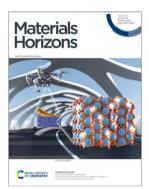
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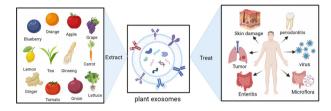
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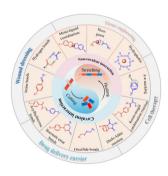
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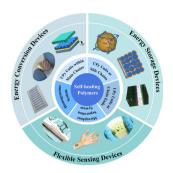
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Yunxing Zhao, Xiaolin Zheng,\* Pingqi Gao\* and Hong Li\*



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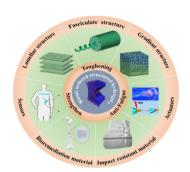
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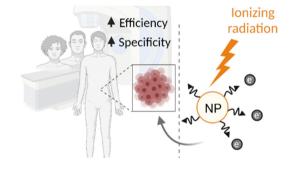
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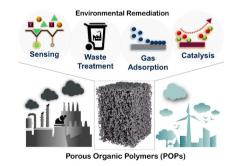
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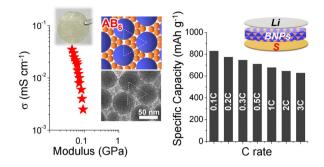
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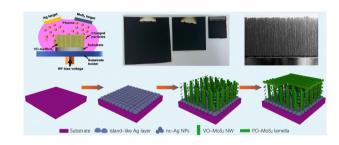
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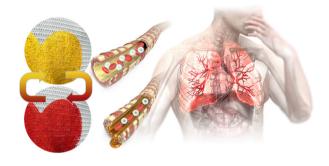
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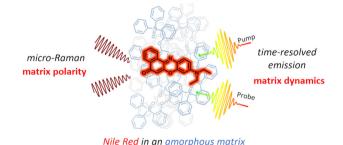
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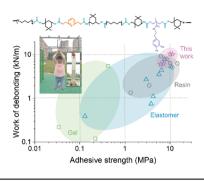
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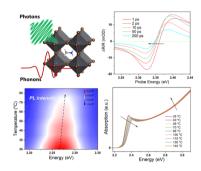
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# A strain-reinforcing elastomer adhesive with superior adhesive strength and toughness

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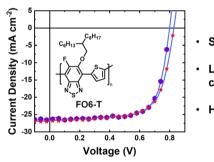
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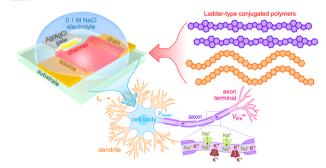


- Short synthesis
- Low Synthetic complexity
- High PCE of 15.4%

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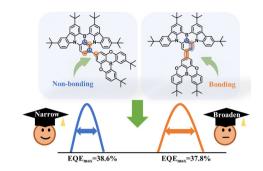
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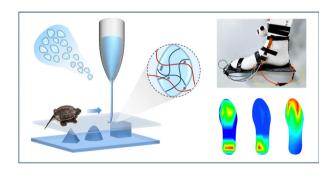
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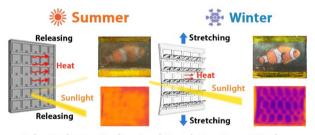
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Solar/Radiative Cooling Dual-Regulation Smart Window

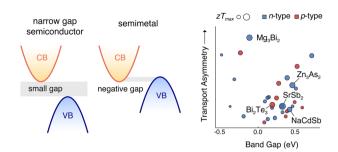
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Inclination of polarized illumination increases symmetry of structures grown via inorganic phototropism

