

Sustainable Energy & Fuels

Interdisciplinary research for the development of sustainable energy technologies

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IN THIS ISSUE

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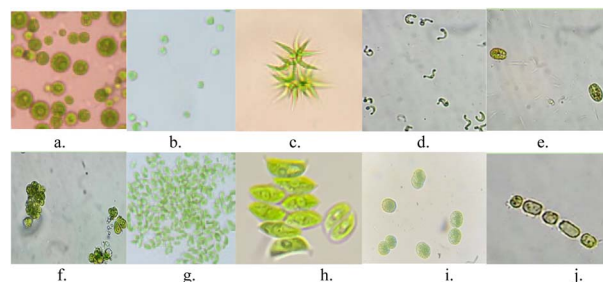
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See Takahiro Ishizaki *et al.*,
pp. 2582–2593.
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REVIEWS

2515

Algae as a source of renewable energy: opportunities, challenges, and recent developments

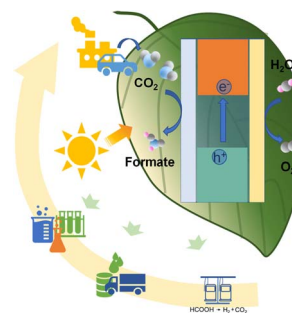
Javid Hussain* and Bruce E. Rittmann



2545

Photoelectrochemical and electrochemical CO₂ reduction to formate on post-transition metal block- based catalysts

Qixing Zhang, Zhongke Wang, Han He, Juan Wang,
Ying Zhao* and Xiaodan Zhang*



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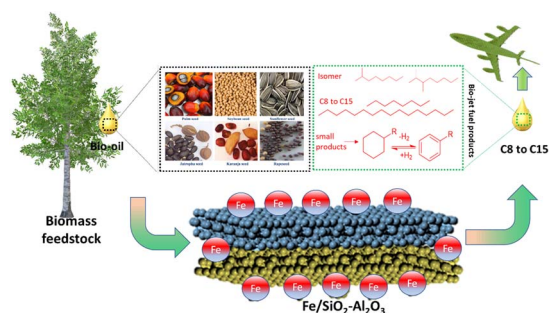
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2568

Highly selective production of bio-jet fuel grade alkanes over an Fe/SiO₂-Al₂O₃ solid acid catalyst under solvent-free conditions

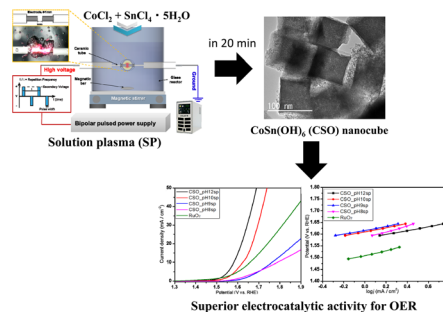
Bhagirath Saini, Meena Yadav, Shubham Kumar Jha, R. Krishnapriya, Preeti Kang, Vishav Kant, Rahul Singhal and Rakesh K. Sharma*



2582

Solution plasma synthesis of perovskite hydroxide CoSn(OH)₆ nanocube electrocatalysts toward the oxygen evolution reaction

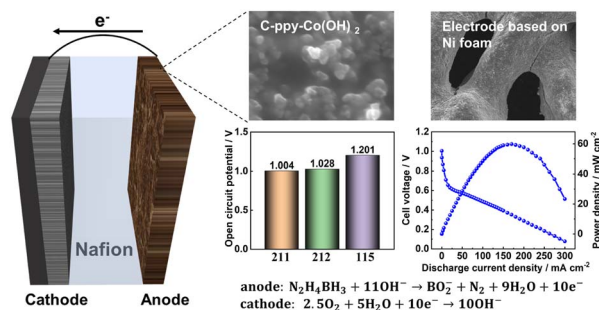
Masaki Narahara, So Yoon Lee, Kodai Sasaki, Kaito Fukushima, Kenichi Tanaka, Sangwoo Chae, Xiulan Hu, Gasidit Panomsuwan and Takahiro Ishizaki*



2594

Direct hydrazine borane fuel cells using non-noble carbon-supported polypyrrole cobalt hydroxide as an anode catalyst

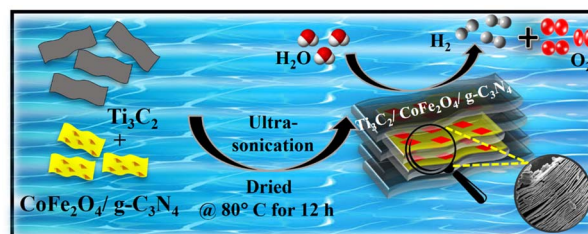
Yang Zhang, Gang Zhu, Zhenying Chen, Yingying Liu, Donghao Ye, Ao Wang, Wenxing Jiang, Chengwei Deng, Xiaodong Zhuang, Junliang Zhang and Changchun Ke*



