

Energy & Environmental Science

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See Rishi Kaashyap Balaji and Fengqi You, pp. 6138–6156. Image reproduced by permission of Fengqi You from *Energy Environ. Sci.*, 2024, 17, 6138.



Inside cover

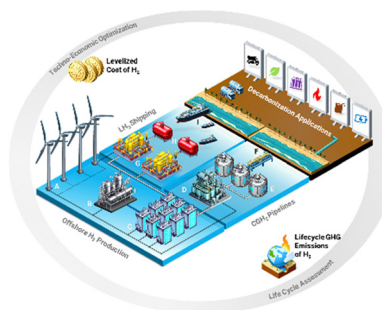
See Woong Hee Lee, Hyung-Suk Oh *et al.*, pp. 6215–6224. Image reproduced by permission of Hyung-Suk Oh from *Energy Environ. Sci.*, 2024, 17, 6215.

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Sailing towards sustainability: offshore wind's green hydrogen potential for decarbonization in coastal USA

Rishi Kaashyap Balaji and Fengqi You*

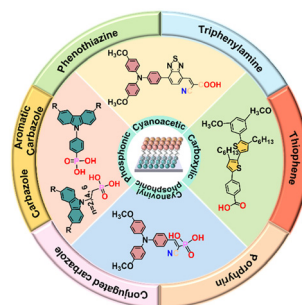


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Pros and cons of hole-selective self-assembled monolayers in inverted PSCs and TSCs: extensive case studies and data analysis

Chi Li, Yong Chen, Zilong Zhang, Chunming Liu, Fengming Guo, Waqas Ahmad and Peng Gao*



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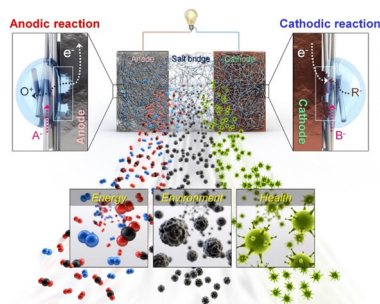


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Aeroelectrolyte for atmospheric open electrochemical cells

Yeji Lim, Yoon Jeong Yoo, Boran Kim, Suji Kim,
Ga Yoon Kim and Won-Hee Ryu*

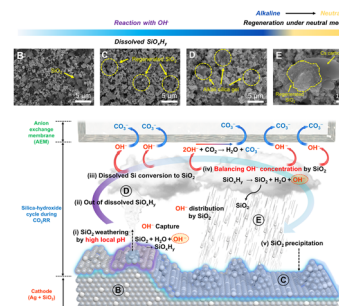


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Breaking the current limitation of electrochemical CO₂ reduction via a silica-hydroxide cycle

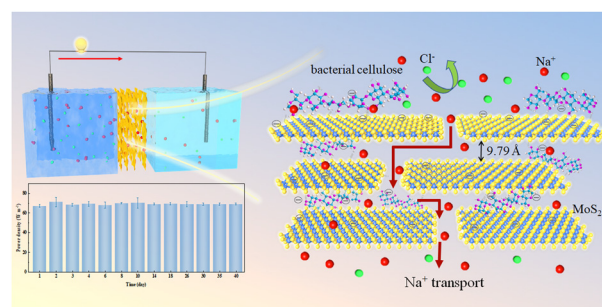
Chulwan Lim, Sangkuk Kim, Ji Hwan Song, Man Ho Han,
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Woong Hee Lee* and Hyung-Suk Oh*



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A subnano-confinement in robust MoS₂-based membranes for high-performance osmotic energy conversion

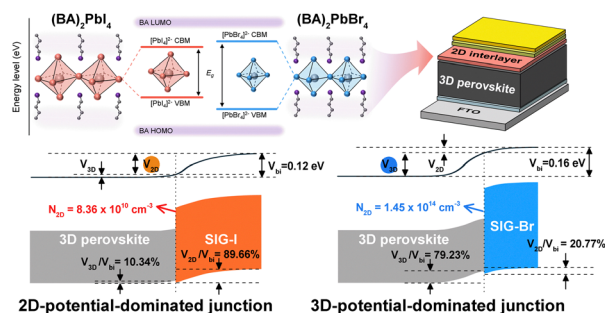
Xuying Wang, Zhaoyi Wang, Zhiwei Xue, Yiyi Fan,
Jing Yang, Qingxiao Zhang, Naitao Yang,* Xiuxia Meng,*
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Deciphering 2D perovskite's role in perovskite solar cells via intact 3D/2D junctions

