

Materials Advances

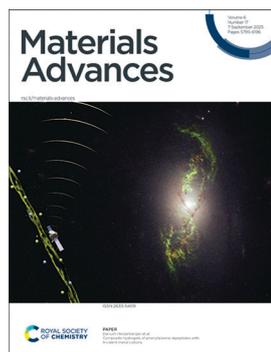
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ISSN 2633-5409 CODEN MAADC9 6(17) 5795-6196 (2025)



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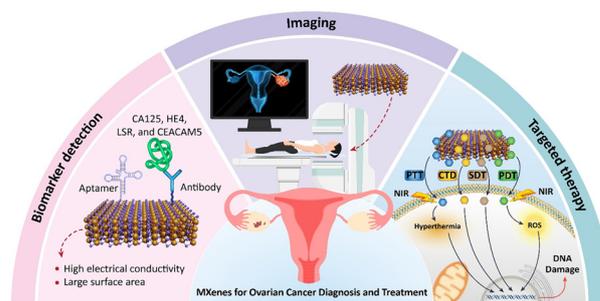
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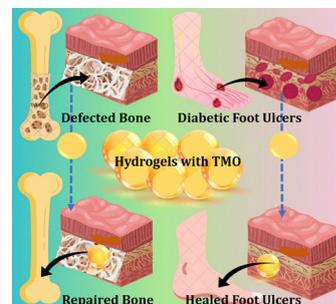
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Unveiling the development principles and mechanistic understanding of controlled drug delivery strategies for chronic bone defects and diabetic wound management

Shikha Awasthi



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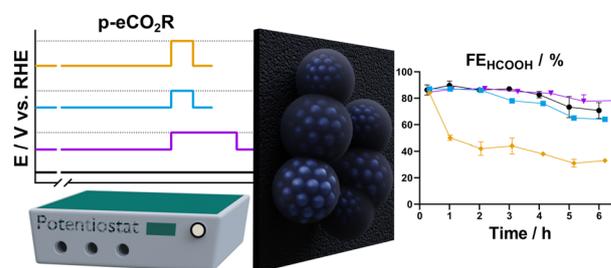


COMMUNICATION

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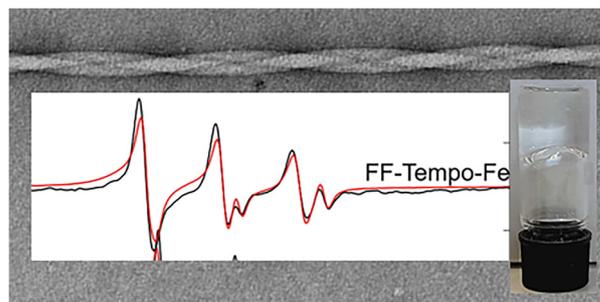


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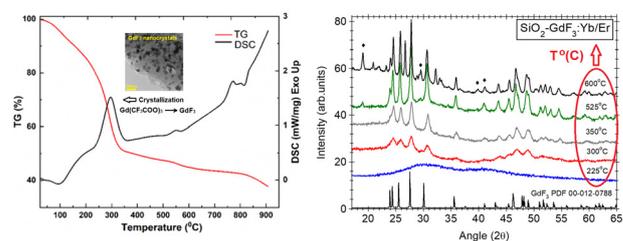
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Unravelling the crystallization mechanism and structural evolution of Yb/Er-doped SiO₂-GdF₃ nano-glass ceramics

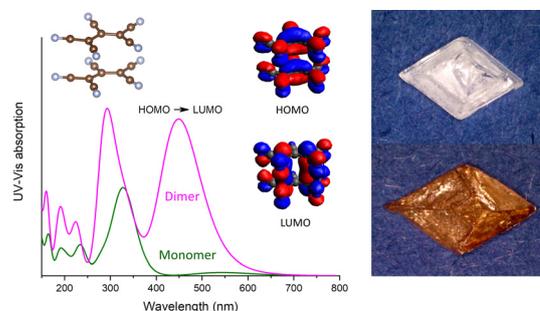
C. E. Secu, C. Bartha and M. Secu*



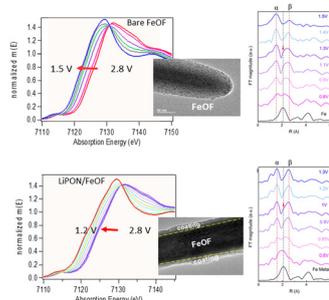
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Hanen Mechi, Arthur Mantel, Vipin Mishra, Yuto Urano, Ryo Kitaura and Hidetsugu Shiozawa*



