

Sustainable Energy & Fuels

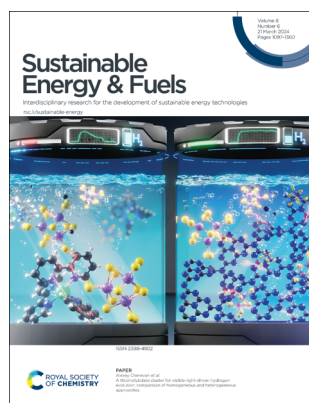
Interdisciplinary research for the development of sustainable energy technologies

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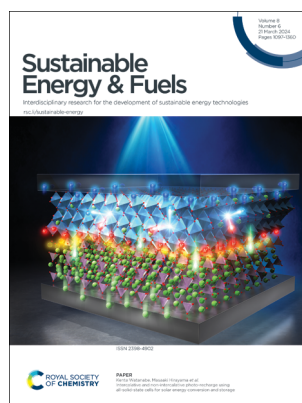
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See Alexey Cherevan *et al.*, pp. 1225–1235. Image reproduced by permission of Stephen Myakala.



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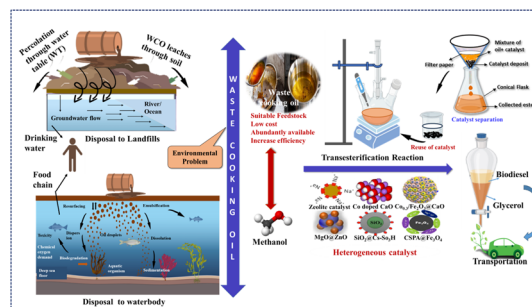
See Kenta Watanabe, Masaaki Hirayama *et al.*, pp. 1236–1244. Image reproduced by permission of Kenta Watanabe from *Sustainable Energy Fuels*, 2024, 8, 1236.

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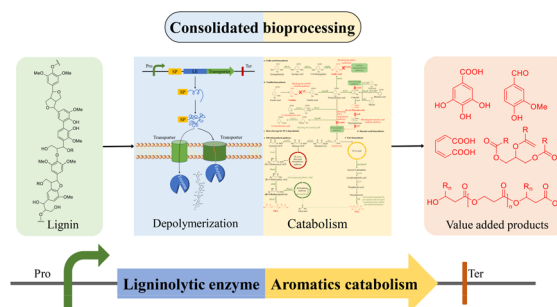
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Jianming Guo, Dylan Liu and Yong Xu*



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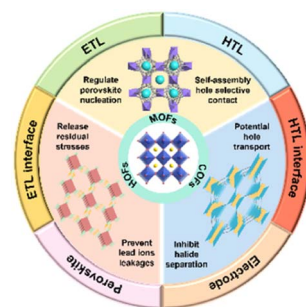
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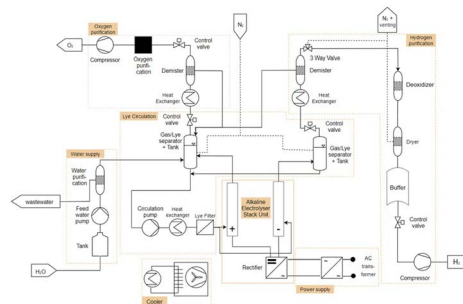
Chi Li and Peng Gao*



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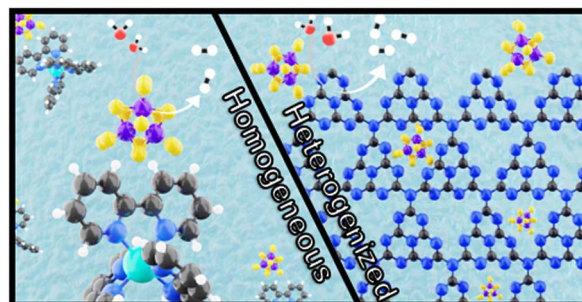


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A thiomolybdate cluster for visible-light-driven hydrogen evolution: comparison of homogeneous and heterogeneous approaches

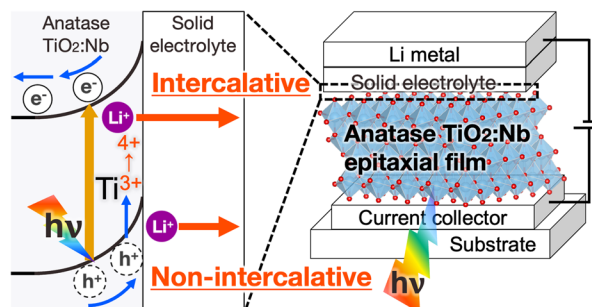
Samar Batool, Jasmin S. Schubert, Pablo Ayala, Hikaru Saito, Maria J. Sampaio, Eliana S. Da Silva, Cláudia G. Silva, Joaquim L. Faria, Dominik Eder and Alexey Cherevan*



