

Sustainable Energy & Fuels

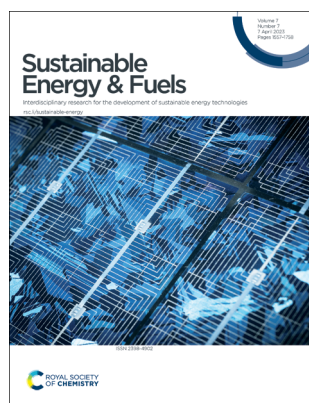
Interdisciplinary research for the development of sustainable energy technologies

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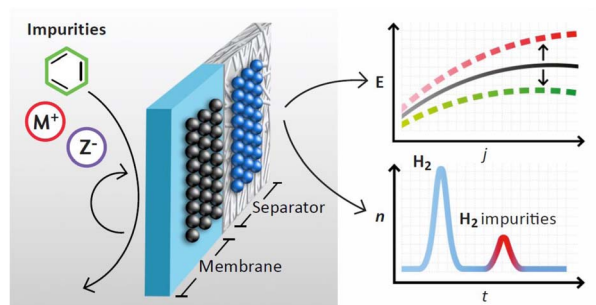
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REVIEWS

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Impact of impurities on water electrolysis: a review

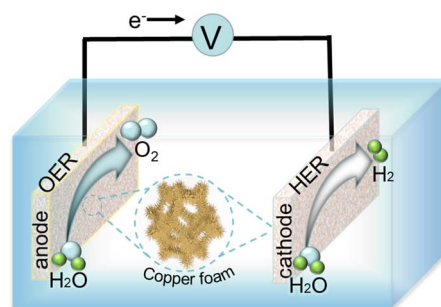
Hans Becker, James Murawski, Dipak V. Shinde, Ifan E. L. Stephens,* Gareth Hinds and Graham Smith*



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Development of copper foam-based composite catalysts for electrolysis of water and beyond

Jiaming Wang, Yuting Hu, Feiyu Wang, Yatao Yan,* Yang Chen, Mengting Shao, Qianhui Wu,* Shoupu Zhu,* Guowang Diao and Ming Chen*



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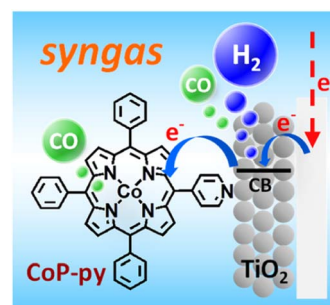


COMMUNICATION

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Efficient syngas production with controllable CO : H₂ ratios based on aqueous electrocatalytic CO₂ reduction over mesoporous TiO₂ films modified with a cobalt porphyrin molecular catalyst

Hironobu Ozawa,* Ryoma Kikunaga, Hajime Suzuki, Ryu Abe and Ken Sakai*

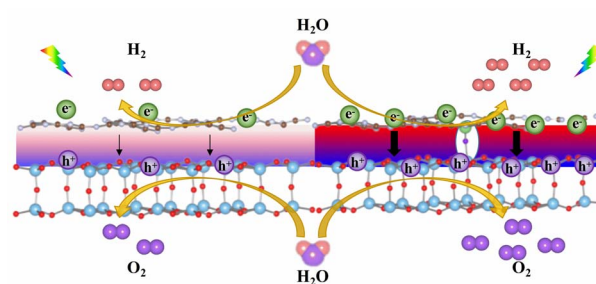


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A Li–F co-doped g-C₃N₄/TiO₂-B(001) heterostructure as an efficient hydrogen evolution photocatalyst

