

Sustainable Energy & Fuels

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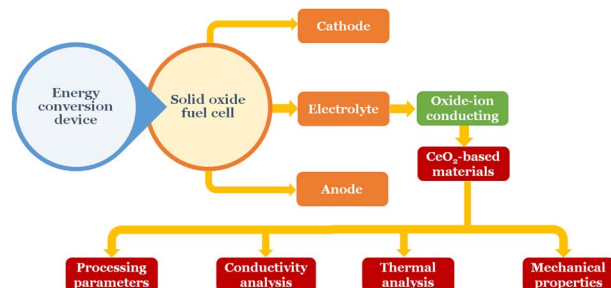
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REVIEW

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Cerium oxide-based electrolytes for low- and intermediate-temperature solid oxide fuel cells: state of the art, challenges and future prospects

Paramvir Kaur and K. Singh*

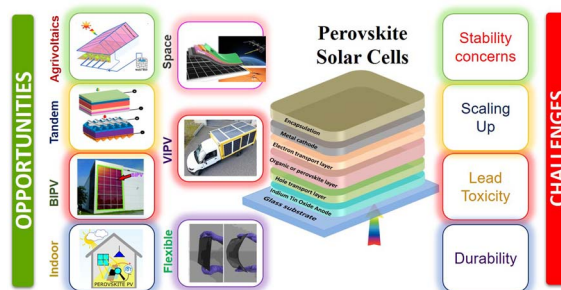


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Commercialization of perovskite solar cells: opportunities and challenges

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Fundamental questions
Elemental answers

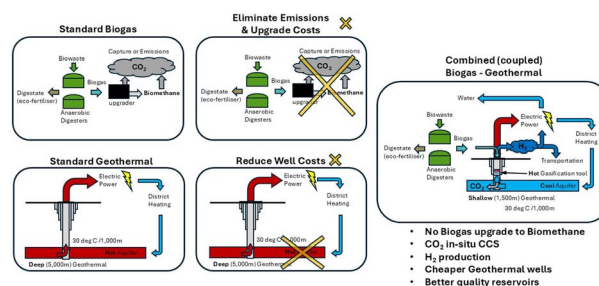


PERSPECTIVES

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A geothermal energy techno-economic analysis for downhole wellbore hydrogen production from biogas with subsurface carbon retention

S. Gillick* and M. Babaei*

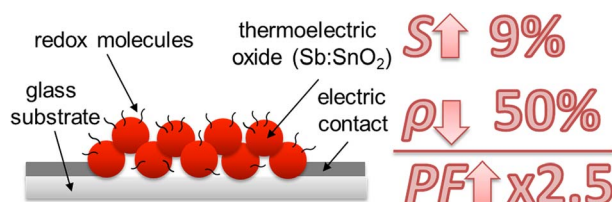


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Remarkable power factor improvement in a porous, nanostructured thermoelectric oxide functionalized with viologen molecules

M. M. Rahman, L. Márquez-García, M. Solis-de la Fuente and J. García-Cañadas*

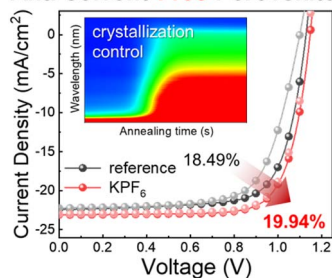


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Crystallization control of antisolvent-free perovskite films using alkali metal additives for improving efficiency and extending applicability of perovskite solar cells

Min Jun Choi, Veera Murugan Arivunithi, So Jeong Shin, Gyeong G. Jeon, Hye W. Chun, Inho Bae, Dong Won Kim* and Jong H. Kim*

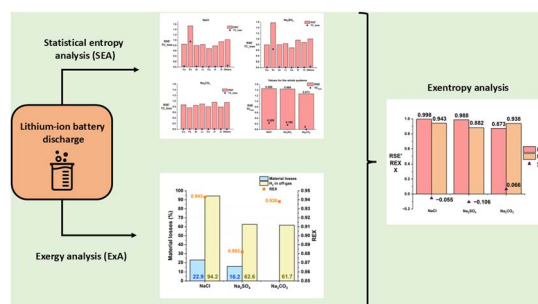
Anti-solvent Free Perovskite



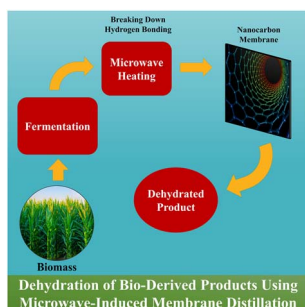
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A process simulation study on the impact of electrochemical discharge on the circularity of lithium-ion batteries using new multi-dimensional indicators

