

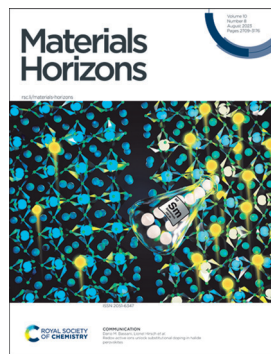
# Materials Horizons

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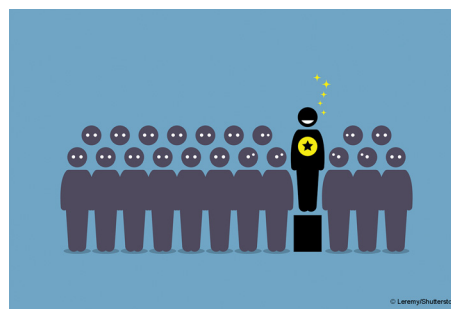
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**Materials Horizons Emerging Investigator Series: Professor Derek Ho, City University of Hong Kong, China**



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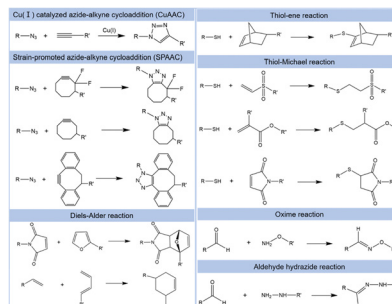


## REVIEWS

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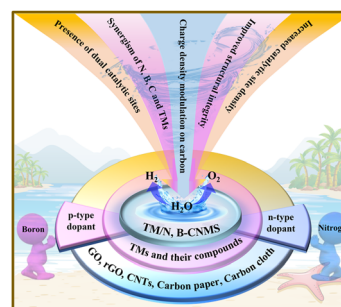
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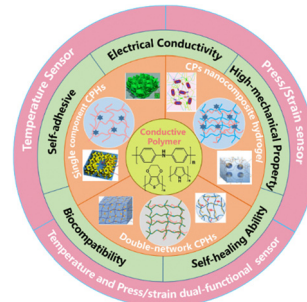
Ayaz Muzammil, Rizwan Haider, Wenrui Wei, Yi Wan, Muhammad Ishaq, Muhammad Zahid,\* Waleed Yaseen and Xianxia Yuan\*



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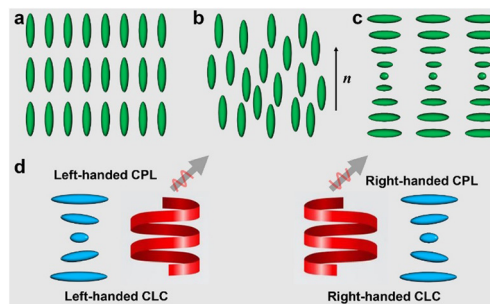
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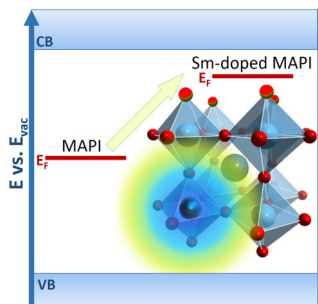
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Ruochen Lan,\* Wenbo Shen, Wenhuan Yao, Jingyu Chen, Xinyu Chen and Huai Yang\*



