiawen Xiao\* and Omar F. Mohammed\*

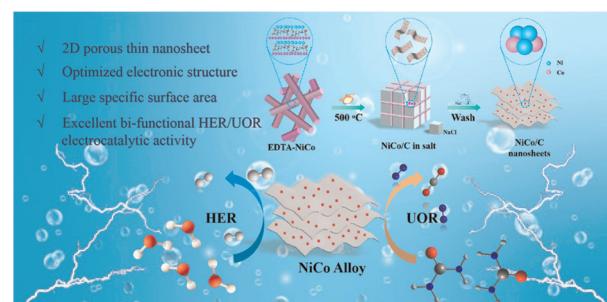
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Xiaotian Yang and Long Yuan\*

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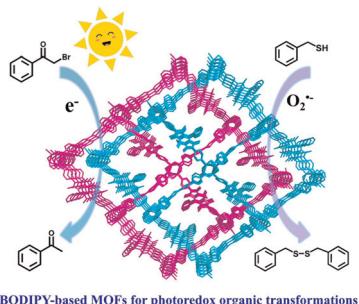
**Photoinduced NO release of  $[\text{Fe}_2(\mu\text{-SL})_2(\text{NO})_4]$  complexes and their protein adducts: insights from structure, cytotoxicity, and photodynamic studies**Wenjun Gong, Yating Pang, Chenyu Wang,  
Wenming Wang and Hongfei Wang\*

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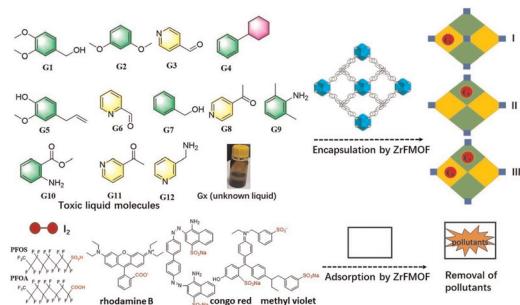
**Porous NiCo alloy thin sheets with synergistic Co/Ni sites for high-efficiency urea-assisted electrocatalytic hydrogen production**Chengxu Jin, Aiping Wu, Yuying Fan, Xianyun Yue,  
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Chen-Yang Nie, Li-Jun Xue, Shao-Dan Wang,  
Meng-Yuan Li, Qian Kang and Li-Li Wen\*

## Encapsulation of toxic liquid molecules and adsorption of water pollutants by a versatile pre-organized single crystalline coating material

Wei-Ping Huang, Jin-Chang Liu, Feng Wang, Wei Xu,  
Zi-Meng Tao, David A. Middleton, Cheng-Dong Liu,\*  
Shu-Qin Qin,\* Wen-Cai Ye\* and Ren-Wang Jiang\*

