

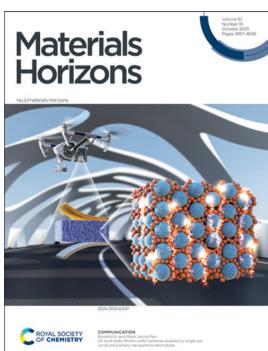
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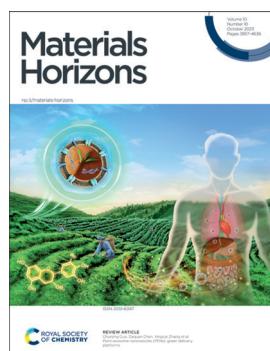
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Materials Horizons (electronic):
ISSN 2051-6355) is published 12 times a year by
the Royal Society of Chemistry, Thomas Graham House,
Science Park, Milton Road, Cambridge, UK CB4 0WF.

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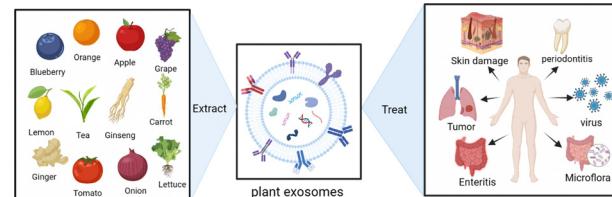


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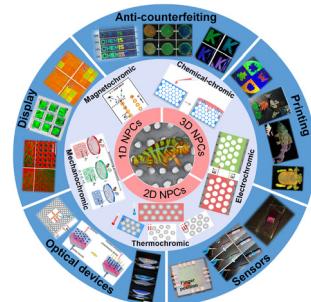
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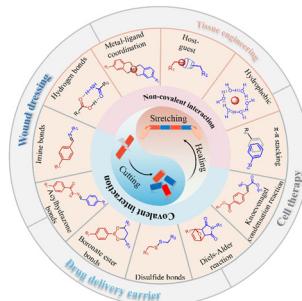
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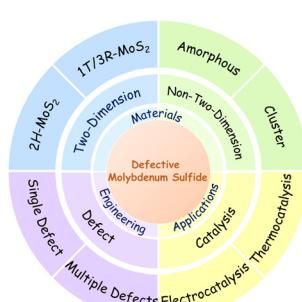
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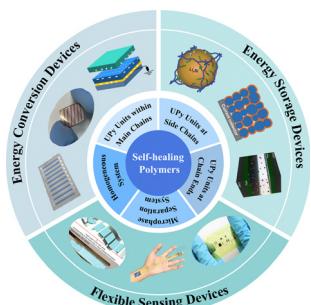
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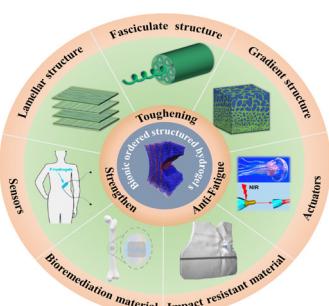
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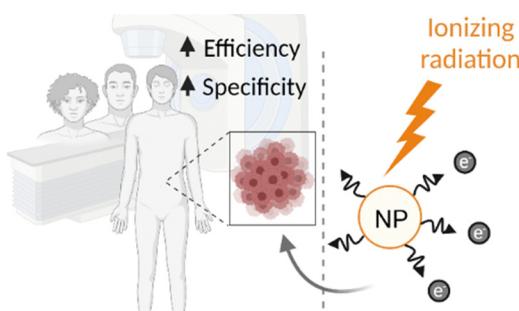
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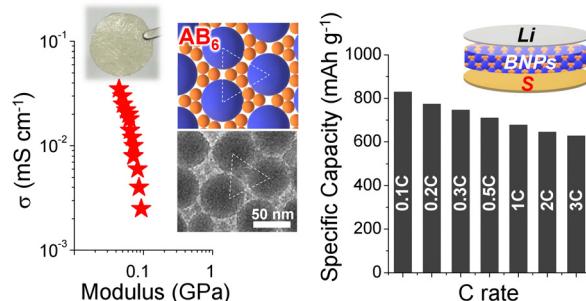


