

# Sustainable Energy & Fuels

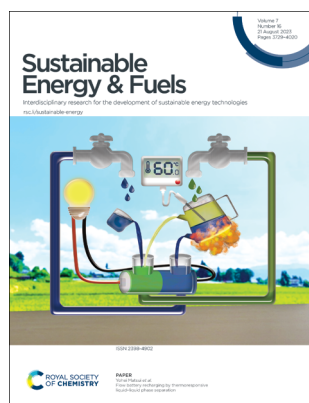
Interdisciplinary research for the development of sustainable energy technologies

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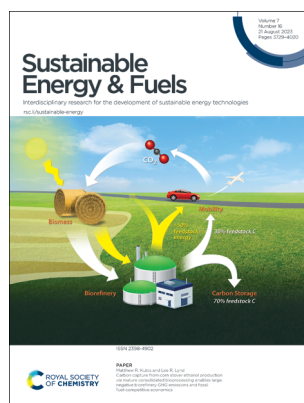
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ISSN 2398-4902 CODEN SEFUA7 7(16) 3729–4020 (2023)



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## EDITORIAL

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### Harnessing the power of biorefining: paving the way for sustainable fuels and chemicals

George W. Huber, Muxina Konarova, Jason Y. C. Lim and Karen Wilson\*

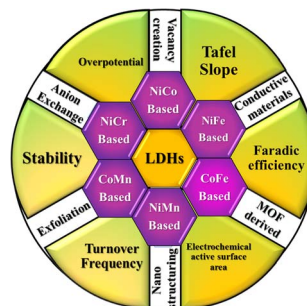


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Sreenivasan Nagappan, Seungmin Yang, Arindam Adhikari, Rajkumar Patel\* and Subrata Kundu\*



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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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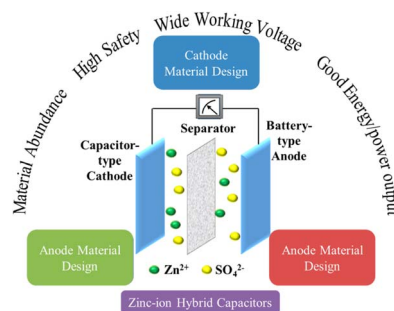


## REVIEWS

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## Recent developments in zinc metal anodes, cathodes, and electrolytes for zinc-ion hybrid capacitors

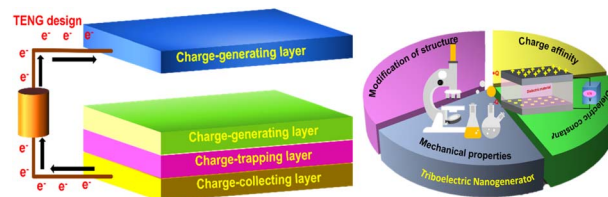
Meghali Devi, Brindha Moorthy and Ranjith Thangavel\*



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## Applications of multifunctional triboelectric nanogenerator (TENG) devices: materials and prospects

Prabhakar Yadav, Kuldeep Sahay,\* Arpit Verma, D. K. Maurya and B. C. Yadav\*

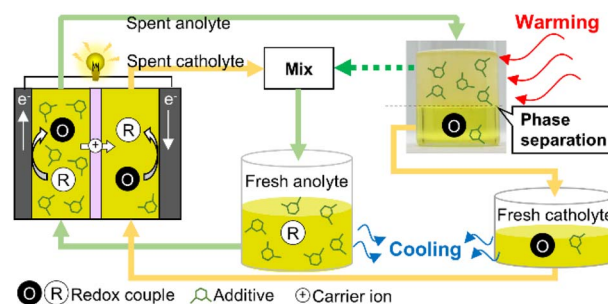


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## Flow battery recharging by thermoresponsive liquid–liquid phase separation

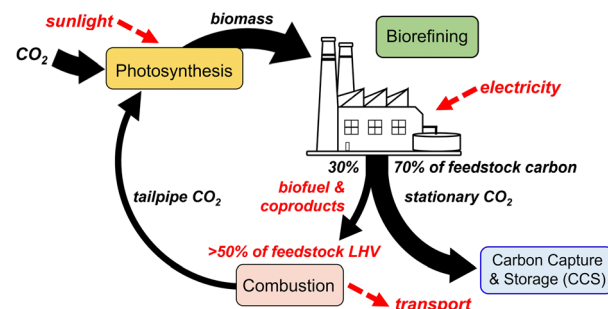
Yohei Matsui,\* Yuki Maeda, Makoto Kawase, Takahiro Suzuki and Shohji Tsushima



