

Energy & Environmental Science

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IN THIS ISSUE

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Cover

See Mani Balamurugan, Aristides Bakandritsos, Sada Venkateswarlu, Rajenahally V. Jagadeesh, Radek Zboril et al., pp. 9632-9712. Image reproduced by permission of Radek Zboril from *Energy Environ. Sci.*, 2025, 18, 9632.



Inside cover

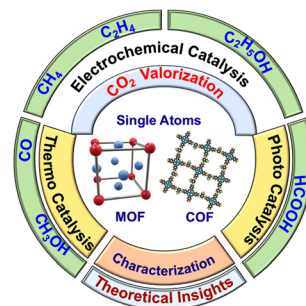
See Pengjian Zuo et al., pp. 9854-9864. Image reproduced by permission of Pengjian Zuo from *Energy Environ. Sci.*, 2025, 18, 9854.

REVIEWS

9632

Covalent organic and metal organic frameworks based single atom catalysts for valorisation of CO₂ to value added chemicals

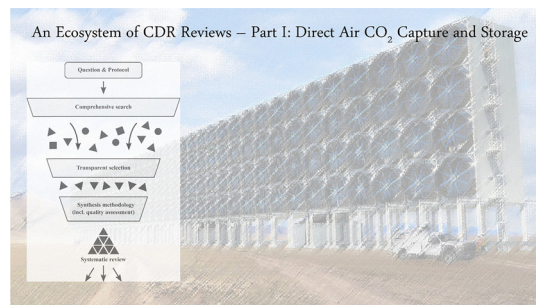
Sowjanya Vallem, Malayil Gopalan Sibi, Rahul Patil, Vishakha Goyal, A. Giridhar Babu, EA. Lohith, K. Keerthi, Muhammad Umer, N. V. V. Jyothi, Matthias Vandichel, Daniel Ioan Stroe, Subhasmita Ray, Mani Balamurugan,* Aristides Bakandritsos,* Sada Venkateswarlu,* Rajenahally V. Jagadeesh* and Radek Zboril*



9713

An ecosystem of carbon dioxide removal reviews – part 1: direct air CO₂ capture and storage

Mijndert van der Spek,* André Bardow, Chad M. Baum, Vittoria Bolongaro, Vincent Dufour-Décieux, Carla Esch, Livia Fritz, Susana Garcia, Christiane Hamann, Dianne Hondeborg, Ali Kiani, Sarah Lueck, Shrey Kalpeshkumar Patel, Shing Bo Peh, Maxwell Pisciotta, Peter Psarras, Tim Repke, Paola Alejandra Sáenz-Cavazos, Ingrid Schulte, David Shu, Qingdian Shu, Benjamin Sovacool, Jessica Strefler, Sara Vallejo Castaño, Jin-Yu Wang, Matthias Wessling, Jennifer Wilcox, John Young and Jan C. Minx*



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REVIEWS

9786

Sustainable propulsion and advanced energy-storage systems for net-zero aviation

Ningaraju Gejjiganahalli Ningappa,
Karthik Vishweswariah, Sabbir Ahmed,
Mohamed Djihad Bouguern,
M. R. Anil Kumar and Karim Zaghib*

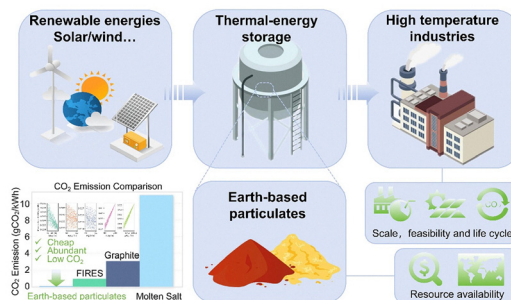


PERSPECTIVE

9839

Industrial decarbonization potential of earth-based particulate high-temperature thermal energy storage

Kewei Xu, Xiaokang Chen, Peng Peng,* Lin Yang,
Libin Tian, Yushuai Huang, Yun Huang, Yulong Ding and
Qingshan Zhu*