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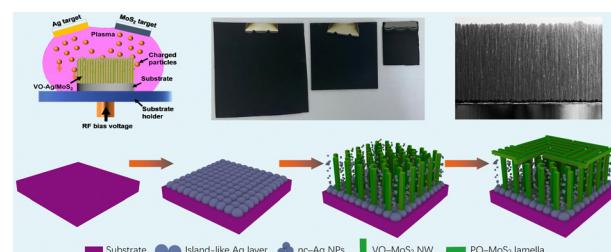
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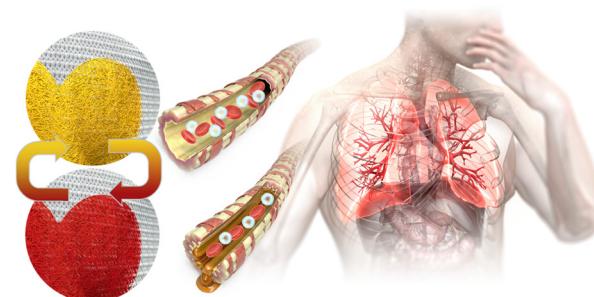
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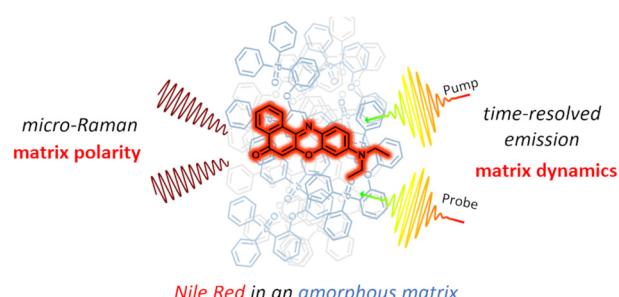
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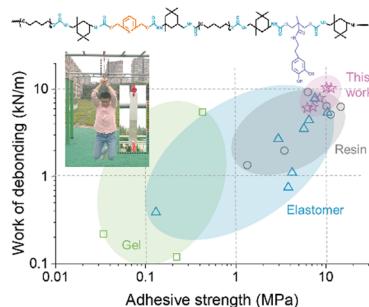
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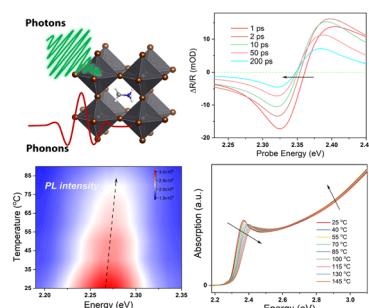


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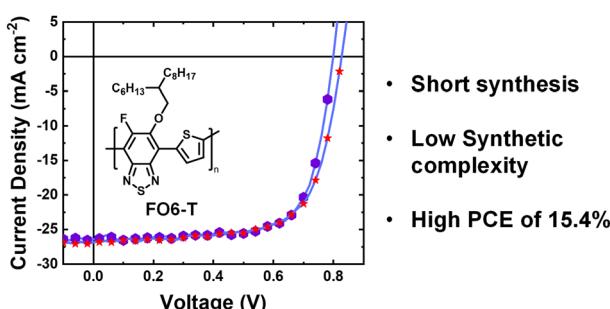
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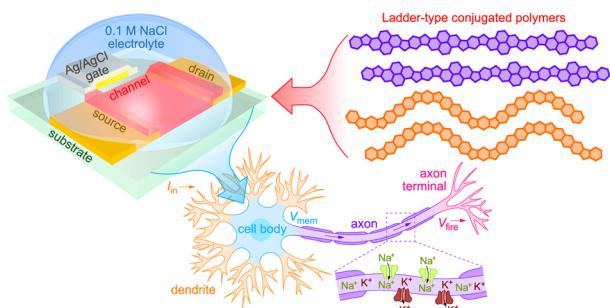
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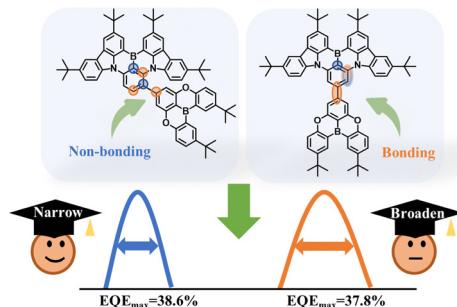