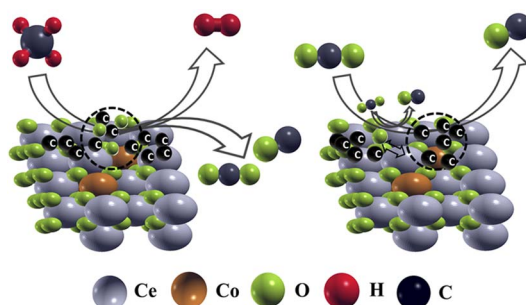
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## Carbon capture from corn stover ethanol production via mature consolidated bioprocessing enables large negative biorefinery GHG emissions and fossil fuel-competitive economics

Matthew R. Kubis and Lee R. Lynd\*



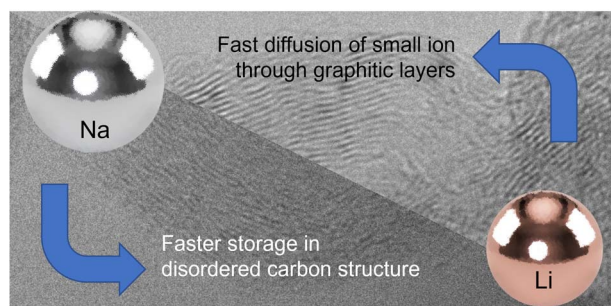
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Pradeep Kumar Yadav, Kalyani Patrikar, Anirban Mondal and Sudhanshu Sharma\*

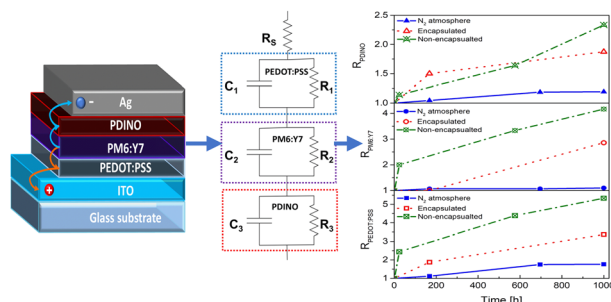
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Johannes Schenk, Desirée Leistenschneider, Stephanie Hoepfner, Ulrich S. Schubert, Konstantin Schutjajew\* and Martin Oschatz\*

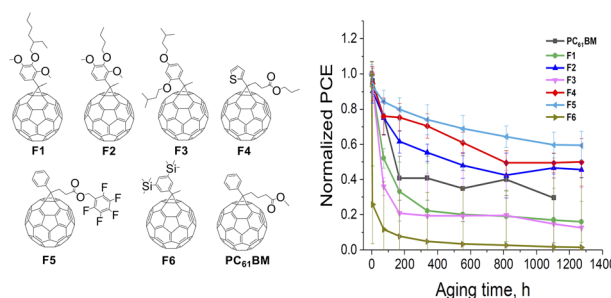
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Magaly Ramírez-Como, Enas Moustafa, Mohamed Samir, Alfonsina Abat Amelenan Torimtubeun, José G. Sánchez, Josep Pallarès\* and Lluís F. Marsal\*

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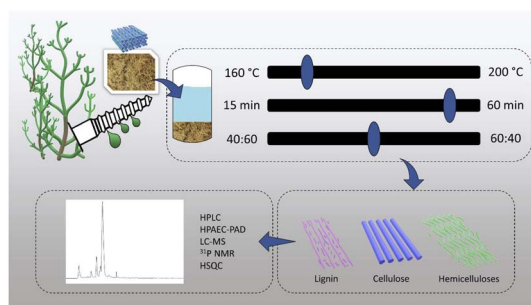


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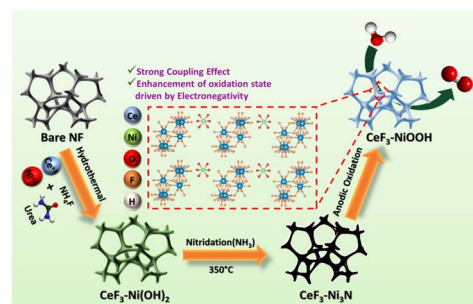
Maxwel Monção, Petter Paulsen Thoresen, Tobias Wretborn, Heiko Lange, Ulrika Rova, Paul Christakopoulos and Leonidas Matsakas\*



