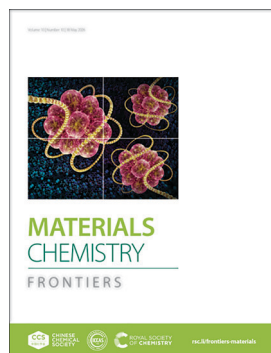


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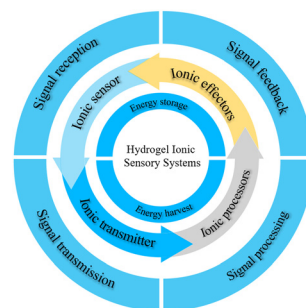
See Hang Thu Ta *et al.*, pp. 1594–1602. Image reproduced by permission of Hang Thu Ta and Cong Minh Nguyen from *Mater. Chem. Front.*, 2026, 10, 1594.

REVIEWS

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Hydrogel ionic sensory systems

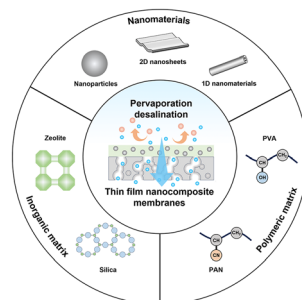
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Recent advances in thin-film nanocomposite membranes for efficient pervaporation desalination

Xiao Chen, Guoqiang Li, Pengchao Zhang* and Wojciech Kujawski*



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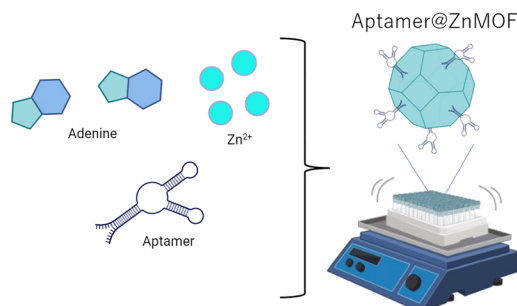


RESEARCH ARTICLES

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Facile synthesis of tunable zinc–adenine frameworks for aptamer-based biological applications

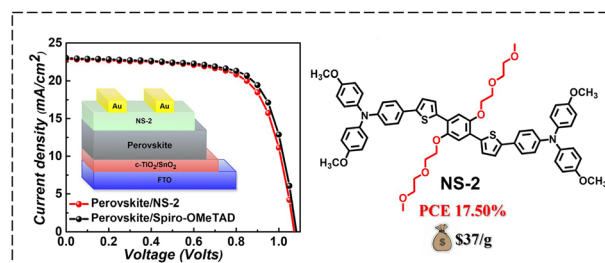
Cong Minh Nguyen, Quang Thang Trinh, Nam-Trung Nguyen and Hang Thu Ta*



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A simple and cost-effective thiophene–benzene–thiophene-based hole transporting material for stable perovskite solar cells

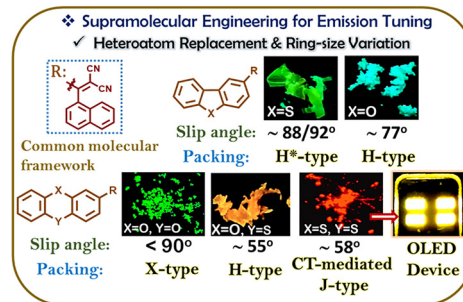
Nousheen Syed, Ankita Sharma, Thillaiarasi Sukumar, Ganesh Koyyada, David Kreher, Baswanth Oruganti, Upendra Kumar Pandey* and Kamatham Narayanaswamy*



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Supramolecular engineering of non-planar bridged-ethers: blue to red emission tuning and solution-processed OLED fabrication

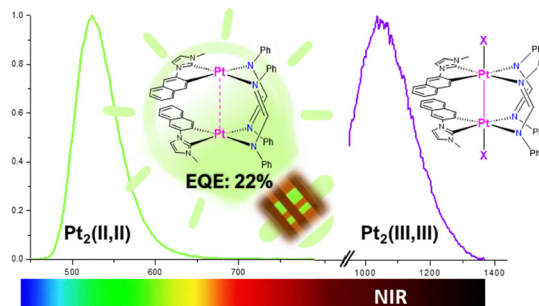
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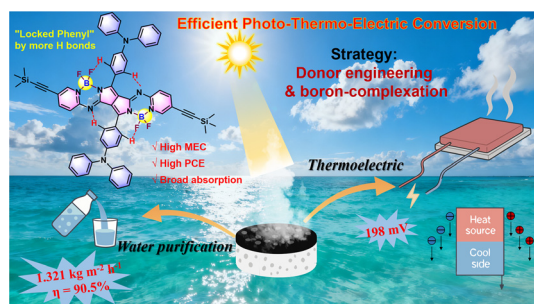
Double-decker NHC-cyclometallated Pt complexes for highly-efficient vacuum-deposited green OLEDs and NIR emission

Irene Melendo, Lucy A. Weatherill, Antonio Martin, Piotr Pander, Fernando B. Dias,* Sara Fuertes* and Violeta Sicilia*



