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ISSN 2051-6347 CODEN MHAOAL 10(8) 2709–3176 (2023)



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EDITORIALS

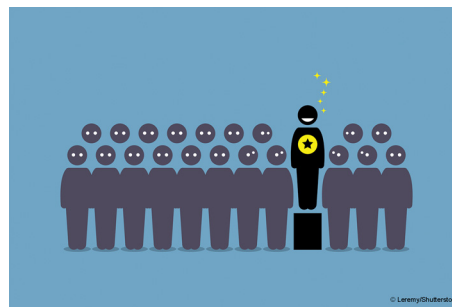
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Materials Horizons Emerging Investigator Series:
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Materials Horizons (electronic:

ISSN 2051-6355) is published 12 times a year by the Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, UK CB4 0WF.

All orders, with cheques made payable to the Royal Society of Chemistry, should be sent to the Royal Society of Chemistry Order Department, Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, CB4 0WF, UK
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Building and designing systems from the molecular level

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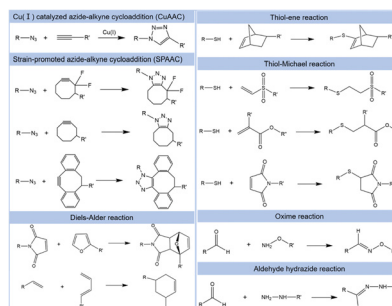


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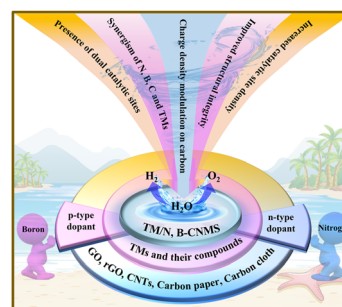
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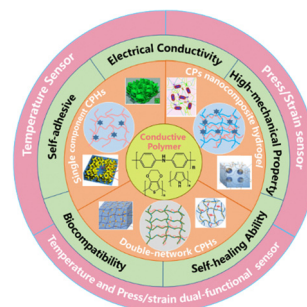
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Muhammad Ishaq, Muhammad Zahid,* Waleed Yaseen
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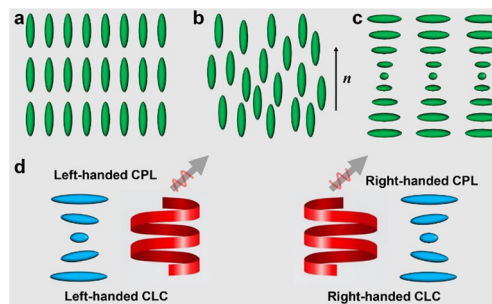
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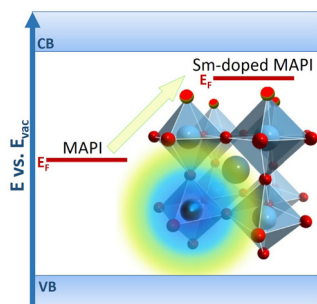
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Bioinspired humidity-responsive liquid crystalline materials: from adaptive soft actuators to visualized sensors and detectors

Ruochen Lan,* Wenbo Shen, Wenhuan Yao,
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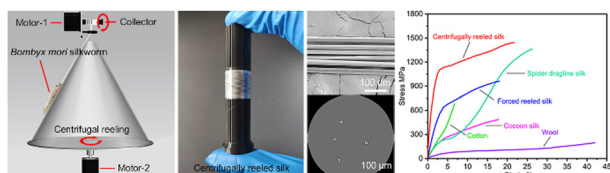
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Zuzanna Molenda, Bastien Politi, Raphaël Clerc, Mamatimin Abbas, Sylvain Chambon, Dario M. Bassani* and Lionel Hirsch*

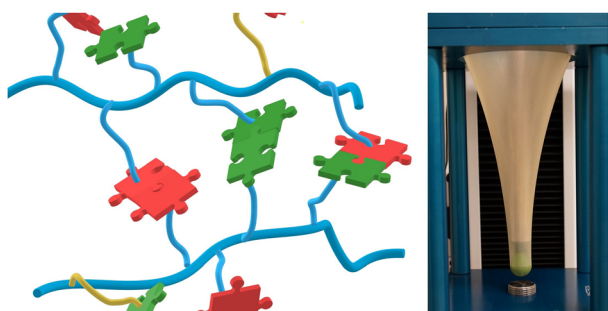
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High-performance artificially reeled silkworm silk via a multi-task and high-efficiency centrifugal reeling technique and its application in soft actuators

