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See Zongyuan Wang, Huan Pang, Feng Yu *et al.*, pp. 407–419. Image reproduced by permission of Feng Yu from *EES Catal.*, 2025, 3, 407.



Inside cover

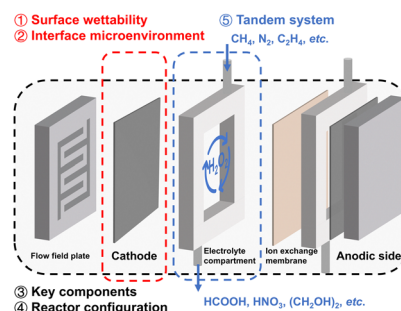
See Eunjoo Jang, Jong Wook Bae *et al.*, pp. 420–434. Image reproduced by permission of Jong Wook Bae from *EES Catal.*, 2025, 3, 420.

REVIEW

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Aspects in cell design for H₂O₂ electrosynthesis and its integration in tandem systems

Wenhao Chen, Chang Sun and Wenchao Sheng*

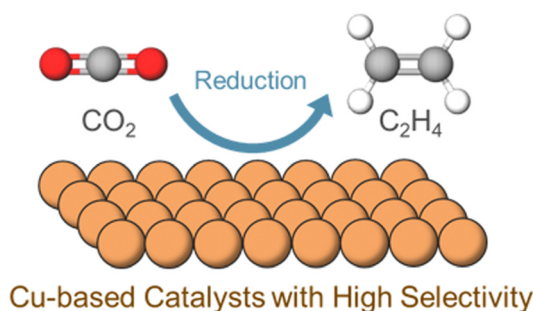


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Identification of catalyst optimization trends for electrocatalytic CO₂ reduction to ethylene

Stefan J. Raaijman, Maarten P. Schellekens, Yoon Jun Son, Marc T. M. Koper* and Paul J. Corbett*



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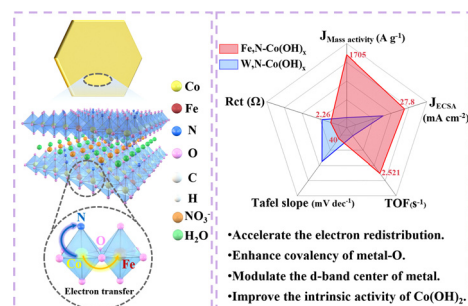
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A plasma-triggered N–Co–O–Fe motif in Co(OH)₂ for efficient electrocatalytic oxygen evolution

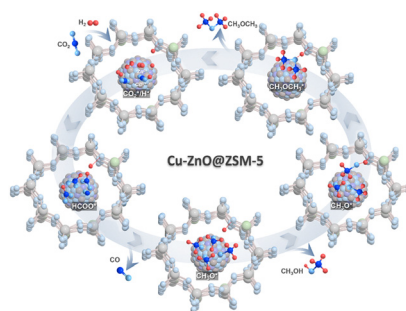
Qian Yang, Yaao Li, Yaoxin Wu, Yuxiang Li, Chenxia Yang, Lili Ban, Yunxia Zhao, Bin Dai, Gang Wang, Yongsheng Li, Jinli Zhang, Zongyuan Wang,* Huan Pang* and Feng Yu*



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Cu–ZnO nanoparticles encapsulated in ZSM-5 for selective conversion of carbon dioxide into oxygenates

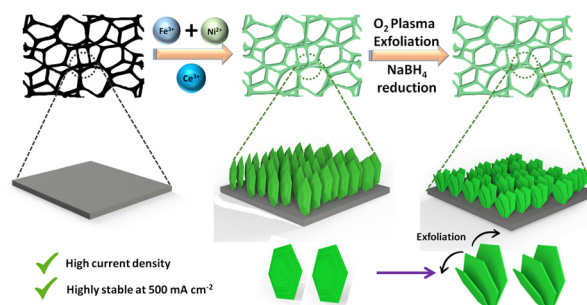
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Tailoring the electronic structure of an exfoliated layered double hydroxide using a lanthanide for chloride-ion blocking in seawater splitting