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Haotian Wang, Binh Hoang, Feng Wang, Sz-Chian Liou, Chunsheng Wang, Gary Rubloff and Chuan-Fu Lin*

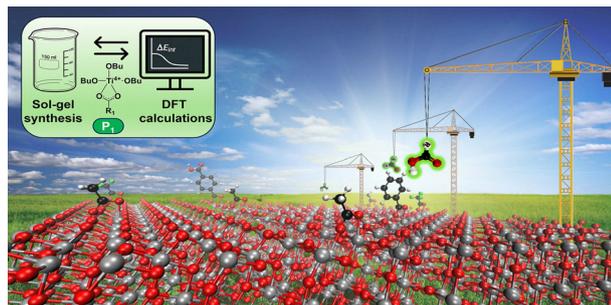
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Diogo Hideki Moriya, Cláudio Fernando de Souza Teles, Paula Mantovani dos Santos, Ademar Wong and Maria D. P. T. Sotomayor*

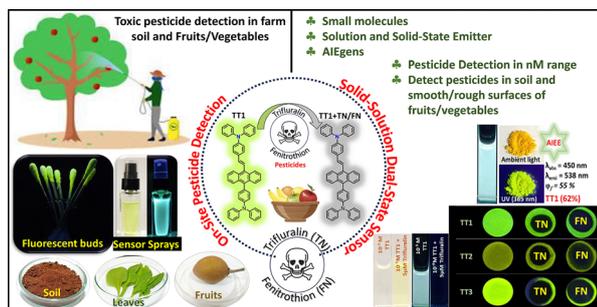
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Prediction of photocatalytic performance of TiO₂ hybrid catalysts based on the nature of the ligand: a simple theoretical model as a guide for advanced materials

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Efficient dual-phase visual detection of pesticides in real samples with electron-rich emitters carrying multiple twists

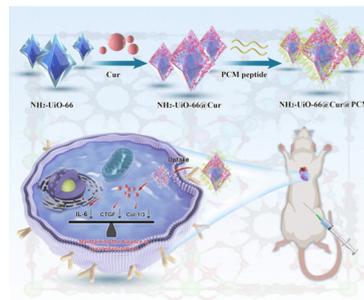
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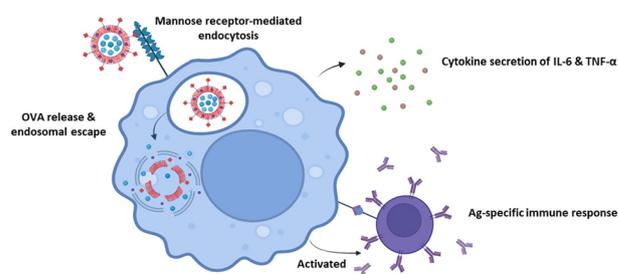
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Mannose-decorated polymersomes loaded with antigens and TLR7/8 agonists targeting antigen-presenting cells for enhancing vaccine efficacy

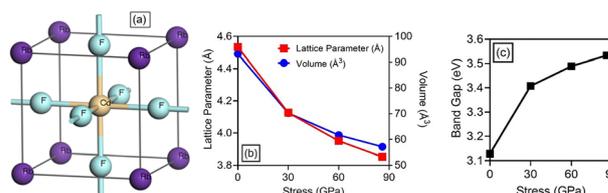
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A DFT study to evaluate the modulation in the band gap, elastic, and optical performances of RbCdF₃ under the influence of stress

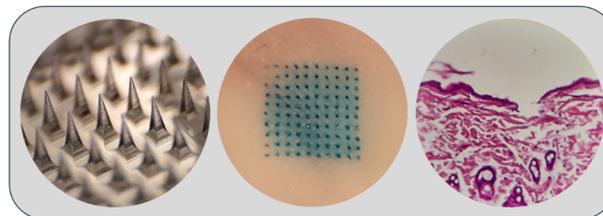
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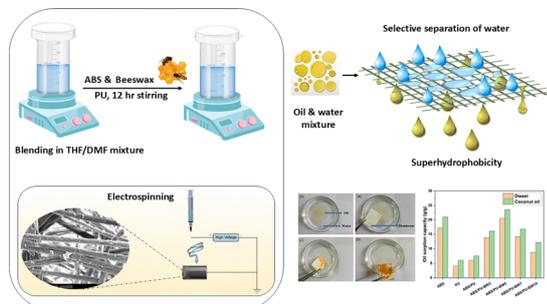
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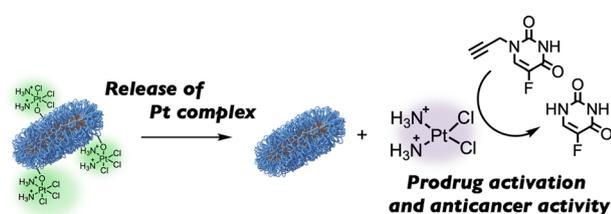
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Beeswax-modified super hydrophobic acrylonitrile butadiene styrene/polyurethane electrospun membrane for effective oil–water separation