Teng Hou, Xianglong Li, Shu Liu, Jing Zhou, Yujing Bian, Lele Zhou, Mingbo Sun, Wenlong Zhou and Bin Yang*

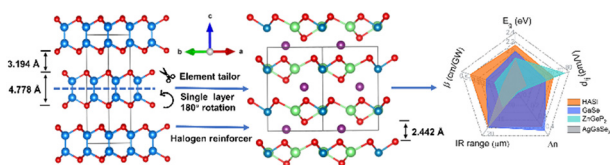
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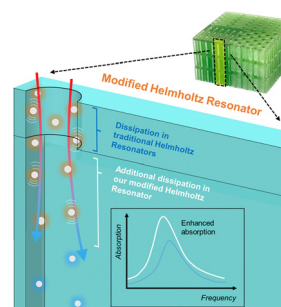
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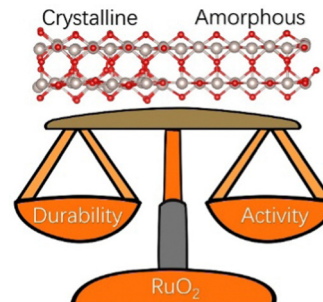
Xinwei Li, Xiang Yu, Jun Wei Chua and Wei Zhai*



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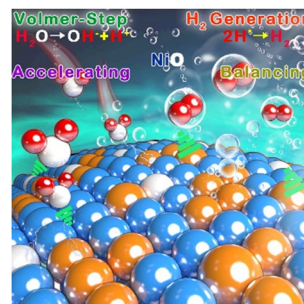
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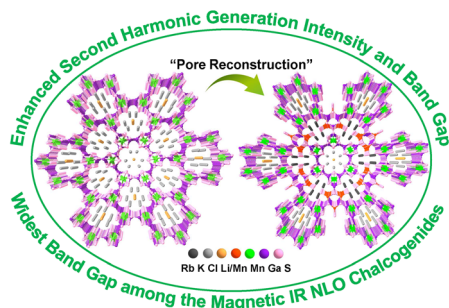
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Fei Guo, Zeyi Zhang, Runzhe Chen, Yangyang Tan, Wei Wu, Zichen Wang, Tang Zeng, Wangbin Zhu, Caixin Lin and Niancai Cheng*



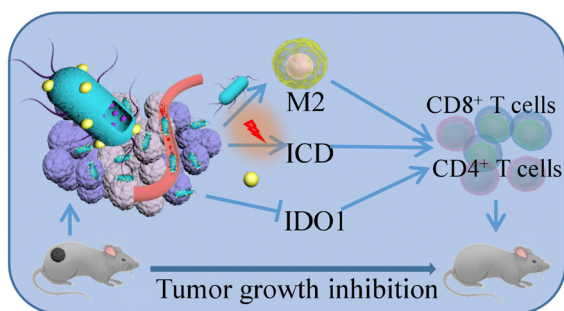
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Breaking the bottleneck of simultaneously wide band gap and large nonlinear optical coefficient by a "pore reconstruction" strategy in a salt-inclusion chalcogenide

Shao-Min Pei, Bin-Wen Liu,* Wen-Fa Chen, Xiao-Ming Jiang and Guo-Cong Guo*

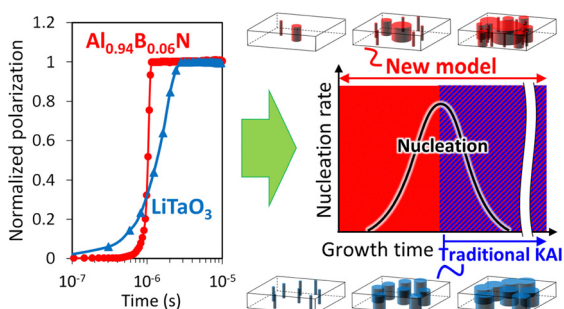
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Bacteria engineered with intracellular and extracellular nanomaterials for hierarchical modulation of antitumor immune responses

