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See Xianlong Zhang, Chunming Lyu *et al.*, pp. 2781–2793. Image reproduced by permission of Chunming Lyu from *Mater. Adv.*, 2025, 6, 2781.

EDITORIAL

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Introduction to advances in emerging thermoelectric materials and devices

Krishna Nama Manjunatha,* Shashi Paul,* Satyajit Sahu and Mona Zebarjadi

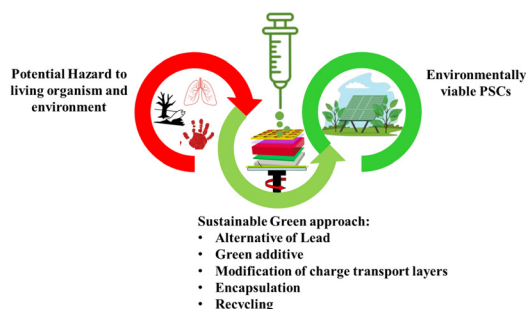


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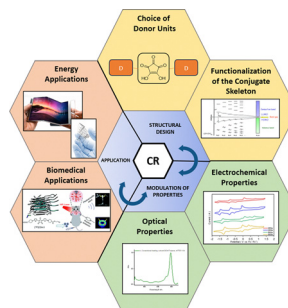


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Maria Montrone, Umberto Berardi,* Antonio Cardone* and Maria Annunziata M. Capozzi*

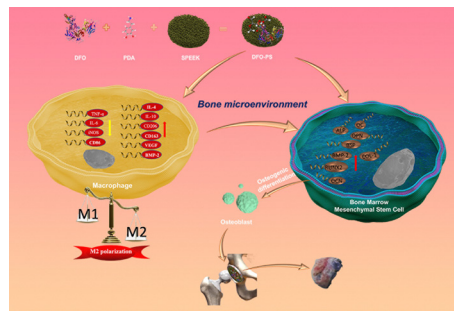


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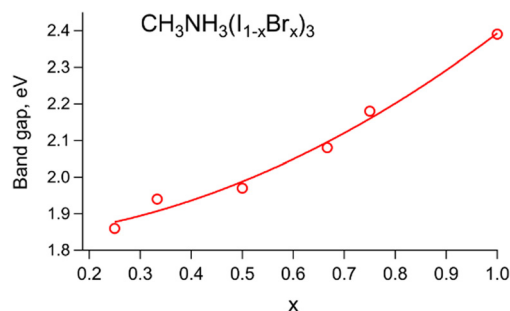
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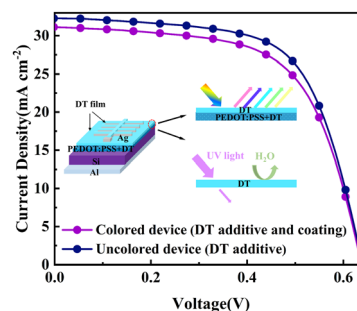
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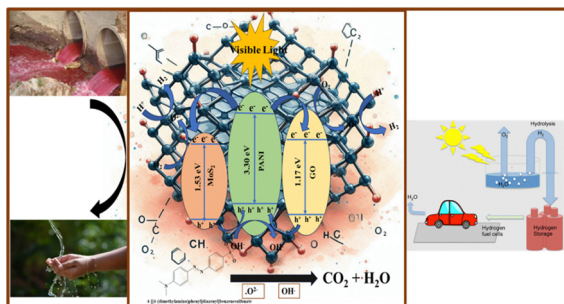
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Application of a multifunctional liquid crystal material in colored PEDOT:PSS/Si heterojunction solar cells

Zheng Zhou, Shibo Chen, Yingming Shen, Juan Wang, Guijun Zhang, Yang Shi, Haixia Wu, Jingjing Luo, Xiaohong Cheng* and Yu Yang*