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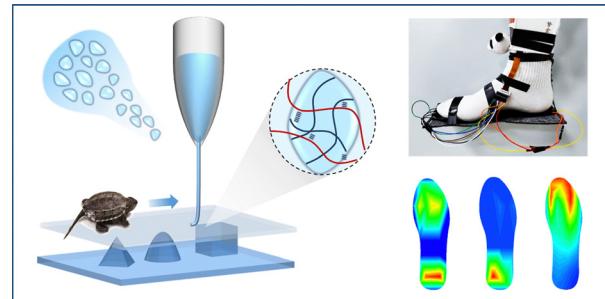
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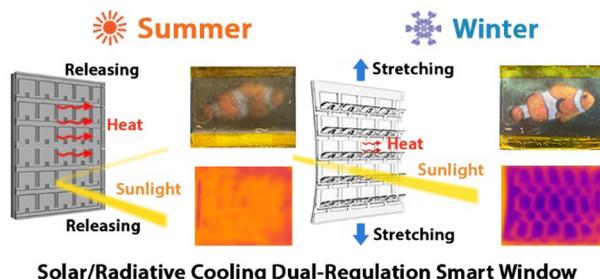
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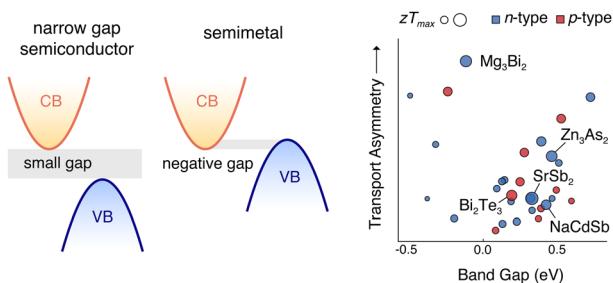
Inclination of polarized illumination increases symmetry of structures grown via inorganic phototropism

Madeline C. Meier, Nathan S. Lewis* and Azhar I. Carim*



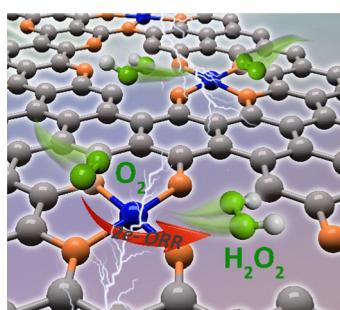
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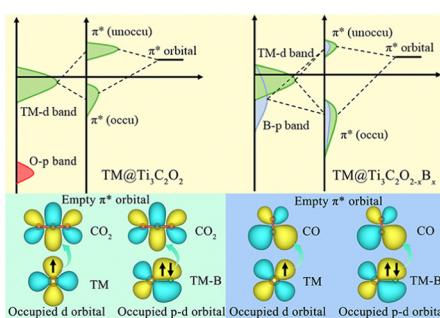
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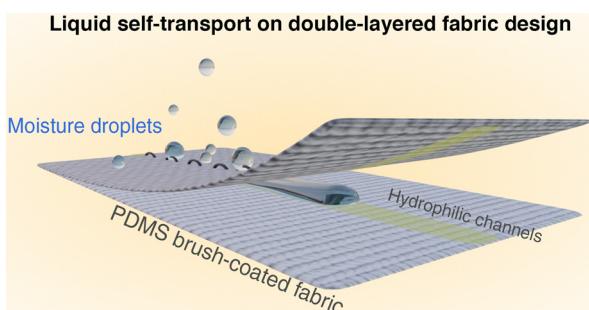
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Mohammad Soltani, Sudip Kumar Lahiri, Sadaf Shabanian and Kevin Golovin*

