Materials Horizons

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IN THIS ISSUE

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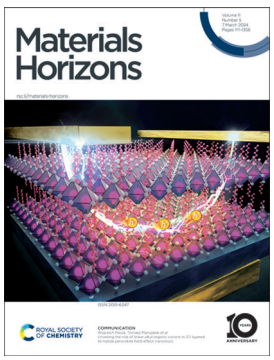

Cover
See Wojciech Pisula, Tomasz Marszalek *et al.*, pp. 1177–1187.
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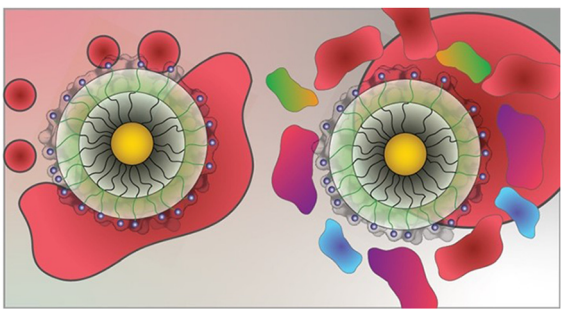
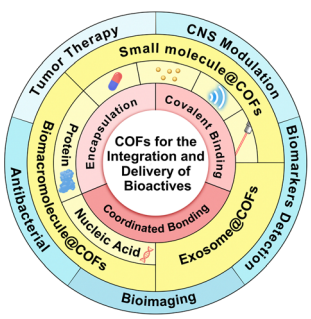
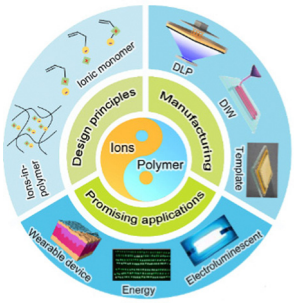
COMMENTARY



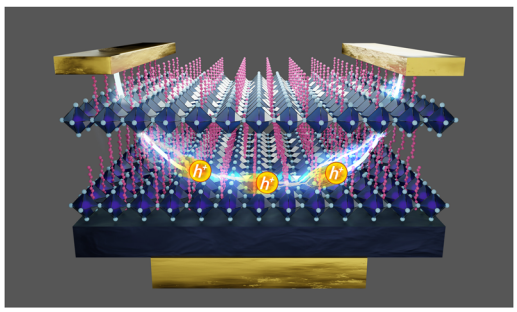
REVIEWS

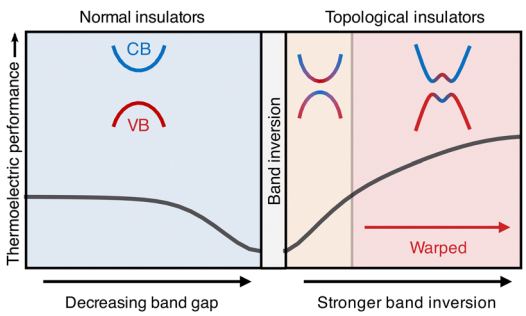


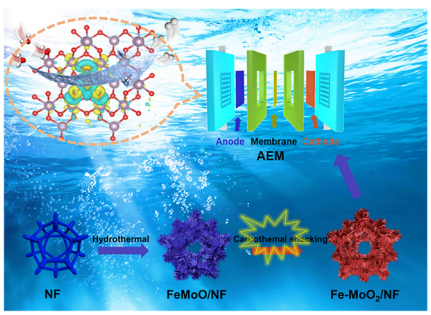
REVIEWS



COMMUNICATIONS







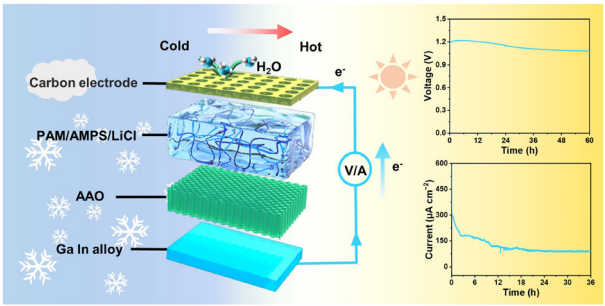
COMMUNICATIONS

COMMUNICATIONS

1261

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

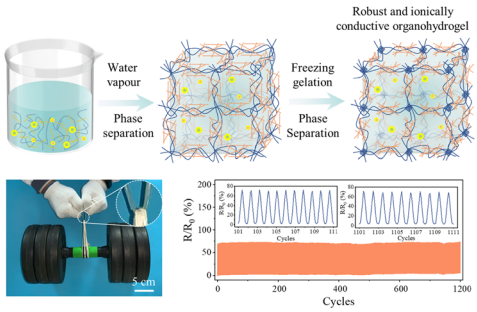
Jiahao Fang, Xiang Zhang, Peng Duan, Zhongbao Jiang, Xulei Lu, Chunqiao Fu, Yong Zhang, Yuming Yao, Kedong Shang, Jieyang Qin, Yangfan Liu and Tingting Yang*