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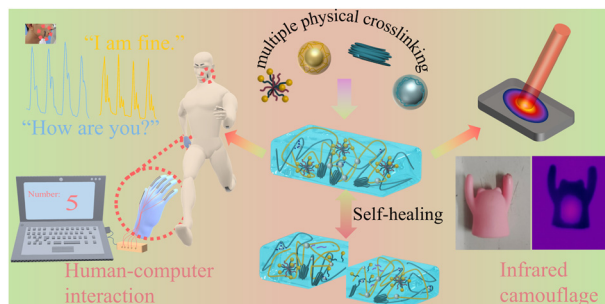
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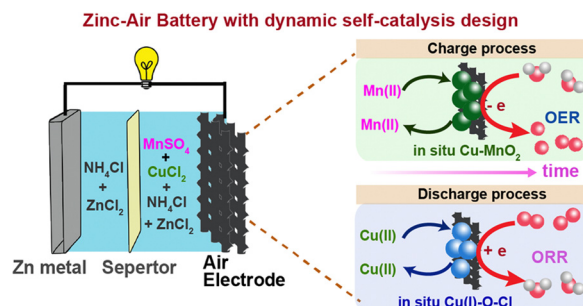


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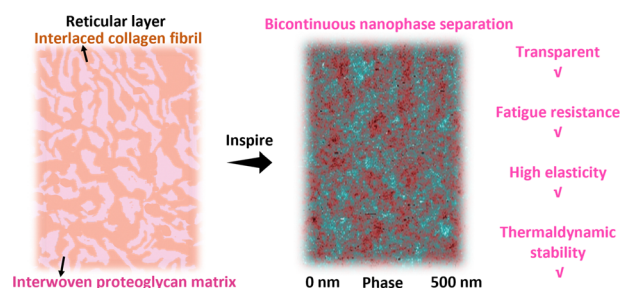
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Extremely strengthening fatigue resistance, elastic restorability and thermodynamic stability of a soft transparent self-healing network based on a dynamic molecular confinement-induced bioinspired nanostructure

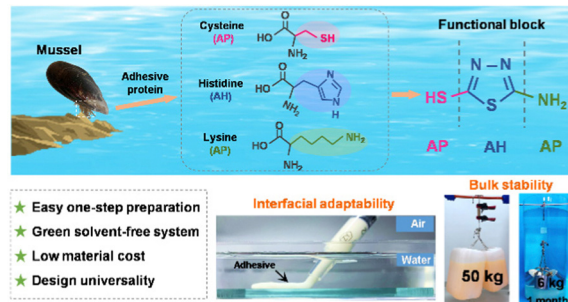
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Achieving strong, stable, and durable underwater adhesives based on a simple and generic amino-acid-resembling design

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

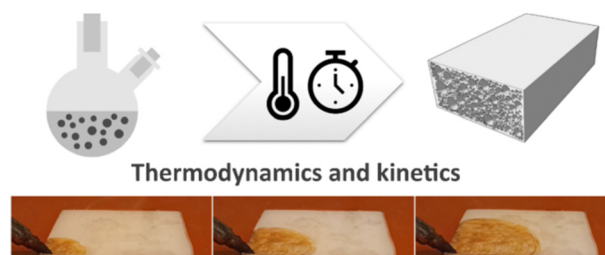


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Frontally polymerized foams: thermodynamic and kinetical aspects of front hindrance by particles

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

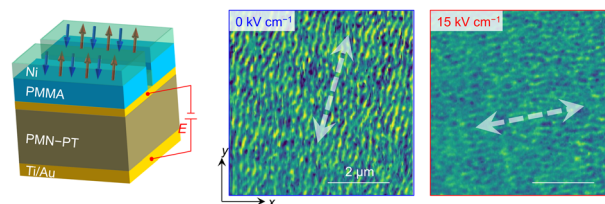
Particles hindering front propagation in foams



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Switching magnetic strip orientation using electric fields

Aitian Chen, Hong-Guang Piao,* Chenhui Zhang, Xiao-Ping Ma, Hanin Algaidi, Yinchang Ma, Yan Li, Dongxing Zheng, Ziqiang Qiu and Xi-Xiang Zhang*