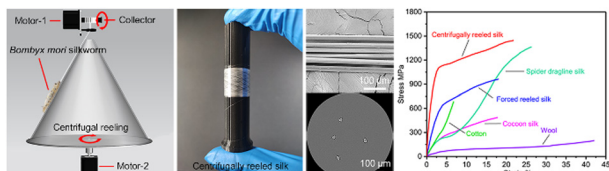
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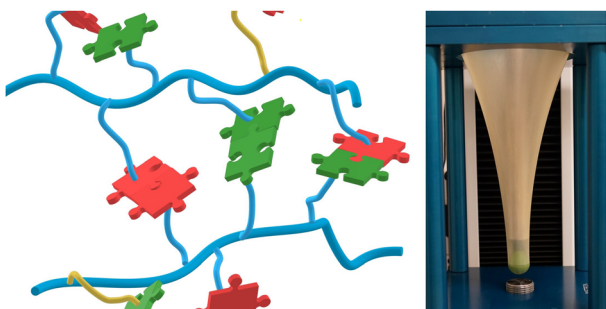
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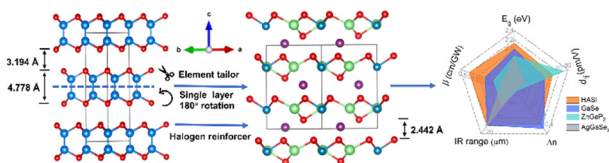
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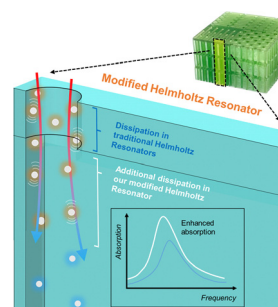
Ju Huang, Seung-Jae Shin, Kasper Tolborg, Alex M. Ganose, Gabriel Krenzer and Aron Walsh\*



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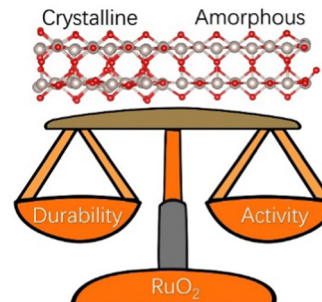
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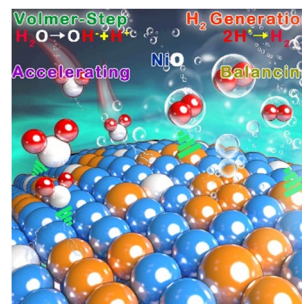
Yu Zhang, Yuefeng Zhang, Zhiyuan Zeng\* and Derek Ho\*



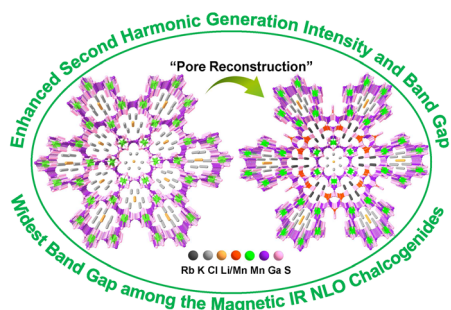
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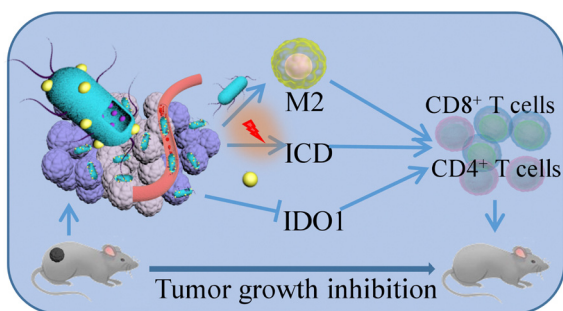
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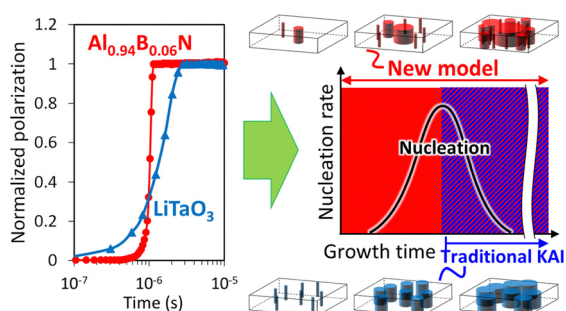
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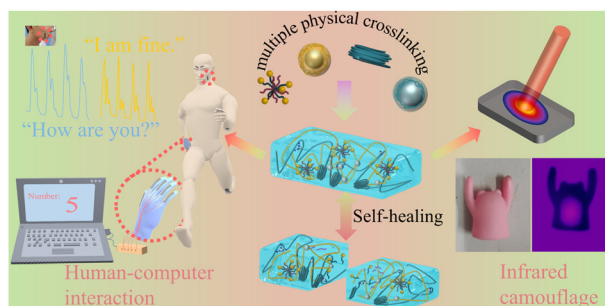
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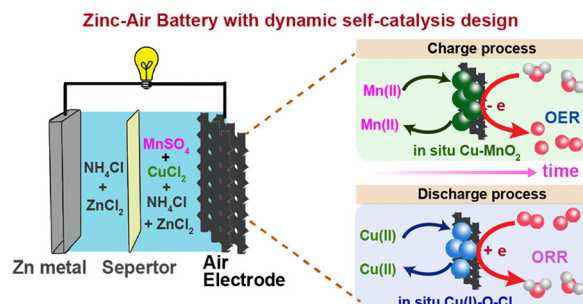


