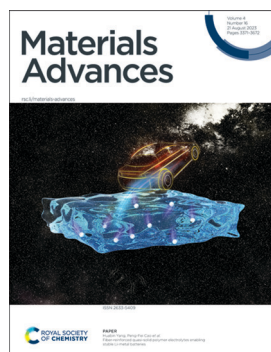
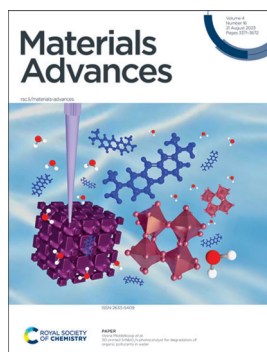


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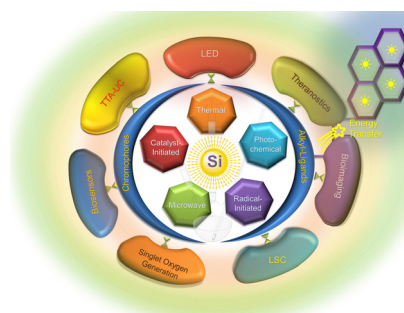
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Silicon quantum dots: surface matter, what next?

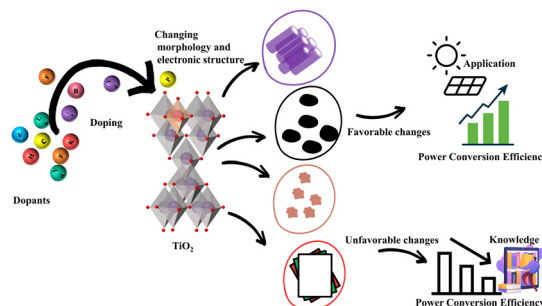
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Quantitative framework development for understanding the relationship between doping and photoelectrochemical energy conversion of TiO_2

Aparna Markose, Debanita Das and Prasanth Ravindran*



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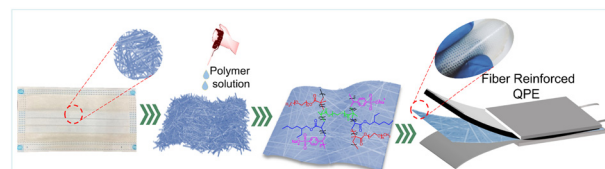
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Fiber-reinforced quasi-solid polymer electrolytes enabling stable Li-metal batteries

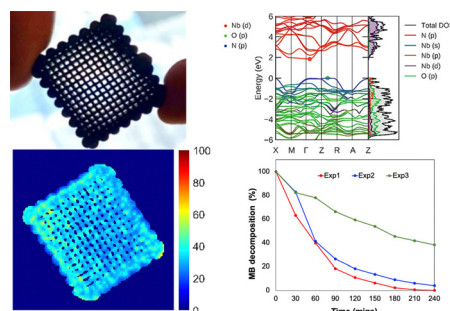
Shilun Gao, Youjia Zhang, Mengxiang Ma, Zhenxi Li, Zongxue Sun, Ming Tian, Huabin Yang* and Peng-Fei Cao*



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3D printed SrNbO₂N photocatalyst for degradation of organic pollutants in water

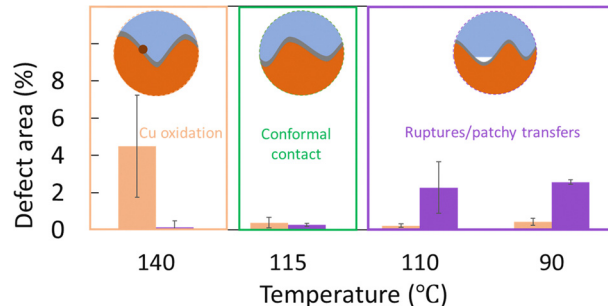
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The parameter space for scalable integration of atomically thin graphene with Nafion for proton exchange membrane (PEM) applications