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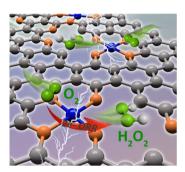
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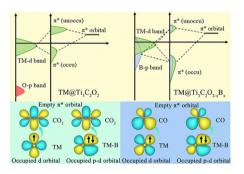
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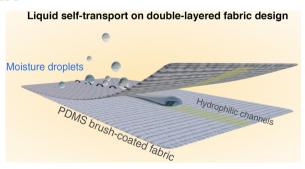
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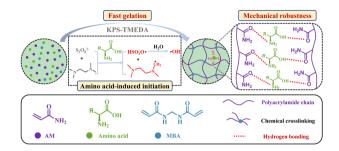
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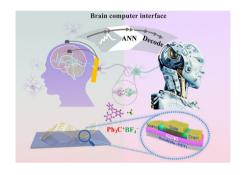
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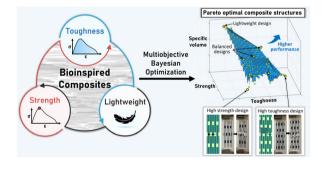
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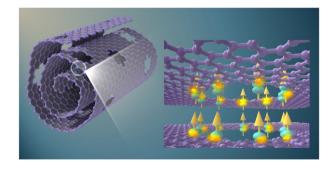
Kundo Park, Chihyeon Song, Jinkyoo Park and Seunghwa Ryu\*



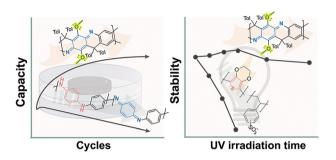
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Scrolling reduced graphene oxides to induce room temperature magnetism via spatial coupling of defects

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



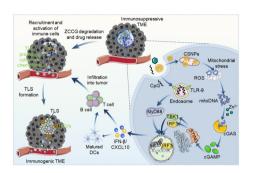
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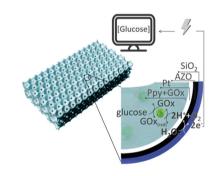
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Xiao-Kang Jin, Jun-Long Liang, Shi-Man Zhang, Ping Ji, Qian-Xiao Huang, You-Teng Qin, Xin-Chen Deng, Chuan-Jun Liu\* and Xian-Zheng Zhang\*

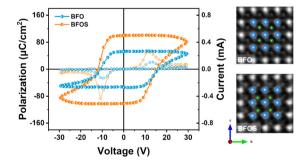
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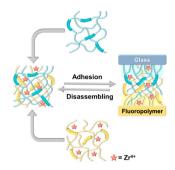
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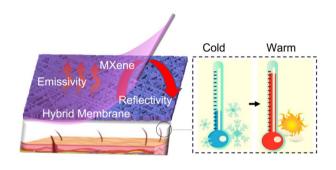
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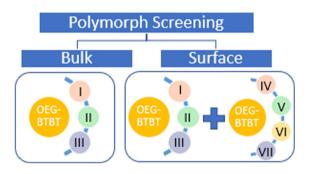
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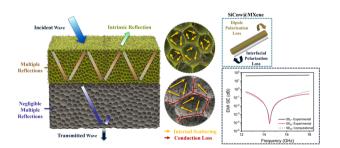
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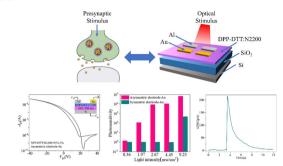
#### 4423

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\*



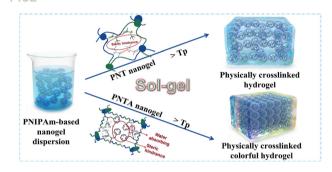
### 4438



# 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\*

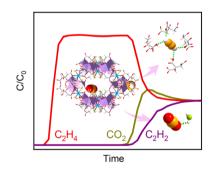
#### 4452



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

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

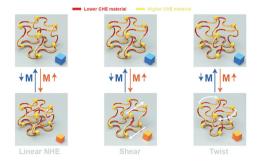
### 4463



# 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, Ligin 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\*

#### 4480

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

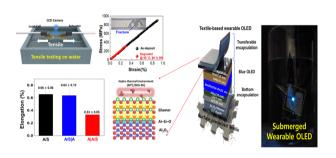
Yu Zhang, Yingxin Ma, Wenfang Yuan, Lejuan Cai,\* Yang Chai and Bocheng Qiu\*



#### 4488

Study of mechanical degradation of freestanding ALD Al<sub>2</sub>O<sub>3</sub> by a hygrothermal environment and a facile protective method for environmentally stable Al<sub>2</sub>O<sub>3</sub>: toward highly reliable wearable OLEDs