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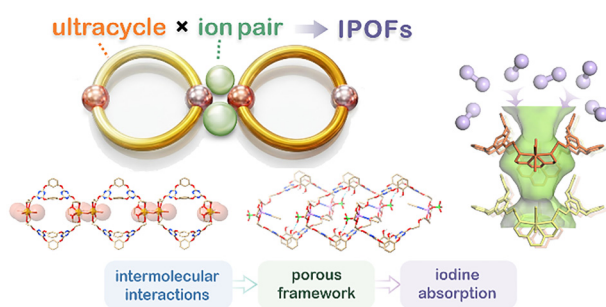
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Boosting photothermal conversion through a simultaneous donor engineering and boron-complexation strategy for solar-driven applications

Yitian Pan, Derong Cao, Xueguang Ran and Lingyun Wang*

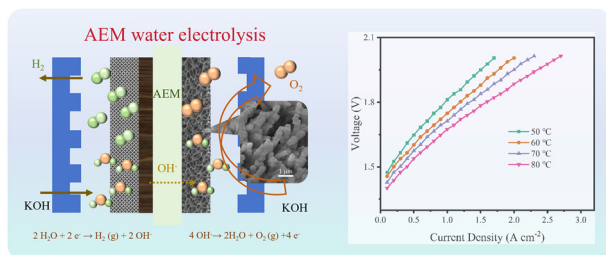
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Ion pair organic frameworks based on multitopic ultracycles for efficient iodine absorption

Teng-Yu Huang, Wen-Hui Mi, Xu-Dong Wang, Yu-Fei Ao, De-Xian Wang* and Qi-Qiang Wang*

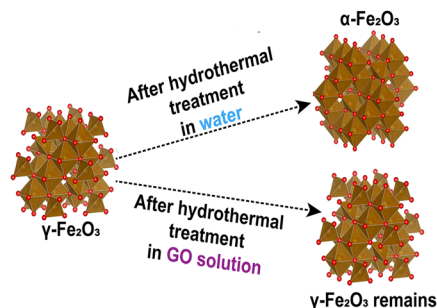
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Template-assisted synthesis of amorphous NiFeCuO_x arrays for efficient anion-exchange membrane water oxidation

Qilong Liu, Cheng Gong, Xiaole Zhang, Peng Chen, Mengxiang Wang, Qizhu Qian, Jujia Zhang, Mingliang Fang* and Wentuan Bi*

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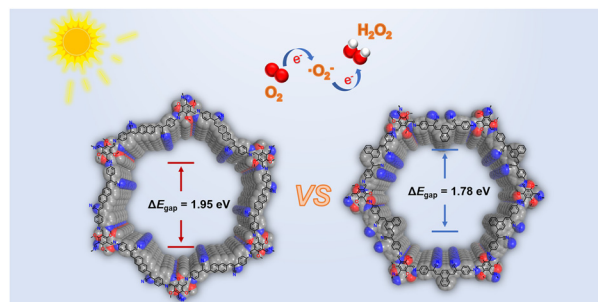
Suppressing γ - to α -Fe₂O₃ transformation using a reduced graphene oxide hydrogel

Xiangning Quan, Shuo Duan, Peixiu Yan, Yongjian Wang, Yiqun Zhao, Jie Yang, Bo Dai, Mingsu Si, Jun Wang, Yang Hu, Hua Li, Lili Zhang,* Mingzai Wu* and Yong Peng*



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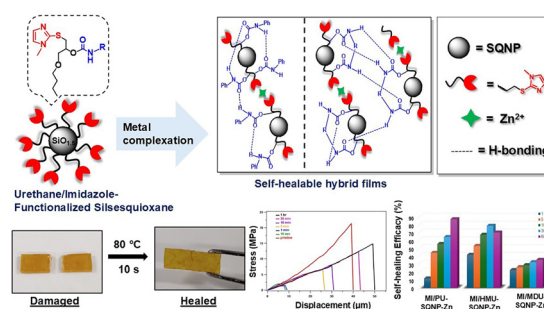
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Structural regulation of covalent organic frameworks *via* isomerism for enhanced photocatalytic hydrogen peroxide productionGuoye Yu, Ruoxuan Zhang, Xin Zhao, Jiaojiao Bi,*
Guangchao Han, Yingjie Zhao* and Yuancheng Wang*

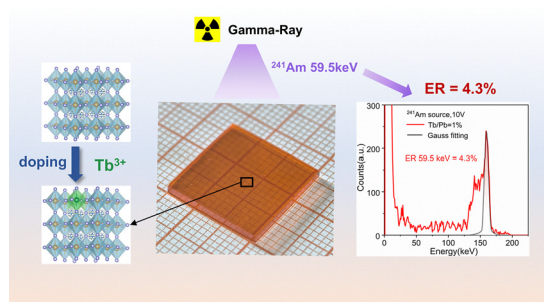
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Mahmoud A. Abdelkawy, Akihiro Nishioka and Hideharu Mori*



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Tb-doped MA_{0.89}FA_{0.11}PbBr₃ perovskite single crystals for gamma-ray detectionQian Zhang, Lin Ma,* Guowei Wang,* Yuhang Huang,
Luyang Du, Taifeng Lin and Zhengguang Yan*

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Fabrication of high-performance flexible Ag/Ag₂Se composite films for thermoelectric applications

Xiuye He, Guangchen Wang and Qiufeng Meng*

