

# Energy Advances

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## IN THIS ISSUE

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### Cover

See Ryohei Mori, pp. 1321–1336. Image reproduced by permission of Ryohei Mori from *Energy Adv.*, 2025, 4, 1321.



### Inside cover

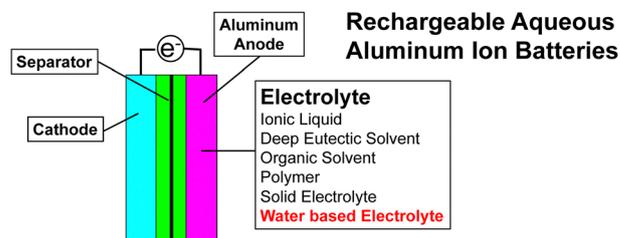
See Eric McCalla *et al.*, pp. 1337–1344. Image reproduced by permission of Eric McCalla, Jean-Danick Lavertu and Elliot Zolfaghar from *Energy Adv.*, 2025, 4, 1337.

## REVIEW

1321

### Aqueous rechargeable aluminum battery – a mini review

Ryohei Mori

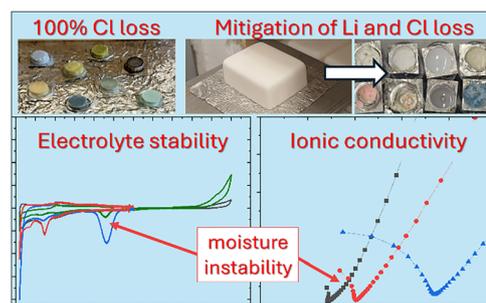


## PAPERS

1337

### High-throughput methods to design deformable recrystallized boracite solid electrolytes: challenges and solutions

Jean-Danick Lavertu, Sibyl Martasek, Sara Reardon, Shipeng Jia, Antranik Jonderian, Giyun Kwon, Youngjoon Bae and Eric McCalla\*



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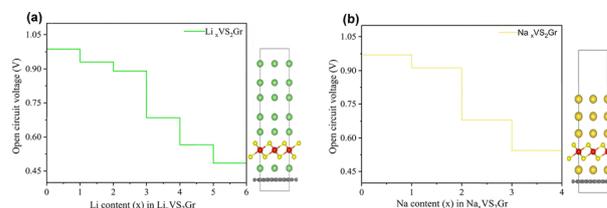
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Fundamental questions  
Elemental answers

1345

### First-principles calculation of a 1T-VS<sub>2</sub>/graphene composite as a high-performance anode material for lithium- and sodium-ion batteries

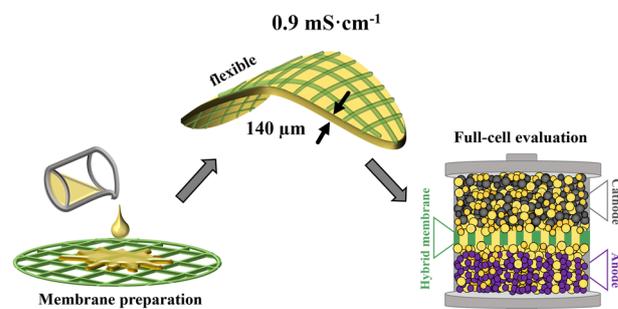
Ahmed Jaber Hassan, Kar Tim Chan,\* Kean Pah Lim, Nurisya Mohd Shah, Umair Abdul Halim, Nurfarhana Mohd Noor and Wan Mohammad Zulkarnain Abdul Razak



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### Attaining a fast-conducting, hybrid solid state separator for all solid-state batteries through a facile wet infiltration method

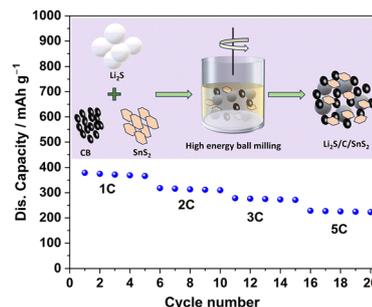
Philip Heuer, Lukas Ketter, Moumita Rana, Felix Scharf, Gunther Brunklaus and Wolfgang G. Zeier\*



1363

### Li<sub>2</sub>S/C/SnS<sub>2</sub> composite-based cathode materials for lithium-sulfur batteries

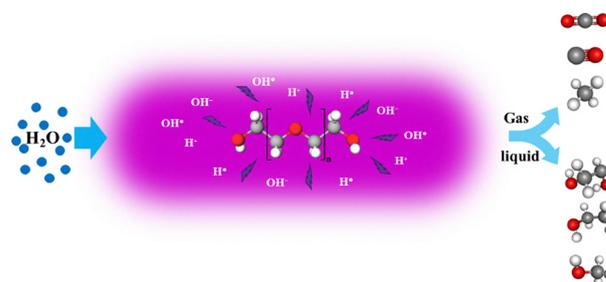
Irshad Mohammad,\* Akzhan Bekzhanov, Yuri Surace and Damian Cupid



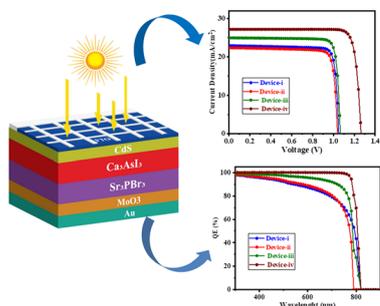
1375

### The hydrolysis properties of polyethylene glycol under ambient nonthermal plasma conditions

Parsa Pishva, Abdol Hadi Mekarizadeh, Rongxuan Xie, Jinyao Tang, Xiaochen Shen, Yanlin Zhu, Mesfin Tsige\* and Zhenmeng Peng\*



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### Next-generation dual absorber solar cell design with $\text{Ca}_3\text{AsI}_3$ and $\text{Sr}_3\text{PBr}_3$ perovskites and $\text{MoO}_3$ HTL achieves superior efficiency above 29%

Sahjahan Islam, Jannati Islam Chy, Dipika Das Ria, Abu Bakkar, Md. Faruk Hossain, Ahmad Irfan, Aijaz Rasool Chaudhry and Md. Ferdous Rahman\*

## CORRECTION

1401

### Correction: Water-in-salt hydrogel electrolyte for dendrite-free Zn deposition

Varsha Joseph, Nara Kim, Sae Young Lee, Reverant Crispin, Tae Hyun Park\* and Ziyauddin Khan\*

