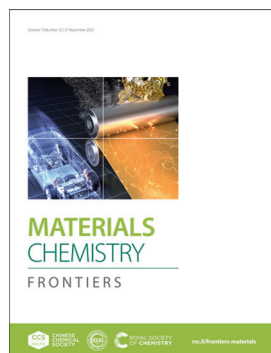


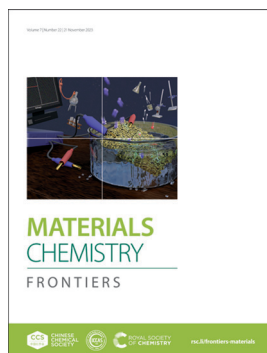
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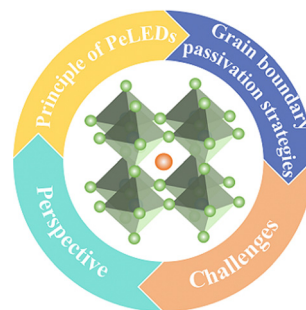
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High-performance perovskite light-emitting diodes based on grain boundary passivation: progress, challenges and perspectives

Yalian Weng, Eng Liang Lim, Yuanyuan Meng, Junpeng Lin and Zhanhua Wei*

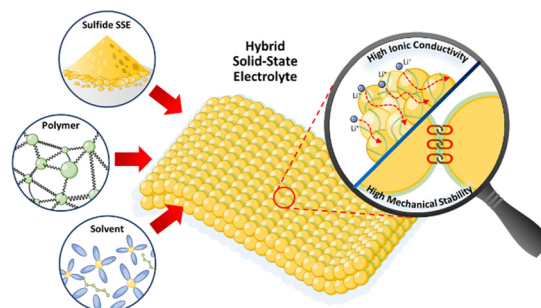


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A review of polymers in sulfide-based hybrid solid-state electrolytes for all-solid-state lithium batteries

Minjae Kim, Junhyeok Seo, Jeanie Pearl Dizon Suba and Kuk Young Cho*



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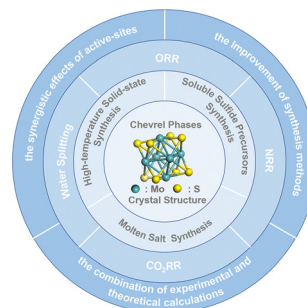


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Chevrel phases: synthesis, structure, and electrocatalytic applications

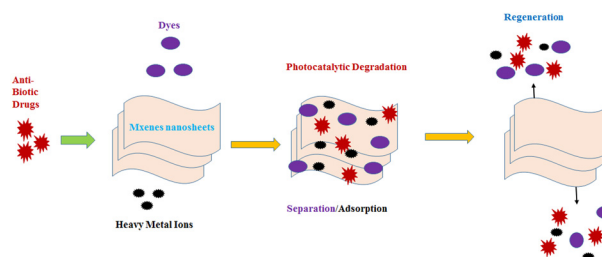
Wanling Zhang, Wenbiao Zhang, Jingwen Tan, Yi Tang and Qingsheng Gao*



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MXene-based nanocomposites: emerging candidates for the removal of antibiotics, dyes, and heavy metal ions

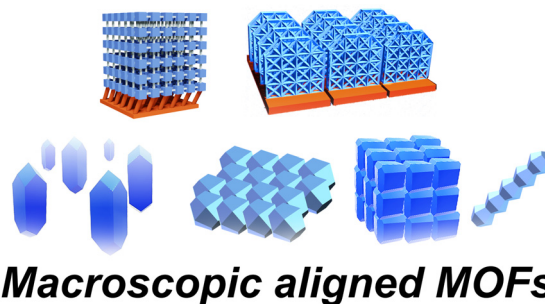
Hyder Ali, Akbar Ali, Jamil Ahmed Buledi, Ayaz Ali Memon,* Amber Rehana Solangi, Jun Yang* and Khalid Hussain Thebo*



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Macroscopic alignment of metal–organic framework crystals in specific crystallographic orientations

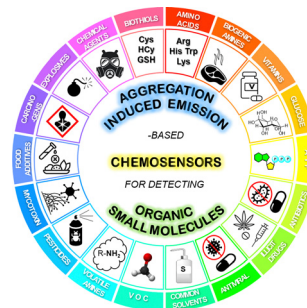
Jonghoon Park, Hoi Ri Moon* and Jin Yeong Kim*

**Macroscopic aligned MOFs**

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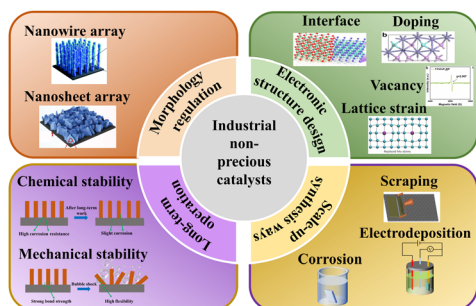
Recent advances in aggregation-induced emission (AIE)-based chemosensors for the detection of organic small molecules

Ming Hui Chua,* Bryan Yat Kit Hui, Kang Le Osmund Chin, Qiang Zhu, Xiaogang Liu* and Jianwei Xu*



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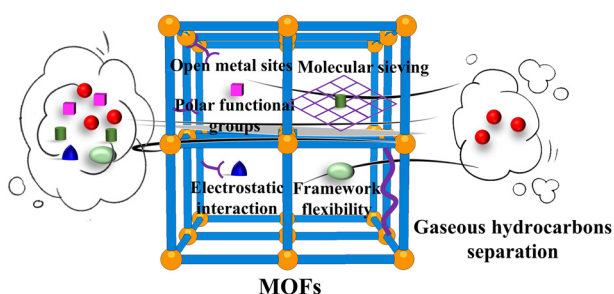
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Non-precious metal-based catalysts for water electrolysis to produce H₂ under industrial conditions