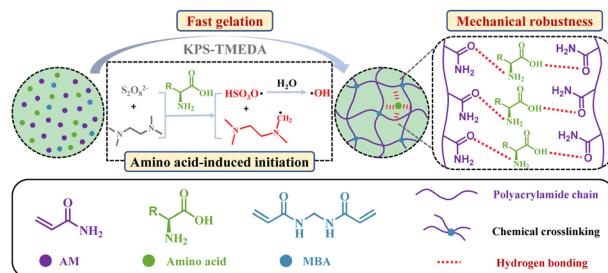


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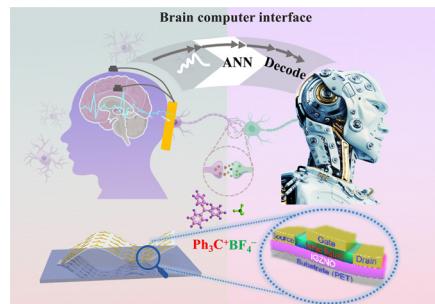
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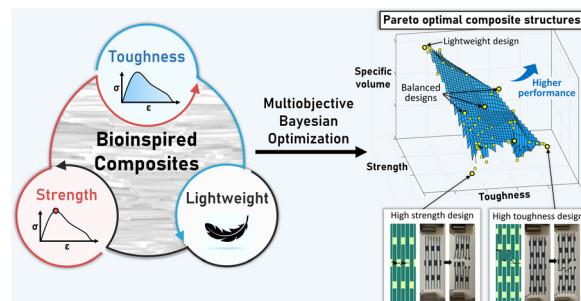
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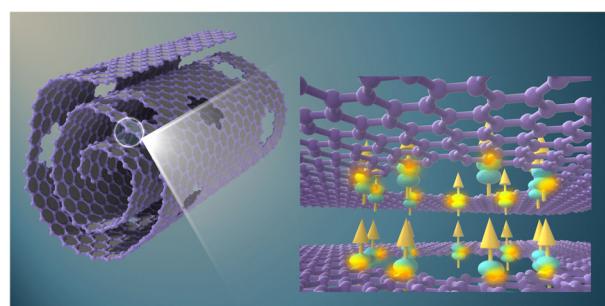
Kundo Park, Chihyeon Song, Jinkyoo Park and Seunghwa Ryu*



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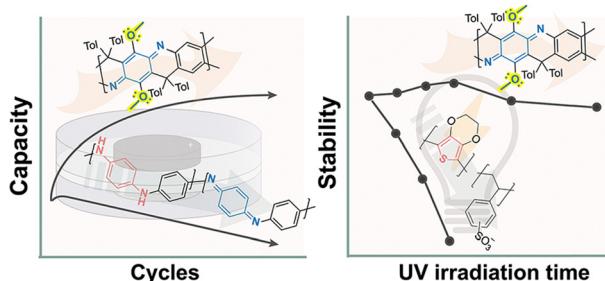
Scrolling reduced graphene oxides to induce room temperature magnetism *via* spatial coupling of defects

Ting Shi, Yuan Yao,* Yang Hong, Yang Li, Songtao Lu, Wei Qin and Xiaohong Wu*



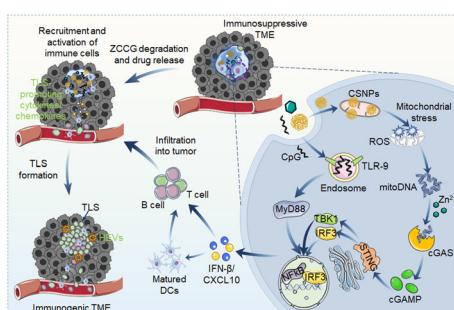
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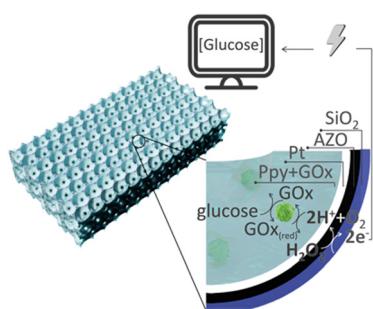
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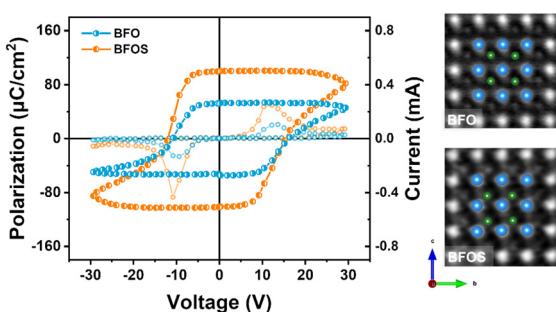
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Guoqiang Xi, Zhao Pan,* Yue-Wen Fang,* Jie Tu, Hangren Li, Qianqian Yang, Chen Liu, Huajie Luo, Jiaqi Ding, Shuai Xu, Shiqing Deng, Qingxiao Wang, Dongxing Zheng, Youwen Long, Kuijuan Jin, Xiang Zhang, Jianjun Tian and Linxing Zhang*

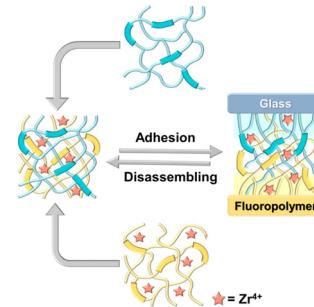


COMMUNICATIONS

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Ultrastrong bonding, on-demand debonding, and easy re-bonding of non-sticking materials enabled by reversibly interlocked macromolecular networks-based Janus-like adhesive

