

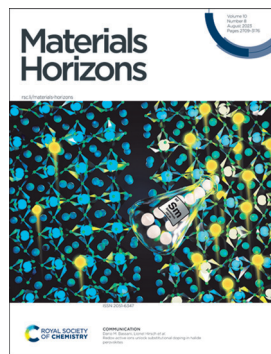
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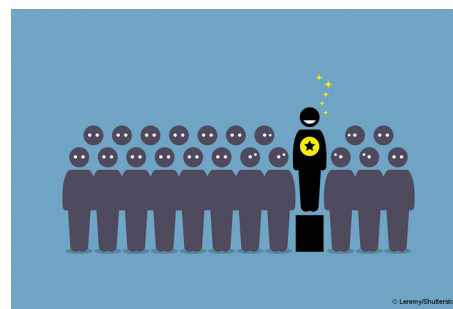
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Materials Horizons Emerging Investigator Series: Professor Derek Ho, City University of Hong Kong, China



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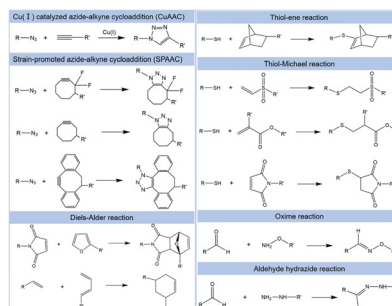


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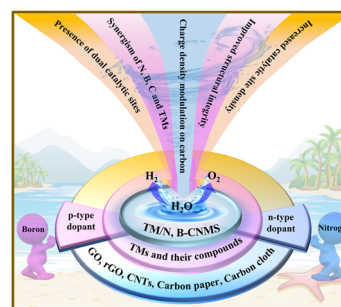
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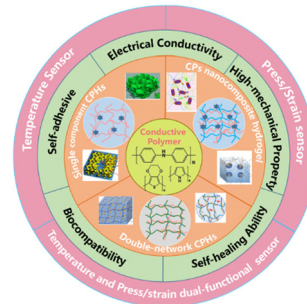
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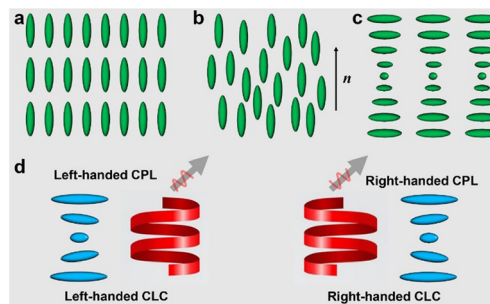
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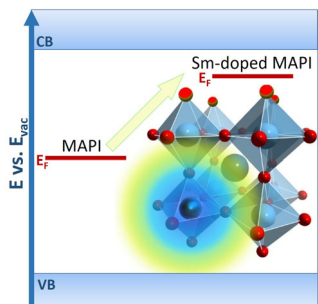
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Bioinspired humidity-responsive liquid crystalline materials: from adaptive soft actuators to visualized sensors and detectors