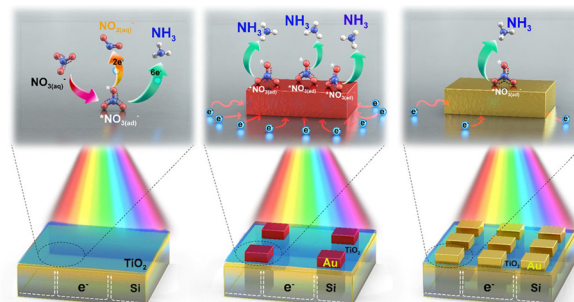
Ashish Gaur, Jiseok Kwon, Jatin Sharma, Ghulam Ali, Enkhuvshin Enkhbayar, Chan-Yeup Chung,* HyukSu Han* and Taeseup Song*



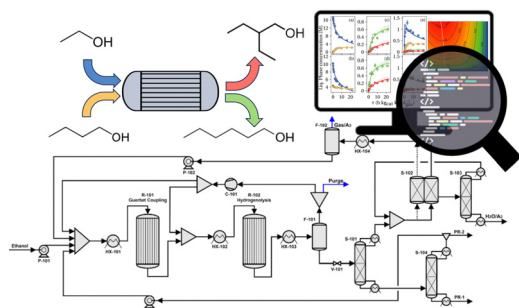
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High-performance and stable NH₃ production using a TiO₂-protected Si photocathode and patterned Au loading

Ahmad Tayyebi,* Jeong Juyeon, Mahsa Haddadi Moghaddam, Mohammad Zafari, Hyun-ju Go, Dukhyung Lee, Meysam Tayebi, Hwa-Young Yang, Changhwan Shin, Maria del Carmen Gimenez-Lopez, Geunsik Lee,* Dai Sik Kim* and Ji-Wook Jang*



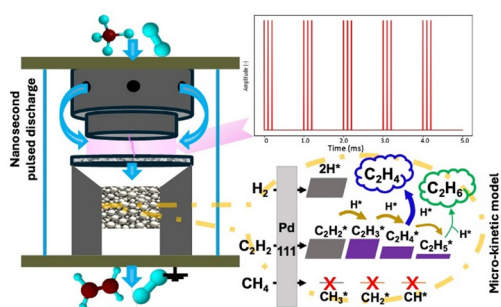
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Javier E. Chavarrio, Christoph Markowitsch, Erick Votava, Markus Lehner and George W. Huber*

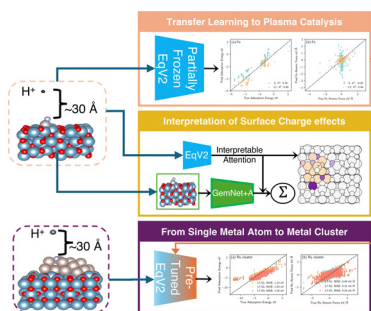
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Selective catalytic hydrogenation of C₂H₂ from plasma-driven CH₄ coupling without extra heat: mechanistic insights from micro-kinetic modelling and reactor performance

Eduardo Morais, Fabio Cameli, Georgios D. Stefanidis* and Annemie Bogaerts*

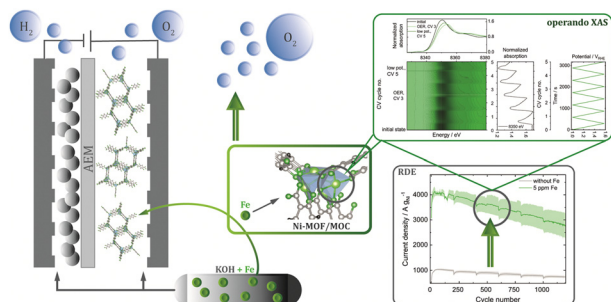
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Ketong Shao, Aditya Dilip Lele, Zhiyu Shi, Victor Von Miller, Yiguang Ju and Ali Mesbah*