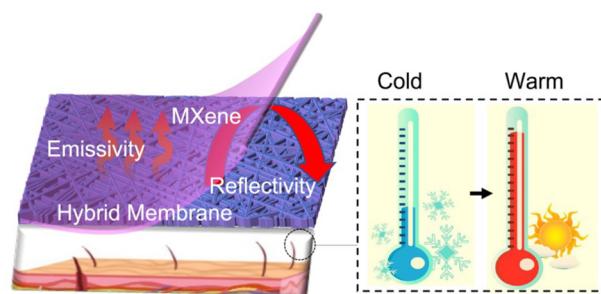
Zheng Yue Wang, Yang You, Ming Li, Min Zhi Rong* and Ming Qiu Zhang*



4407

Toward low-emissivity passive heating: a supramolecular-enhanced membrane with warmth retention

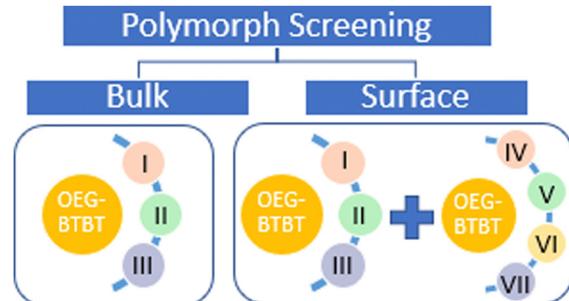
Leqi Lei, Dong Wang, Shuo Shi, Jieqiong Yang, Jing Su, Cong Wang, Yifan Si and Jinlian Hu*



4415

Polymorph screening at surfaces of a benzothienobenzothiophene derivative: discovering new solvate forms

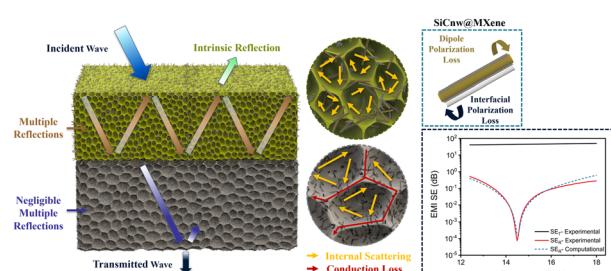
Ann Maria James, Nemo McIntosh, Félix Devaux, Patrick Brocorens, Jérôme Cornil, Alessandro Greco, Lucia Maini, Priya Pandey, Lorenzo Pandolfi, Birgit Kunert, Elisabetta Venuti, Yves Henri Geerts and Roland Resel*



4423

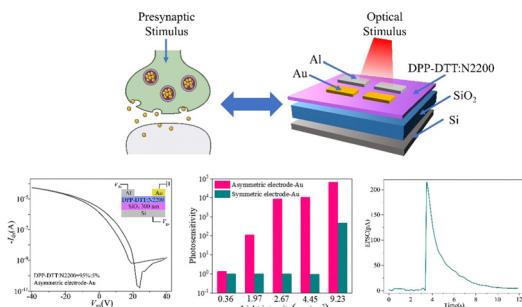
Layered polymer composite foams for broadband ultra-low reflectance EMI shielding: a computationally guided fabrication approach

Li Ma, Linfeng Wei, Mahdi Hamidinejad* and Chul B. Park*



COMMUNICATIONS

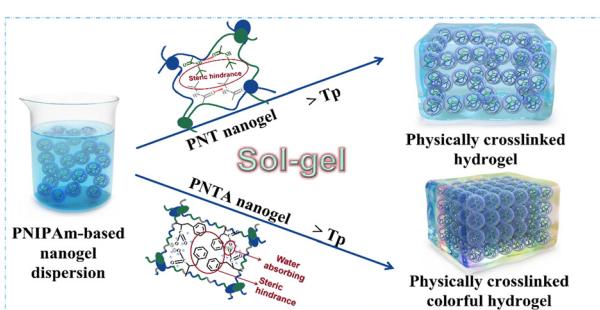
4438



High-performance asymmetric electrode structured light-stimulated synaptic transistor for artificial neural networks

Yixin Ran, Wanlong Lu, Xin Wang, Zongze Qin, Xinsu Qin, Guanyu Lu, Zhen Hu, Yuanwei Zhu, Laju Bu and Guanghao Lu*

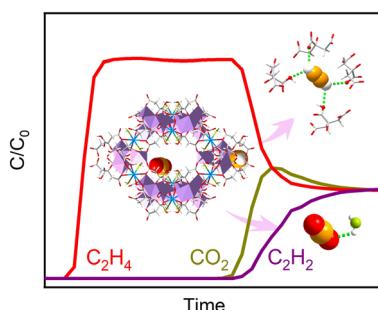
4452



Remarkable sol–gel transition of PNIPAm-based nanogels *via* large steric hindrance of side-chains