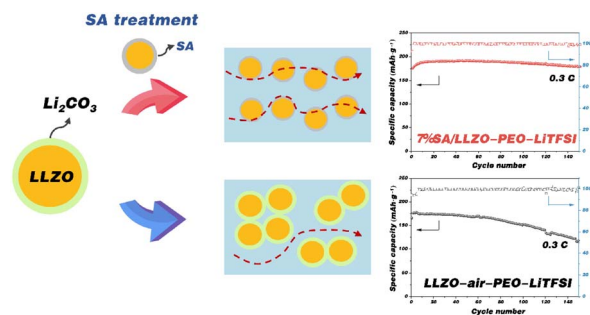
Xiaoja Yuan, Shuhan Tang and Xiaojie Liu*



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Salicylic acid treated Li₇La₃Zr₂O₁₂ achieves dual functions for a PEO-based solid polymer electrolyte in lithium metal batteries

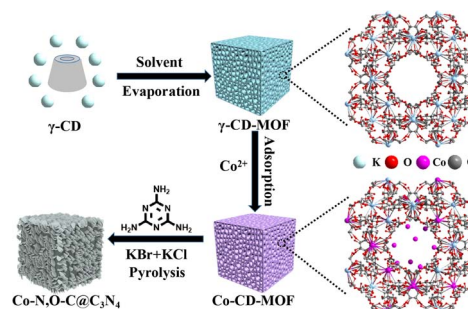
Wen He, Hui Ding, Chuandong Li, Xu Chen and Wensheng Yang*



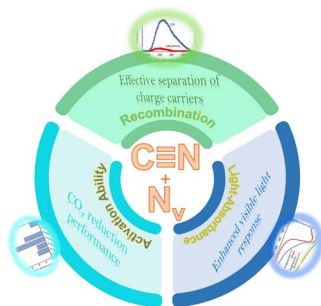
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γ-CD-MOF-derived heterostructures as bifunctional electrocatalysts for rechargeable zinc–air batteries

Ruirui Chai, Xinxin Sang,* Shiguo Ou, Jiahao Li, Junling Song and Dawei Wang*



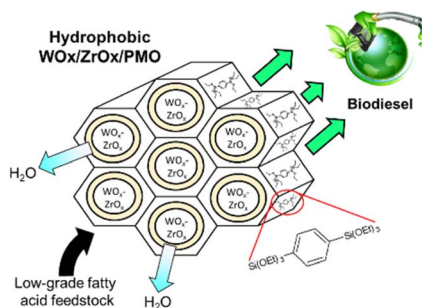
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The cooperative role of nitrogen defects and cyano-group functionalization in carbon nitride towards enhancing its CO₂ photoreduction activity

Shreya Singh, Pankaj Tiwari, Guguloth Venkanna, Kamal K. Pant* and Pratim Biswas*

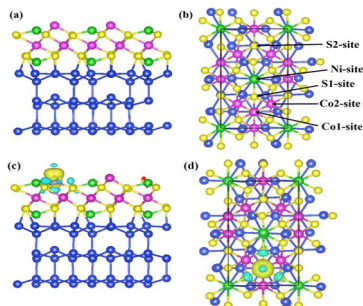
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WO_x/ZrO_x functionalised periodic mesoporous organosilicas as water-tolerant catalysts for carboxylic acid esterification

Vannia C. dos Santos-Durndell, Lee J. Durndell,* Mark A. Isaacs, Adam F. Lee* and Karen Wilson*

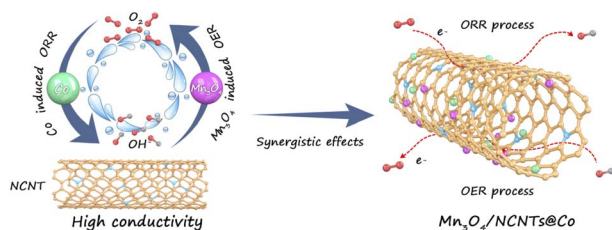
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NiCo₂S₄ cocatalyst supported Si nanowire heterostructure for improved solar-driven water reduction: experimental and theoretical insights

