

Materials Advances

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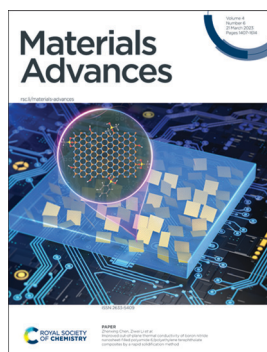
IN THIS ISSUE

ISSN 2633-5409 CODEN MAADC9 4(6) 1407-1614 (2023)



Cover

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Inside cover

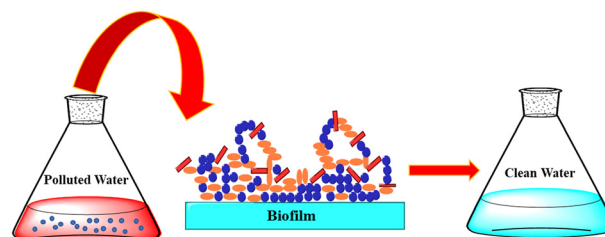
See Zhenxing Chen, Ziwei Li, *et al.*, pp. 1490–1501. Image reproduced by permission of Zhenxing Chen and Qingchong Xu from *Mater. Adv.*, 2023, 4, 1490.

REVIEWS

1415

Biofilm-mediated wastewater treatment: a comprehensive review

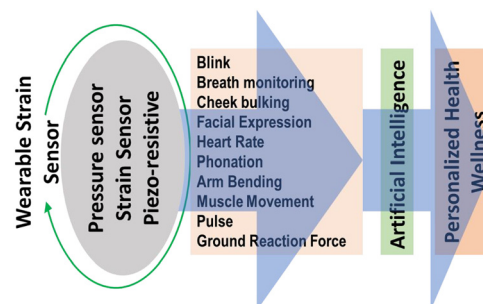
Sonia Saini, Sanjana Tewari, Jaya Dwivedi* and Vivek Sharma*



1444

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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Materials Advances (electronic: ISSN 2633-5409) is published 24 times a year by the Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, UK CB4 0WF.

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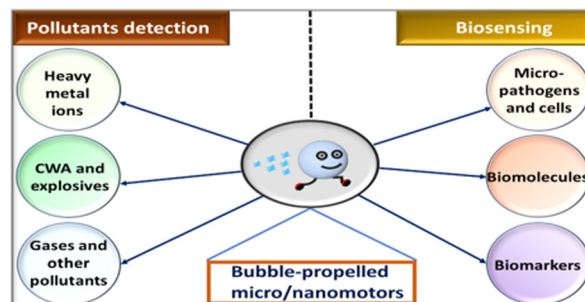


REVIEWS

1460

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*

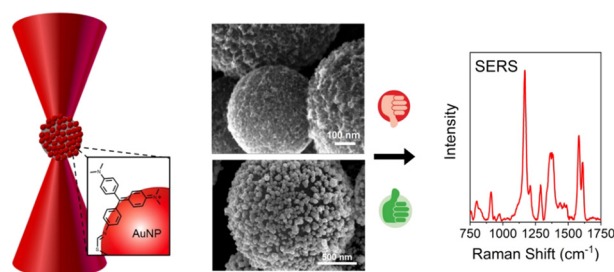


PAPERS

1481

Microsphere-supported gold nanoparticles for SERS detection of malachite green

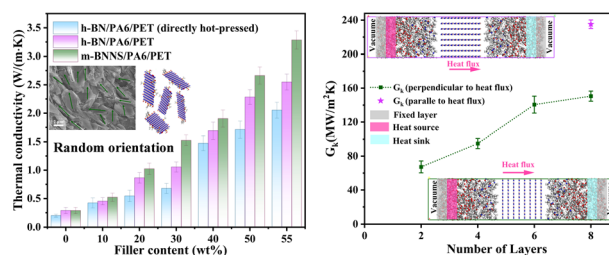
David T. Hinds, Samir A. Belhout, Paula E. Colavita, Andrew D. Ward and Susan J. Quinn*



1490

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

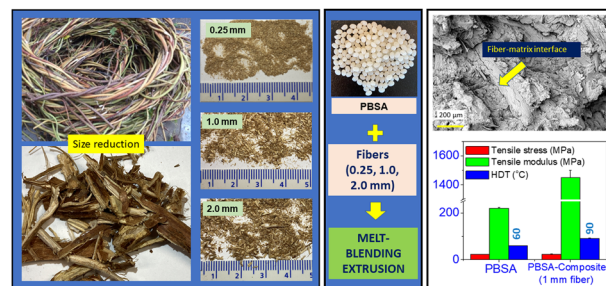
Qingchong Xu, Zhenxing Chen,* Xinxin Li, Jiaxin Hu, Yanling Liao, Yongfeng Liu, Long Li, Shiyang Wei and Ziwei Li*



1502

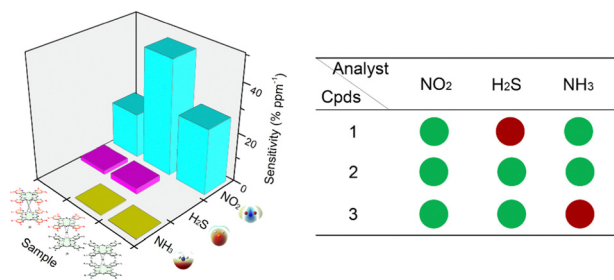
Hop natural fiber-reinforced poly(butylene succinate-co-butylene adipate) (PBSA) biodegradable plastics: effect of fiber length on the performance of biocomposites

