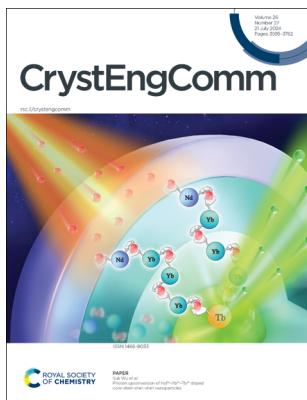


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### Cover

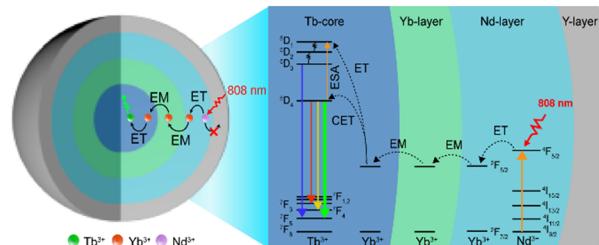
See Suli Wu *et al.*,  
pp. 3603–3608.  
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*CrystEngComm*, 2024, 26,  
3603.

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### 3603

#### Photon upconversion of Nd<sup>3+</sup>–Yb<sup>3+</sup>–Tb<sup>3+</sup> doped core–shell–shell–shell nanoparticles

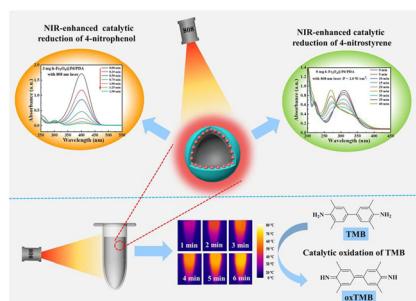
Wenfei Xun, Zhipeng Meng,\* Chuwei Xie and Suli Wu\*



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#### NIR-enhanced multi-mode catalytic activity over Pd nanocrystals sandwiched within magnetic polydopamine hollow spheres

Jie Jin,\* Haoran Li, Shanshan Wu, Jing Wang, Qunling Fang, Chunyan Xu,\* Yunqi Xu, Weili Kong, Di Wang and Shouhu Xuan\*





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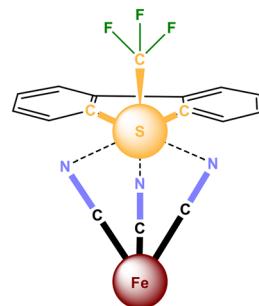


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**Structural diversity of supramolecular networks formed between polycyanometalates and sulfur-based chalcogen bond donors**

Tim-Niclas Streit, Jan Langwald, Rosa M. Gomila,  
Antonio Frontera\* and Moritz Malischewski\*



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**The role of cavitation and gas bubbles in the non-photochemical laser-induced nucleation of sodium acetate**

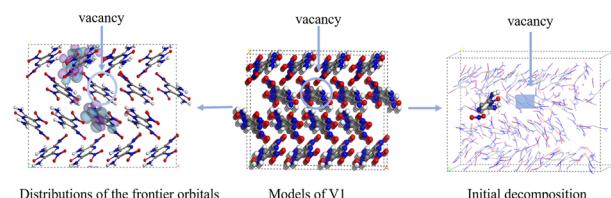
Eleanor R. Barber, Martin R. Ward  
and Andrew J. Alexander\*



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**Stability, electronic properties, and decomposition mechanisms of 2,6-diamino-3,5-dinitropyrazine-1-oxide crystals with different vacancy defects**

Mengyun Mei, Zijian Sun, Jincheng Ji and Weihua Zhu\*



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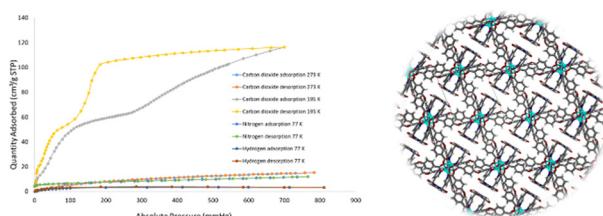
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Joana F. C. Silva, Małgorzata Jasiurkowska-Delaporte,  
Pedro S. Pereira Silva, Manuela Ramos Silva,  
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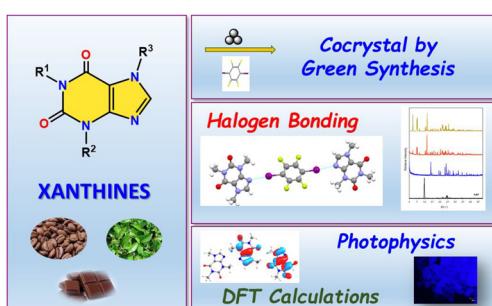
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### Three-dimensional metal–organic frameworks (MOFs) containing substituted diimide ligands: synthesis, structures and gas sorption studies

Luccile Mbonzhe, Lufuno Mushango, Nabanita Chatterjee, Leigh Loots, Clive L. Oliver and Eustina Batisai\*