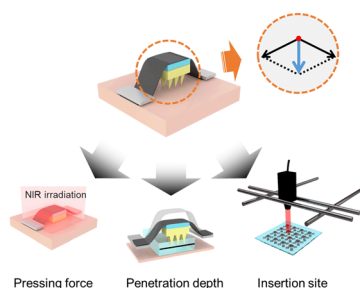


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Microneedle system with light trigger for precise and programmable penetration

Weijiang Yu, Jieze Shen, Chong Ji, Peng Zhang, Hao Chang, Youxiang Wang* and Jian Ji*

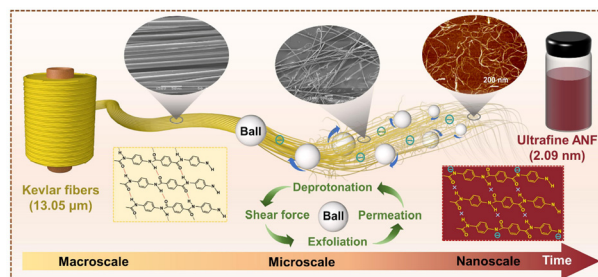
light-triggered microneedle system for controllable insertion



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Ultrafine aramid nanofibers prepared by high-efficiency wet ball-milling-assisted deprotonation for high-performance nanopaper

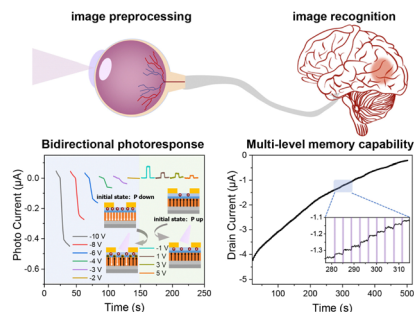
Gaojie Han, Bing Zhou, Zhaoyang Li, Yuezhan Feng,* Chuntai Liu* and Changyu Shen



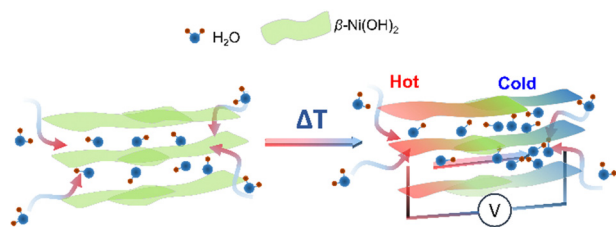
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Integration of image preprocessing and recognition functions in an optoelectronic coupling organic ferroelectric retinomorph neuristor

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*



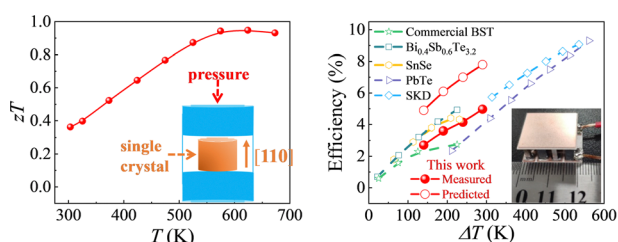
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Application of lamellar nickel hydroxide membrane as a tunable platform for ionic thermoelectric studies

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

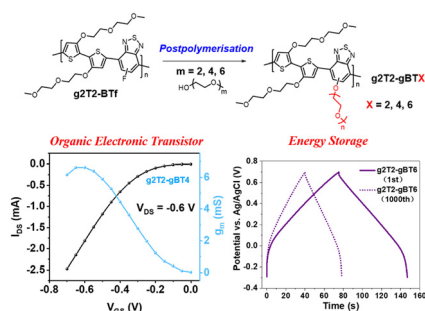
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A boost of thermoelectric generation performance for polycrystalline InTe by texture modulation

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

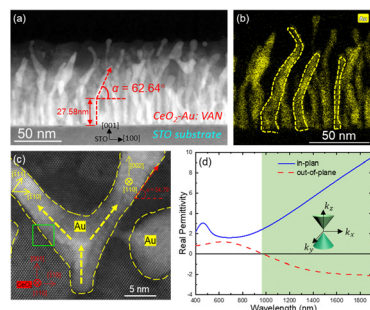
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Tunable control of the performance of aqueous-based electrochemical devices by post-polymerization functionalization

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

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Abnormal in-plane epitaxy and formation mechanism of vertically aligned Au nanopillars in self-assembled CeO₂-Au metamaterial systems

