Open Access Article. Published on 12 June 2025. Downloaded on 1/18/2026 8:05:20 PM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

Energy Advances

rsc.li/energy-advances

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

IN THIS ISSUE

ISSN 2753–1457 CODEN EANDBJ 4(6) 711–812 (2025)

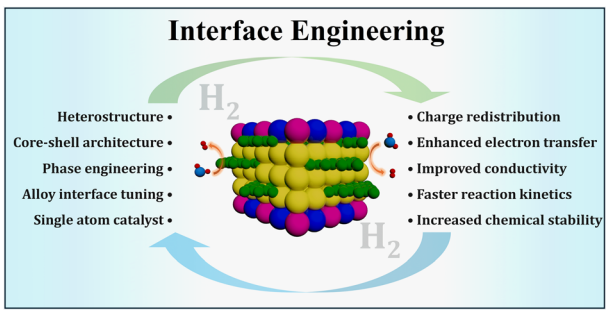
Cover
See Seunghyun Lee *et al.*, pp. 716–742. Image reproduced by permission of Manjinder Singh and Seunghyun Lee from *Energy Adv.*, 2025, **4**, 716.

REVIEWS

716

Interface engineering strategies for enhanced electrocatalytic hydrogen evolution reaction

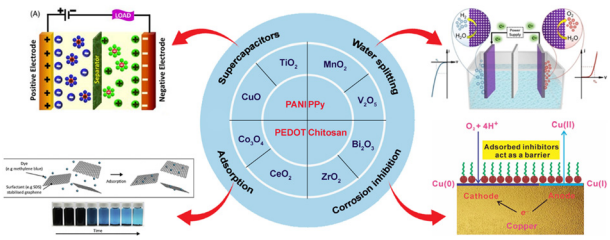
Manjinder Singh, Dasu Ram Paudel, Hayoung Kim, Tae Hyeong Kim, Jaejun Park and Seunghyun Lee*



743

Composite revolution: unleashing the potential of polymers in sustainable energy and environmental applications

Arun Varghese, Kalathiparambil Rajendra Pai Sunajadevi* and Dephan Pinheiro



ROYAL SOCIETY OF CHEMISTRY

Royal Society of Chemistry approved training courses

Explore your options.
Develop your skills.
Discover learning that suits you.

Courses in the classroom, the lab, or online

Find something for every stage of your professional development. Search our database by:

- subject area
- location
- event type
- skill level

Members **get at least 10% off**

Visit **rsc.li/cpd-training**

SAVE 10%

Registered charity number: 207890

Open Access Article. Published on 12 June 2025. Downloaded on 1/18/2026 8:05:20 PM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

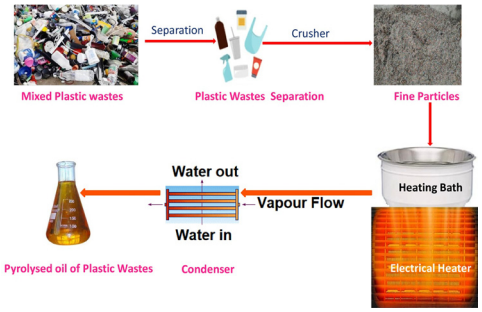
Open Access Article. Published on 12 June 2025. Downloaded on 1/18/2026 8:05:20 PM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

PAPERS

763

Towards green mobility: investigating hydrogen-enriched waste plastic biodiesel blends with *n*-butanol for sustainable diesel engine applications

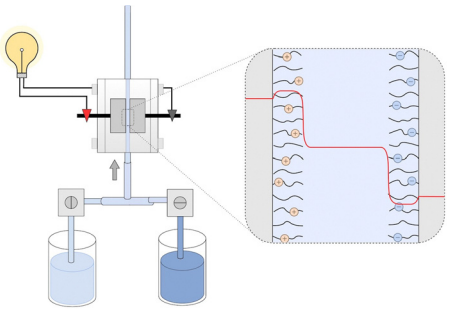
Ganesan S.,* Thiruselvam K., Jayavelu S. and Sravanth Chandaka



776

Soft carbon electrodes in capacitive energy extraction: exploring geometry and operational parameters in capacitive mixing systems

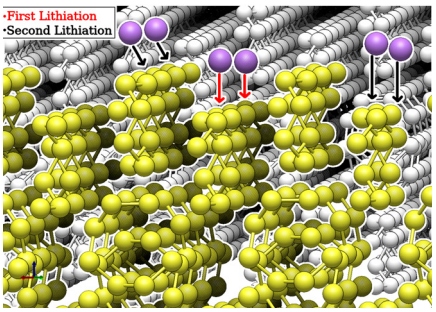
Ana Collazo-Castiñeira, Sergio Orozco-Barrera, Guillermo R. Iglesias, Ángel V. Delgado and Silvia Ahualli*



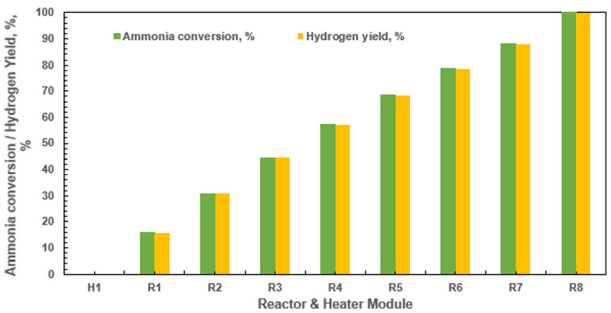
788

Lithiation mechanism of sulfur surfaces during discharge of Li–S batteries from quantum chemical calculations

Jonas Lührs, Daniel Sebastiani and Pouya Partovi-Azar*



796

Novel onboard ammonia cracker for light-duty automotive fuel cell vehicles

Chidozie Eluwah and Paul S. Fennell