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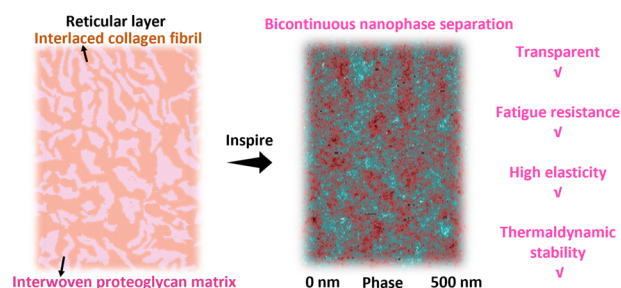
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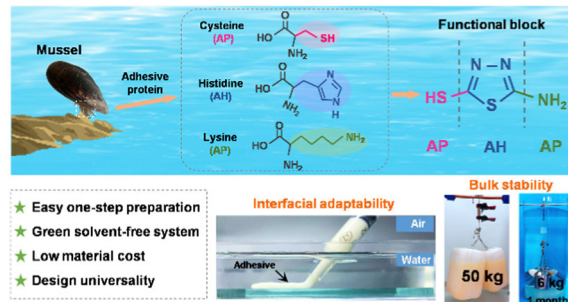
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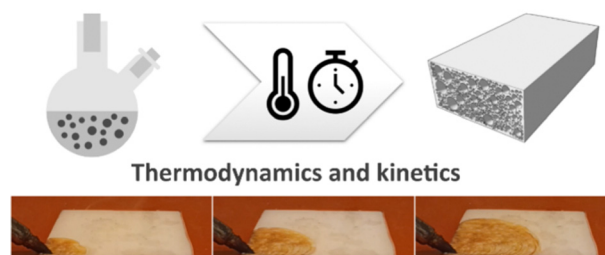


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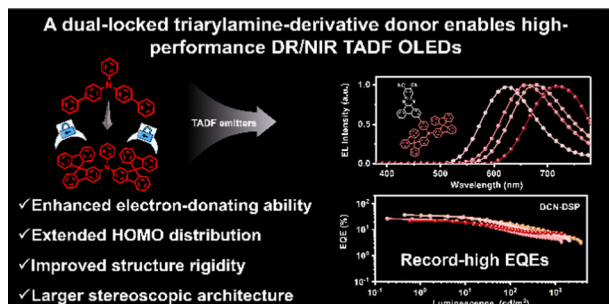
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Petr Lepcio, John Daguerre-Bradford, Anna Maria Cristadoro, Markus Schuette and Alan J. Lesser\*

#### Particles hindering front propagation in foams



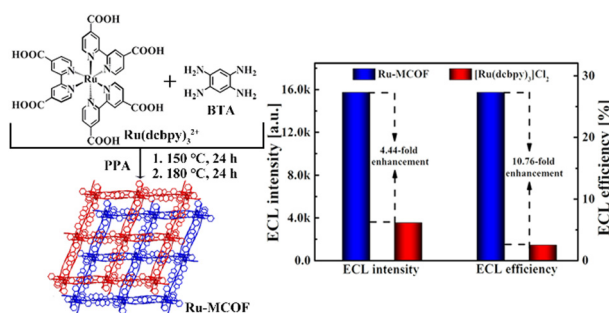
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Hui Wang, Jia-Xiong Chen, Lu Zhou, Xi Zhang, Jia Yu, Kai Wang\* and Xiao-Hong Zhang\*

