

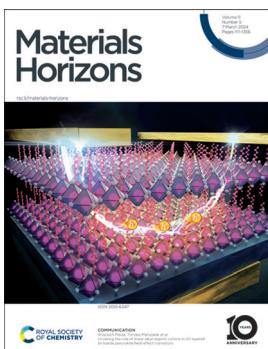
# Materials Horizons

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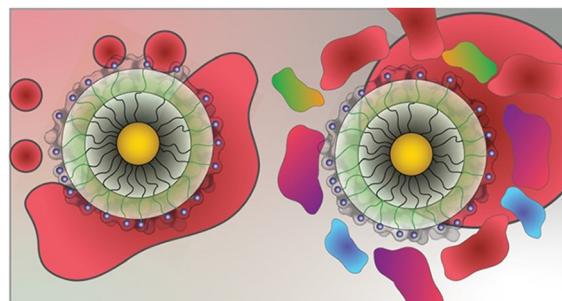
See Wojciech Pisula, Tomasz Marszalek *et al.*, pp. 1177–1187.  
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### A reflection on 'Protein coronas suppress the hemolytic activity of hydrophilic and hydrophobic nanoparticles'

Cristina-Maria Hirschbiegel, Mingdi Jiang, Jungmi Park and Vincent M. Rotello\*

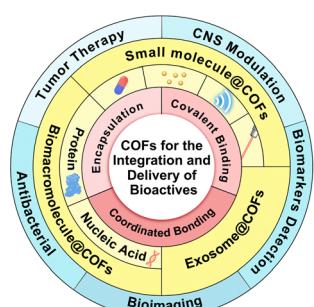


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### Strategies for utilizing covalent organic frameworks as host materials for the integration and delivery of bioactives

Lulu He, Le Wang, Zhen He, Cheng Heng Pang,\* Bencan Tang,\* Aiguo Wu\* and Juan Li\*



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**Solid-state, liquid-free ion-conducting elastomers: rising-star platforms for flexible intelligent devices**

Hao-Nan Li, Chao Zhang,\* Hao-Cheng Yang, Hong-Qing Liang, Zuankai Wang\* and Zhi-Kang Xu\*

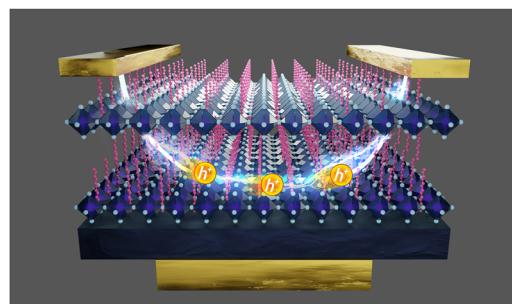


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**Unveiling the role of linear alkyl organic cations in 2D layered tin halide perovskite field-effect transistors**

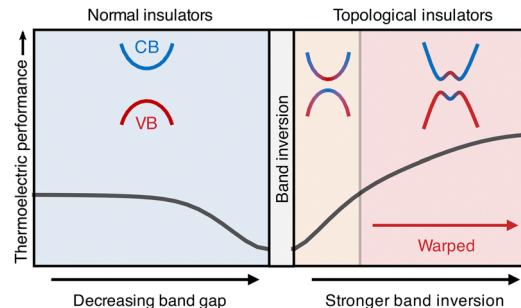
Shuanglong Wang, Shankeerthan Kalyanasundaram, Lei Gao, Zhitian Ling, Zhiwen Zhou, Mischa Bonn, Paul W. M. Blom, Hai I. Wang, Wojciech Pisula\* and Tomasz Marszalek\*



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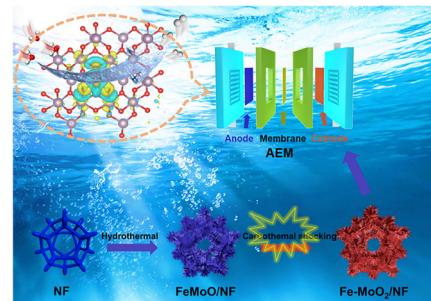
Michael Y. Toriyama\* and G. Jeffrey Snyder\*



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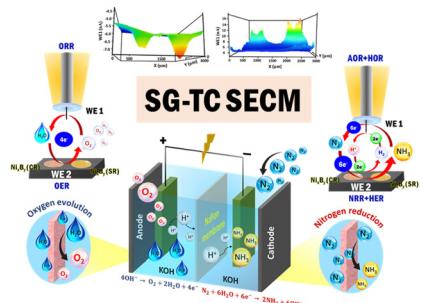
**Rapid carbothermal shocking fabrication of iron-incorporated molybdenum oxide with heterogeneous spin states for enhanced overall water/seawater splitting**