1272

Water vapor assisted aramid nanofiber reinforcement for strong, tough and ionically conductive organohydrogels as high-performance strain sensors

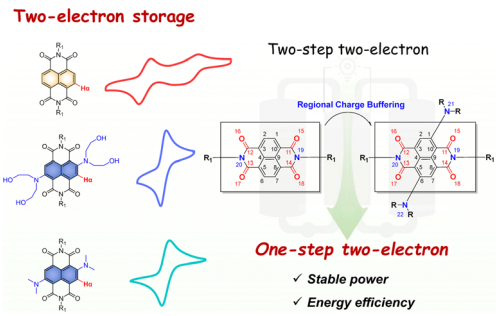
Yongchuan Wu, Ya Zhang, Zimin Liao, Jing Wen, Hechuan Zhang, Haidi Wu, Zhanqi Liu, Yongqian Shi, Pingan Song, Longcheng Tang, Huaiguo Xue and Jiefeng Gao*



1283

Realizing one-step two-electron transfer of naphthalene diimides *via* a regional charge buffering strategy for aqueous organic redox flow batteries

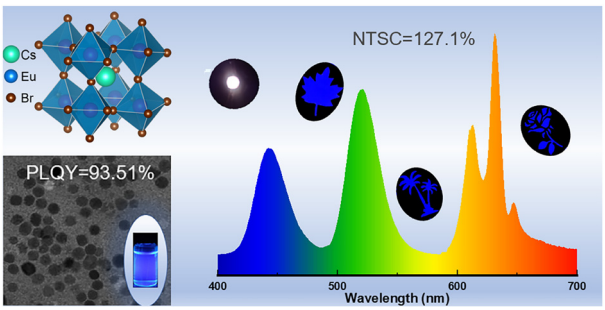
Zengrong Wang, Xu Liu, Xuri Zhang, Heng Zhang, Yujie Zhao, Yawen Li, Haiyan Yu and Gang He*



1294

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, Huifang Jiang, Shuailing Lin, Zhuangzhuang Ma, Mochen Jia, Yanbing Han, Yongtao Tian, Di Wu, Wen Xu, Xinjian Li, Chonggeng Ma and Zhifeng Shi*



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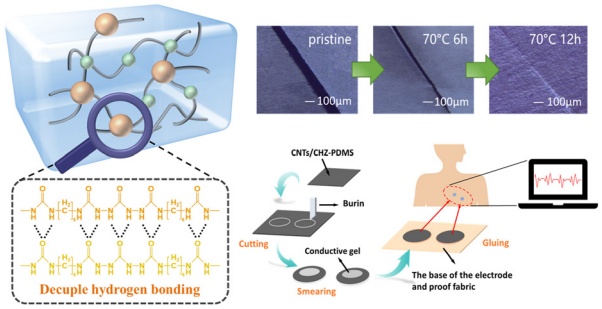
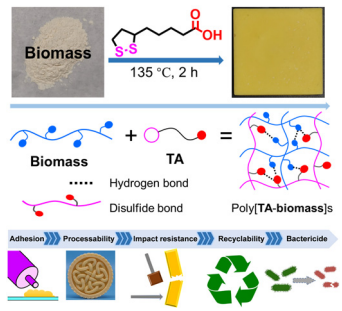
1305



High-toughness, extensile and self-healing PDMS elastomers constructed by decuple hydrogen bonding

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

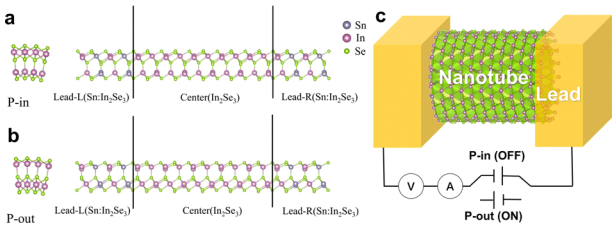
1315



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*

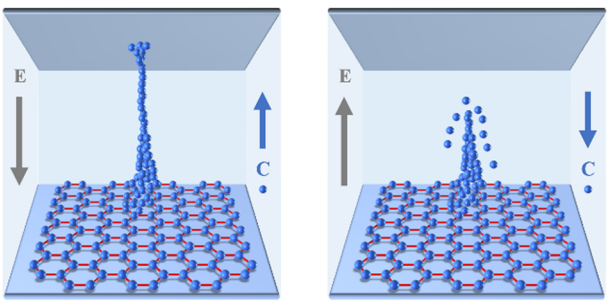
1325



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*

1334



A carbon conductive filament-induced robust resistance switching behavior for brain-inspired computing

Tianqi Yu, Dong Wang, Min Liu, Wei Lei, Suhaidi Shafie, Mohd Nazim Mohtar, Nattha Jindapetch, Dommelen van Paphavee and Zhiwei Zhao*

Fully printed memristors made with MoS_2 and graphene water-based inks

Zixing Peng, Alessandro Grillo, Aniello Pelella, Xuzhao Liu, Matthew Boyes, Xiaoyu Xiao, Minghao Zhao, Jingjing Wang, Zhirun Hu, Antonio Di Bartolomeo and Cinzia Casiraghi*