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Energy Advances

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See Fan Shi, Ping Wang *et al.*, pp. 330–363. Image reproduced by permission of National Energy Technology Laboratory from *Energy Adv.*, 2025, **4**, 330.

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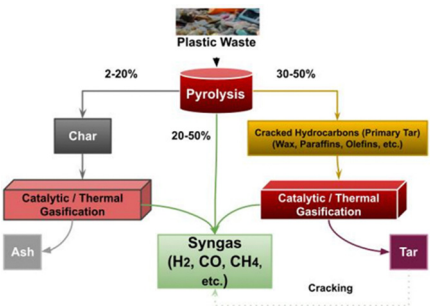
Plastic waste gasification for low-carbon hydrogen production: a comprehensive review

Muhammad Aamir Bashir, Tuo Ji, Jennifer Weidman, Yee Soong, McMahan Gray, Fan Shi* and Ping Wang*



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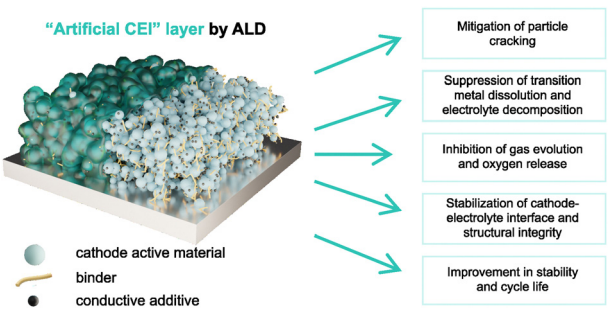
Impact of powder and electrode ALD coatings on the performance of intercalation cathodes for lithium–ion batteries

Princess Stephanie Llanos, Alisa R. Bogdanova, Filipp Obrezkov, Nastaran Farrahi and Tanja Kallio*



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COMMUNICATIONS

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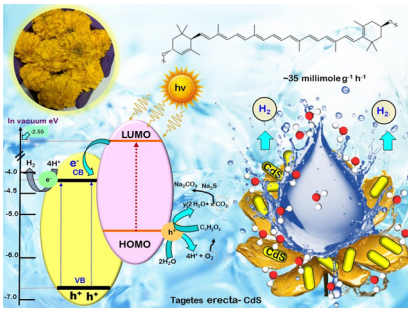
Contribution of organic carotenoid and carbonaceous biomass of *Tagetes erecta* flowers for enhanced solar hydrogen generation

Sayantanu Mandal, Pawan Kumar and Kajari Kargupta*



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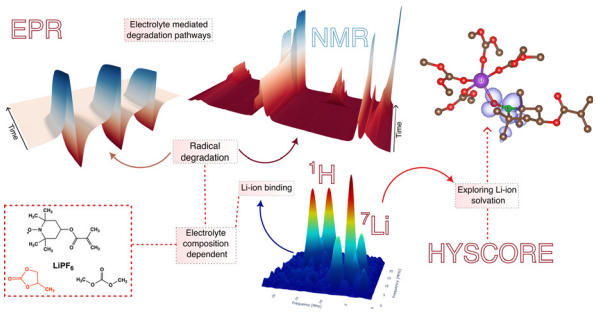
Electrolyte composition dependent Li-ion binding and degradation of organic radical battery material

Davis Thomas Daniel,* Emmanouil Veroutis, P. Philipp M. Schleker, Rüdiger-A. Eichel and Josef Granwehr



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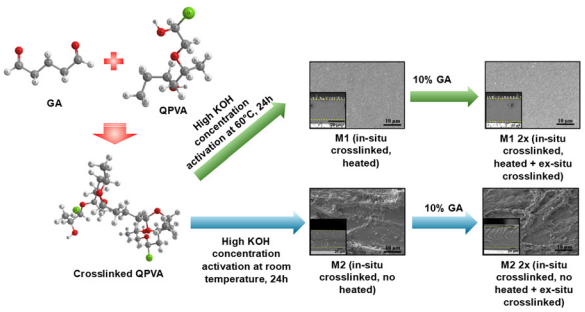
The impact of double crosslinking and alkaline activation strategies on the multifaceted characteristics of quaternized poly(vinyl alcohol) anion exchange membranes