Lixiang He, Guang Yu, Yujia Cheng,* Ni Wang and Wencheng Hu*

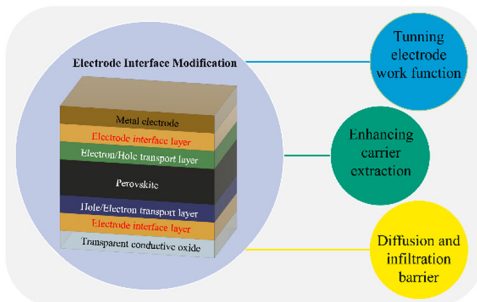
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Recent progress in metal–organic frameworks for the separation of gaseous hydrocarbons

Jing-Hong Li, Jun-Xian Chen, Rui-Biao Lin* and Xiao-Ming Chen*

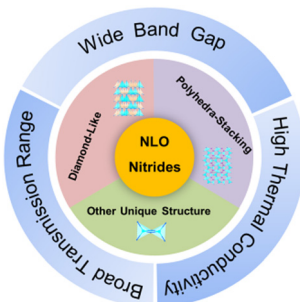
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Recent advances in electrode interface modifications in perovskite solar cells

Jiantao Wang and Hsing-Lin Wang*

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Nitrides: a promising class of nonlinear optical material candidates

Xin Zhao, Chensheng Lin, Haotian Tian, Chao Wang, Ning Ye and Min Luo*



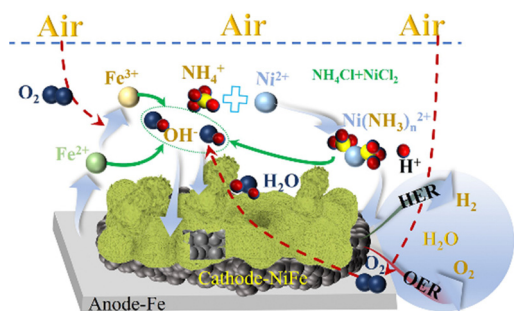
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In situ decorated $\text{Cu}_2\text{FeSnS}_4$ nanosheet arrays for low voltage hydrogen production through the ammonia oxidation reaction

Yoongu Lim, Subramani Surendran, Won So, Sathyanarayanan Shanmugapriya, Chanmin Jo, Gnanaprakasam Janani, Hyeonuk Choi, Hyun Soo Han, Heechae Choi, Young-Hoon Yun, Tae-Hoon Kim, Myeong-Jin Kim, Kyoungsook Jin, Jung Kyu Kim* and Uk Sim*

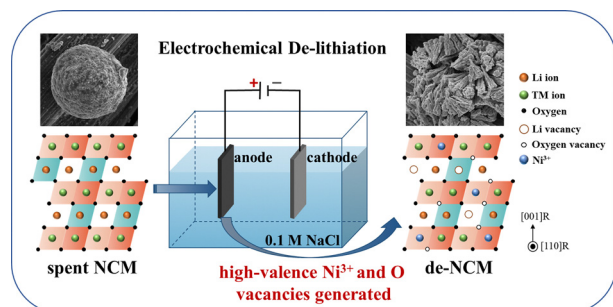
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Accelerating corrosion of iron foam enables a bifunctional catalyst for overall water splitting

Yunhua Liu, Jianfei Mao, Yujie Yuan, Hongsheng Huang, Xianguo Ma, Xiaoqin Li* and Zhaoyu Jin*

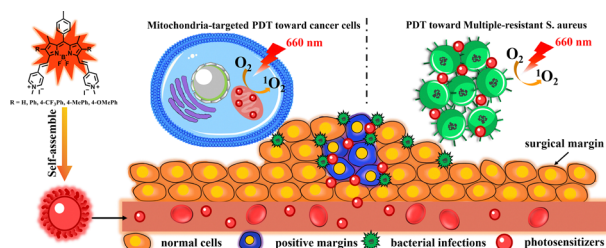
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High-valence Ni^{3+} construction and stability by electrochemical de-lithiation boosting oxygen evolution

Shujing Li, Xiaoming Zhu, Xiaohan Wang, Wenshu Luo, Xu Yu, Qiuyun Guo, Kunming Song, Han Tian,* Xiangzhi Cui* and Jianlin Shi

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BODIPY-based photosensitizers with simultaneous photodynamic antitumor and antibacterial effects

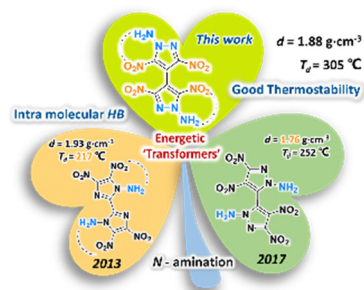
Bin-Kai Liu, Ji Zheng, Hui Wang,* Li-Ya Niu* and Qing-Zheng Yang*



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Energetic bi-diazole 'transformers' toward high-energy thermostable energetic compounds

Jingwei Meng, Teng Fei,* Jinxiang Cai, Qi Lai, Jinya Zhang, Siping Pang* and Chunlin He*



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Controllable growth of WO₃@GDY heterointerface for efficient NH₃ synthesis

Xiaoyu Luan, Lu Qi, Zhiqiang Zheng, Shuya Zhao, Huimin Liu, Runyu Liu, Zhaoyang Chen, Jiayu Yan, Yurui Xue* and Yuliang Li*