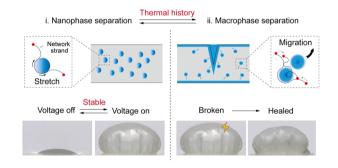
Sangmin Lee, Yongmin Jeon, Seung Jin Oh, Sun-Woo Lee, Kyung Cheol Choi,\* Taek-Soo Kim\* and Jeona Hyun Kwon\*



### 4501

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

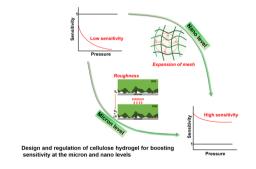
Jiali Tang, Zheqi Chen, Yiting Cai, Yang Gao, Jin He, Youhua Xiao, Jie Mao, Junjie Zhao, Xiang Gao, Tiefeng Li and Yingwu Luo\*



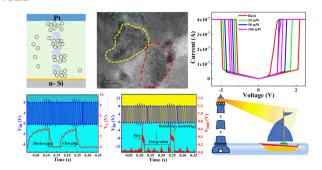
### 4510

# Rationally designed cellulose hydrogel for an ultrasensitive pressure sensor

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



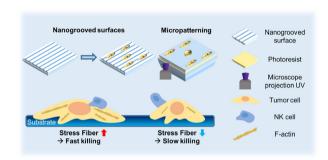
#### 4521



# Memristors based on NdNiO<sub>3</sub> 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\*

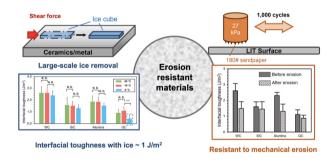
### 4532



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

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

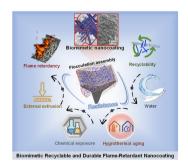
#### 4541



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

Qimeng Yang, Ali Dolatabadi and Kevin Golovin\*

### 4551



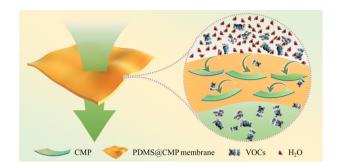
A biomimetic closed-loop recyclable, long-term durable, extreme-condition resistant, flame-retardant nanocoating synthesized by reversible flocculation assembly

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

#### 4562

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

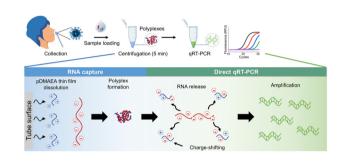
Liang Shen, Wei Liu, Yanqiu Lu, Chenyi Fang and Sui Zhang\*



#### 4571

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

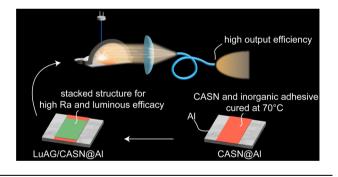
Younseong Song, Jayeon Song, Seongeun Kim, Hyowon Jang, Hogi Kim, Booseok Jeong, Nahyun Park, Sunjoo Kim, Dongeun Yong, Eun-Kyung Lim, Kyoung G. Lee,\* Taejoon Kang\* and Sung Gap Im\*



### 4581

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

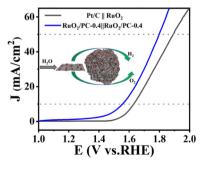
Shuxing Li, Linhui Huang, Yunqin Guo, Le Wang\* and Rong-Jun Xie\*



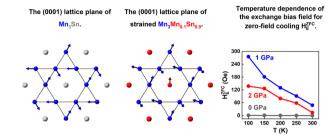
### 4589

Densely populated tiny RuO<sub>2</sub> 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\*



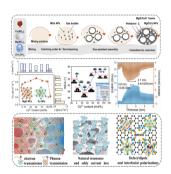
### 4597



# Zero-field-cooling exchange bias up to room temperature in the strained kagome antiferromagnet Mn<sub>3.1</sub>Sn<sub>0.9</sub>

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

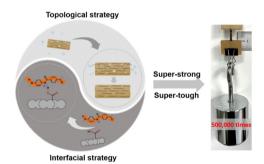
4609



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, Meiwan 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\*