Minerva Vierunketo, Anna Klemettinen, Annukka Santasalo-Aarnio and Rodrigo Serna-Guerrero*



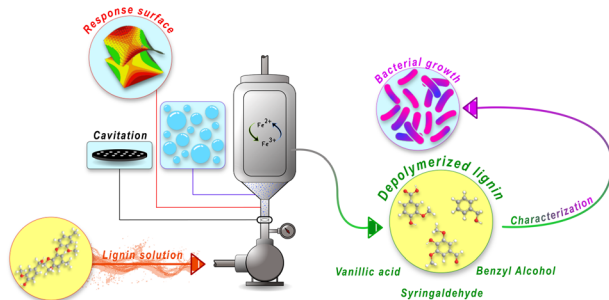
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Dehydration of highly viscous polyol (1,2,4-butanetriol) using microwave-induced sweep gas membrane distillation (MIMD) on nanocarbon-immobilized membranes

Mitun Chandra Bhoumick, Benjamin G. Harvey, Derek D. Zhang and Somenath Mitra*

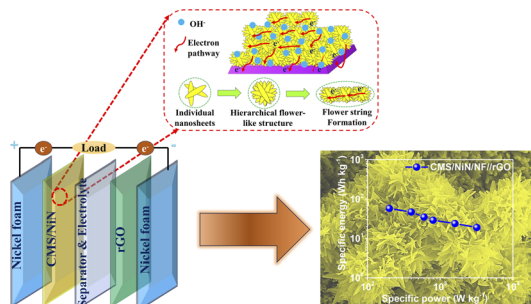
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Kraft lignin depolymerization by the Fenton process assisted by hydrodynamic cavitation

Lucas Ramos, Giovani Maltempi-Mendes, Julio C. Santos and Anuj Kumar Chandel*

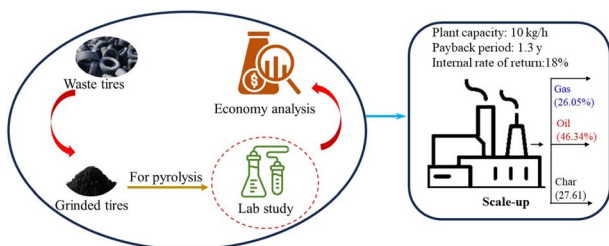
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Elucidating the synergistic benefits of the ternary metal components in a cobalt–molybdenum hybrid sulfide–nickel nitride composite as supercapacitor electrodes

Shalakra Saha, Chandra Shekhar Sharma,* Nishar Hameed and Nisa Salim

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An integrated approach to waste tire pyrolysis for value-added products: process optimization and a comprehensive economic study for scalability

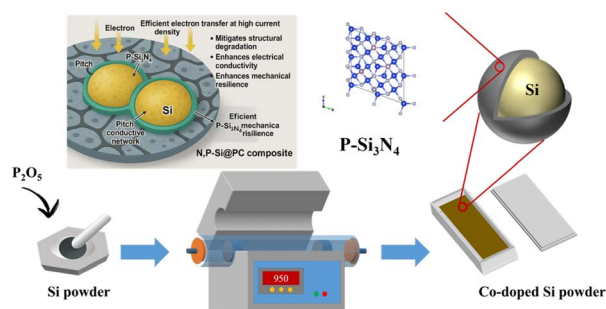
Uma Sankar Behera, Sourav Poddar* and Hun-Soo Byun*



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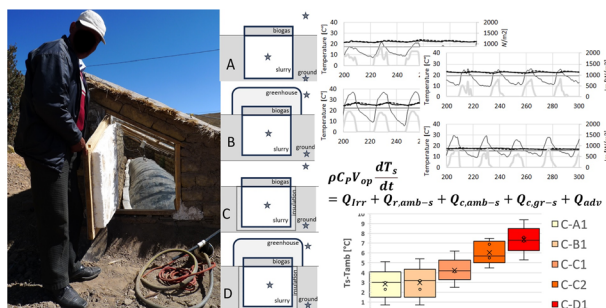
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Juan Jaramillo, Liliana Castro, Humberto Escalante and Jaime Martí-Herrero*