Xiaoxiao Li, Xueling Li, Tingting Xia, Wei Chen, Kenneth J. Shea and Xihua Lu*

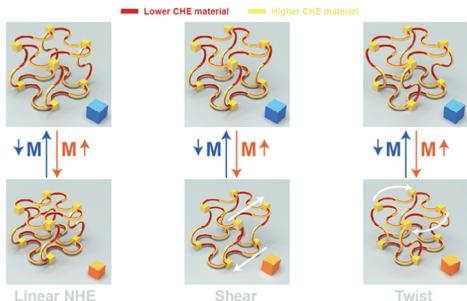
4463



One-step ethylene purification from ternary mixtures by an ultramicroporous material with synergistic binding centers

Xingye Li, Qi Ding, Jia Liu, Lihui Dong, Xingzhen Qin, Liqin Zhou, Zhenxia Zhao, Hongbing Ji, Sui Zhang* and Kungang Chai*

4470



Modular reprogrammable 3D mechanical metamaterials with unusual hygroscopic deformation modes

Yisong Bai, Chuanbao Liu,* Yang Li, Jinxu Li, Lijie Qiao, Ji Zhou and Yang Bai*

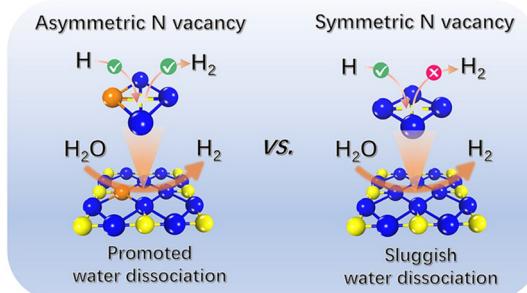


COMMUNICATIONS

4480

Symmetry or asymmetry: which one is the platform of nitrogen vacancies for alkaline hydrogen evolution

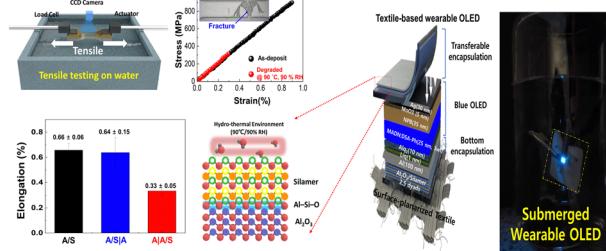
Yu Zhang, Yingxin Ma, Wenfang Yuan, Lejuan Cai,* Yang Chai and Bocheng Qiu*



4488

Study of mechanical degradation of freestanding ALD Al_2O_3 by a hydrothermal environment and a facile protective method for environmentally stable Al_2O_3 : toward highly reliable wearable OLEDs

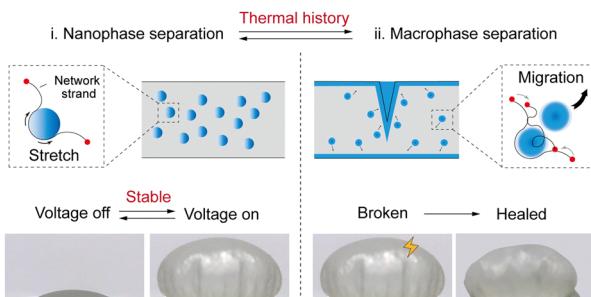
Sangmin Lee, Yongmin Jeon, Seung Jin Oh, Sun-Woo Lee, Kyung Cheol Choi,* Taek-Soo Kim* and Jeong Hyun Kwon*



4501

Composite elastomers with on-demand convertible phase separations achieve large and healable electro-actuation

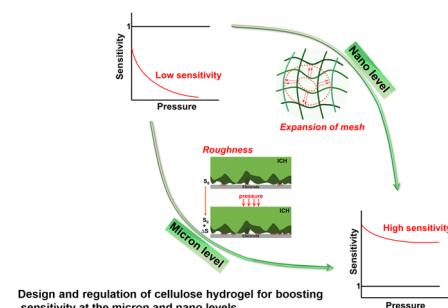
Jiali Tang, Zheqi Chen, Yiting Cai, Yang Gao, Jin He, Youhua Xiao, Jie Mao, Junjie Zhao, Xiang Gao, Tiefeng Li and Yingwu Luo*