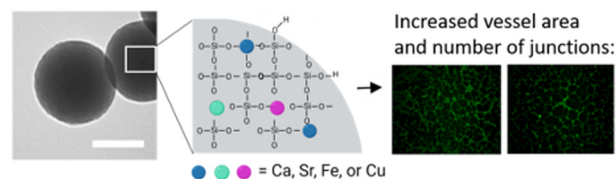
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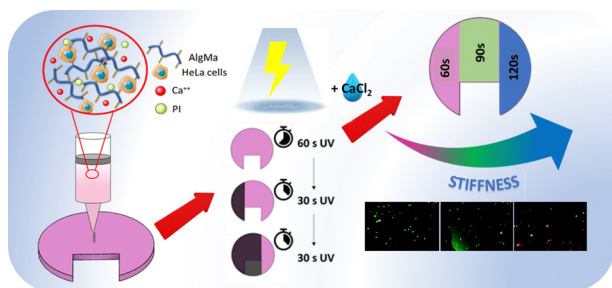
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Laser-based ion doping is a suitable alternative to dope biologically active ions into colloidal bioglass nanoparticles

Pichaporn Sutthavas, Matthias Schumacher, Martyna Nikody, Vijayanthi Ramesh, Jurij Jakobi, Elizabeth R. Balmayor, Pamela Habibovic, Christoph Rehbock, Stephan Barcikowski* and Sabine van Rijt*



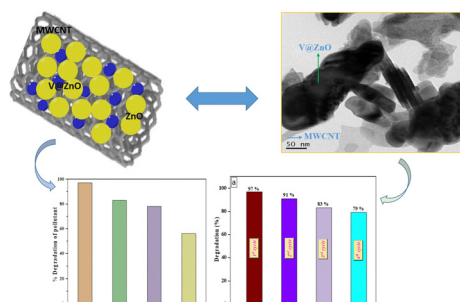
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Development of a tissue construct with spatially controllable stiffness via a one-step 3D bioprinting and dual-crosslinking process

Giorgia Pagnotta, Maila Beconi, Marco Malferrari, Donatella Aiello, Anna Napoli, Luana Di Lisa, Stefano Grilli, Stefania Rapino* and Maria Letizia Focarete*

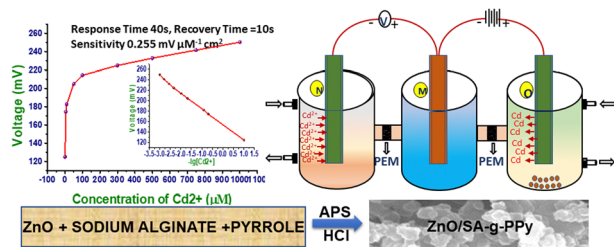
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A comparative study on the photo-removal of a few selected priority organic pollutants in aqueous suspension using vanadium-doped-ZnO/MWCNT

Mohtaram Danish, Ziyaur Rasool, Haider Iqbal, Reesha Fatima, Shubham Kumar and Mohammad Muneer*

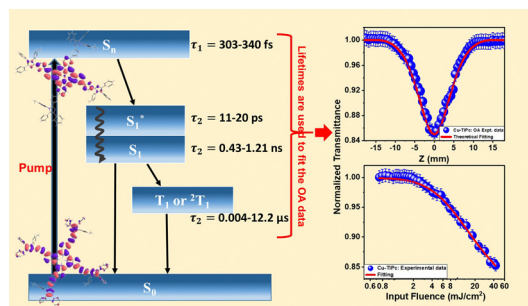
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Potential mediated electrochemical recycling and sensing of cadmium ions in wastewater over ZnO/SA-g-PPy biocomposite

Sandeep Verma, Ashok K. Sharma* and Saroj K. Shukla*

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Novel metallated imidazole phthalocyanines: synthesis, ultrafast excited-state carrier dynamics and multiphoton absorption properties

Md Soif Ahmed, Kalavala Shivaprakash Srivishnu, Chinmoy Biswas, Dipanjan Banerjee, Prabhakar Chetti, Venugopal Rao Soma, Lingamallu Giribabu* and Sai Santosh Kumar Raavi*