Wei Keat Ng, Chun Yik Wong, Nur Adiera Hanna Rosli, Kiranraj Vaiyanan Kannan, Kee Shyuan Loh, Bee Lin Chua and Wai Yin Wong*



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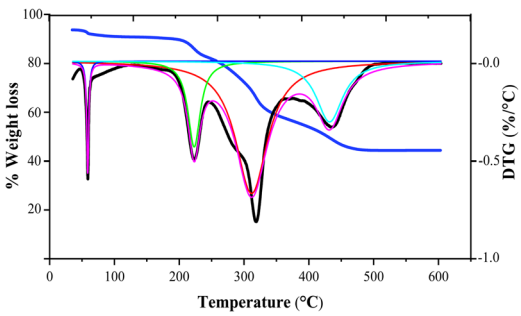
Pyrolysis of sweet lemon (*Citrus limetta*) waste: effect of zeolite β, ammonium on kinetics and bio-oil yield

Faisal Muhammad, Jan Nisar,* Ghulam Ali, Farooq Anwar,* Wan Azlina Wan Abdul Karim Ghani, Ahsan Sharif and Ejaz Ahmed



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PAPERS

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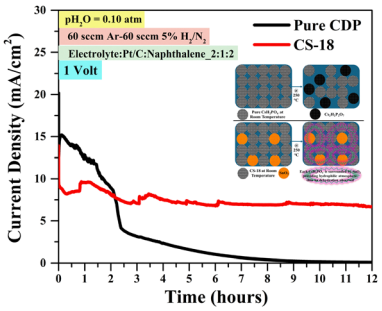

SnO_2 modified CsH_2PO_4 (CDP) protonic electrolyte for an electrochemical hydrogen pump

Minal Gupta, Kangkang Zhang and Kevin Huang*

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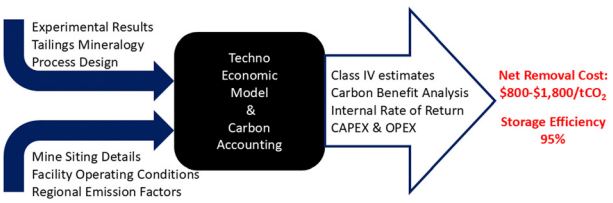

Techno-economic analysis of indirect carbonation processes for carbon sequestration using mining waste

Katherine Vaz Gomes,* Caleb M. Woodall, Hélène Pilorgé, Peter Psarras and Jennifer Wilcox

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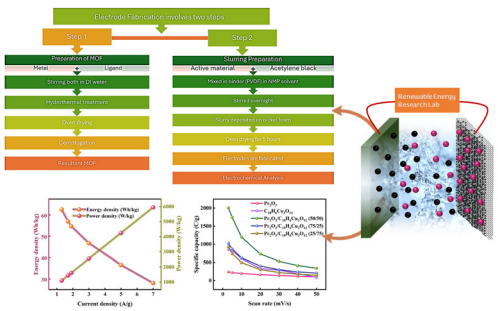

Evaluating the potential of $Pr_2O_3/C_{18}H_6Cu_3O_{12}$ composites as positrodes with sustainable energy-power density for battery-supercapacitor hybrids

Muhammad Zahir Iqbal,* Ayesha Zakir, Syed Johar Ali Shah, Ghulam Dastageer, Khalid Mujasam Batoo and Muhammad Farzik Ijaz

CORRECTIONS

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Correction: Additive manufacturing of highly conductive carbon nanotube architectures towards 3D-printed carbon-based flexible thermoelectric generators

Christos K. Mytafides,* William J. Wright, Raden Gustinvil, Lazaros Tzounis, George Karalis, Alkiviadis S. Paipetis and Emrah Celik*

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CORRECTIONS

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Correction: Evaluation of redox pairs for low-grade heat energy harvesting with a thermally regenerative cycle

José Tomás Bórquez Maldifassi, Joseph B. Russell, Jungmyung Kim, Edward Brightman, Xiangjie Chen and Dowon Bae*

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