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



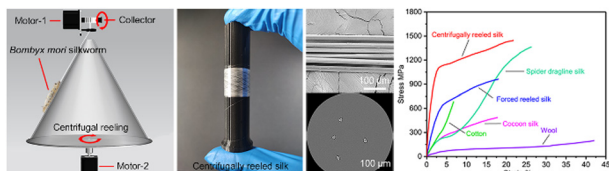
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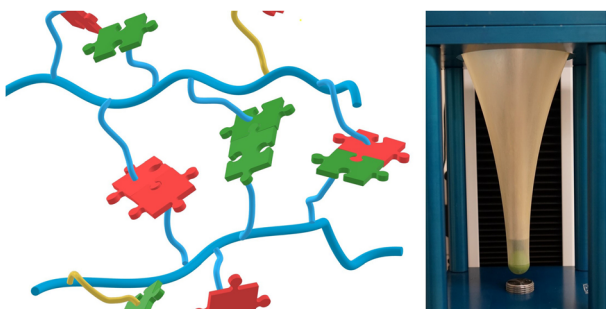
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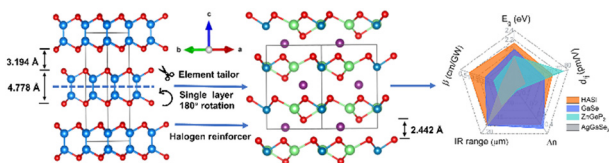
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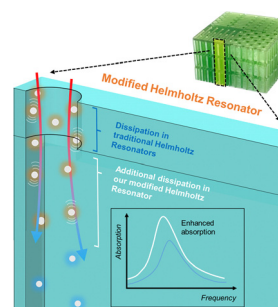
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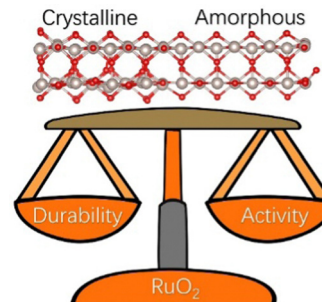
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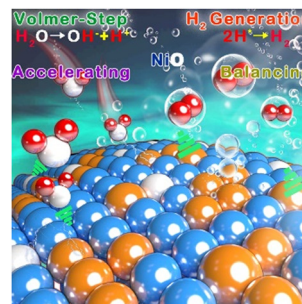
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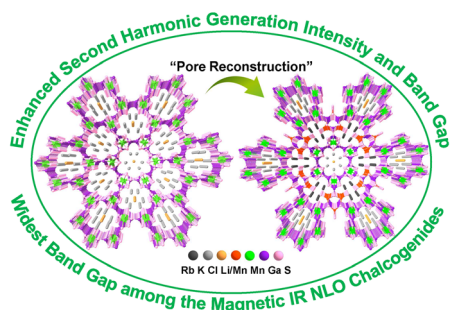
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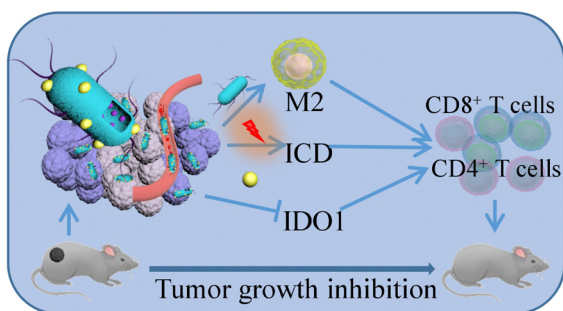
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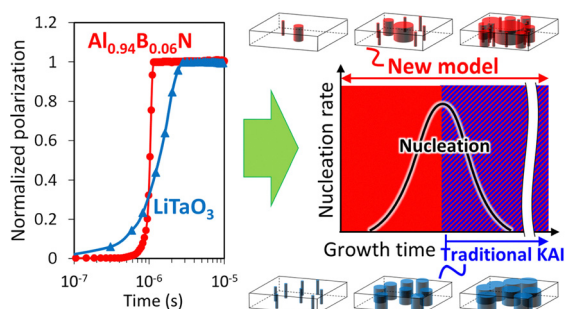
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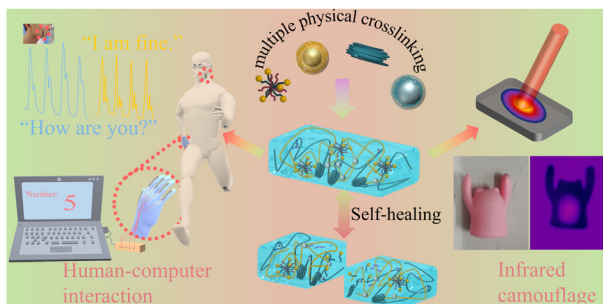
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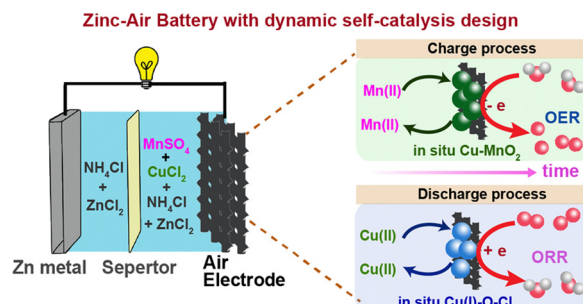