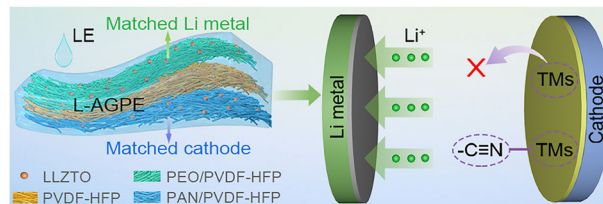


PAPERS

9854

An asymmetric functional gel polymer electrolyte enables superior interfacial compatibility for wide temperature lithium metal batteries

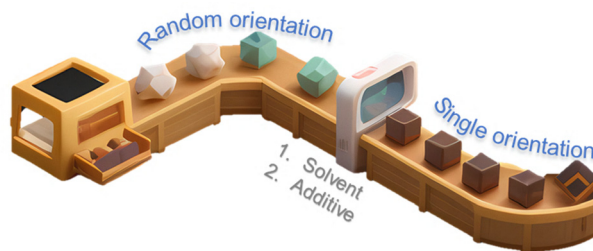
Haixia Yang, Jiaxin Yan, Shuyang Gao, Xin Chen,
Yuanheng Wang, Hua Huo, Chuankai Fu, Chunyu Du and
Pengjian Zuo*



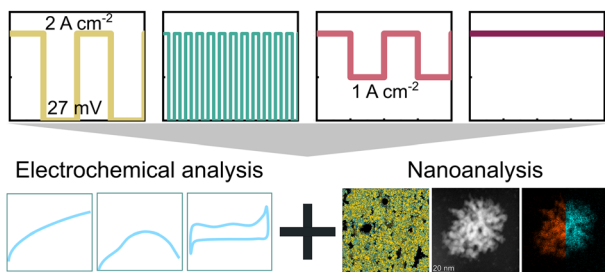
9865

Solvent-additive cascade engineering enables single-oriented perovskite films with facet-driven performance and stability

Bo Zhou, Pei Zhao, Junxue Guo, Shuaifeng Hu, Xin Guo,
Jiewei Liu* and Can Li*



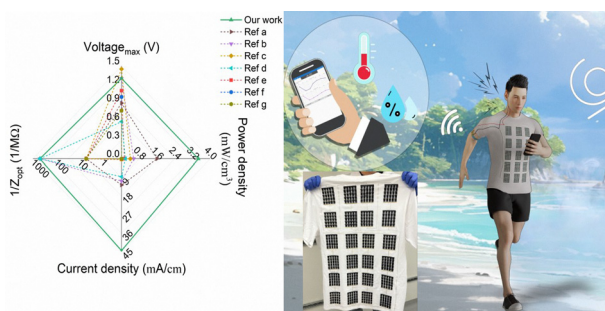
9877



Degradation phenomena in PEMWE revealed by correlative electrochemical and nanostructure analysis

Selina Finger,* Birk Fritsch, Mingjian Wu, Leopold Lahn, Darius Hoffmeister, Johannes Will, Olga Kasian, Erdmann Spiecker, Simon Thiele, Anna T.S. Freiberg* and Andreas Hutzler*

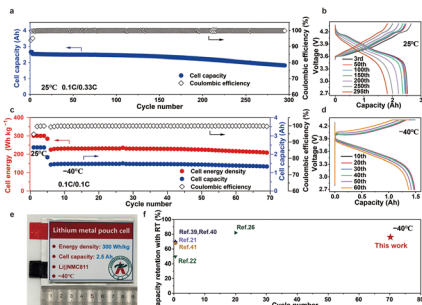
9895



An MXene-based high-power hybrid moisture electric generator for textile integration

Bowen Wang, Mingjie Zhao, Cheng Li, Wenkai Yang, Ziyu Chen, Mingyuan Gao, Asim Riaz and Yuerui Lu*

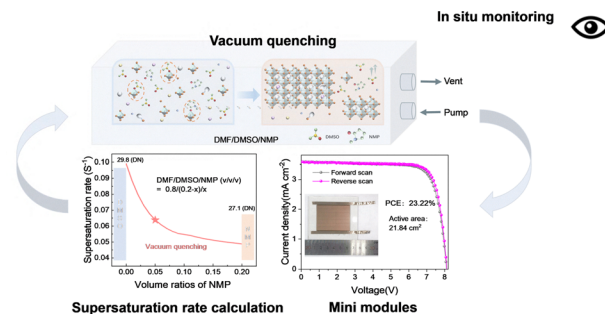
9907



A competitive coordination effect to simultaneously achieve high-energy and stable cycles in a Li-metal pouch cell at -40°C