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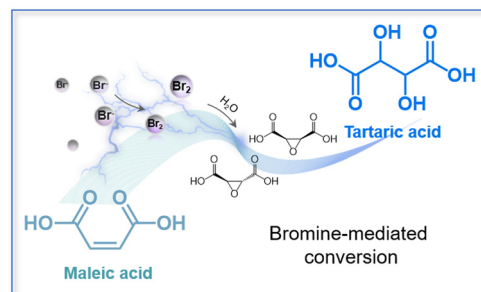


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Bromine-mediated electrochemical refinery towards tartaric acid

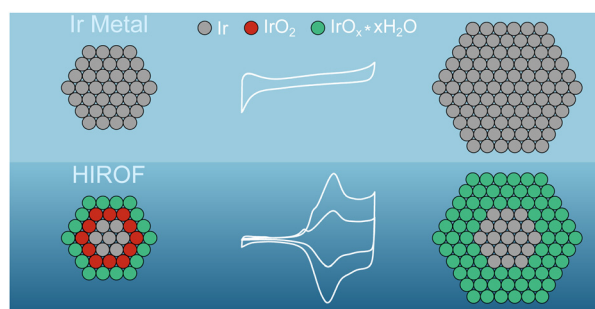
Chenglin Liang, Zhaoyu Wen, Yuchen Yan, Zhenghao Mao, Na Han* and Yanguang Li*



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On the growth and water oxidation stability of hydrous iridium oxide

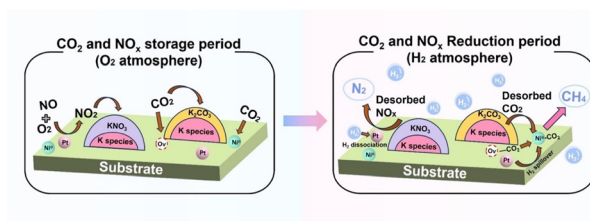
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CO₂/NO_x storage and reduction (CNSR) technology—a new concept for flue gas treatment

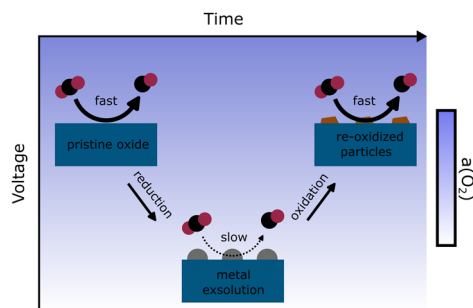
Jiaqi Wei, Yanshan Gao,* Cheng Zhang and Qiang Wang*



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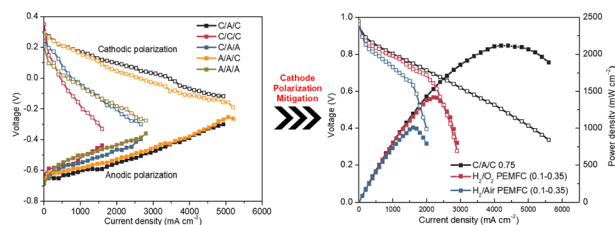
The dark side of metal exsolution: a combined *in situ* surface spectroscopic and electrochemical study on perovskite-type cathodes for high-temperature CO₂ electrolysis

Christian Melcher,* Andreas Nenning, Florian Schrenk, Kirsten Rath, Christoph Rameshan and Alexander Karl Opitz



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Above 2 W cm^{-2} direct liquid fuel cells enabled by mitigating cathode polarization

Yu Guo, Fukang Gui, Yangkai Han, Yingjian Cao, Zijun Hu, Yongkang Han, Qinggang Tan, Yong Che, Cunman Zhang, Yun Zhao* and Qiangfeng Xiao*

CORRECTION

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Correction: Single atom catalysts for water electrolysis: from catalyst-coated substrate to catalyst-coated membrane

Sol A Lee, Sang Eon Jun, Sun Hwa Park, Ki Chang Kwon, Jong Hun Kang,* Min Sang Kwon* and Ho Won Jang*