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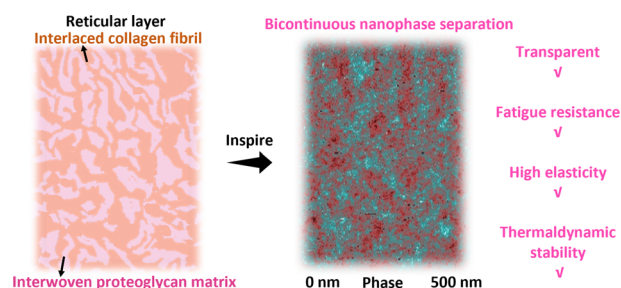
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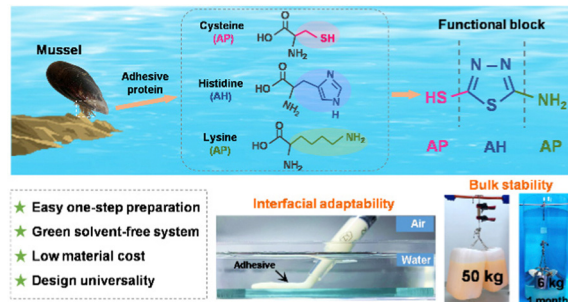
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Feng Li, Jiaying Mo, Zhicheng Zhang, Sheldon. Q. Shi, Jianzhang Li,* Jinfeng Cao* and Zuankai Wang*

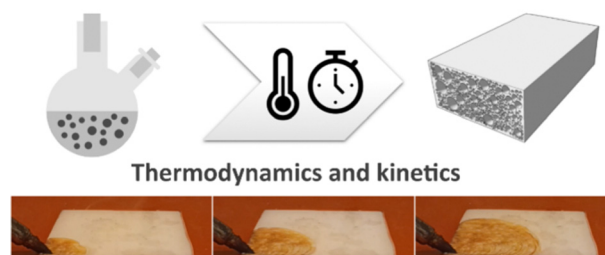


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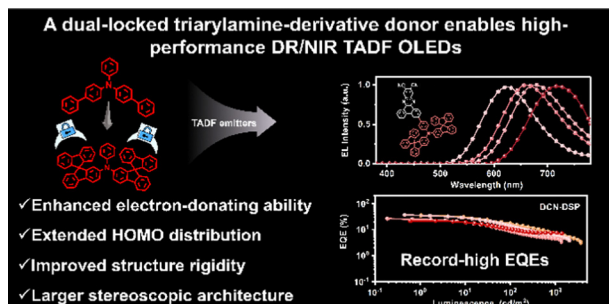
Frontally polymerized foams: thermodynamic and kinetical aspects of front hindrance by particles

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

Particles hindering front propagation in foams



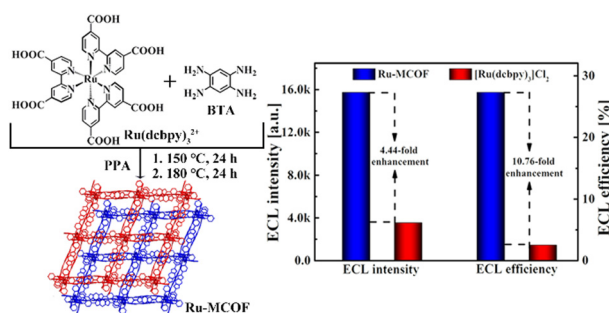
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A dual-locked triarylamine donor enables high-performance deep-red/NIR thermally activated delayed fluorescence organic light-emitting diodes

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

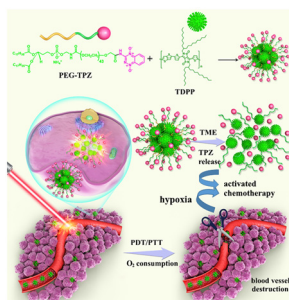
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Highly stable Ru-complex-based metal-covalent organic frameworks as novel type of electrochemiluminescence emitters for ultrasensitive biosensing

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*

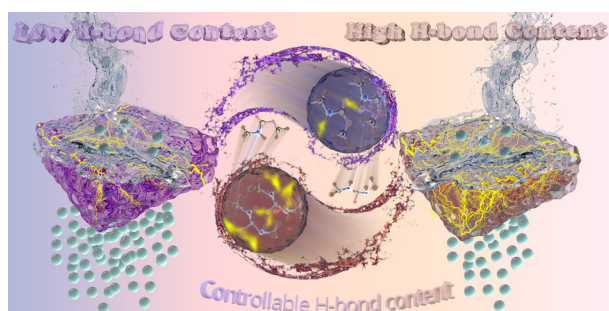
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Tumor-microenvironment-responsive poly-prodrug encapsulated semiconducting polymer nanosystem for phototherapy-boosted chemotherapy

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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Controllable hydrogen-bonded poly(dimethylsiloxane) (PDMS) membranes for ultrafast alcohol recovery