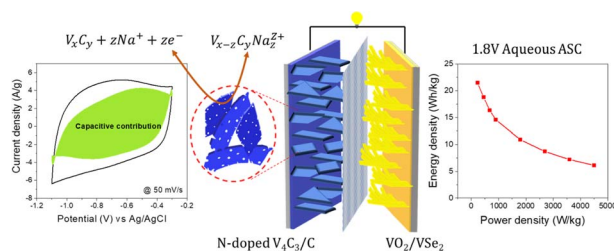
2601

CoFe₂O₄/g-C₃N₄ intercalated Ti₃C₂ MXene for efficient electrocatalytic hydrogen evolution reaction

Sandra Mathew, Madhushree R. and Sunaja Devi K. R.*



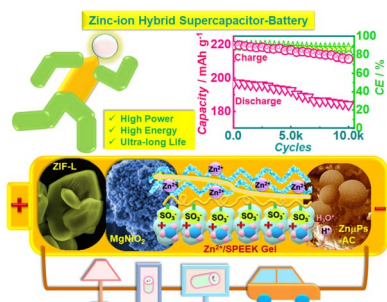
2613



Understanding supercapacitive performance of a N-doped vanadium carbide/carbon composite as an anode material in an all pseudocapacitive asymmetric cell

Hem Kanwar Rathore, Muruganandham Hariram, Mukhesh K. Ganesha, Ashutosh K. Singh, Debanjan Das, Manoj Kumar, Kamalendra Awasthi and Debasish Sarkar*

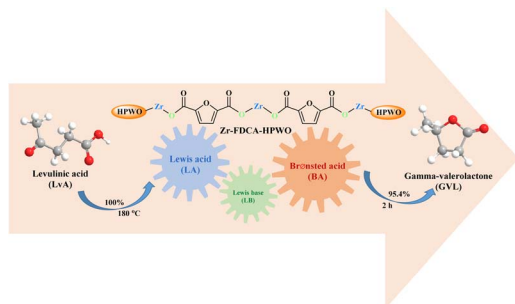
2627



Zinc-ion hybrid supercapacitor-batteries with a leaf-like ZIF-L/MgNiO₂ micro-sphere composite and a Zn²⁺/sulfonated poly(ether ether ketone) gel

Ishita Naskar, Partha Ghosal and Melepurath Deepa*

2645



Catalytic transfer hydrogenation of levulinic acid to gamma-valerolactone over a zirconium-based FDCA hybrid: insights into the effect of heteropoly acids

Rulu Huang, Yuan Cheng, Huai Liu,* Lincai Peng and Junhua Zhang*

2653



Technical, economic, and environmental potential of glycerol hydrogenolysis: a roadmap towards sustainable green chemistry future

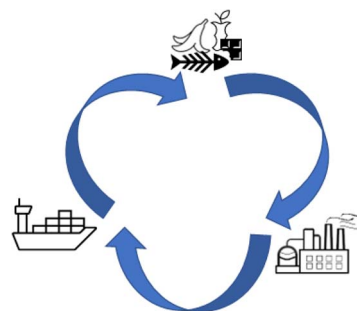
Adrian Chun Minh Loy, Wei Lin Ng, Shanthy Priya Samudrala and Sankar Bhattacharya*



2670

Desalting biocrude for improved downstream processing toward marine fuel application

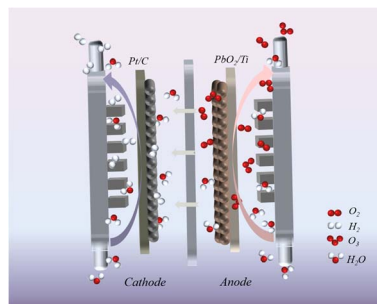
Uriah Kilgore, Daniel M. Santosa, Shuyun Li, Peipei Wang, Suh-Jane Lee, Michael R. Thorson and Karthikeyan Ramasamy*



2680

A long-term-stable continuous flow electrochemical ozone generator with high current efficiency

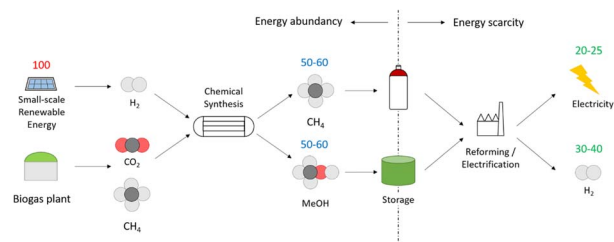
Xi Wang, Dandan Wu and Xu Wu*



2690

Techno-economic-environmental assessment of the integration of power-to-X and biogas utilization towards the production of electricity, hydrogen, methane and methanol

