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Cover
See Wenzhen Li, Shuang Gu *et al.*, pp. 504–515.
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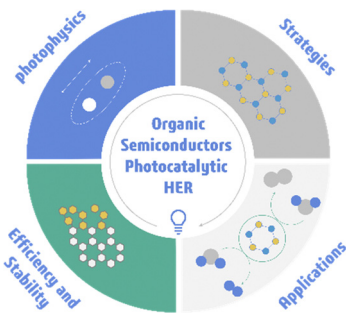
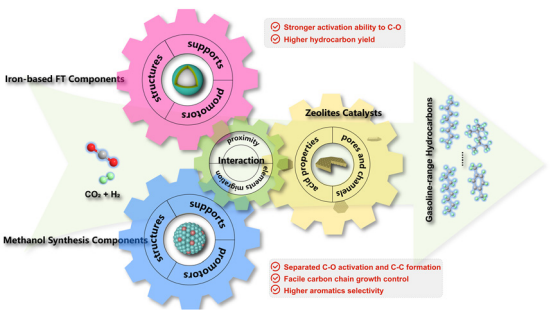
REVIEWS





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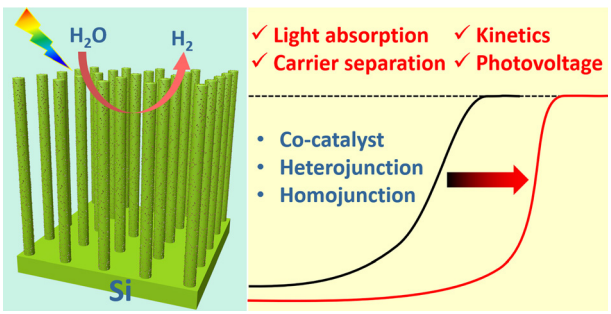
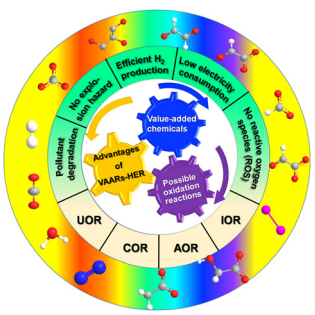
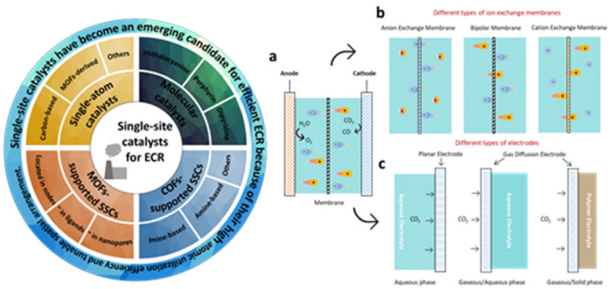
REVIEWS







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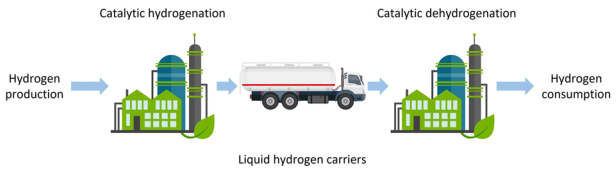
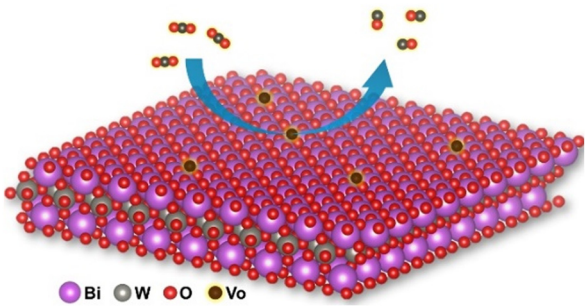


Catalytic hydrogen storage in liquid hydrogen carriers

Yuwen Ni, Zhe Han,* Yuchao Chai, Guangjun Wu and Landong Li*

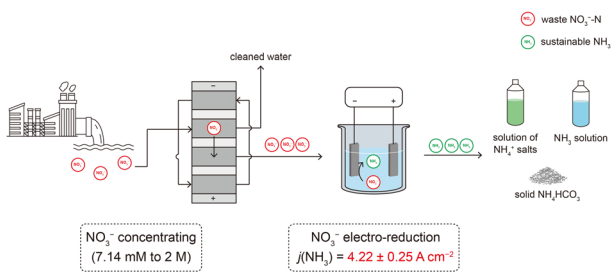
COMMUNICATION



In situ solvothermal reduction engineering enables delicate control over surface-rich oxygen vacancies on Bi_2WO_6 for highly efficient photocatalytic CO_2 reduction

