

Sustainable Energy & Fuels

Interdisciplinary research for the development of sustainable energy technologies

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ISSN 2398-4902 CODEN SEFUA7 7(7) 1557–1758 (2023)



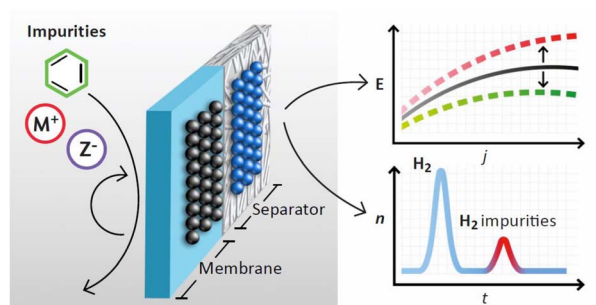
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REVIEWS

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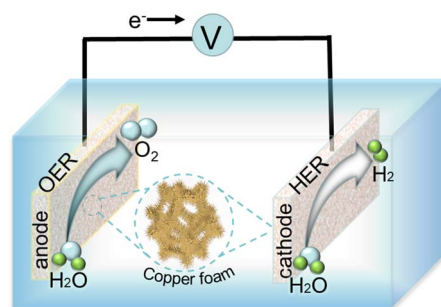
Hans Becker, James Murawski, Dipak V. Shinde, Ifan E. L. Stephens,* Gareth Hinds and Graham Smith*



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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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Sustainable Energy & Fuels (electronic: ISSN 2398-4902) is published 24 times per year by the Royal Society of Chemistry,

Thomas Graham House, Science Park, Milton Road, Cambridge, CB4 0WF, UK.

All orders, with cheques made payable to the Royal Society of Chemistry, should be sent to the Royal Society of Chemistry Order Department, Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, CB4 0WF, UK

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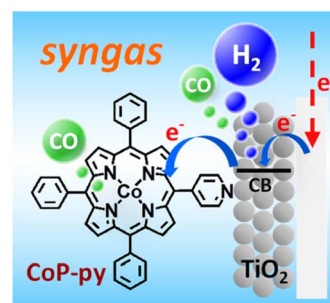


COMMUNICATION

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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*

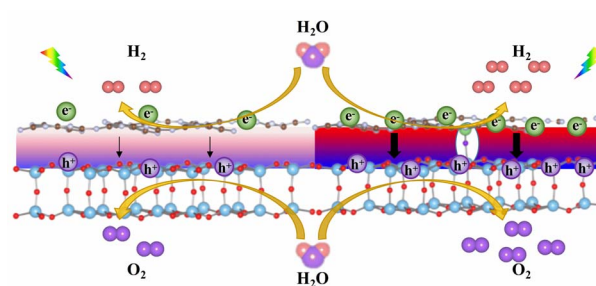


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A Li–F co-doped g-C₃N₄/TiO₂-B(001) heterostructure as an efficient hydrogen evolution photocatalyst

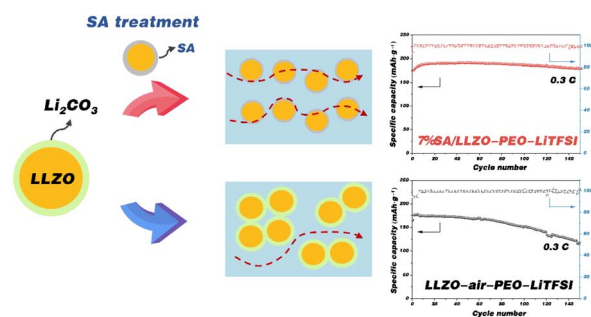
Xiaoja Yuan, Shuhan Tang and Xiaojie Liu*



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

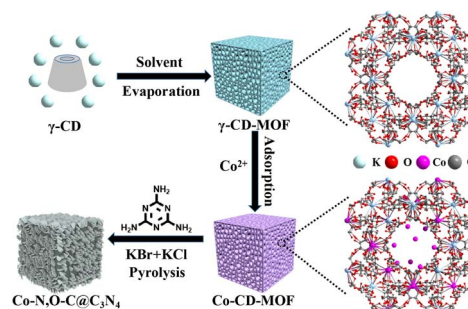
Wen He, Hui Ding, Chuandong Li, Xu Chen and Wensheng Yang*



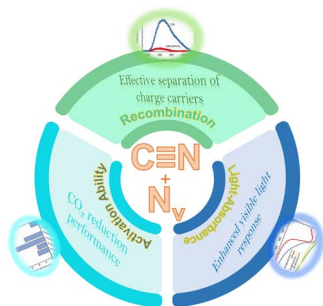
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γ-CD-MOF-derived heterostructures as bifunctional electrocatalysts for rechargeable zinc–air batteries