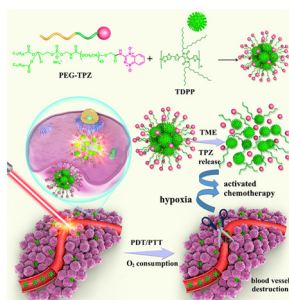
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Yang Yang, Haicheng Jiang, Jialu Li, Jialing Zhang, Shu-Zhen Gao, Mei-Ling Lu, Xin-Yue Zhang, Wenbin Liang, Xiaoqin Zou,\* Ruo Yuan\* and Dong-Rong Xiao\*

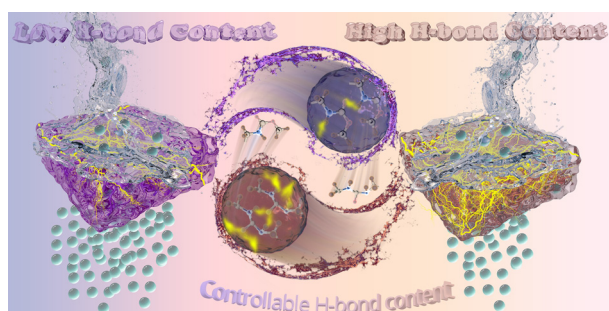
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Jianwei Zhu, Yuning Zhang, Zheng Li, Xiaowen Bao, Yanfeng Zhou, Bo Ma, Ying Xie, Peiyu Yan, Zimei Wu,\* Qi Zhang,\* Jianhua Zou\* and Xiaoyuan Chen\*

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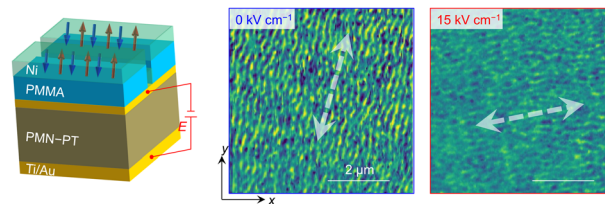
Tengyang Zhu, Jiayu Dong, Huan Liu and Yan Wang\*



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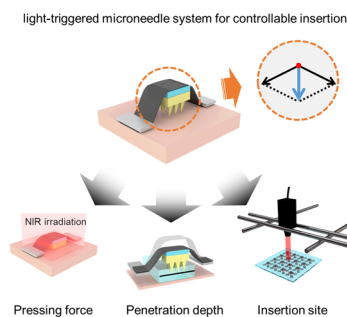
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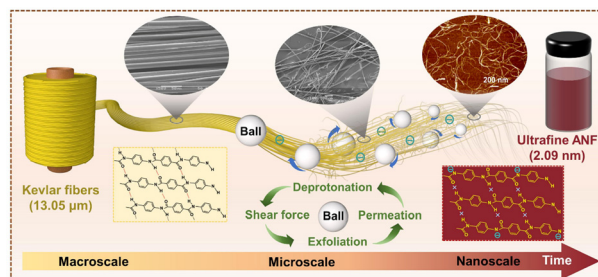
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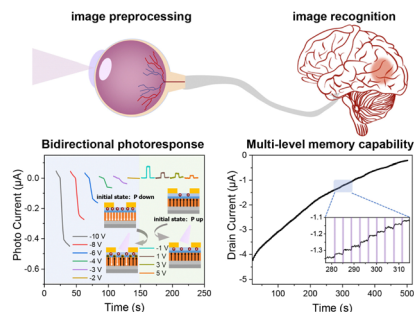
Gaojie Han, Bing Zhou, Zhaoyang Li, Yuezhan Feng,\* Chuntai Liu\* and Changyu Shen