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



PAPERS

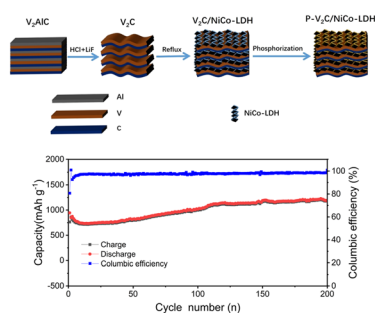
1515



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*

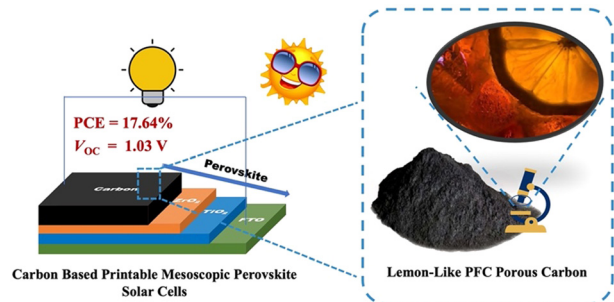
1523



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

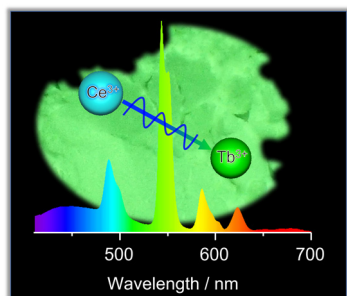
1534



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*

1546



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

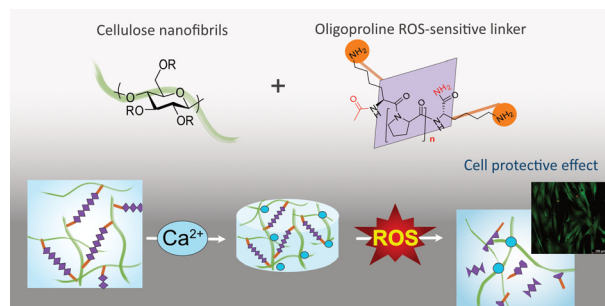


PAPERS

1555

Functionalization of cellulose nanofibrils to develop novel ROS-sensitive biomaterials

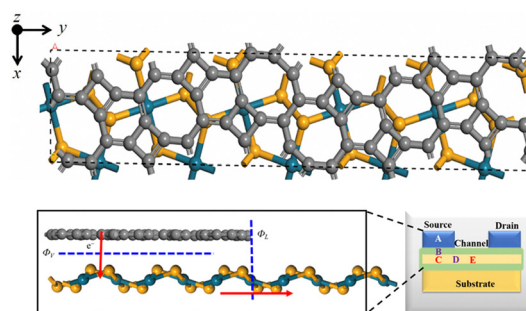
Carlos Palo-Nieto,* Anna Blasi-Romero, Corine Sandström, David Balgoma, Mikael Hedeland, Maria Strømme and Natalia Ferraz*



1566

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

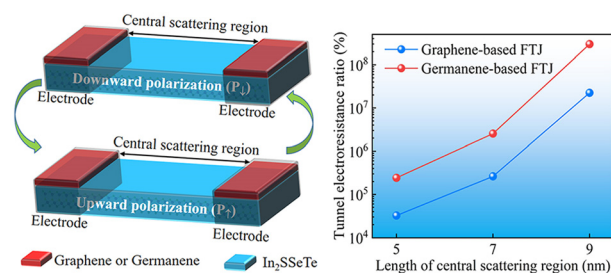
Muhammad Azhar Nazir, Yiheng Shen, Arzoo Hassan and Qian Wang*



1572

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

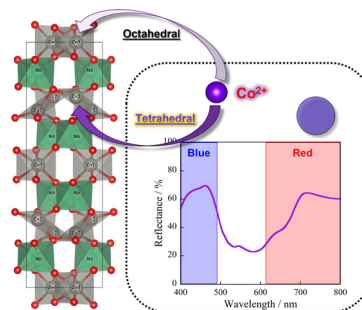
Zhou Cui, Ting Li, Rui Xiong, Cuilian Wen,* Yinggan Zhang, Jingying Zheng, Bo Wu and Baisheng Sa*



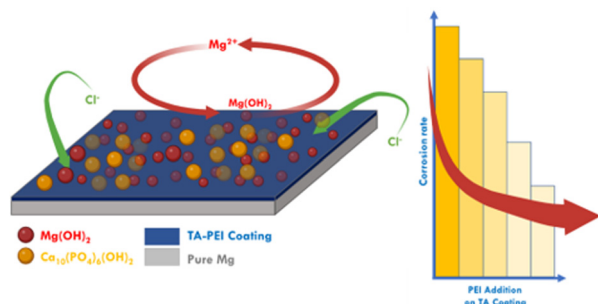
1583

A novel inorganic violet pigment based on zinc niobate

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



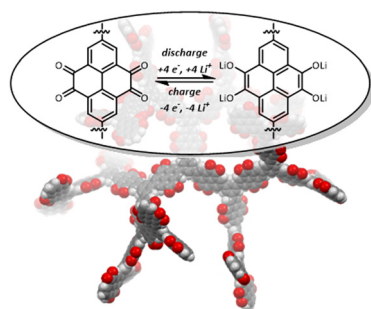
1590



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

Daniel, Michael Leonardo, Safira Meidina Nursatya, Anggraini Barlian, Ekavianty Prajatelitia* and Hermawan Judawisastra*

1604



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*

