

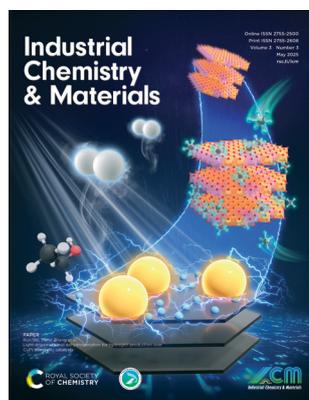
# Industrial Chemistry & Materials

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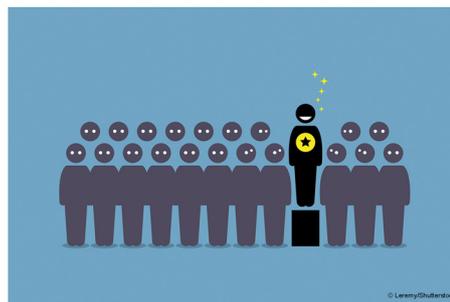
### Cover

See Run Shi, Tierui Zhang *et al.*, pp. 332-341.  
Image reproduced by permission of Run Shi and Tierui Zhang from *Ind. Chem. Mater.*, 2025, 3, 332.

## EDITORIAL

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### Outstanding Reviewers for *Industrial Chemistry & Materials* in 2024

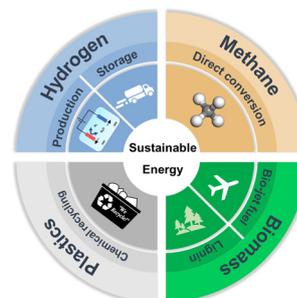


## REVIEWS

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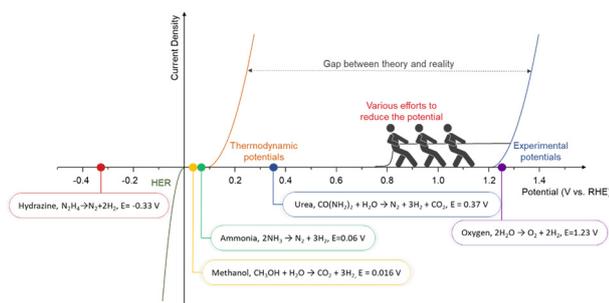
### Catalysis in sustainable energy resources: overview studies of hydrogen, methane, biomass and plastics

Yuwen Ni, Jingqing Tian, Zhe Han,\* Yuchao Chai, Chen Zhao, Guangjun Wu and Landong Li\*



## REVIEWS

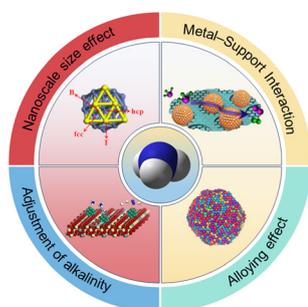
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### Unlocking the potential of chemical-assisted water electrolysis for green hydrogen production

Jiwoo Lee, Sol A. Lee, Tae Hyung Lee and Ho Won Jang\*

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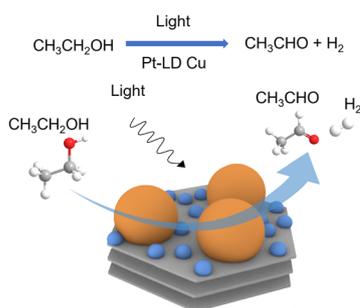


### Catalyst design for ammonia decomposition: an overview

Tong Han, Lu Wei,\* Shaohua Xie, Yuxi Liu, Hongxing Dai and Jiguang Deng\*

## PAPERS

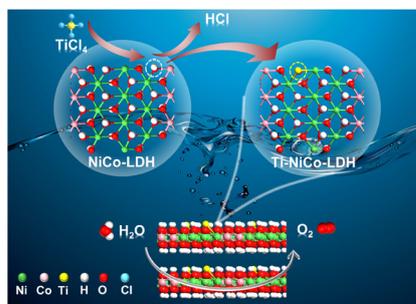
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### Light-driven ethanol dehydrogenation for hydrogen production over CuPt bimetallic catalysts

Shihao Du, Run Shi,\* Jiaqi Zhao, Pu Wang, Jinhu Wang, Zhenhua Li, Peng Miao, Qianqian Shang, Chi Duan and Tierui Zhang\*

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### A facile route of Ti decoration for modulating M-O-Ti (M = Ni, Co) and oxygen vacancies on NiCo-LDH electrocatalysts for efficient oxygen evolution reaction

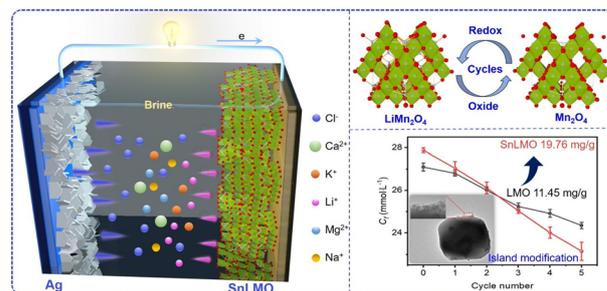
Jing Xie, Jianhao Du, Pei Chen, Gang Wang, Jinli Zhang, Xiaodong Yang,\* Aiqun Kong\* and Feng Yu\*



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### Enhanced lithium extraction from brine using surface-modified $\text{LiMn}_2\text{O}_4$ electrode with nanoparticle islands

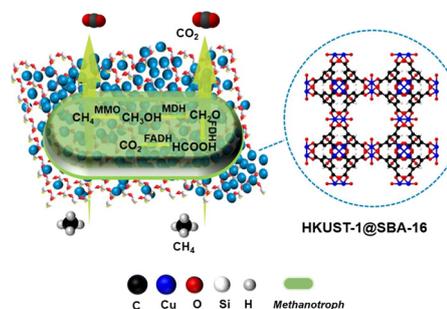
Guiling Luo, Muyao He, Li Zhang, Jianquan Deng, Linlin Chen, Yanhong Chao,\* Haiyan Liu, Wenshuai Zhu\* and Zhichang Liu



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### Effective methane biodegradation through *in situ* coupling with *methanotroph* and HK@SB-1 MOFs

Weihsang Han, Ruoshi Luo, Dan Wang,\* Tinglan Li, Qin Zhao, Xue Xia, Ge Hu, Zhen Zhou and Yunpei Liang



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