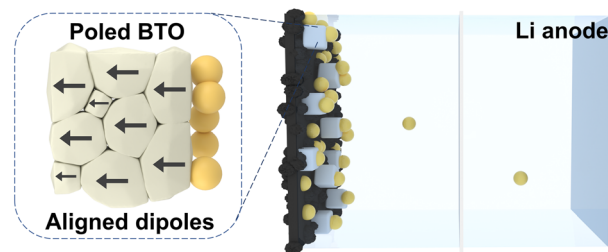
Seungmin Lee, Hyeonah Cho, Sohyun Kang, Oui Jin Oh,
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Enhanced polysulfide trapping in Li–S batteries by dipole alignment in ferroelectric BaTiO₃

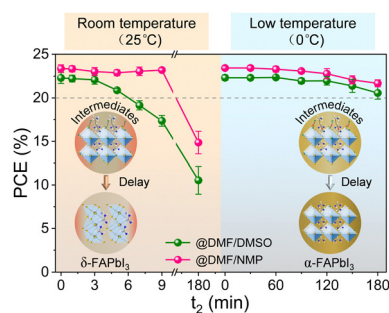
Jinglin Jiang, Jorge Ontaneda, Subhajit Pal, Zhenyu Guo, Chloe Forrester, Kaitian Zheng, Mengnan Wang, Joe Briscoe,* Maria-Magdalena Titirici* and Heather Au*



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Efficient perovskite solar modules with an ultra-long processing window enabled by cooling stabilized intermediate phases

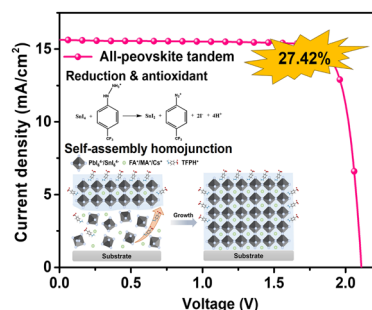
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Self-assembly construction of a homojunction of Sn–Pb perovskite using an antioxidant for all-perovskite tandem solar cells with improved efficiency and stability

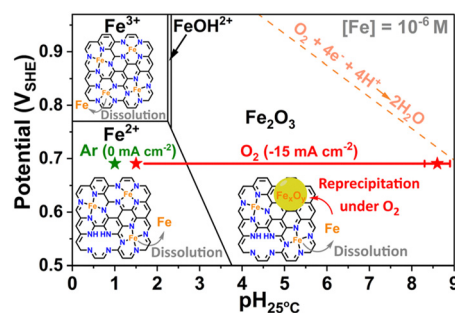
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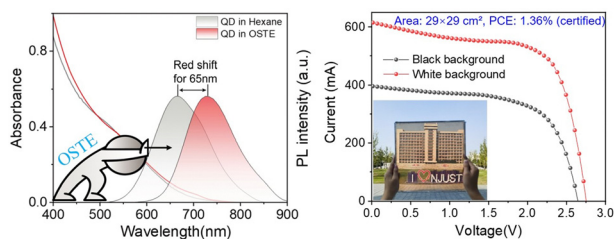
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Operando Fe dissolution in Fe–N–C electrocatalysts during acidic oxygen reduction: impact of local pH change

Angus Pedersen, Kavita Kumar, Yu-Ping Ku, Vincent Martin, Laetitia Dubau, Keyla Teixeira Santos, Jesús Barrio, Viktoriia A. Saveleva, Pieter Glatzel, Vinod K. Paidi, Xiaoyan Li, Andreas Hutzler, Maria-Magdalena Titirici, Antoine Bonfont, Serhiy Cherevko, Ifan E. L. Stephens* and Frédéric Maillard*