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



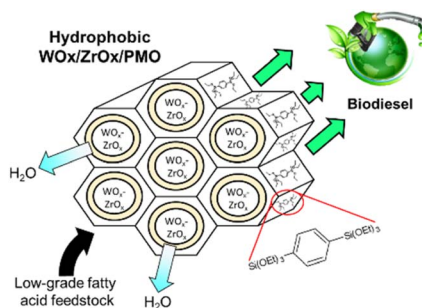
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The cooperative role of nitrogen defects and cyano-group functionalization in carbon nitride towards enhancing its CO₂ photoreduction activity

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

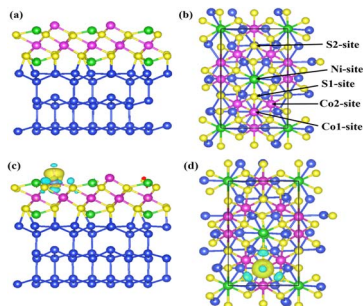
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WO_x/ZrO_x functionalised periodic mesoporous organosilicas as water-tolerant catalysts for carboxylic acid esterification

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

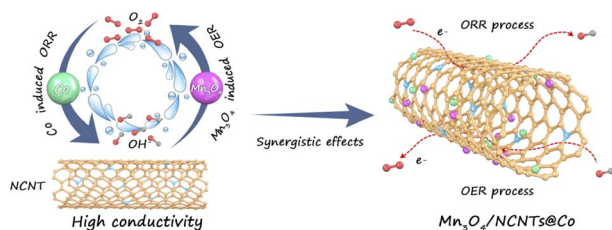
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NiCo₂S₄ cocatalyst supported Si nanowire heterostructure for improved solar-driven water reduction: experimental and theoretical insights

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

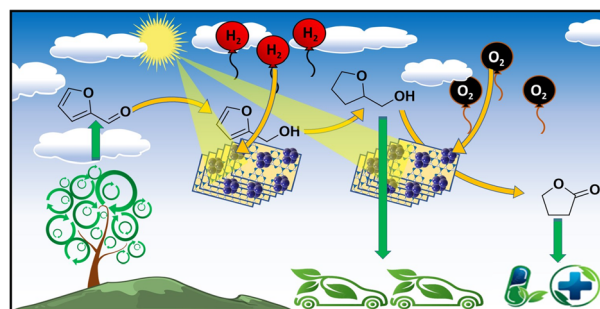
Wenshu Zhou, Yanyan Liu, Dichao Wu, Limin Zhou, Gaoyue Zhang, Kang Sun, Baojun Li and Jianchun Jiang*



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

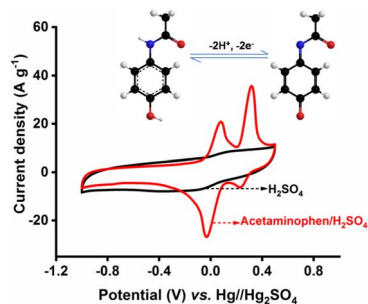
Rajat Ghalta and Rajendra Srivastava*



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

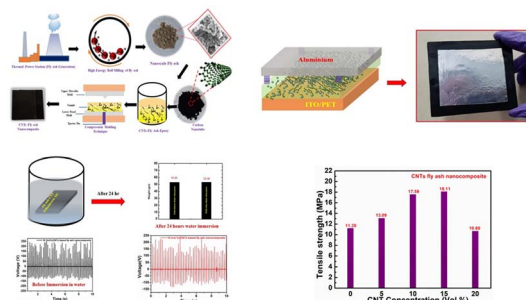
M. Sandhiya, D. Ponraj Jenis, V. Sudha, S. M. Senthil Kumar, R. Thangamuthu and M. Sathish*



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

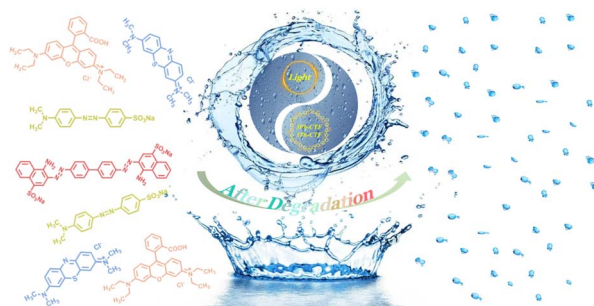
Ashish Kumar Chaturvedi, Simadri Badatya, Asokan Pappu, Avanish Kumar Srivastava and Manoj Kumar Gupta*



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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

