

Materials Advances

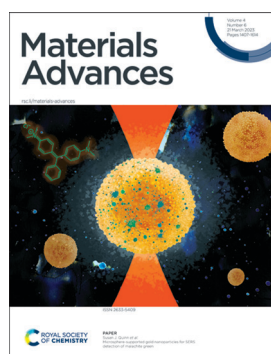
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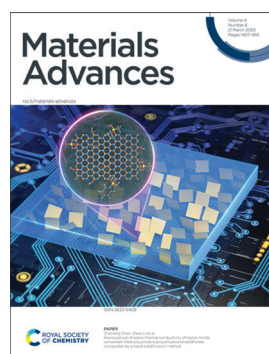
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See Susan J. Quinn *et al.*, pp. 1481–1489. Image reproduced by permission of Helen Towrie.



Inside cover

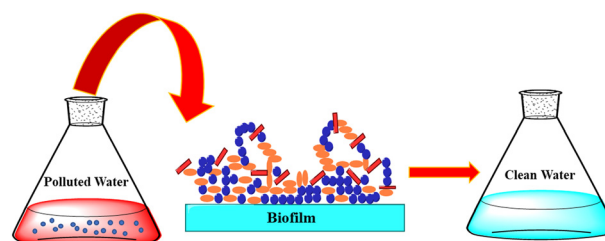
See Zhenxing Chen, Ziwei Li, *et al.*, pp. 1490–1501. Image reproduced by permission of Zhenxing Chen and Qingchong Xu from *Mater. Adv.*, 2023, 4, 1490.

REVIEWS

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Biofilm-mediated wastewater treatment: a comprehensive review

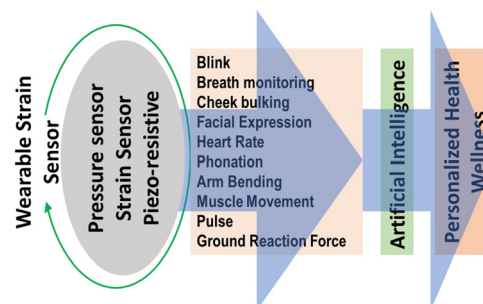
Sonia Saini, Sanjana Tewari, Jaya Dwivedi* and Vivek Sharma*



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Wearable strain sensors: state-of-the-art and future applications

Ashish Yadav,* Neha Yadav, Yongling Wu, Seeram RamaKrishna and Zheng Hongyu



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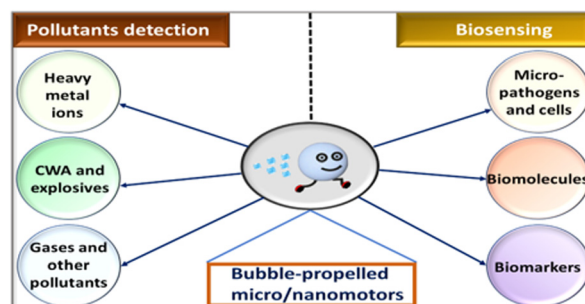


REVIEWS

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Bubble-propelled micro/nanomotors: a robust platform for the detection of environmental pollutants and biosensing

Suvendu Kumar Panda, Nomaan Alam Kherani, Srikanta Debata and Dhruv Pratap Singh*

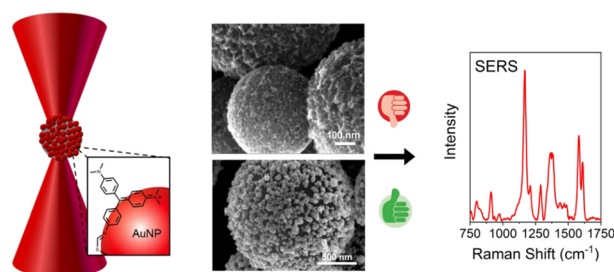


PAPERS

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Microsphere-supported gold nanoparticles for SERS detection of malachite green

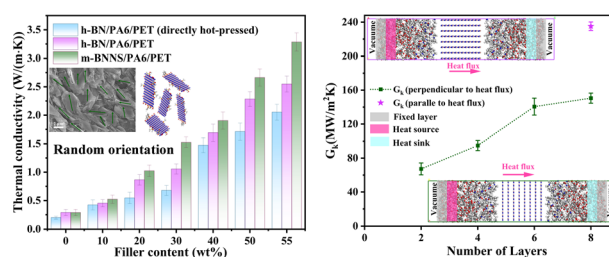
David T. Hinds, Samir A. Belhout, Paula E. Colavita, Andrew D. Ward and Susan J. Quinn*