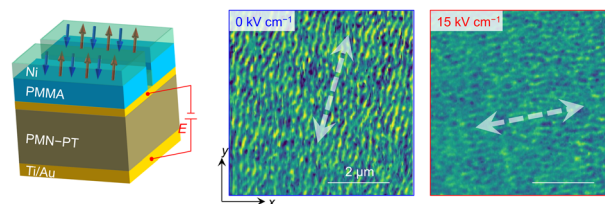
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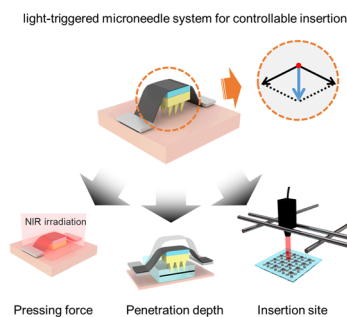
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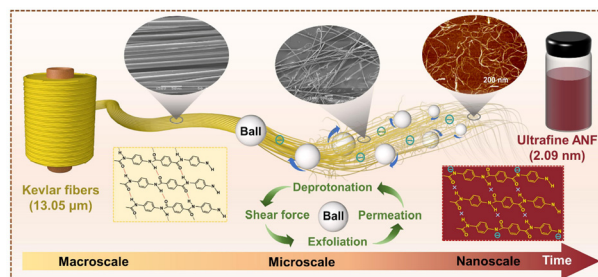
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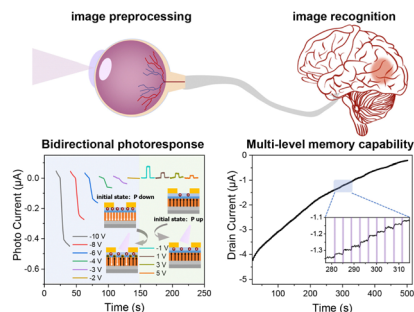
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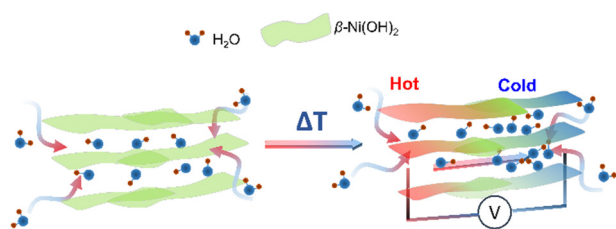
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Integration of image preprocessing and recognition functions in an optoelectronic coupling organic ferroelectric retinomorphing neuristor

Qinyong Dai, Mengjiao Pei, Jianhang Guo, Qijing Wang, Ziqian Hao, Hengyuan Wang, Yating Li, Longfei Li, Kuakua Lu, Yang Yan, Yi Shi* and Yun Li*



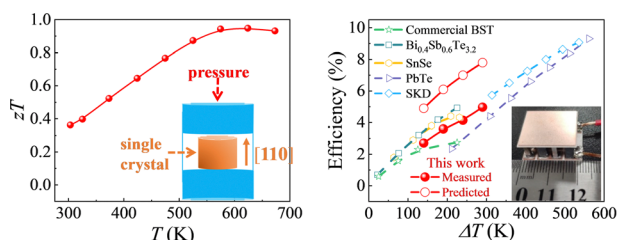
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Application of lamellar nickel hydroxide membrane as a tunable platform for ionic thermoelectric studies

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

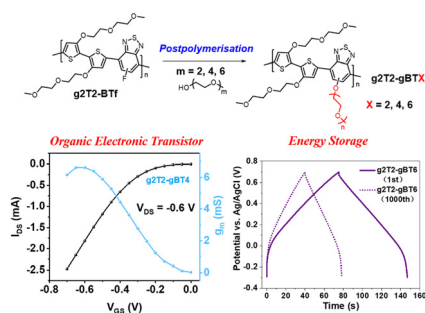
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A boost of thermoelectric generation performance for polycrystalline InTe by texture modulation

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

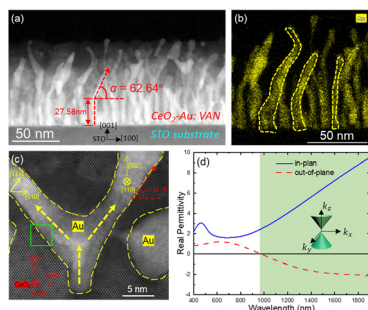
3090



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 CeO₂-Au metamaterial systems

