**Flexible Electronics (2022-2024)**

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1. **Naturally Crosslinked Biocompatible Carbonaceous Liquid Metal Aqueous Ink Printing Wearable Electronics for Multi-Sensing and Energy Harvesting (Article)**

King Yan Chung, Bingang Xu, Di Tan, Qingjun Yang, Zihua Li & Hong Fu

Nano-Micro Lett. 16, 149 (2024). <https://doi.org/10.1007/s40820-024-01362-z>

1. **Ionic Liquid-Enhanced Assembly of Nanomaterials for Highly Stable Flexible Transparent Electrodes (Article)**

Jianmin Yang, Li Chang, Xiqi Zhang, Ziquan Cao & Lei Jiang

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1. **MXene-Based Elastomer Mimetic Stretchable Sensors: Design, Properties, and Applications (Review)**

Poushali Das, Parham Khoshbakht Marvi, Sayan Ganguly, Xiaowu (Shirley) Tang, Bo Wang, Seshasai Srinivasan, Amin Reza Rajabzadeh & Andreas Rosenkranz

Nano-Micro Lett. 16, 135 (2024). <https://doi.org/10.1007/s40820-024-01349-w>

1. **Highly Porous Yet Transparent Mechanically Flexible Aerogels Realizing Solar-Thermal Regulatory Cooling (Article)**

Meng Lian, Wei Ding, Song Liu, Yufeng Wang, Tianyi Zhu, Yue-E. Miao, Chao Zhang & Tianxi Liu

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1. **An Environment-Tolerant Ion-Conducting Double-Network Composite Hydrogel for High-Performance Flexible Electronic Devices (Article)**

Wenchao Zhao, Haifeng Zhou, Wenkang Li, Manlin Chen, Min Zhou & Long Zhao

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1. **Flexible, Transparent and Conductive Metal Mesh Films with Ultra-High FoM for Stretchable Heating and Electromagnetic Interference Shielding (Article)**

Zibo Chen, Shaodian Yang, Junhua Huang, Yifan Gu, Weibo Huang, Shaoyong Liu, Zhiqiang Lin, Zhiping Zeng, Yougen Hu, Zimin Chen, Boru Yang & Xuchun Gui

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1. **A Generic Strategy to Create Mechanically Interlocked Nanocomposite/Hydrogel Hybrid Electrodes for Epidermal Electronics (Article)**

Qian Wang, Yanyan Li, Yong Lin, Yuping Sun, Chong Bai, Haorun Guo, Ting Fang, Gaohua Hu, Yanqing Lu & Desheng Kong

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1. **NH3-Induced In Situ Etching Strategy Derived 3D-Interconnected Porous MXene/Carbon Dots Films for High Performance Flexible Supercapacitors (Article)**

Yongbin Wang, Ningjun Chen, Bin Zhou, Xuefeng Zhou, Ben Pu, Jia Bai, Qi Tang, Yan Liu & Weiqing Yang

Nano-Micro Lett. 15, 231 (2023). <https://doi.org/10.1007/s40820-023-01204-4>

1. **Progress and Challenges Toward Effective Flexible Perovskite Solar Cells (Review)**

Xiongjie Li, Haixuan Yu, Zhirong Liu, Junyi Huang, Xiaoting Ma, Yuping Liu, Qiang Sun, Letian Dai, Shahzada Ahmad, Yan Shen & Mingkui Wang

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1. **Conformal Human–Machine Integration Using Highly Bending-Insensitive, Unpixelated, and Waterproof Epidermal Electronics Toward Metaverse (Article)**

Chao Wei, Wansheng Lin, Liang Wang, Zhicheng Cao, Zijian Huang, Qingliang Liao, Ziquan Guo, Yuhan Su, Yuanjin Zheng, Xinqin Liao & Zhong Chen

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Jiancheng Dong, Yidong Peng, Yiting Zhang, Yujia Chai, Jiayan Long, Yuxi Zhang, Yan Zhao, Yunpeng Huang & Tianxi Liu

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Jing Wen, Yongchuan Wu, Yuxin Gao, Qin Su, Yuntao Liu, Haidi Wu, Hechuan Zhang, Zhanqi Liu, Hang Yao, Xuewu Huang, Longcheng Tang, Yongqian Shi, Pingan Song, Huaiguo Xue & Jiefeng Gao

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1. **Flexible Nanocomposite Conductors for Electromagnetic Interference Shielding (Review)**

Ze Nan, Wei Wei, Zhenhua Lin, Jingjing Chang & Yue Hao

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1. **Dual-Ion Co-Regulation System Enabling High-Performance Electrochemical Artificial Yarn Muscles with Energy-Free Catch States (Article)**