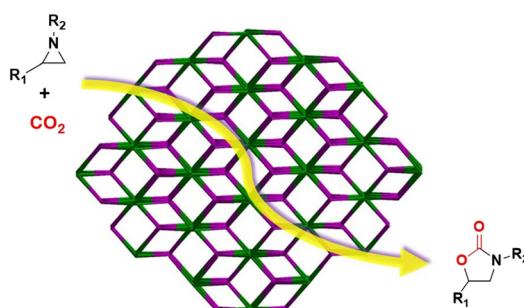
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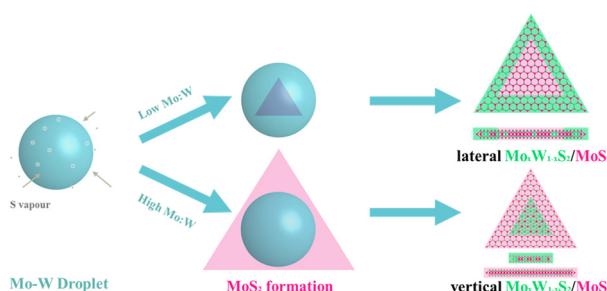
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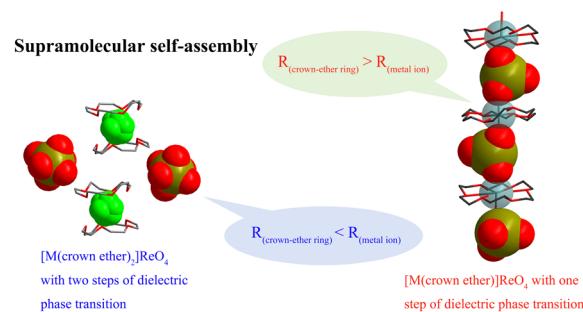


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**Comprehensively understanding the distinct properties of crystal structure, phase transition and dielectrics in  $[M(\text{crown})_n]\text{ReO}_4$  ( $M^+ = \text{Na}^+, \text{K}^+, \text{NH}_4^+$ ; crown = 15-crown-5, 18-crown-6;  $n = 1$  or 2)**

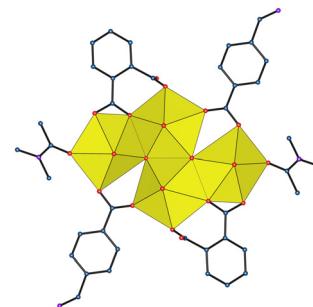
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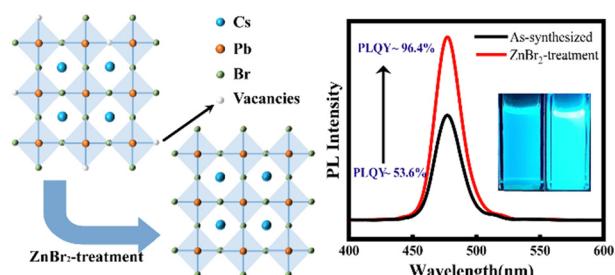
Youssef Atoini, Jack Harrowfield\* and Pierre Thuéry\*



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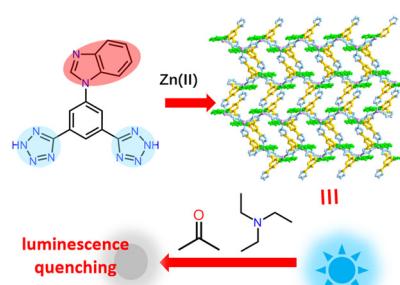
Tianfeng Li, Xingyi He, Zifan Liang, Yingxin Dong, Renming Liu, Zhen Chi, Yanmin Kuang, Xiaojuan Wang\* and Lijun Guo\*



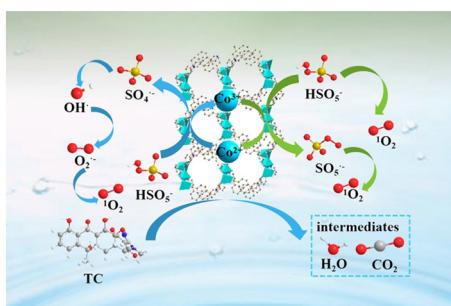
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**A luminescent Zn(II) coordination polymer based on a new tetrazolyl-benzimidazolyl tripodal heterotopic ligand for detecting acetone and triethylamine in water**

Jia-Xuan Wu, Yi-Hong Mo, Xian Lin, Bing-Xun Zhou, Song-Liang Cai,\* Jun Fan, Mu-Biao Xie and Sheng-Run Zheng\*



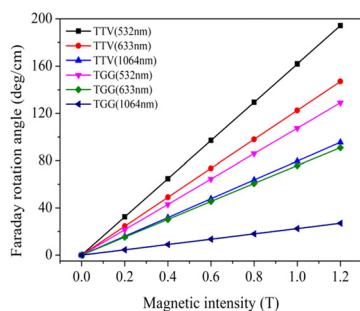
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