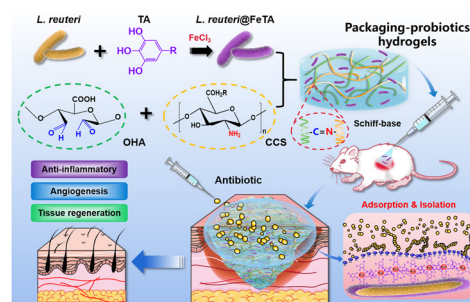
Juanjuan Lu, Di Zhang, Robynne L. Paldi, Zihao He, Ping Lu, Julia Deitz, Ahmad Ahmad, Hongyi Dou, Xuejing Wang, Juncheng Liu, Zedong Hu, Bo Yang, Xinghang Zhang, Anter A El-Azab and Haiyan Wang*



3114

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

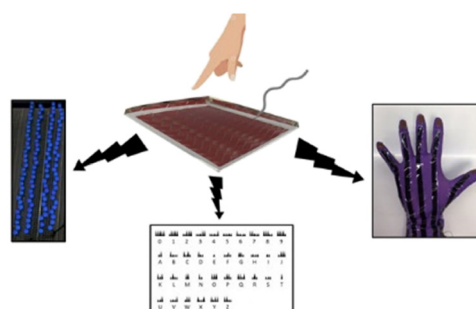
Chen Zhou, Yaping Zou, Ruiling Xu, Xiaowen Han, Zhen Xiang, Hao Guo, Xing Li, Jie Liang, Xingdong Zhang, Yujiang Fan* and Yong Sun*



3124

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

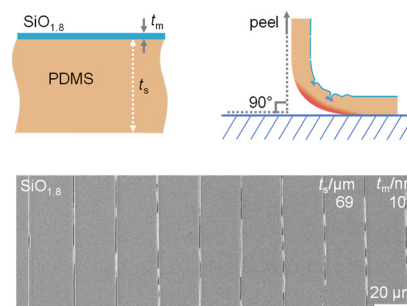
Biswajoy Bagchi, Priyanka Datta, Carmen Salvadores Fernandez, Priya Gupta, Shireen Jaufuraully, Anna L. David, Dimitrios Siassakos, Adrien Desjardins and Manish K. Tiwari*



3135

Periodic fracture behaviour of nanomembranes

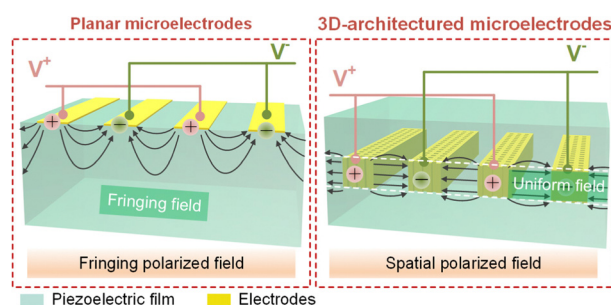
Yancheng Meng, Jianqiang Zhang, Baowen Li, Luxian Li, Qin Wang and Wanlin Guo*



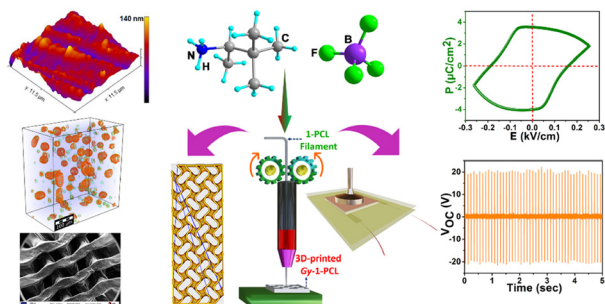
3140

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*



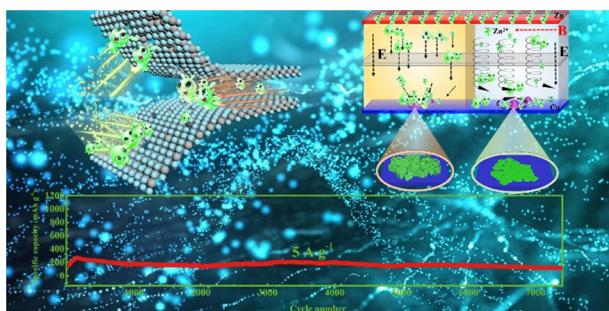
3153



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- 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