Ming Ren, Lizhong Dong, Xiaobo Wang, Yuxin Li, Yueran Zhao, Bo Cui, Guang Yang, Wei Li, Xiaojie Yuan, Tao Zhou, Panpan Xu, Xiaona Wang, Jiangtao Di & Qingwen Li

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Yeongju Jung, Minwoo Kim, Taegyeom Kim, Jiyong Ahn, Jinwoo Lee & Seung Hwan Ko

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1. **Biological Tissue-Inspired Ultrasoft, Ultrathin, and Mechanically Enhanced Microfiber Composite Hydrogel for Flexible Bioelectronics (Article)**

Qiang Gao, Fuqin Sun, Yue Li, Lianhui Li, Mengyuan Liu, Shuqi Wang, Yongfeng Wang, Tie Li, Lin Liu, Simin Feng, Xiaowei Wang, Seema Agarwal & Ting Zhang

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Yibing Luo, Jianye Li, Qiongling Ding, Hao Wang, Chuan Liu & Jin Wu

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Xiangjiang Meng, Chenchen Cai, Bin Luo, Tao Liu, Yuzheng Shao, Shuangfei Wang & Shuangxi Nie

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1. **Self-Assembled Porous-Reinforcement Microstructure-Based Flexible Triboelectric Patch for Remote Healthcare (Article)**

Hao Lei, Haifeng Ji, Xiaohan Liu, Bohan Lu, Linjie Xie, Eng Gee Lim, Xin Tu, Yina Liu, Peixuan Zhang, Chun Zhao, Xuhui Sun & Zhen Wen

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Kun Chen, Kewei Liang, He Liu, Ruonan Liu, Yiying Liu, Sijia Zeng & Ye Tian

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Xin Wan, Tiansheng Mu & Geping Yin

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1. **Screen-Printable Functional Nanomaterials for Flexible and Wearable Single-Enzyme-Based Energy-Harvesting and Self-Powered Biosensing Devices (Original Article)**

Kornautchaya Veenuttranon, Kanyawee Kaewpradub & Itthipon Jeerapan

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1. **Soft Electronics for Health Monitoring Assisted by Machine Learning (Review)**

Yancong Qiao, Jinan Luo, Tianrui Cui, Haidong Liu, Hao Tang, Yingfen Zeng, Chang Liu, Yuanfang Li, Jinming Jian, Jingzhi Wu, He Tian, Yi Yang, Tian-Ling Ren & Jianhua Zhou

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1. **Bioinspired All-Fibrous Directional Moisture-Wicking Electronic Skins for Biomechanical Energy Harvesting and All-Range Health Sensing (Article)**

Chuanwei Zhi, Shuo Shi, Shuai Zhang, Yifan Si, Jieqiong Yang, Shuo Meng, Bin Fei & Jinlian Hu

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1. **Machine Learning-Enhanced Flexible Mechanical Sensing (Review)**

Yuejiao Wang, Mukhtar Lawan Adam, Yunlong Zhao, Weihao Zheng, Libo Gao, Zongyou Yin & Haitao Zhao

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1. **Ultrasensitive and Highly Stretchable Multiple-Crosslinked Ionic Hydrogel Sensors with Long-Term Stability (Article)**

Jin-Young Yu, Seung Eon Moon, Jeong Hun Kim & Seong Min Kang

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1. **Flexible, Highly Thermally Conductive and Electrically Insulating Phase Change Materials for Advanced Thermal Management of 5G Base Stations and Thermoelectric Generators (Article)**

Ying Lin, Qi Kang, Yijie Liu, Yingke Zhu, Pingkai Jiang, Yiu-Wing Mai & Xingyi Huang

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1. **A Flexible Tribotronic Artificial Synapse with Bioinspired Neurosensory Behavior (Article)**

Jianhua Zeng, Junqing Zhao, Tianzhao Bu, Guoxu Liu, Youchao Qi, Han Zhou, Sicheng Dong & Chi Zhang

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1. **Transparent, Ultra-Stretching, Tough, Adhesive Carboxyethyl Chitin/Polyacrylamide Hydrogel Toward High-Performance Soft Electronics (Article)**

Jipeng Zhang, Yang Hu, Lina Zhang, Jinping Zhou & Ang Lu

Nano-Micro Lett. 15, 8 (2023). <https://doi.org/10.1007/s40820-022-00980-9>

1. **Human Machine Interface with Wearable Electronics Using Biodegradable Triboelectric Films for Calligraphy Practice and Correction (Article)**