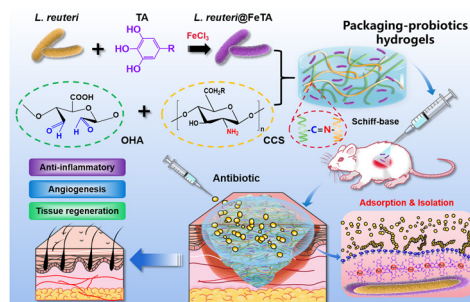
Juanjuan Lu, Di Zhang, Robynne L. Paldi, Zihao He, Ping Lu, Julia Deitz, Ahmad Ahmad, Hongyi Dou, Xuejing Wang, Juncheng Liu, Zedong Hu, Bo Yang, Xinghang Zhang, Anter A El-Azab and Haiyan Wang*



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

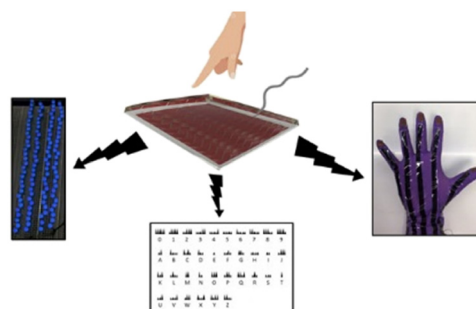
Chen Zhou, Yaping Zou, Ruiling Xu, Xiaowen Han, Zhen Xiang, Hao Guo, Xing Li, Jie Liang, Xingdong Zhang, Yujiang Fan* and Yong Sun*



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

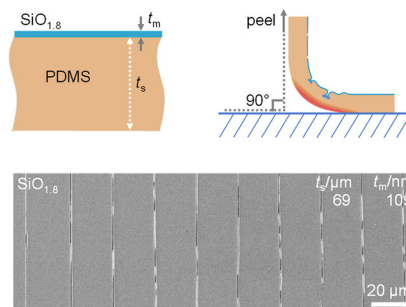
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Periodic fracture behaviour of nanomembranes

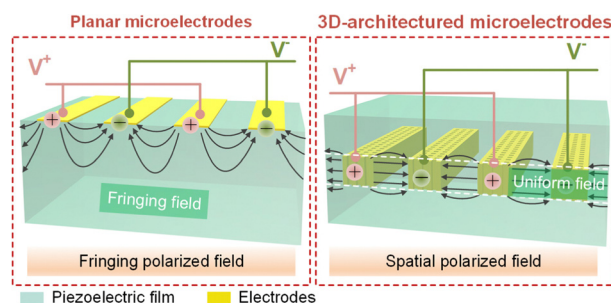
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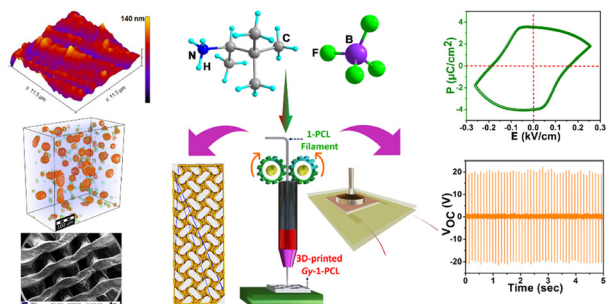
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Electrowetting-assisted printing of 3D-architected microelectrodes inside flexible piezoelectric films for sensitive, robust responses to bending deformation

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



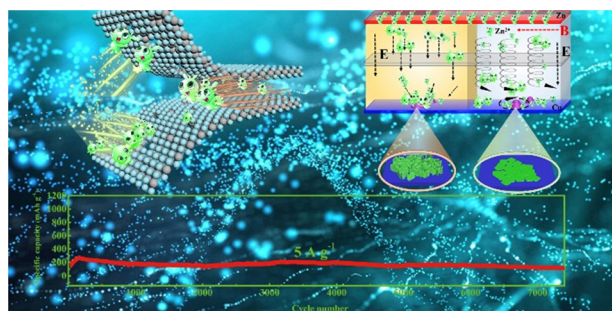
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3D-printed polymer composite devices based on a ferroelectric chiral ammonium salt for high-performance piezoelectric energy harvesting

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

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Magneto-electrochemistry driven ultralong-life Zn- VS_2 aqueous zinc-ion batteries

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