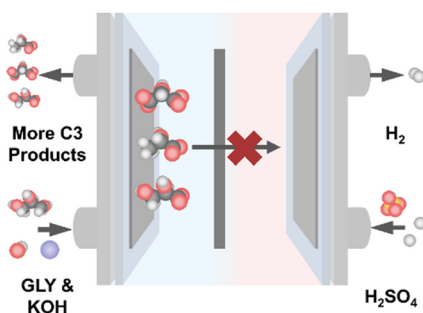
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Enlarging the Stokes shift of CuInS₂ quantum dots using thiol–ene polymers for efficient large-area luminescent solar concentrators

Yufan Wu, Jing Huang,* Jianyang Zang, Jingjian Zhou, Changhong Cheng, Zhuang Hu, Dan Shan, Wenxing Yang, Ilya Sychugov, Licheng Sun and Bo Xu*

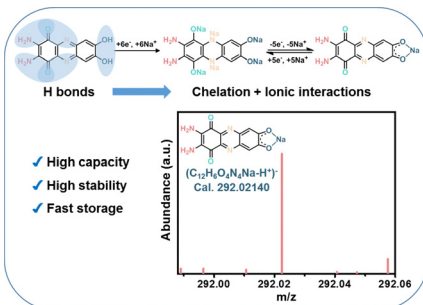
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Suppressing product crossover and C–C bond cleavage in a glycerol membrane electrode assembly reformer

Chencheng Dai, Qian Wu, Tianze Wu, Yuwei Zhang, Libo Sun, Xin Wang, Adrian C. Fisher and Zhichuan J. Xu*

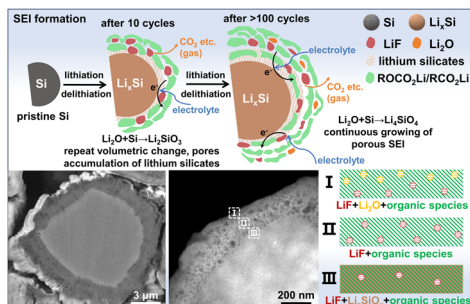
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Plentiful abutting functional groups boosting sodium storage in a small molecule

Chenyang Zhang, Cheng Fu, Haoyu Guo, Yuan Chen, Kun Fan, Zengyu Li, Jincheng Zou, Huichao Dai, Guoqun Zhang, Jing Ma* and Chengliang Wang*

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Interfacial degradation of silicon anodes in pouch cells

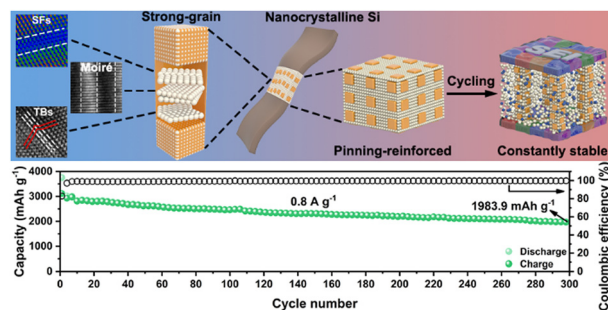
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Stable lithium storage with strong-grain sustained pinning-reinforced nanocrystalline silicon

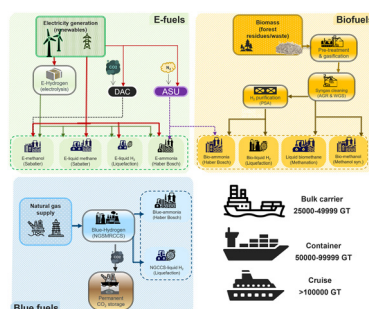
Tingjie Hu, Haochen Zhou, Jingjing Tang, Song Chen, Zhenxiao Li, Xia Yu, Yaguang Zhang, Juan Yang* and Xiangyang Zhou*



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Role of biofuels, electro-fuels, and blue fuels for shipping: environmental and economic life cycle considerations

Fayas Malik Kanchiralla,* Selma Brynolf and Alvar Mjelde



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Correction: Vacancy induced microstrain in high-entropy alloy film for sustainable hydrogen production under universal pH conditions

Yiyuan Yang, Zhe Jia,* Qianqian Wang, Yujing Liu, Ligang Sun,* Bo Sun, Juan Kuang, Shoujun Dai, Jianguo He, Sida Liu, Lunbo Duan, Hongjian Tang, Lai-Chang Zhang, Jamie J. Kruzic, Jian Lu and Baolong Shen*