Shen Shen, Jia Yi, Zhongda Sun, Zihao Guo, Tianyiyi He, Liyun Ma, Huimin Li, Jiajia Fu, Chengkuo Lee & Zhong Lin Wang

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Qiuwei Shi, Izzat Aziz, Jin-Hao Ciou, Jiangxin Wang, Dace Gao, Jiaqing Xiong & Pooi See Lee

Nano-Micro Lett. 14, 195 (2022). <https://doi.org/10.1007/s40820-022-00929-y>

1. **Supramolecular Polymer Intertwined Free-Standing Bifunctional Membrane Catalysts for All-Temperature Flexible Zn–Air Batteries (Article)**

Nayantara K. Wagh, Sambhaji S. Shinde, Chi Ho Lee, Sung-Hae Kim, Dong-Hyung Kim, Han-Don Um, Sang Uck Lee & Jung-Ho Lee

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1. **High-Transconductance, Highly Elastic, Durable and Recyclable All-Polymer Electrochemical Transistors with 3D Micro-Engineered Interfaces (Article)**

Wenjin Wang, Zhaoxian Li, Mancheng Li, Lvye Fang, Fubin Chen, Songjia Han, Liuyuan Lan, Junxin Chen, Qize Chen, Hongshang Wang, Chuan Liu, Yabin Yang, Wan Yue & Zhuang Xie

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1. **Breathable Electronic Skins for Daily Physiological Signal Monitoring (Review)**

Yi Yang, Tianrui Cui, Ding Li, Shourui Ji, Zhikang Chen, Wancheng Shao, Houfang Liu & Tian-Ling Ren

Nano-Micro Lett. 14, 161 (2022). <https://doi.org/10.1007/s40820-022-00911-8>

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Yuyao Lu, Geng Yang, Yajing Shen, Huayong Yang & Kaichen Xu

Nano-Micro Lett. 14, 150 (2022). <https://doi.org/10.1007/s40820-022-00895-5>

1. **Morphological Engineering of Sensing Materials for Flexible Pressure Sensors and Artificial Intelligence Applications (Review)**

Zhengya Shi, Lingxian Meng, Xinlei Shi, Hongpeng Li, Juzhong Zhang, Qingqing Sun, Xuying Liu, Jinzhou Chen & Shuiren Liu

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1. **High-Performance Flexible Microneedle Array as a Low-Impedance Surface Biopotential Dry Electrode for Wearable Electrophysiological Recording and Polysomnography (Article)**

Junshi Li, Yundong Ma, Dong Huang, Zhongyan Wang, Zhitong Zhang, Yingjie Ren, Mengyue Hong, Yufeng Chen, Tingyu Li, Xiaoyi Shi, Lu Cao, Jiayan Zhang, Bingli Jiao, Junhua Liu, Hongqiang Sun & Zhihong Li

Nano-Micro Lett. 14, 132 (2022). <https://doi.org/10.1007/s40820-022-00870-0>

1. **Bioinspired MXene-Based User-Interactive Electronic Skin for Digital and Visual Dual-Channel Sensing (Article)**

Wentao Cao, Zheng Wang, Xiaohao Liu, Zhi Zhou, Yue Zhang, Shisheng He, Daxiang Cui & Feng Chen

Nano-Micro Lett. 14, 119 (2022). <https://doi.org/10.1007/s40820-022-00838-0>

1. **Highly Flexible and Broad-Range Mechanically Tunable All-Wood Hydrogels with Nanoscale Channels via the Hofmeister Effect for Human Motion Monitoring (Article)**

Guihua Yan, Shuaiming He, Gaofeng Chen, Sen Ma, Anqi Zeng, Binglin Chen, Shuliang Yang, Xing Tang, Yong Sun, Feng Xu, Lu Lin & Xianhai Zeng

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1. **Recent Advances in Design Strategies and Multifunctionality of Flexible Electromagnetic Interference Shielding Materials (Review)**

Junye Cheng, Chuanbing Li, Yingfei Xiong, Huibin Zhang, Hassan Raza, Sana Ullah, Jinyi Wu, Guangping Zheng, Qi Cao, Deqing Zhang, Qingbin Zheng & Renchao Che

Nano-Micro Lett. 14, 80 (2022). <https://doi.org/10.1007/s40820-022-00823-7>

1. **Functionalized Fiber-Based Strain Sensors: Pathway to Next-Generation Wearable Electronics (Review)**

Zekun Liu, Tianxue Zhu, Junru Wang, Zijian Zheng, Yi Li, Jiashen Li & Yuekun Lai

Nano-Micro Lett. 14, 61 (2022). <https://doi.org/10.1007/s40820-022-00806-8>