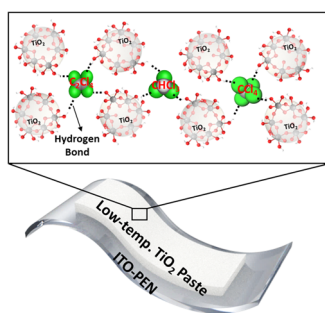
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Intercalative and non-intercalative photo-recharge using all-solid-state cells for solar energy conversion and storage

Masataka Yoshimoto, Kazuhisa Tamura, Kenta Watanabe,* Keisuke Shimizu, Yuhei Horisawa, Takeshi Kobayashi, Hanae Tsurita, Kota Suzuki, Ryoji Kanno and Masaaki Hirayama*



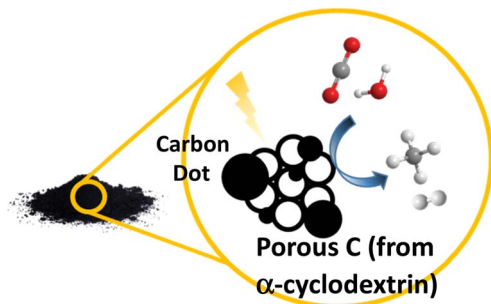
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Chemical sintering by chlorinated carbon compounds for flexible photoanodes of dye-sensitized photovoltaic cells

Hyeong Cheol Kang, Kicheon Yoo, Md. Mahbubur Rahman, Senthilkumar Muthu, Jun Hwan Jang, Ashok Kumar Kalamurthy and Jae-Joon Lee*

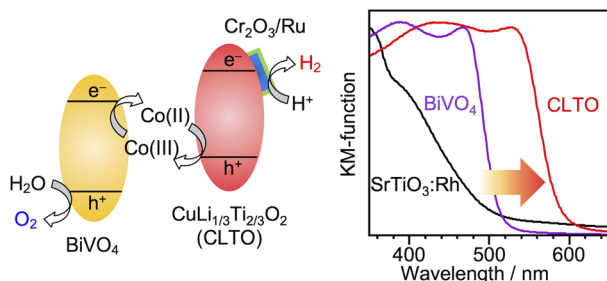
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Metal-free carbon dot-microporous graphitic carbon heterojunctions as photocatalysts for CO₂ reduction

Ana Garcia-Mulero, María Cabrero-Antonino, Hermenegildo García* and Ana Primo*

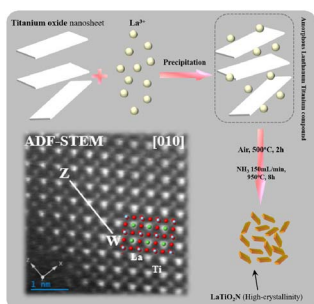
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Z-scheme water splitting utilizing CuLi_{1/3}Ti_{2/3}O₂ as a hydrogen-evolving photocatalyst with photo-response up to 600 nm

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Synthesis and photocatalytic activity of LaTiO₂N using titanium oxide nanosheet/La³⁺ hybrids as a precursor

Xiong Tao, Tatsuki Tsugawa, Kzuto Hatakeyama and Shintaro Ida*

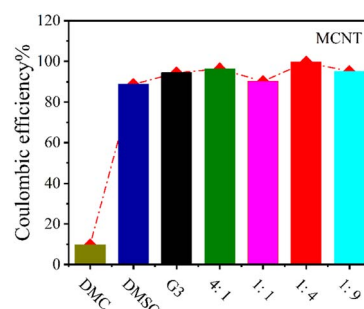


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The effect of electrolyte with binary solvents on improving the performance of rechargeable lithium–oxygen batteries

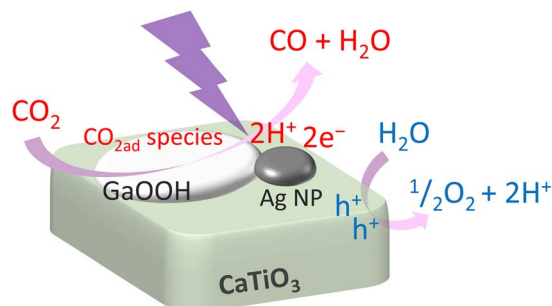
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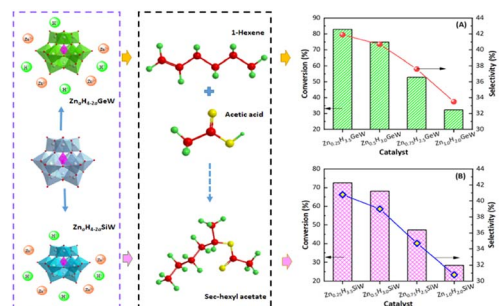
Hongxuan Qiu, Akira Yamamoto and Hisao Yoshida*