S. Gopalakrishnan, Mihir Ranjan Sahoo, Avijeet Ray, Nirpendra Singh, S. Harish, E. Senthil Kumar and M. Navaneethan*

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Biomass chitosan-derived Co-induced N-doped carbon nanotubes to support Mn₃O₄ as efficient electrocatalysts for rechargeable Zn–air batteries

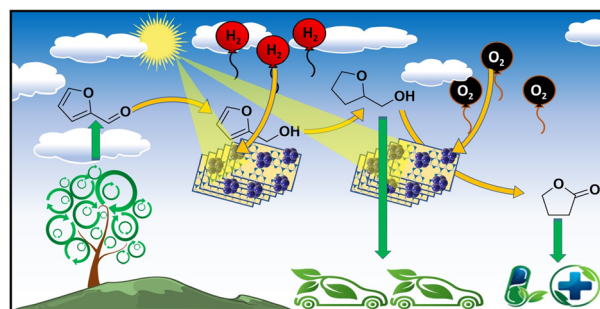
Wenshu Zhou, Yanyan Liu, Dichao Wu, Limin Zhou, Gaoyue Zhang, Kang Sun, Baojun Li and Jianchun Jiang*



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Photocatalytic selective conversion of furfural to γ -butyrolactone through tetrahydrofurfuryl alcohol intermediates over Pd NP decorated g-C₃N₄

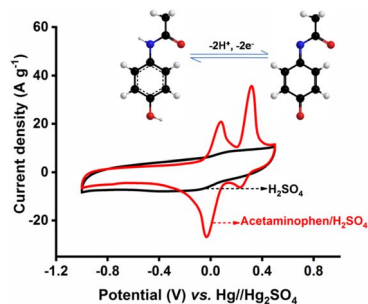
Rajat Ghalta and Rajendra Srivastava*



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Acetaminophen: a novel redox-additive for snowballing the energy density of flexible supercapacitors

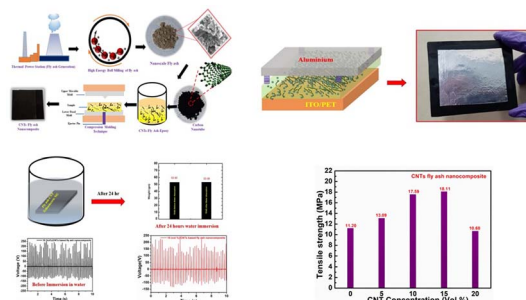
M. Sandhiya, D. Ponraj Jenis, V. Sudha, S. M. Senthil Kumar, R. Thangamuthu and M. Sathish*



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Sustainable robust waste-recycled ocean water-resistant fly ash-carbon nanotube nanocomposite-based triboelectric nanogenerator

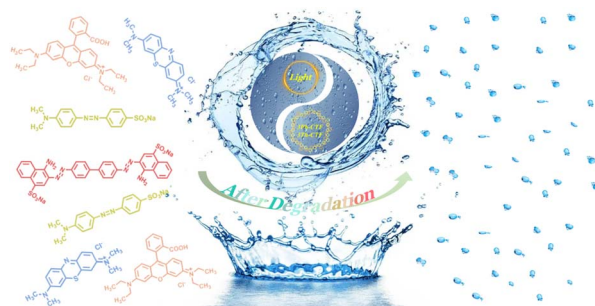
Ashish Kumar Chaturvedi, Simadri Badatya, Asokan Pappu, Avanish Kumar Srivastava and Manoj Kumar Gupta*



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A novel covalent triazine-based frameworks as photocatalysts for the degradation of dyes under visible light irradiation

Yajing Du, Haoqiang Ai, Yun Liu and Hongzhi Liu*



CORRECTION

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Correction: One-pot synthesis of ordered nanoporous amorphous H-Zn-aluminosilicate for catalysis of bulky molecules

Jitendra Diwakar, Nagabhatla Viswanadham,* Saurabh Kumar, Adarsh Kumar and Sandeep K. Saxena