Muhammed Shabeer, Maria Mathew, Manaf Olongal and Sujith Athiyathanil*

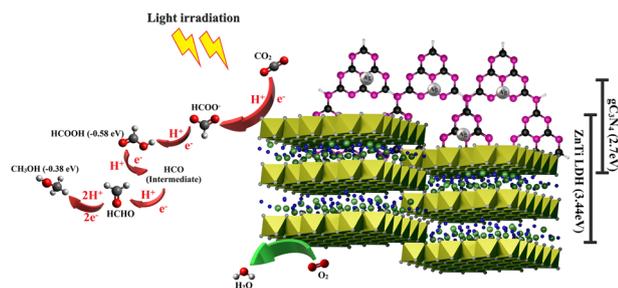
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Platinum catalyst-functionalized cylindrical graft copolymer micelles for dual catalytic and cytotoxic activity

Kyosuke Seryu, Chieri Inada and Tomoki Nishimura*

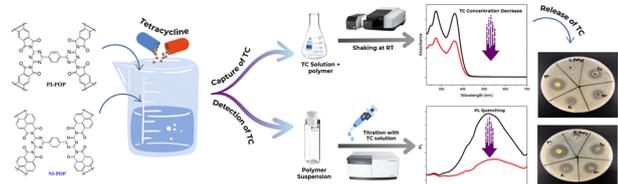
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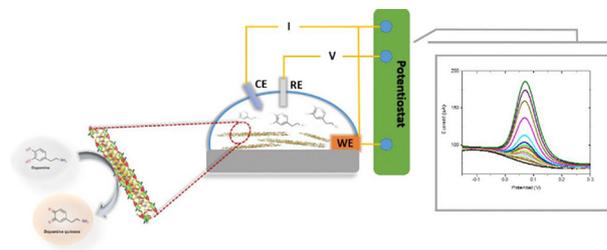
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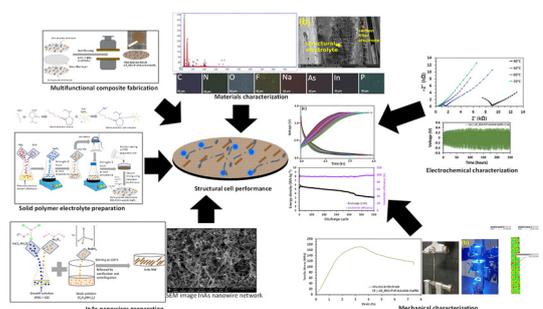
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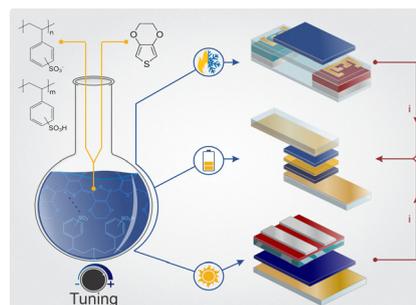
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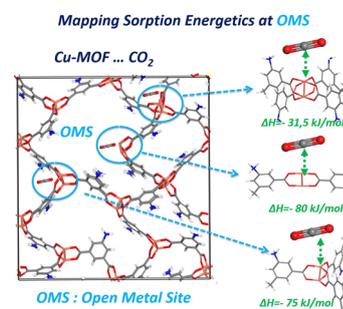
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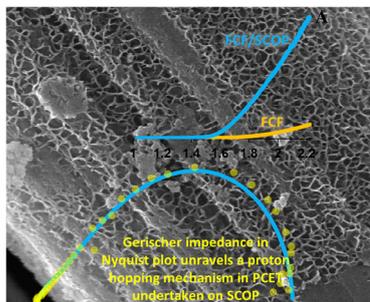
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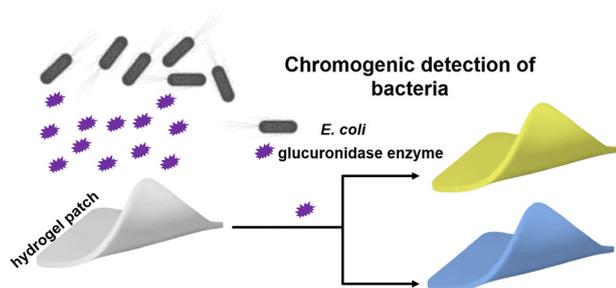
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3D honeycomb porous sulfonated covalent organic polymer (PCOP) synthesized on carbon fabric at refrigerated temperature: supercapacitor and metal-free proton relay for water oxidation in alkaline and neutral media