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Improved out-of-plane thermal conductivity of boron nitride nanosheet-filled polyamide 6/polyethylene terephthalate composites by a rapid solidification method

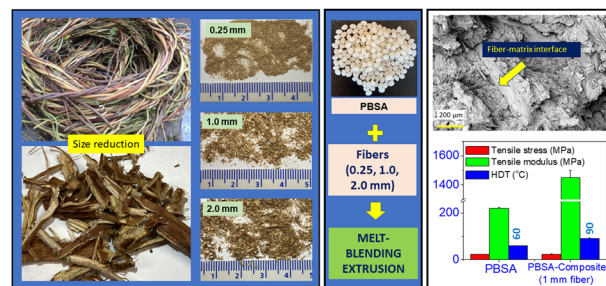
Qingchong Xu, Zhenxing Chen,* Xinxin Li, Jiaxin Hu, Yanling Liao, Yongfeng Liu, Long Li, Shiyang Wei and Ziwei Li*



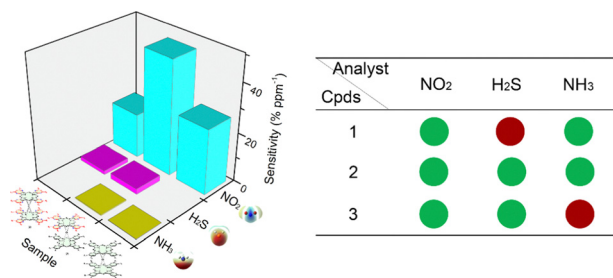
1502

Hop natural fiber-reinforced poly(butylene succinate-co-butylene adipate) (PBSA) biodegradable plastics: effect of fiber length on the performance of biocomposites

Nicole Harder, Arturo Rodriguez-Urbe, Michael R. Snowdon, Manjusri Misra* and Amar K. Mohanty



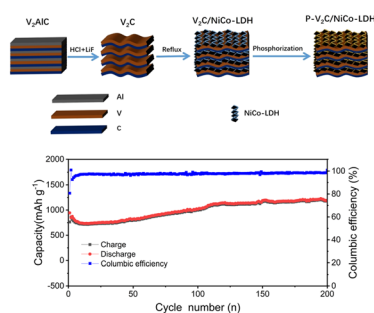
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Discrimination and detection of NO₂, NH₃ and H₂S using sensor array based on three ambipolar sandwich tetradiazepinoporphyrazinato/phthalocyaninato europium double-decker complexes

Xia Kong, Ekaterina N. Tarakanova, Xiaoli Du, Larisa G. Tomilova and Yanli Chen*

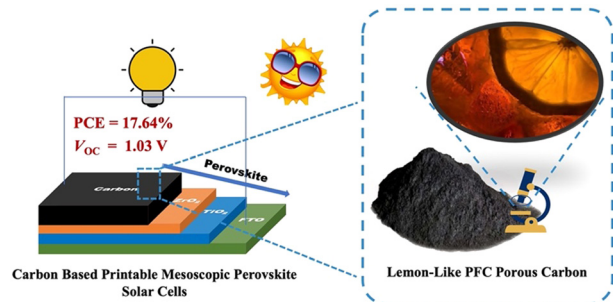
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Constructing P-doped self-assembled V₂C MXene/NiCo-layered double hydroxide hybrids toward advanced lithium storage

Xi Guo, Li Li,* Shuo Wang, Jian Shen, Yanan Xu* and Bingqiang Cao

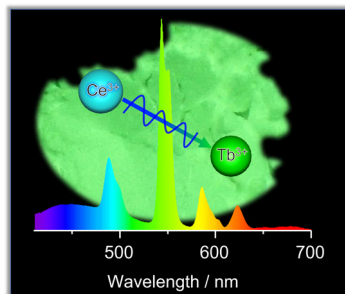
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EtOH/H₂O ratio modulation on carbon for high-V_{oc} (1.03 V) printable mesoscopic perovskite solar cells without any passivation

Jie Sheng, Xiaotian Zhu, Xiaoli Xu, Jingshan He, Dun Ma, Jialing Liu and Wenjun Wu*

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Near ultraviolet light excitable highly efficient blue-green multicolour warwickite phosphor, ScCaO(BO₃):Ce³⁺, Tb³⁺