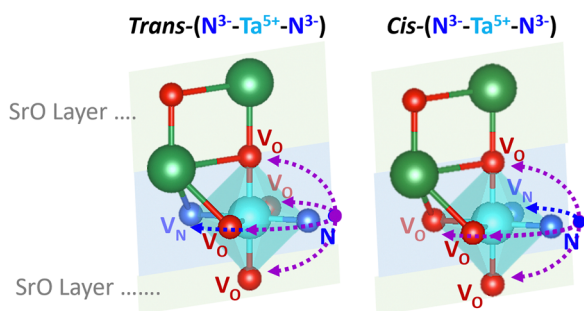
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Pritam Hait, Rajeev Mehta and Soumen Basu*

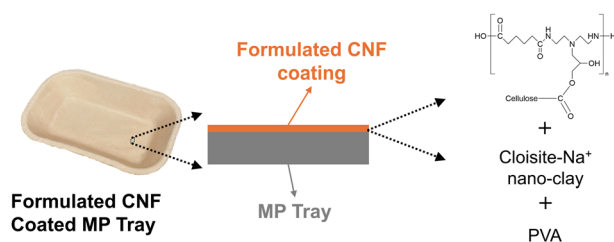
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Joshua J. Brown* and Alister J. Page

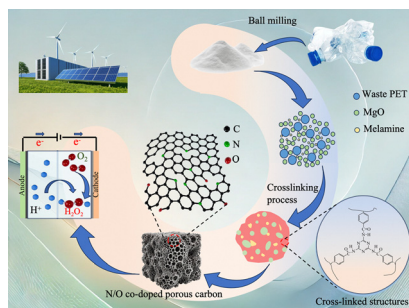
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N/O co-doped porous carbon derived from polyester waste for electrochemical production of H₂O₂

Mingsheng Luo, Chupeng Wang, Shiqi Song, Maochong Tang, Xiao Xia Wang* and Min Wu

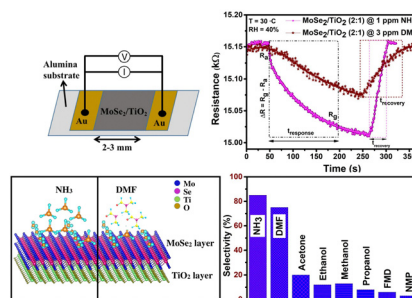


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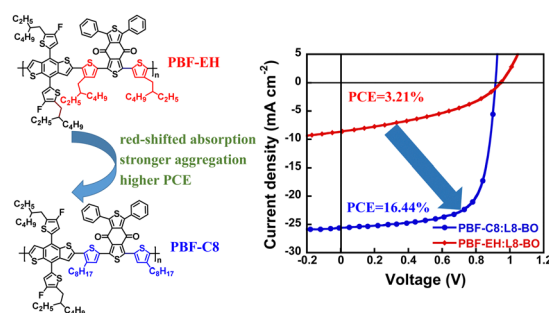
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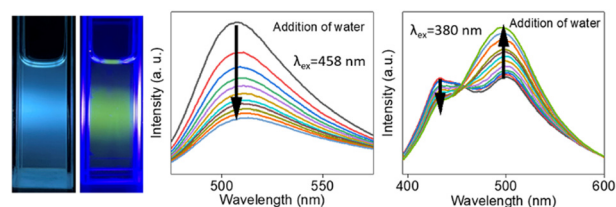
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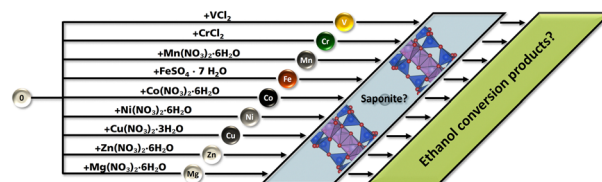
Koki Sekioka, Nazanin Mosleh, Dan Boice, Richard Hailstone and Xiangcheng Sun*



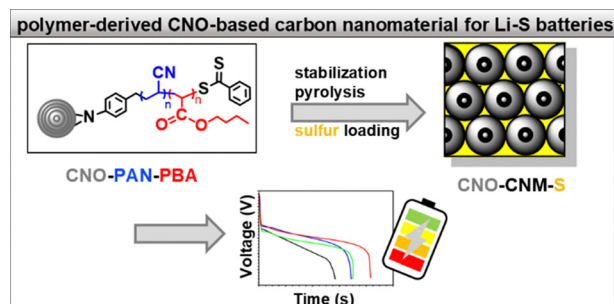
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The conversion of ethanol over 3d-metal saponite-like smectites