4510

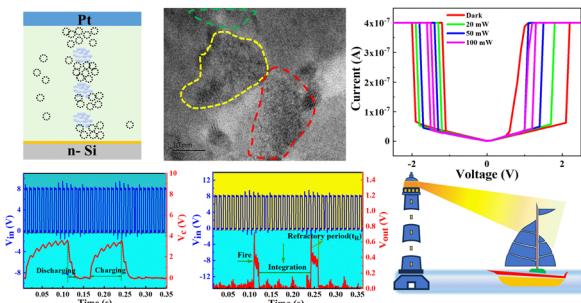
Rationally designed cellulose hydrogel for an ultrasensitive pressure sensor

Minzhang Chen, Huixiong Wan, Yang Hu, Fengyan Zhao, Xiaoni An and Ang Lu*



COMMUNICATIONS

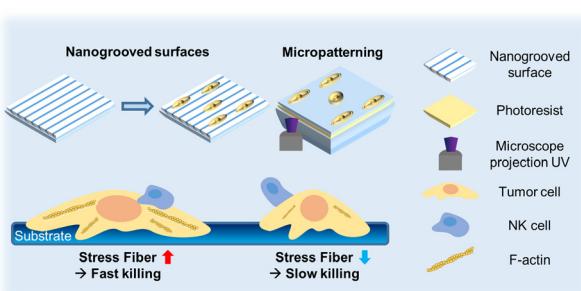
4521



Memristors based on NdNiO₃ nanocrystals film as sensory neurons for neuromorphic computing

Jianhui Zhao, Yunfeng Ran, Yifei Pei, Yiheng Wei, Jiameng Sun, Zixuan Zhang, Jiacheng Wang, Zhenyu Zhou, Zhongrong Wang, Yong Sun and Xiaobing Yan*

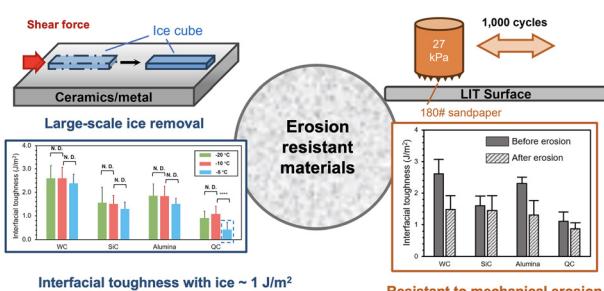
4532



Surface nanotopography and cell shape modulate tumor cell susceptibility to NK cell cytotoxicity

Yongbum Cho, JangHyuk Kim, Jeehun Park* and Junsang Doh*

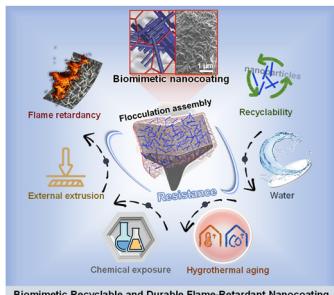
4541



Erosion-resistant materials demonstrate low interfacial toughness with ice and superior durability

Qimeng Yang, Ali Dolatabadi and Kevin Golovin*

4551



A biomimetic closed-loop recyclable, long-term durable, extreme-condition resistant, flame-retardant nanocoating synthesized by reversible flocculation assembly

Jiayan Zhang, Furong Zeng, Bowen Liu, Zihao Wang, Xincen Lin, Haibo Zhao* and Yuzhong Wang*

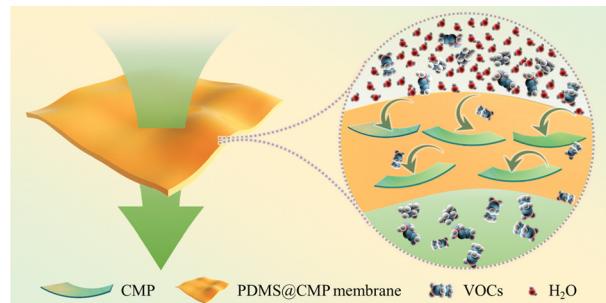


COMMUNICATIONS

4562

Superoleophilic conjugated microporous polymer nano-surfactants for realizing unprecedented fast recovery of volatile organic compounds

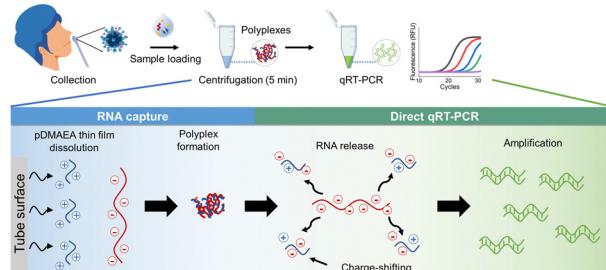
Liang Shen, Wei Liu, Yanqiu Lu, Chenyi Fang and Sui Zhang*