Jianpeng Sun, Shiyu Qin, Zhan Zhao, Zisheng Zhang and Xiangchao Meng\*



## COMMUNICATIONS

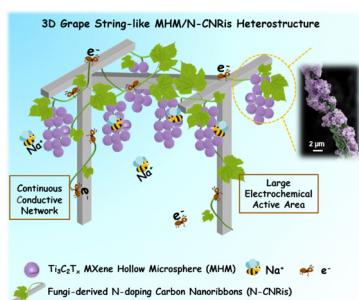
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### Real-time screening of $\text{Ni}_x\text{B}_y$ bifunctional electrocatalysts for overall $\text{NH}_3$ synthesis via SG-TC SECM

Divyani Gupta, Alankar Kafle, Man Singh, Sameer Kumar and Tharamani C. Nagaiah\*

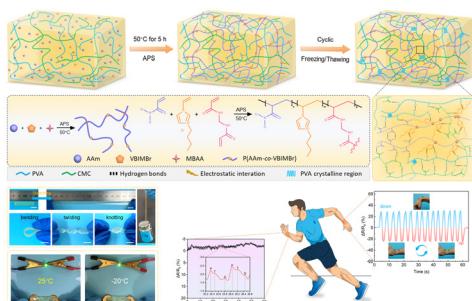
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### 3D grape string-like heterostructures enable high-efficiency sodium ion capture in $\text{Ti}_3\text{C}_2\text{T}_x$ MXene/fungi-derived carbon nanoribbon hybrids

Ningning Liu, Jianhua Yuan, Xiaochen Zhang, Yifan Ren, Fei Yu and Jie Ma\*

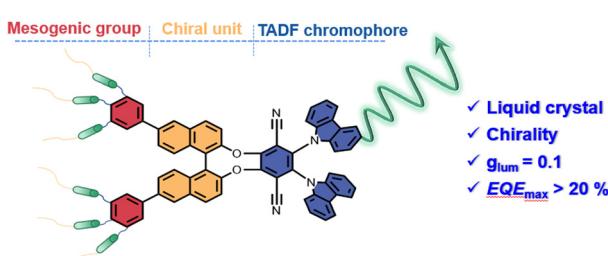
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### Cold-resistant, highly stretchable ionic conductive hydrogels for intelligent motion recognition in winter sports

Tongda Lei, Jiajun Pan, Ning Wang, Zhaopeng Xia,\* Qingsong Zhang,\* Jie Fan,\* Lei Tao, Wan Shou and Yu Gao

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### Liquid-crystalline circularly polarised TADF emitters for high-efficiency, solution-processable organic light-emitting diodes

Binghong He, Qihang Zhong, Qiwei Dong, Xuefeng Yang, Stephen J. Cowling, Wenjian Qiao, Duncan W. Bruce,\* Weiguo Zhu, Pengfei Duan\* and Yafei Wang\*

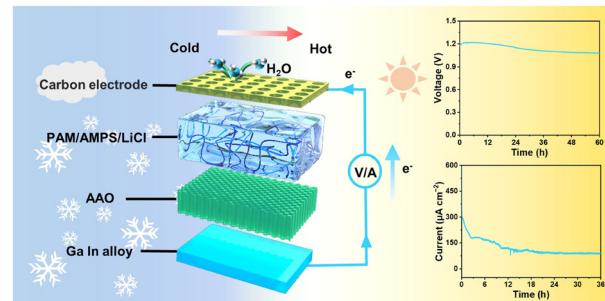


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**Efficient and cold-tolerant moisture-enabled power generator combining ionic diode and ionic hydrogel**

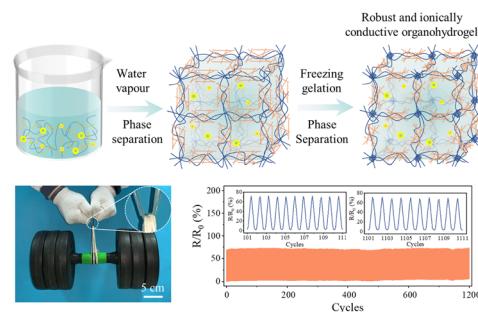
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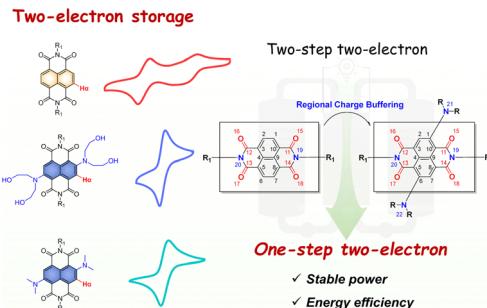
Yongchuan Wu, Ya Zhang, Zimin Liao, Jing Wen, Hechuan Zhang, Haidi Wu, Zhanqi Liu, Yongqian Shi, Pingan Song, Longcheng Tang, Huaguang Xue and Jiefeng Gao\*