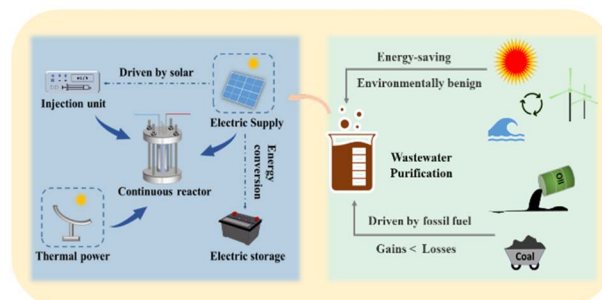
Emanuele Moioli* and Tilman Schildhauer



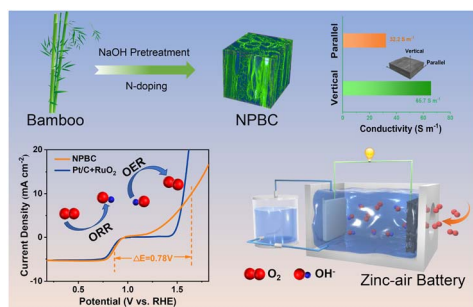
2707

A rational strategy for substantially enhancing the solar-utilization efficiency and organic-pollutant-degradation rate via mediated central processing unit filling

Nana Li, Baohui Wang,* Meng Wang, Lei Tao, Chaoying Li, Zhiqiang Qiao, Di Gu, Lingyue Zhu, Dandan Yuan, Hongjun Wu and Xirui Wang*



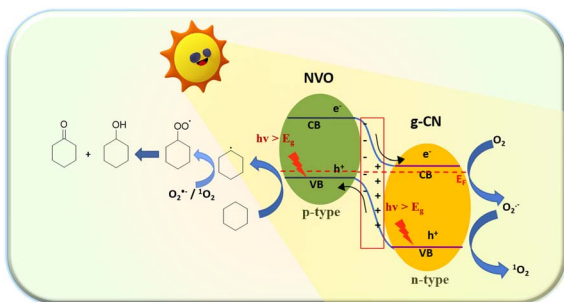
2717



Bamboo derived N-doped carbon as a bifunctional electrode for high-performance zinc-air batteries

Peng Cui, Tingzhen Li, Xiao Chi, Wu Yang, Zehong Chen, Wenjia Han, Ruidong Xia, Admassie Shimelis, Emmanuel Iheanyichukwu Iwuoha and Xinwen Peng*

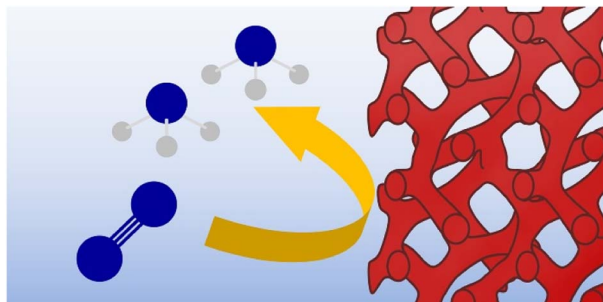
2727



A Ni₃V₂O₈@g-CN nanocomposite-based p-n heterojunction: mechanistic insights into photocatalytic activation of the inert C(sp³)-H bond

Anjali Verma, Arpna Jaryal, Deepak Kumar Chauhan, Venugopala Rao Battula, Madhurima Sarkar, Abhijit Patra and Kamalakannan Kailasam*

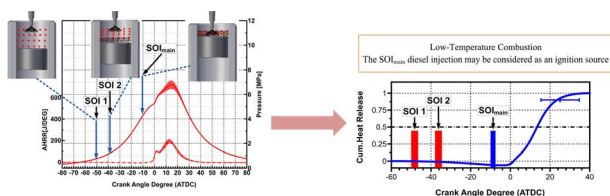
2740



Electrochemical nitrogen reduction to ammonia using mesoporous iron oxide with abundant oxygen vacancies

Toshihiro Takashima,* Takumi Mochida and Hiroshi Irie

2749



Statistical analysis of ethanol/diesel dual-fuel combustion of compression ignition engines in RCCI mode using multi-injection strategies

Ahmed Mohammed Elbanna, Xiaobei Cheng,* Can Yang, Medhat Elkelay, Hagar Alm-Eldin Bastawissi and Haocheng Xu