Marc Greuel, Clara Maria Watermann, Heiko Lohmann, Stefan Kaluza, Ulf-Peter Apfel* and Barbara Zeidler-Fandrich*



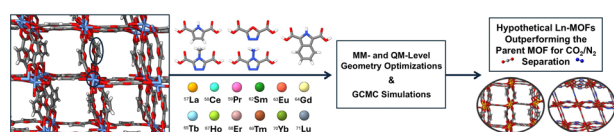
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Polymer-derived N-doped carbon nanomaterials containing carbon nano-onions and their potential applicability

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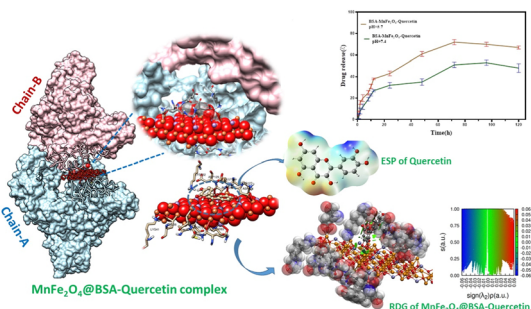
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Rational design of lanthanide-based metal–organic frameworks for CO_2 capture using computational modeling

Zeynep Pinar Haslak, Hasan Can Gulbalkan and Seda Keskin*

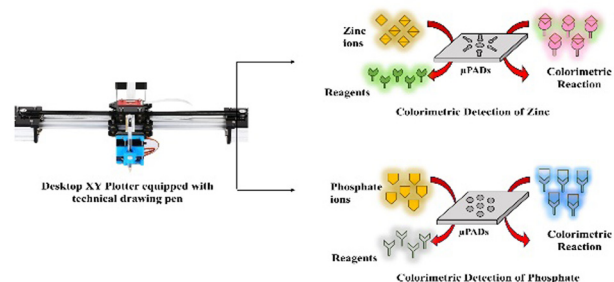
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Negin Hashemi, Shabnam Naderlou, Ali Mohammadi and Hossein Danafar*

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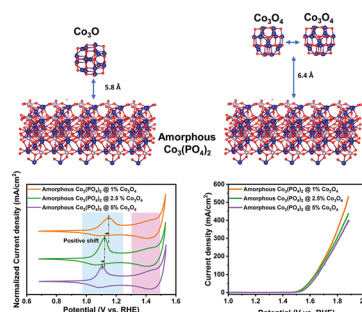


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Charge redistribution induced by well-dispersed cobalt oxide nanoparticles on $\text{Co}_3(\text{PO}_4)_2$ surfaces enhances OER catalytic activity

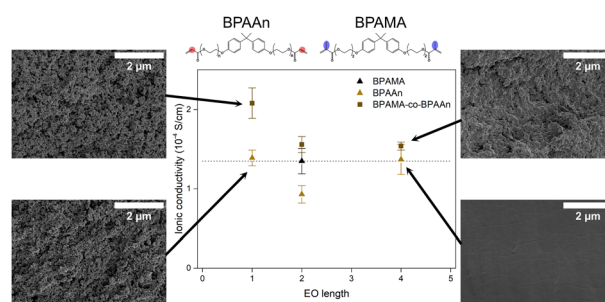
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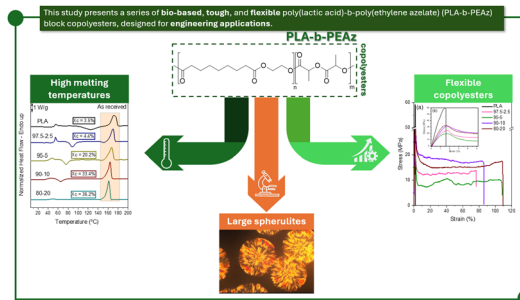
Samuel Emilsson, Gabriele Maffei, Martina Cattaruzza and Mats Johansson*



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Matthew S. Chambers,* Tianyu Li, Zhilin Liang, Jong Keum, Kevin H. Stone, Raphaële J. Clément, Beth L. Armstrong* and Ethan C. Self*