Xingxing Meng, Xiao Zhang,* Litong Shi, Zhe Chen, Jiashen Meng, Feixiang Ding, Xiong Liu, Baokang Zhang, Qian Wang, Liqiang Mai and Chaojiang Niu*

9917



Balancing the supersaturation rate and coordination capability for upscaling high-performance perovskite photovoltaics

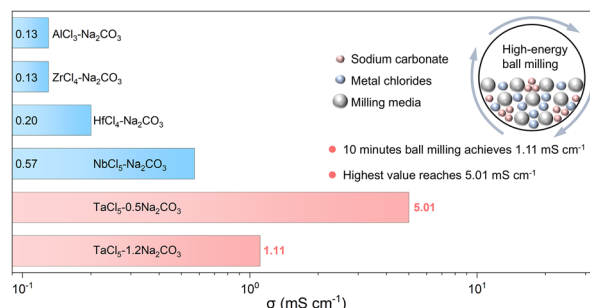
Wenjun Peng, Jianan Wei, Hongbing Li, Wei Feng, Mengting Liu, Tianyang Xu, Shudi Qiu,* Chong Liu, Michael Wagner, Andreas Distler, Christoph J. Brabec,* Yaohua Mai* and Fei Guo*



9927

A new class of carbonate–oxychloride solid electrolytes for high-performance sodium-ion all-solid-state batteries

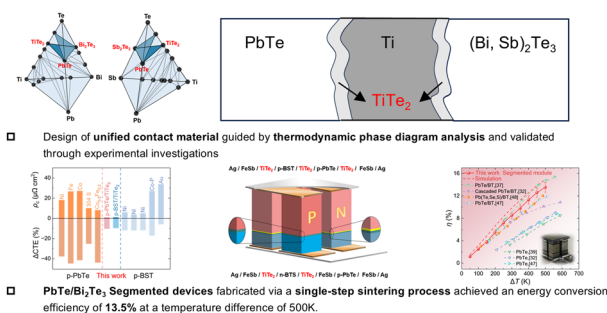
Xinmiao Wang, Simeng Zhang, Junyi Yue, Xingyu Wang, Yang Xu, Yue Gong, Liyu Zhou, Changtai Zhao, Jianwen Liang,* Xiangzhen Zhu, Han Wu, Xiaolong Yan, Biwei Xiao, Meng Li, Chenxiang Li, Shuo Wang, Xueliang Sun* and Xiaona Li*



9939

Unified contact layer design for highly efficient segmented PbTe/Bi₂Te₃ thermoelectric devices

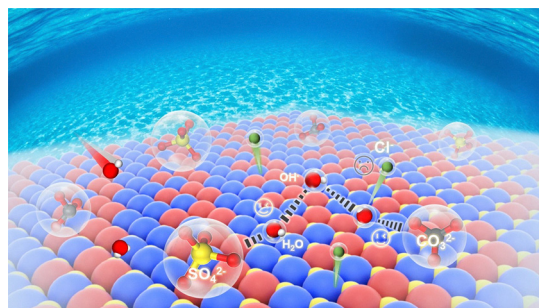
Linmao Wen, Li Yin, Xiaofang Li, Shanghao Chen, Tianyu Zhang, Jinxuan Cheng, Baopeng Ma, Yunzi Ren, Liming Xiao, Jun Mao,* Feng Cao* and Qian Zhang*



9949

A hydrogen-bond network sieve enables selective OH⁻/Cl⁻ discrimination for stable seawater splitting at 2.0 A cm⁻²

Yang Yu, Wei Zhou,* Junshu Yuan, Xiaohan Zhou, Xiaoxiao Meng, Xuwei Zhang, Xuhan Li, Naiyuan Xue, Yingjian Chen, Xiao Xia, Mengyao Gu, Juan Chen, Xingxing Wang, Fei Sun, Jihui Gao and Guangbo Zhao



9959

A framework for ground-up life cycle assessment of novel, carbon-storing building materials

Seth Kane,* Baishakhi Bose, Thomas P. Hendrickson, Jin Fan, Sarah L. Nordahl, Corinne D. Scown and Sabbie A. Miller