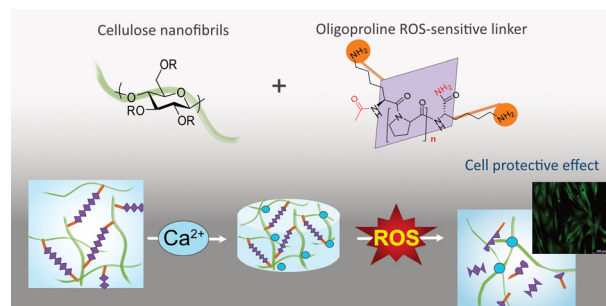
Masato Iwaki,* Haruto Sato, Mizuki Watanabe,* Kazuyoshi Uematsu, Mineo Sato and Kenji Toda



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Functionalization of cellulose nanofibrils to develop novel ROS-sensitive biomaterials

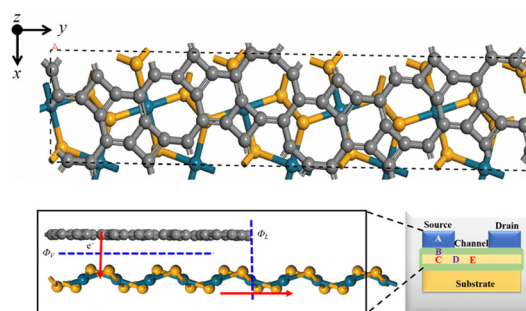
Carlos Palo-Nieto,* Anna Blasi-Romero, Corine Sandström, David Balgoma, Mikael Hedeland, Maria Strømme and Natalia Ferraz*



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The electronic and interfacial properties of a vdW heterostructure composed of penta-PdSe₂ and biphenylene monolayers

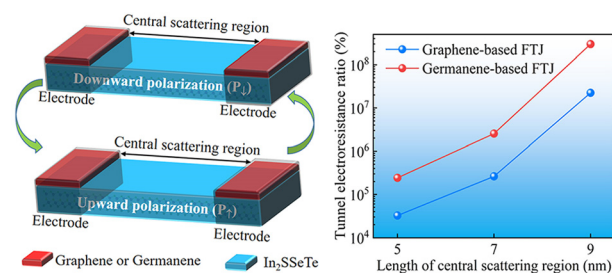
Muhammad Azhar Nazir, Yiheng Shen, Arzoo Hassan and Qian Wang*



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The giant tunneling electroresistance effect in monolayer In₂SSeTe-based lateral ferroelectric tunnel junctions

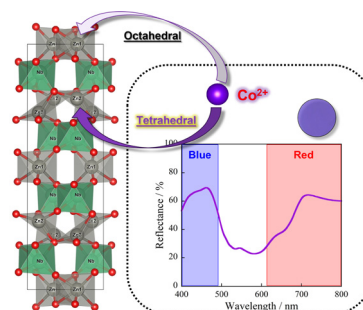
Zhou Cui, Ting Li, Rui Xiong, Cuilian Wen,* Yinggan Zhang, Jingying Zheng, Bo Wu and Baisheng Sa*



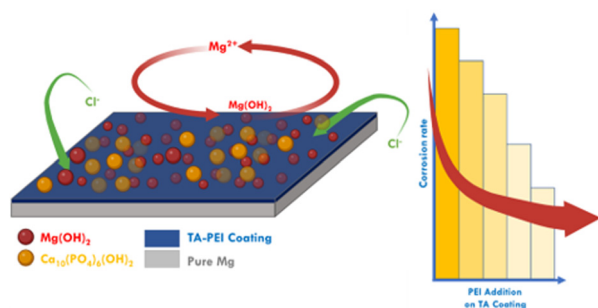
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A novel inorganic violet pigment based on zinc niobate

Kazuki Ohnishi, Ryohei Oka,* Yuga Nomura and Toshiyuki Masui*



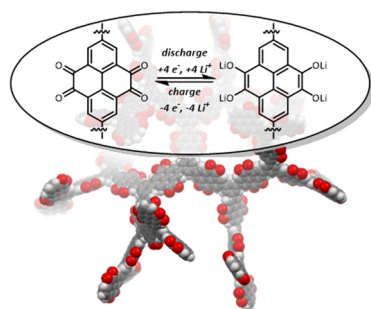
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Improving magnesium's corrosion resistance through tannic acid–polyethyleneimine coatings for bioresorbable implant applications

Daniel, Michael Leonardo, Safira Meidina Nursatya, Anggraini Barlian, Ekavianity Prajateljista* and Hermawan Judawisastra*

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Redox-active, porous pyrene tetraone dendritic polymers as cathode materials for lithium-ion batteries

Lucas Ueberricke, Felix Mildner, Yuquan Wu, Elisa Thauer, Tom Wickenhäuser, Wen-Shan Zhang, Yana Vaynzof, Sven M. Elbert, Rasmus R. Schröder, Rüdiger Klingeler* and Michael Mastalerz*