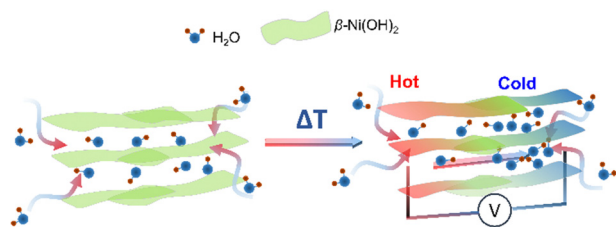
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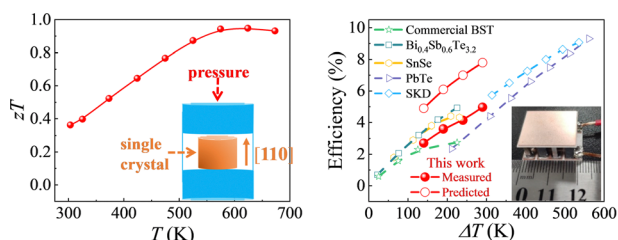
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### Application of lamellar nickel hydroxide membrane as a tunable platform for ionic thermoelectric studies

Raktim Gogoi, Arnab Ghosh, Priyamjeet Deka, K. K. R. Datta and Kalyan Raidongia\*

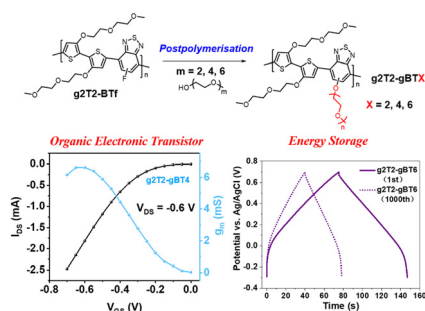
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Jianghe Feng, Menghui Zhou, Juan Li, Guoying Dong, Shufang Gao,\* Erbiao Min, Chuang Zhang, Jiaqing He,\* Rong Sun and Ruiheng Liu\*

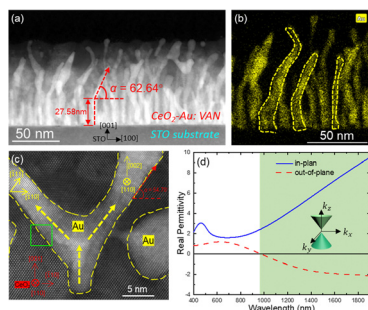
3090



### Tunable control of the performance of aqueous-based electrochemical devices by post-polymerization functionalization

Shengyu Cong, Junxin Chen, Bowen Ding, Liuyuan Lan, Yazhou Wang, Chaoyue Chen, Zhengke Li, Martin Heeney\* and Wan Yue\*

3101



### Abnormal in-plane epitaxy and formation mechanism of vertically aligned Au nanopillars in self-assembled CeO<sub>2</sub>-Au metamaterial systems

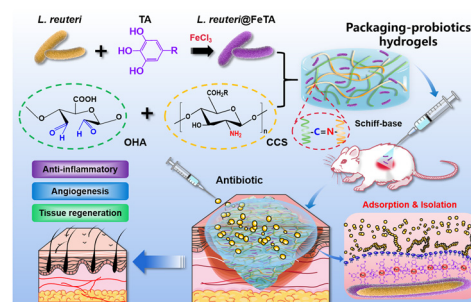
Juanjuan Lu, Di Zhang, Robynne L. Paldi, Zihao He, Ping Lu, Julia Deitz, Ahmad Ahmad, Hongyi Dou, Xuejing Wang, Juncheng Liu, Zedong Hu, Bo Yang, Xinghang Zhang, Anter A El-Azab and Haiyan Wang\*



3114

### Metal-phenolic self-assembly shielded probiotics in hydrogel reinforced wound healing with antibiotic treatment

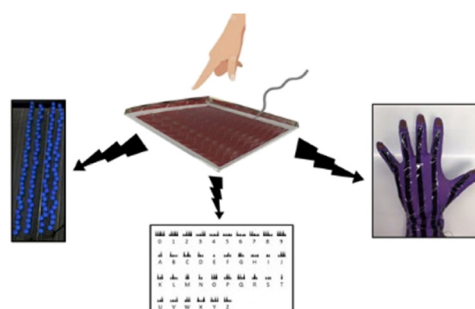
Chen Zhou, Yaping Zou, Ruiling Xu, Xiaowen Han, Zhen Xiang, Hao Guo, Xing Li, Jie Liang, Xingdong Zhang, Yujiang Fan\* and Yong Sun\*