4571

Charge-shifting polyplex as a viral RNA extraction carrier for streamlined detection of infectious viruses

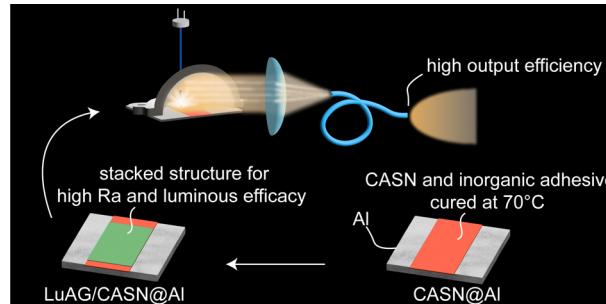
Younseong Song, Jayeon Song, Seongeun Kim, Hyowon Jang, Hogi Kim, Booseok Jeong, Nahyun Park, Sunjoo Kim, Dongeun Yong, Eun-Kyung Lim, Kyoung G. Lee,* Taejoon Kang* and Sung Gap Im*



4581

A super-high brightness and excellent colour quality laser-driven white light source enables miniaturized endoscopy

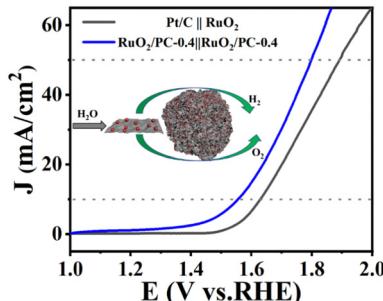
Shuxing Li, Linhui Huang, Yunqin Guo, Le Wang* and Rong-Jun Xie*



4589

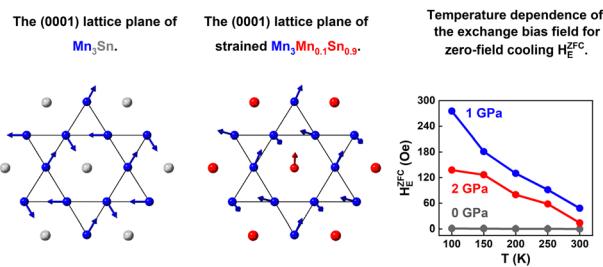
Densely populated tiny RuO₂ crystallites supported by hierarchically porous carbon for full acidic water splitting

Bo Yu, Jin-Hang Liu, Shuaibiao Guo, Guanlin Huang, Shengjia Zhang, Shuangqiang Chen, Xiaopeng Li,* Yong Wang* and Li-Ping Lv*



COMMUNICATIONS

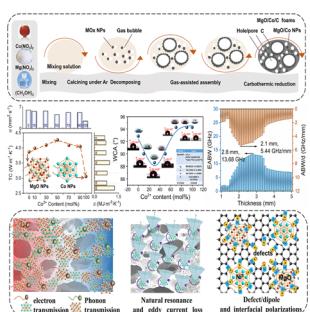
4597



Zero-field-cooling exchange bias up to room temperature in the strained kagome antiferromagnet $\text{Mn}_{3.1}\text{Sn}_{0.9}$

Mingyue Zhao, Wei Guo, Xian Wu, Li Ma,* Ping Song,* Guoke Li, Congmian Zhen, Dewei Zhao and Denglu Hou

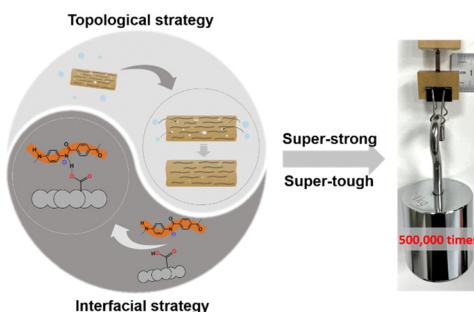
4609



***In situ* generated gas bubble-directed self-assembly of multifunctional MgO-based hybrid foams for highly efficient thermal conduction, microwave absorption, and self-cleaning**

Feifei You, Xinyu Liu, Meewan Ying, Yijun Yang, Yutong Ke, Yi Shen, Guoxiu Tong* and Wenhua Wu

4626



A synergistic interfacial and topological strategy for reinforcing aramid nanofiber films

Jiongke Jin, Xun-En Wu, Huarun Liang, Haomin Wang, Shuo Li, Haojie Lu, Peng Bi, Jiali Niu, Yang Wu and Yingying Zhang*