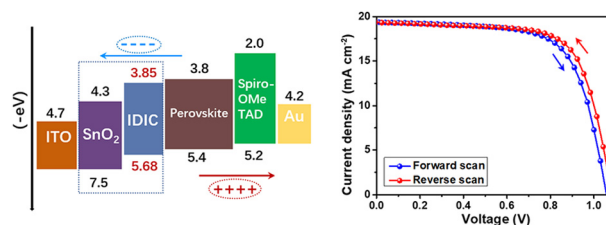


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High-performance Ruddlesden–Popper two-dimensional perovskite solar cells using integrated electron transport materials of tin oxide and indacenodithiophene

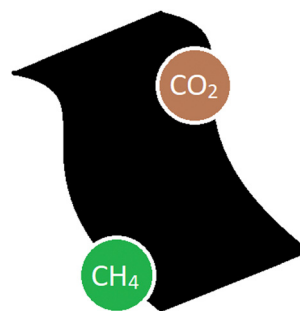
Zhihai Liu, Lei Wang, Hao Zhao, Yibin Wei, Xiaoyin Xie* and Ping Chen*



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A simple, sustainable route to flexible microporous carbon cloth for energy storage applications

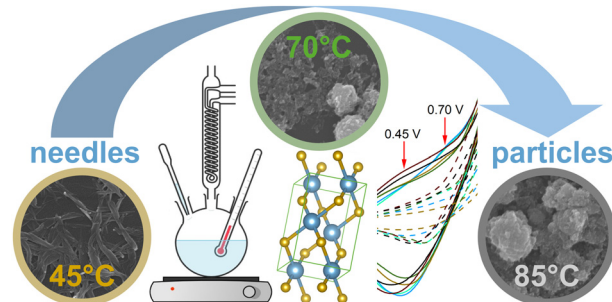
Thria Alkhaldi, L. Scott Blankenship and Robert Mokaya*



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Temperature-modulated solution-based synthesis of copper oxide nanostructures for glucose sensing

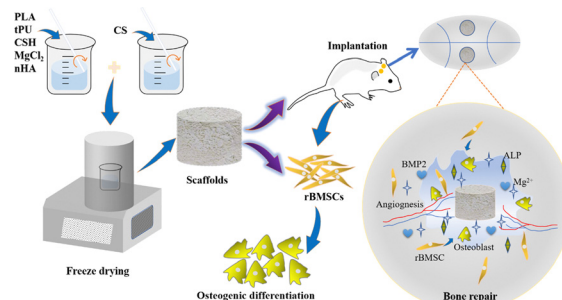
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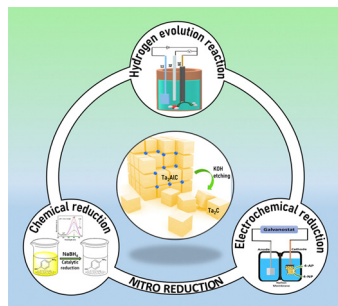
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A PLA-tPU based magnesium ion incorporated CSH/nHA bioactive porous composite scaffold for critical bone defect repair

Zhi Shi, Guobin Huang, Zhongming Li, Zhenkai Lou, Zhiqiang Gong, Xin Wang, Chengyong Li* and Bing Wang*



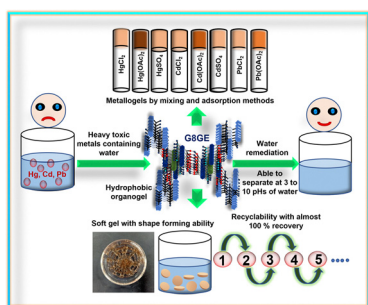
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Fluorine-free synthesized tantalum carbide (Ta₂C Mxene) as an efficient electrocatalyst for water reduction and nitro compound reduction

Aathilingam Vijayaprabakaran and
Murugavel Kathiresan*

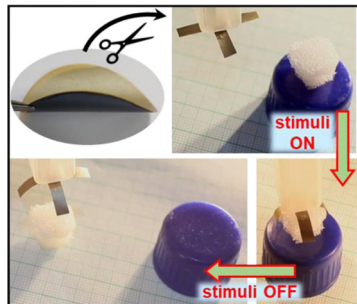
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Design and synthesis of hydrophobic mixed organogels with complementary hydrogen-bond donor-acceptor sites: removal of heavy metal ions Hg²⁺, Cd²⁺ and Pb²⁺ from aqueous solution

