

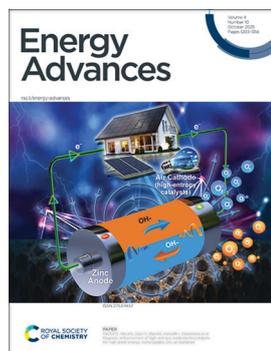
# Energy Advances

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## IN THIS ISSUE

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### Cover

See Héctor D. Abruña, Dean H. Barrett, Kenneth I. Ozoemena *et al.*, pp. 1229–1240. Image reproduced by permission of Kenneth I. Ozoemena and co-workers from *Energy Adv.*, 2025, 4, 1229.



### Inside cover

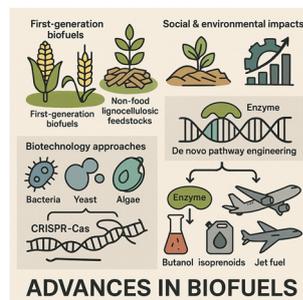
See Wolfgang Schöfberger *et al.*, pp. 1241–1250. Image reproduced by permission of Wolfgang Schöfberger from *Energy Adv.*, 2025, 4, 1241.

## REVIEW

1209

### Synthetic biology and metabolic engineering paving the way for sustainable next-gen biofuels: a comprehensive review

Jiten Yadav,\* Harnet Marwah and Chandra Kumar\*

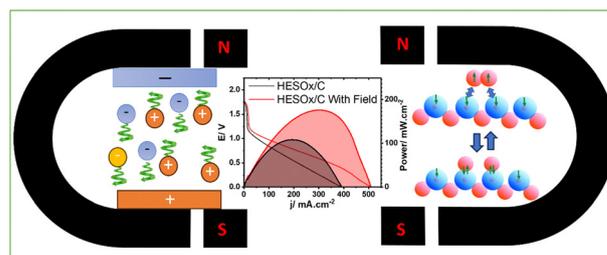


## PAPERS

1229

### Magnetic enhancement of high-entropy oxide electrocatalysts for high areal-energy rechargeable zinc air batteries

Ernst H. Hechter, Aderemi B. Haruna, Xiao-Yu Yang, Maxwell W. Terban, Héctor D. Abruña,\* Dean H. Barrett\* and Kenneth I. Ozoemena\*



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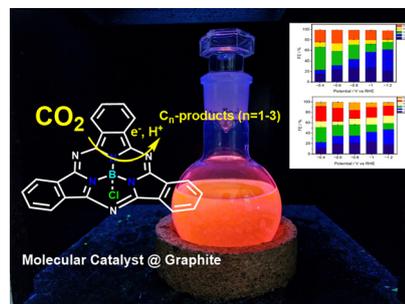
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1241

## Boron subphthalocyanine complexes for CO<sub>2</sub> electroreduction: molecular design and catalytic insights

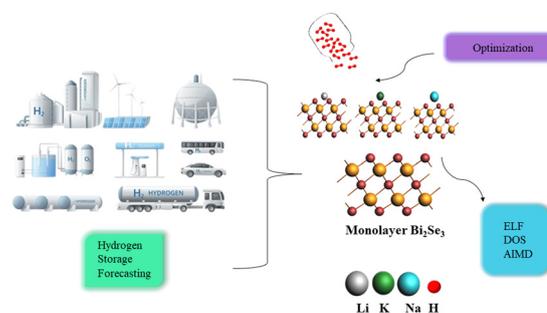
Farzaneh Yari, Simon Offenthaler, Sankit Vala, Dominik Krisch, Markus Scharber and Wolfgang Schöfberger\*



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## First principles study of alkali metal-decorated bismuth selenide for hydrogen storage applications

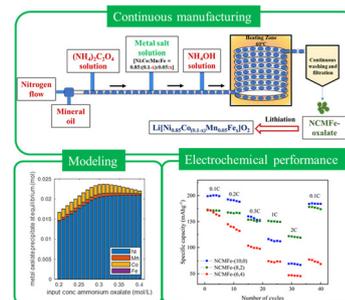
Asma Kiran, Saleh S. Alarfaji, Muhammad Bilal Tahir and Muhammad Isa Khan\*



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## Slug-flow-based continuous manufacturing of Fe-substituted Ni-rich NCM cathodes for lithium-ion batteries: synthesis and modeling

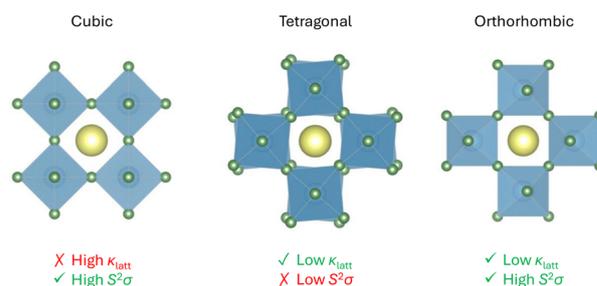
Arjun Patel, Michael L. Rasche, Sourav Mallick, Sunuk Kim, Mo Jiang, Mariappan Parans Paranthaman, Herman Lopez and Ram B. Gupta\*

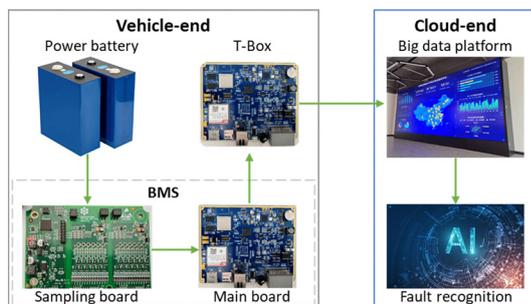


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## Impact of crystal structure on the thermoelectric properties of n-type SrTiO<sub>3</sub>

Alveena Z. Khan, Joseph M. Flitcroft and Jonathan M. Skelton\*





## A sampling fault diagnosis method for power battery data in cloud platforms based on a ResNet–BiLSTM neural network

Yuntao Jin, Zhengjie Zhang,\* Baitong Chang, Rui Cao, Hanqing Yu, Yefan Sun, Xinhua Liu and Shichun Yang

