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See Subash Pandey and Rudy L. Luck, pp. 7147-7158. Image reproduced by permission of Rudy L. Luck from Mater. Adv... 2024, **5**, 7147. The background image was generated using AI at Gemini.google.com/app



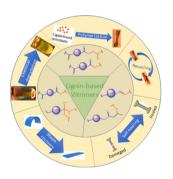
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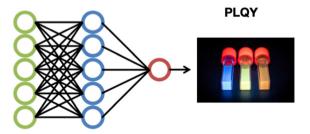


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Machine learning for carbon dot synthesis and applications

Ali Nabi Duman* and Almaz S. Jalilov*

MACHINE LEARNING





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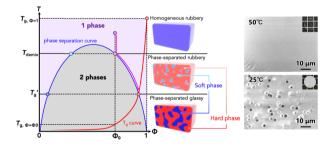


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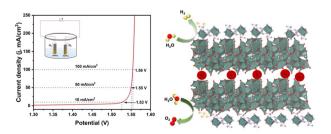


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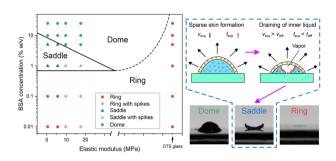
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Efficient alkaline water electrolysis with an iron-incorporated yttrium oxide/yttrium phosphide nanorod catalyst on Ni foam: overpotential reduction and electrochemical insights

Subash Pandey and Rudy L. Luck*



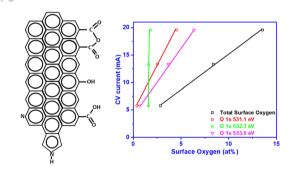
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Soft PDMS-mediated formation of bovine serum albumin 3D coffee stain structures for reversible hydrophilic patterning

Samuel Kok Suen Cheng, Kimberly Lopez, Maryam Jalali-Mousavi and Jian Sheng*

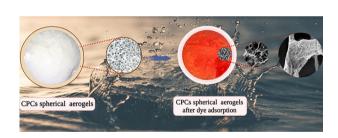
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Ha H. Phan, Jon G. Bell, Greg A. Mutch, Alan J. McCue, Anh N. Phan* and K. Mark Thomas*

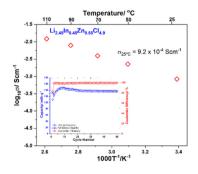
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Functional porous protein nanofibrils/ polysaccharides aerogel beads for efficient dyes removal from water

Mandana Dilamian, Majid Montazer, Hossein Yousefi, Daniel E. Otzen and Dina Morshedi*

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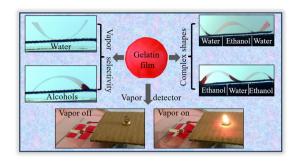
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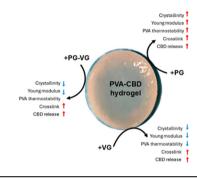
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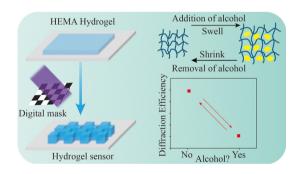
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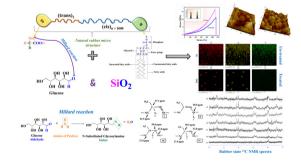
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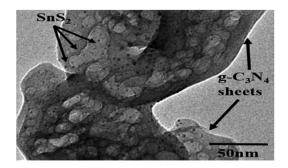
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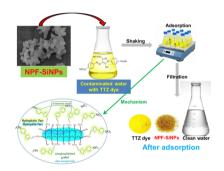


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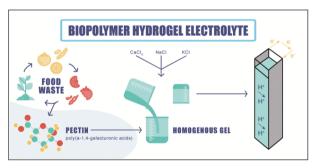
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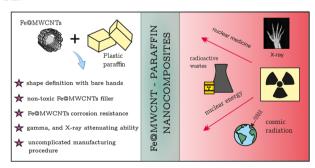
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Nathan W. Wilson and Gerardine G. Botte*