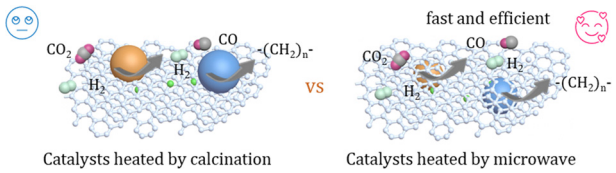
Huanhuan Liu, Yanxu Chen, Wentao Wang, Xiaoyue He, ZiXu He, Lei Li, Suyuan Zeng, Ruiguo Cao and Genqiang Zhang*

PAPERS



Sustainable waste-nitrogen upcycling enabled by low-concentration nitrate electrodialysis and high-performance ammonia electrosynthesis

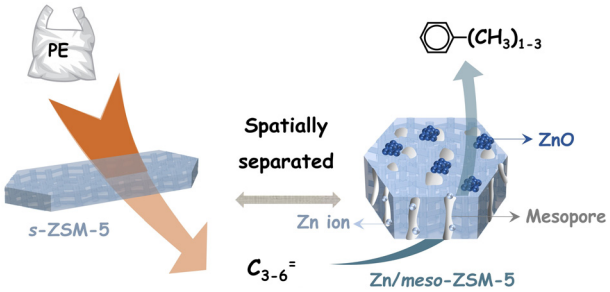
Yifu Chen, Pouya Ammari-Azar, Hengzhou Liu, Jungkuk Lee, Yu Xi, Michael J. Castellano, Shuang Gu* and Wenzhen Li*

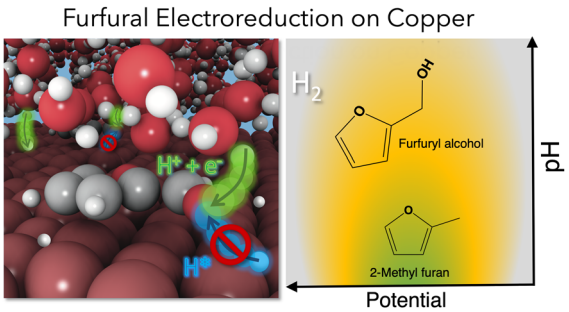


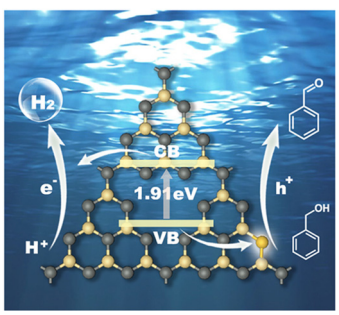
Microwave-assisted carbon-confined iron nanoparticles for steering CO_2 hydrogenation to heavy hydrocarbons

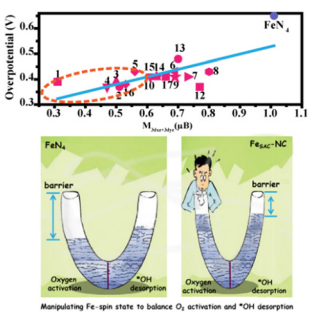
Lisheng Guo,* Peipei Ai, Xinhua Gao, Hao Wu, Xianbiao Wang, Yasuharu Kugue, Jiaming Liang, Weizhe Gao, Xiaoyu Guo, Jian Sun,* Song Sun* and Noritatsu Tsubaki*

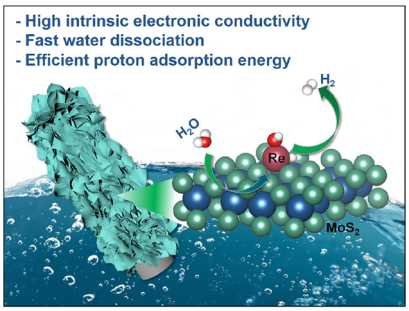
PAPERS











Single-atomic rhenium-assisted 2H-to-1T phase transformation of MoS_2 nanosheets boosting electrocatalytic hydrogen evolution

Jianmin Yu, Yongteng Qian, Qing Wang, Chenliang Su, Hyoyoung Lee,* Lu Shang* and Tierui Zhang*