Reena Kyarikwal, Ritika Munjal, Probal Nag,
Sivaranjana Reddy Vennapusa and
Suman Mukhopadhyay*

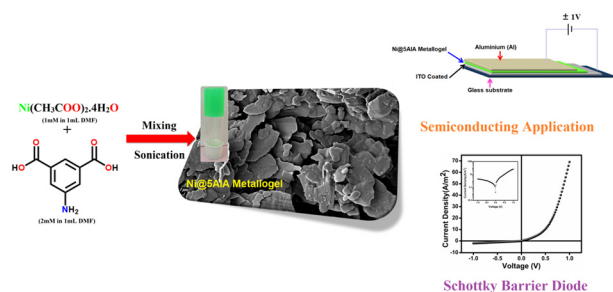
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Light and solvent-driven actuator of clay and vanadium pentoxide nanosheets

Partha Pratim Saikia, Priyanku Garg, Kiran Mayawad,
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Bhaskar Jyoti Sarmah, Kalyan Raidongia and
Raj Kumar Gogoi*

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A semiconducting supramolecular novel Ni(II)-metallogel derived from 5-aminoisophthalic acid low molecular weight gelator: an efficient Schottky barrier diode application

Baishakhi Pal, Subhendu Dhibar,* Ritam Mukherjee,
Subham Bhattacharjee, Partha Pratim Ray* and
Bidyut Saha*

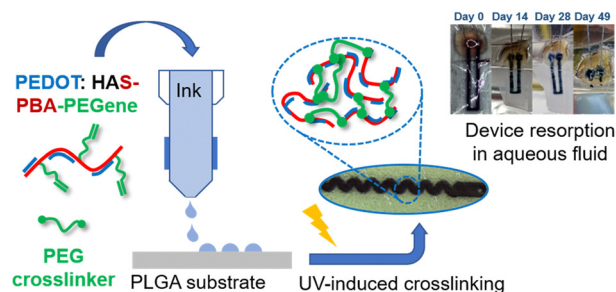


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A cross-linkable and resorbable PEDOT-based ink using a hyaluronic acid derivative as dopant for flexible bioelectronic devices

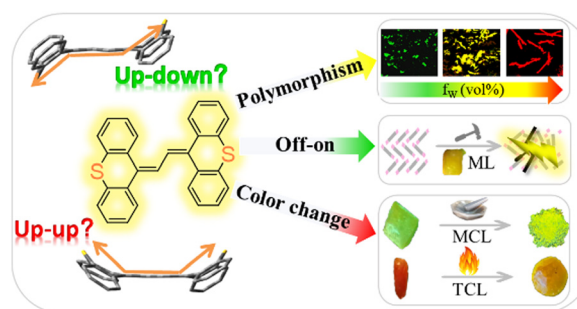
Maxime Leprince, Simon Regal, Pascal Mailley, Fabien Sauter-Starace, Isabelle Texier* and Rachel Auzély-Velty



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Mechanochromic, thermoresponsive and triboluminescence behaviors of one divinyl thioxanthene based AIE luminogen with variable conformations

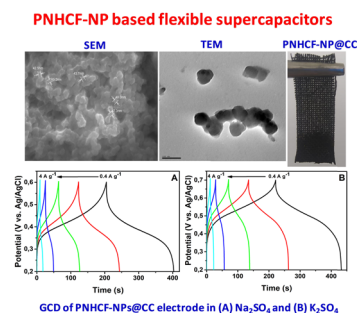
Nengni Xu, Wenhua Xu, Meng Sun, Yi Yuan, Xinjun Luan,* Ying Wang and Hui Wang*



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High-performance flexible supercapacitors based on potassium nickel(II) hexacyanoferrates(III) nanoparticles on carbon cloth as an electrode material

L. M. Samyn, T. S. Lessa, R. Suresh Babu,* A. Kalaivani, T. M. Barbosa and A. L. F. de Barros



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Yuliya Yapontseva, Valeriy Kublanovsky,* Tetyana Maltseva, Yuri Troshchenkov and Oleksii Vyshnevskyi