3124

### Flexible triboelectric nanogenerators using transparent copper nanowire electrodes: energy harvesting, sensing human activities and material recognition

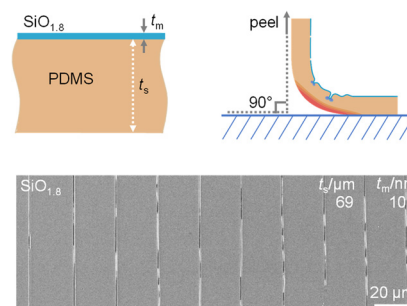
Biswajoy Bagchi, Priyanka Datta, Carmen Salvadores Fernandez, Priya Gupta, Shireen Jaufuraully, Anna L. David, Dimitrios Siassakos, Adrien Desjardins and Manish K. Tiwari\*



3135

### Periodic fracture behaviour of nanomembranes

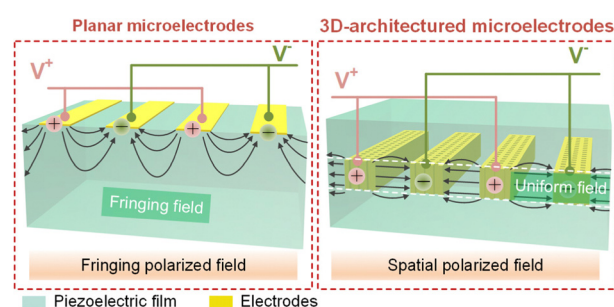
Yancheng Meng, Jianqiang Zhang, Baowen Li, Luxian Li, Qin Wang and Wanlin Guo\*



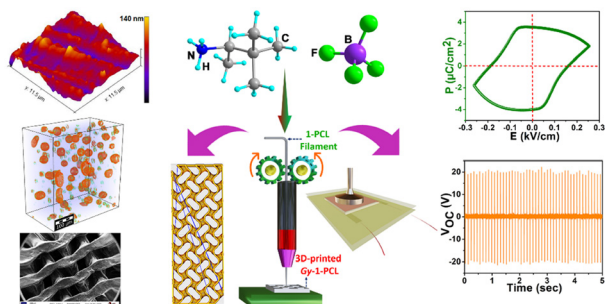
3140

### Electrowetting-assisted printing of 3D-architected microelectrodes inside flexible piezoelectric films for sensitive, robust responses to bending deformation

Chao Yan, Xiangming Li,\* Zhengjie Yang, Xiaopei Wang, Hao Ran, Ruolin Zhang, Hongmiao Tian, Chunhui Wang, Xiaoliang Chen and Jinyou Shao\*



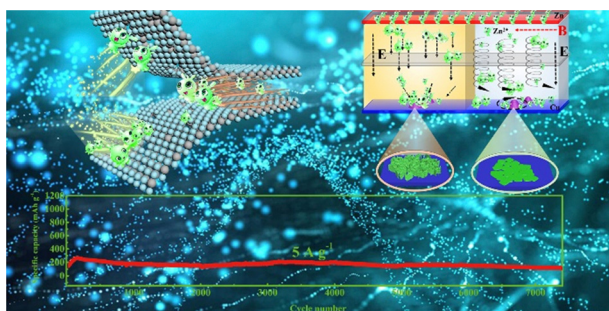
3153



### 3D-printed polymer composite devices based on a ferroelectric chiral ammonium salt for high-performance piezoelectric energy harvesting

Supriya Sahoo, Premkumar Anil Kothavade, Dipti R. Naphade, Arun Torris, Balu Praveenkumar, Jan K. Zareba,\* Thomas D. Anthopoulos,\* Kadiravan Shanmuganathan\* and Ramamoorthy Boomishankar\*

3162



### Magneto-electrochemistry driven ultralong-life Zn- $\text{VS}_2$ aqueous zinc-ion batteries

Yunjie Mao, Jin Bai,\* Jianguo Si,\* Hongyang Ma, Wanyun Li, Peiyao Wang, Hongli Zhang, Zhigao Sheng, Xiaoguang Zhu, Peng Tong, Xuebin Zhu, Bangchuan Zhao\* and Yuping Sun