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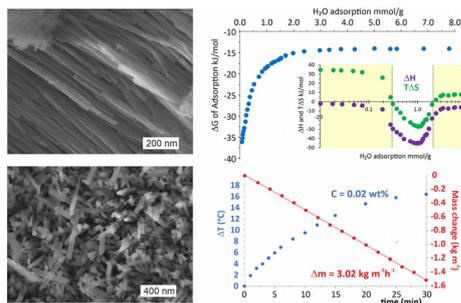
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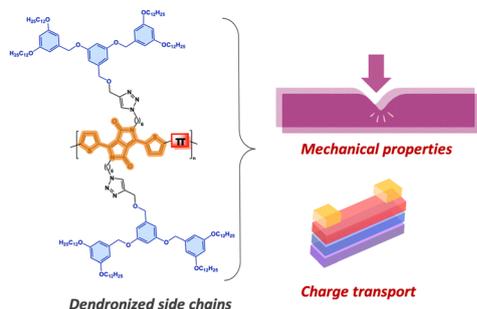
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Deciphering the mechanism of water interaction with nanostructural copper oxide: going beyond superwetting

Julia Moszczyńska, Xinying Liu, Yali Yao and
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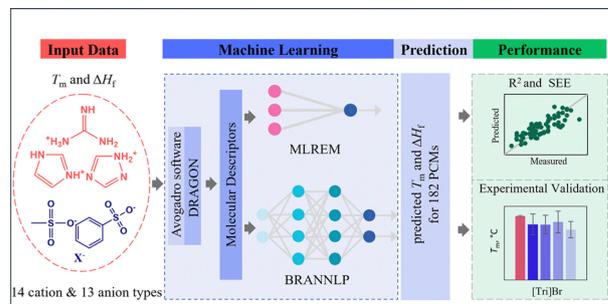
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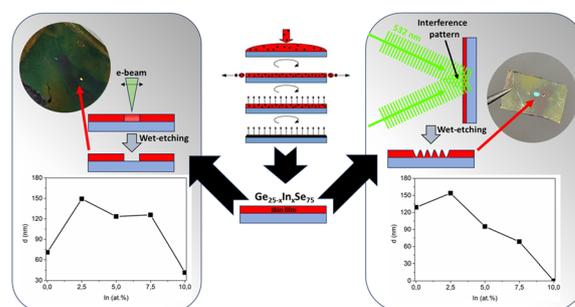
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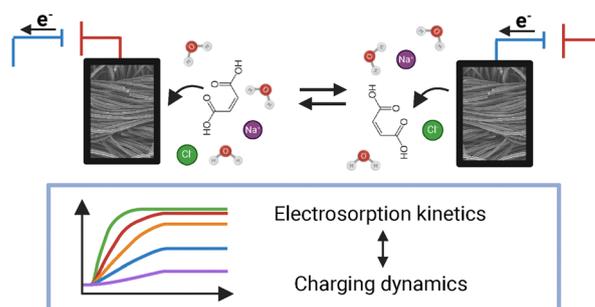
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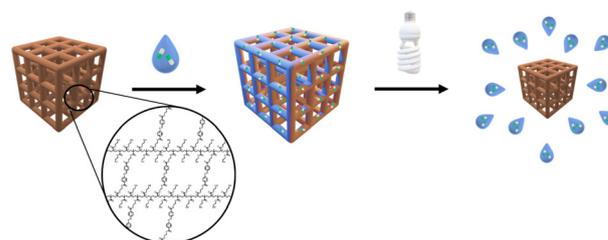
Dennis Röcker, Fabian Biebl, Lisa Meier, Sebastian Patrick Schwaminger, Paula Fraga-García* and Sonja Berensmeier*



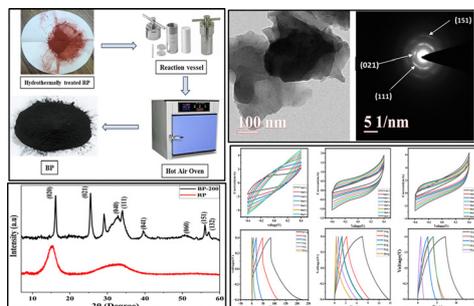
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Shahbaz Ahmad and Mohd Zubair Ansari*