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Zn-substituted heteropoly acids as efficient catalysts for the addition–esterification of 1-hexene

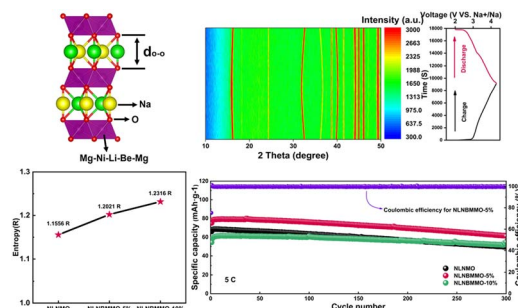
Xiaoyan Xue, Yan Sun, Qiwen Sun,* Weiren Bao,* Zongsen Zhang, Liping Chang, Jiancheng Wang and Kechang Xie



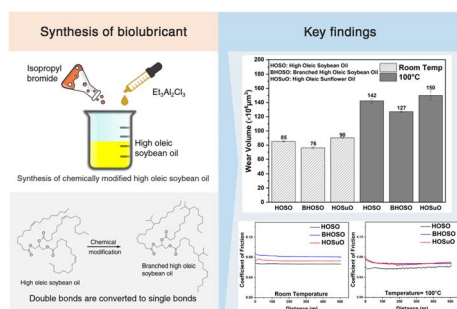
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A high-entropy layered P2-type cathode with high stability for sodium-ion batteries

Hongfeng Liu, Yingshuai Wang, Xiangyu Ding, Yusong Wang, Feng Wu and Hongcai Gao*



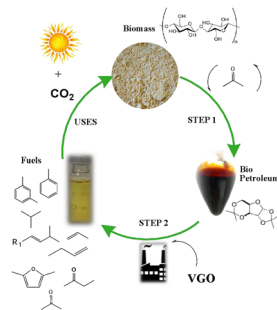
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Investigating the impact of a newly developed chemical modification technique on improving the tribological properties of high oleic soybean oil

Piash Bhowmik, Brajendra K. Sharma, Majher I. Sarker, Hyunsuk Choi, Clement Tang and Sougata Roy*

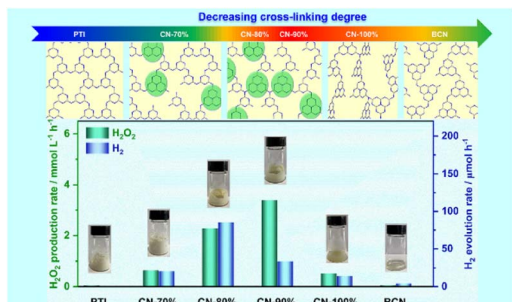
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From biomass to fuels: a carbon-efficient route combining ketalization and fluid catalytic cracking

Juliana Carvalho, Alessandra Vieira, Alviclér Magalhães, Leandro S. Mariz e Miranda, Yiu Lau Lam and Marcelo M. Pereira*

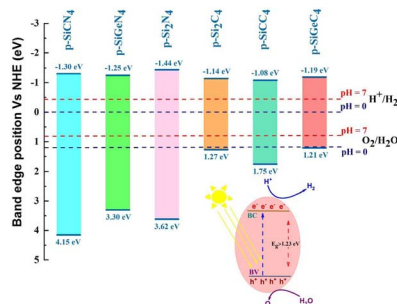
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Effective inter-chain charge transfer and high charge mobility in polymeric carbon nitride arising from controllable molecular structures for enhanced photocatalytic H₂O₂ and H₂ production

Zonglin Li, Qing Yang, Hui Zhang,* Fukai Zheng, Yonghai Wang and Jianhua Sun*

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Potential application of ternary pentagonal p-SiXY₄ (X = Si, C, Ge; Y = C, B, N) materials for optoelectronics and photocatalytic water splitting: a first-principles study

M. Maymoun,* S. Oukahou, A. Elomrani, A. Benaddi, A. Etrini, H. Atalite, Y. Bahou, A. Hasnaoui and K. Sbiaai