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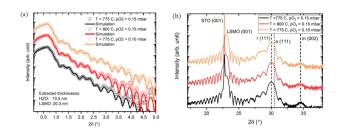
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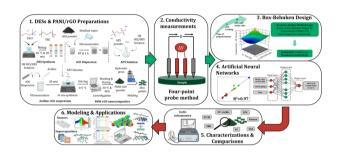
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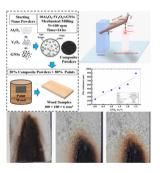
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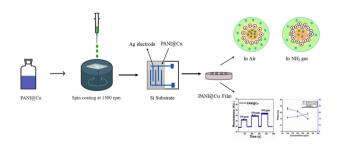
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Gas sensing properties of a Cu-doped PANI nanocomposite towards ammonia

Arunima Verma and Tanuj Kumar*



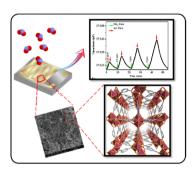
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Hydrogen-bonding fluorenone-based donor-acceptor-donor triads Solution Organogels Solvatofluorochromic property Acid-responsive behaviour DME EtOH/CHCl₃ Toluene CF₃COOH CF₃COOH N(C₂H₅)₃ (10⁵ eq.) (10⁵ eq.) (1 eq.) (1 eq.)

Multi-stimuli-responsive behaviours of fluorenone-based donor-acceptor-donor triads in solution and supramolecular gel states

Mao Suzuki, Atsushi Seki,* Syota Yamada and Ken'ichi Aoki

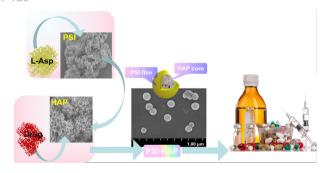
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The deployment of an NOTT-300 (Al) MOF thin film as a NO₂ capacitive sensor under ambient conditions

Mohamed Rachid Tchalala, Osama Shekhah, Youssef Belmabkhout, Hao Jiang, Khaled N. Salama* and Mohamed Eddaoudi*

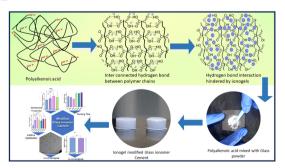
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Fengbo Yu, Qiang Wang, Dan Liu, Xingjun Fan, Lei Tong, Guangzhi Shen and Fengguo Zhai*

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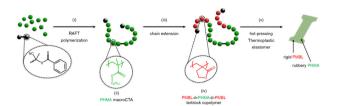
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Sreejith Sasidharan Lathikumari and Manju Saraswathy*

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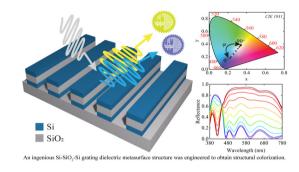
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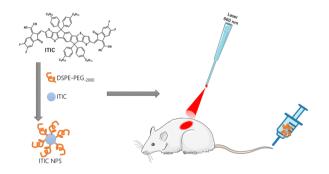
Soikot Sarkar, Dip Sarker and Ahmed Zubair*



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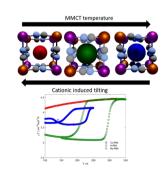
Guangshu Liang, Yining Yang, Daofu Cheng, Yuyan Ma and Linping Yan*



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Controlling A_xMn[Fe(CN)₆] charge transfer pathways through tilt-engineering for enhanced metal-to-metal interactions

A. Regueiro, J. Castells-Gil, C. Shen, I. Mikulska, C. Allen, L. Bogani* and R. Torres-Cavanillas*



CORRECTION

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Correction: Imidazolium-based ionic liquids support biosimilar flavin electron transfer

Grace I. Anderson, Alec Agee and Ariel L. Furst*