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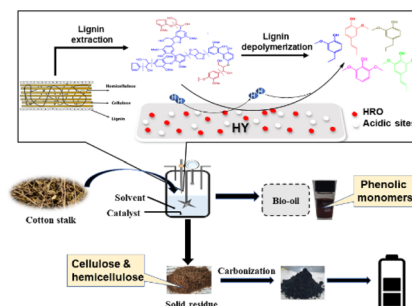
Rajdeep Kaur, Ashish Gaur, Jatin Sharma, Vikas Pundir, Aashi and Vivek Bagchi\*



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### Lignin-first biorefinery approach for the valorization of cotton stalks to phenolic monomers

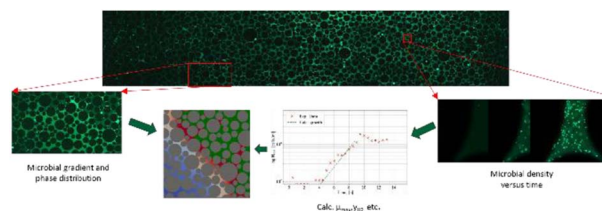
Meenu Jindal, Adarsh Kumar, Shivam Rawat and Bhaskar Thallada\*



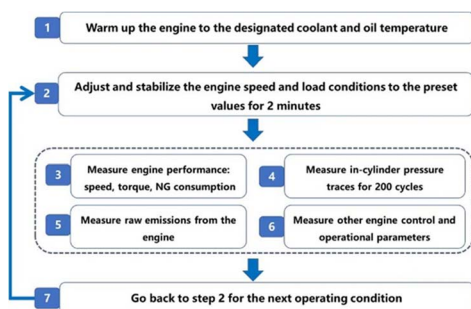
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Gion Strobel,\* Jan Zawallich,\* Birger Hagemann, Leonhard Ganzer and Olaf Ippisch



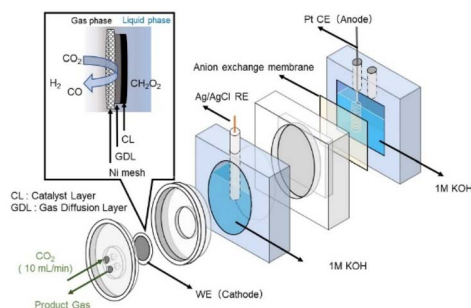
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Jianqin Fu, Chao Li, Feng Zhou,\* Jun Shu\* and Jingping Liu

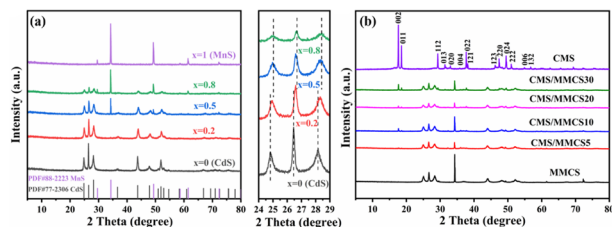
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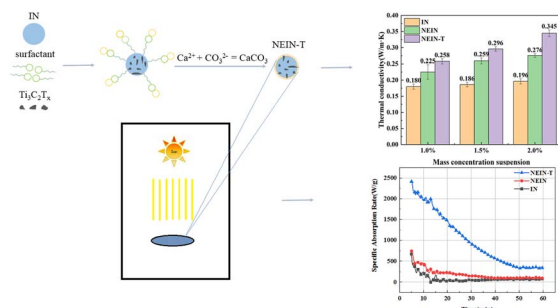
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Jingjing Jiang, Chao Liu, Xiaolong Fang\* and Fengjun Zhang

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Yuanhong Li, Songping Mo,\* Junhao Chen, Bo Xiao, Lisi Jia and Ying Chen

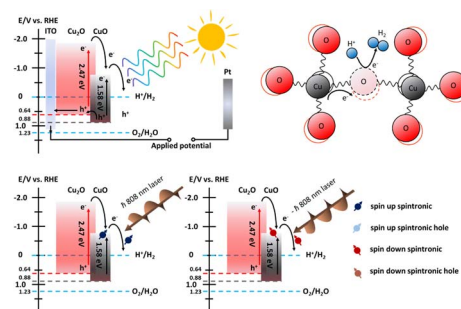


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Yi-Sheng Lai,<sup>\*</sup> Dao-Jing Huang, Xiu-Xuan Zhang and Yen-Hsun Su



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Fatih Okumuş,<sup>\*</sup> Halil İbrahim Sönmez, Aykut Safa, Cenk Kaya and Gökem Kökkülünk