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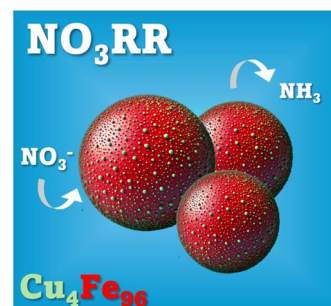
Keqi Wu, Chengliang Fan, Minfeng Tang, Hongyu Chen, Yajia Pan, Dabing Luo and Zutao Zhang*



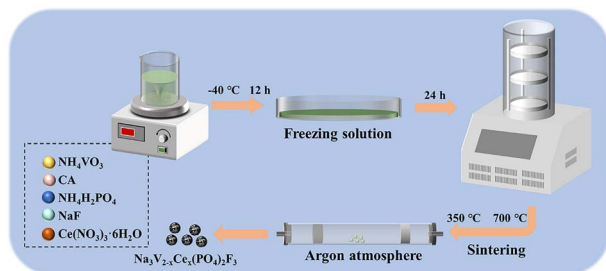
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Nitrate reduction to ammonia using Cu-Fe nanoparticles

Ido Dan, Paz Stein, Dyuti Bandyopadhyay, Yan Tetarevsky, Alevtina Neyman, Shir Abramovich, Rotem Geva and Maya Bar Sadan*



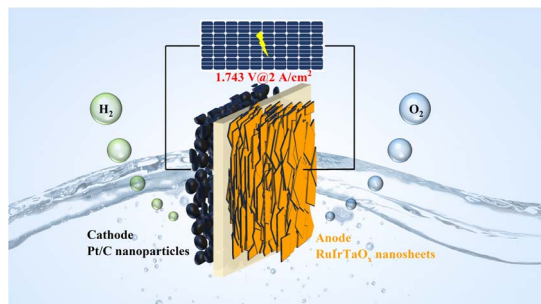
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Ce-doped $\text{Na}_3\text{V}_{1.9}\text{Ce}_{0.1}(\text{PO}_4)_2\text{F}_3$ as a cathode material for high-performance sodium-ion batteries

Ruihan Guan, Xianguang Zeng,* Xuesong Zhou, Yingyou Hu, Chengyan Wen, Dan Zhang, Lu Zeng and Yong Gong

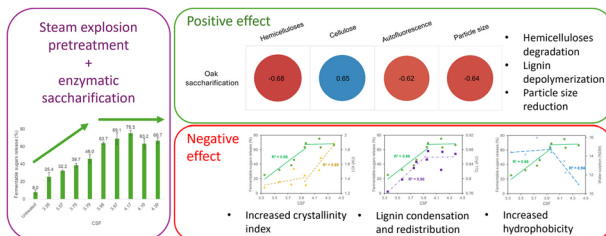
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Electronic structure regulation of RuIrTaO_x induces highly efficient acidic OER

Wenou Bai,* Ailing Yan, Yucan Dong, Jingai Wang, Bo Jia* and Qing Feng

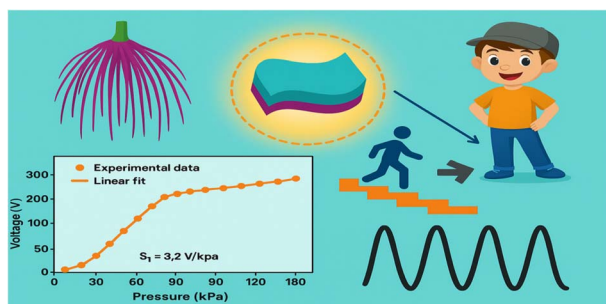
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Understanding how physicochemical features from steam exploded wood affect enzymatic saccharification efficiency for bioethanol production

Edwige Audibert, Adriana Quintero, Frédéric Martel, Gabriel Paës* and Caroline Rémond*

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A biowaste material-based low-cost environment-friendly triboelectric nanogenerator for self-powered sensing application

Sayed Muksedul Haque Pias, Md. Nurnabi, Rahat Hossain, Md. Monjarul Alam, Kamaruzzaman and S M Sohel Rana*