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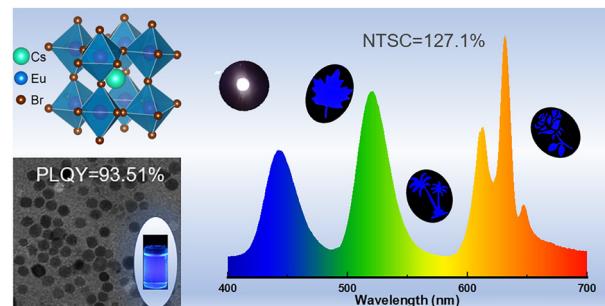
Zengrong Wang, Xu Liu, Xuri Zhang, Heng Zhang, Yujie Zhao, Yawen Li, Haiyan Yu and Gang He\*



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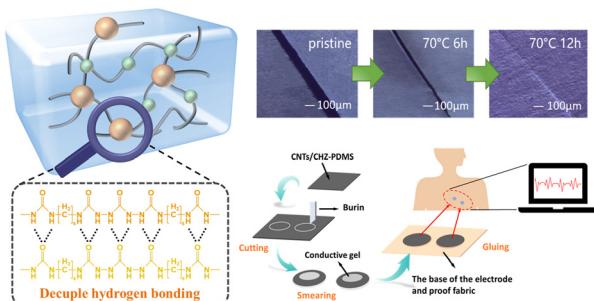
**Deep-blue narrow-band emissive cesium europium bromide perovskite nanocrystals with record high emission efficiency for wide-color-gamut backlight displays**

Xu Li, Bibo Lou, Xu Chen,\* Meng Wang, Hufang Jiang, Shuailing Lin, Zhuangzhuang Ma, Mochen Jia, Yanbing Han, Yongtao Tian, Di Wu, Wen Xu, Xinjian Li, Chonggeng Ma and Zhifeng Shi\*



## COMMUNICATIONS

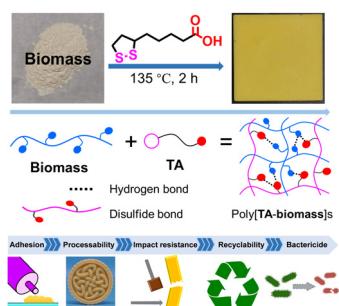
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### High-toughness, extensible and self-healing PDMS elastomers constructed by decouple hydrogen bonding

Jing-Han Gao, Baoquan Wan, Ming-Sheng Zheng, Longbo Luo,\* Hongkuan Zhang, Quan-Liang Zhao,\* George Chen and Jun-Wei Zha\*

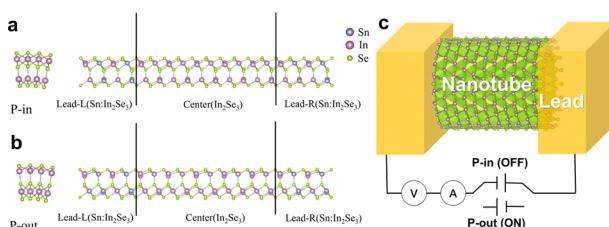
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### A supramolecular approach for converting renewable biomass into functional materials

Yunfei Zhang, Changyong Cai, Ke Xu, Xiao Yang, Leixiao Yu,\* Lingyan Gao\* and Shengyi Dong\*

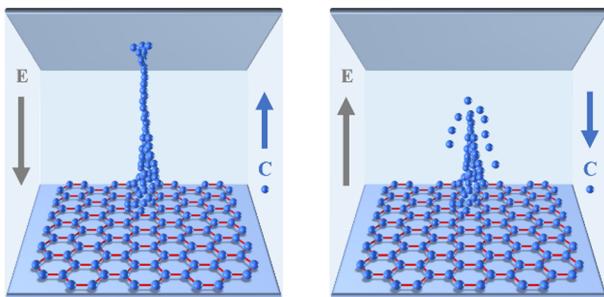
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### Nanotube ferroelectric tunnel junctions with an ultrahigh tunneling electroresistance ratio

Jiu-Long Wang, Yi-Feng Zhao, Wen Xu, Jun-Ding Zheng, Ya-Ping Shao, Wen-Yi Tong\* and Chun-Gang Duan\*

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Xuzhao Liu, Matthew Boyes, Xiaoyu Xiao, Minghao Zhao,  
Jingjing Wang, Zhirun Hu, Antonio Di Bartolomeo and  
Cinzia Casiraghi\*

