

Weili Deng

List of Publications by Year in descending order

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56
papers

6,458
citations

94269

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143772

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all docs

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docs citations

57
times ranked

6414
citing authors

#	ARTICLE	IF	CITATIONS
1	A Mussel-Inspired Conductive, Self-Adhesive, and Self-Healable Tough Hydrogel as Cell Stimulators and Implantable Bioelectronics. <i>Small</i> , 2017, 13, 1601916.	5.2	543
2	Sign-to-speech translation using machine-learning-assisted stretchable sensor arrays. <i>Nature Electronics</i> , 2020, 3, 571-578.	13.1	513
3	Lawn Structured Triboelectric Nanogenerators for Scavenging Sweeping Wind Energy on Rooftops. <i>Advanced Materials</i> , 2016, 28, 1650-1656.	11.1	334
4	Cowpea-structured PVDF/ZnO nanofibers based flexible self-powered piezoelectric bending motion sensor towards remote control of gestures. <i>Nano Energy</i> , 2019, 55, 516-525.	8.2	331
5	Self-Powered Acceleration Sensor Based on Liquid Metal Triboelectric Nanogenerator for Vibration Monitoring. <i>ACS Nano</i> , 2017, 11, 7440-7446.	7.3	293
6	Rotating-Disk-Based Hybridized Electromagnetic-Triboelectric Nanogenerator for Sustainably Powering Wireless Traffic Volume Sensors. <i>ACS Nano</i> , 2016, 10, 6241-6247.	7.3	277
7	Microchannel-Confined MXene Based Flexible Piezoresistive Multifunctional Micro-Force Sensor. <i>Advanced Functional Materials</i> , 2020, 30, 1909603.	7.8	248
8	Manipulating Relative Permittivity for High-Performance Wearable Triboelectric Nanogenerators. <i>Nano Letters</i> , 2020, 20, 6404-6411.	4.5	231
9	Hierarchically structured PVDF/ZnO core-shell nanofibers for self-powered physiological monitoring electronics. <i>Nano Energy</i> , 2020, 72, 104706.	8.2	207
10	Rich lamellar crystal baklava-structured PZT/PVDF piezoelectric sensor toward individual table tennis training. <i>Nano Energy</i> , 2019, 59, 574-581.	8.2	204
11	Self-Powered Safety Helmet Based on Hybridized Nanogenerator for Emergency. <i>ACS Nano</i> , 2016, 10, 7874-7881.	7.3	179
12	A linear-to-rotary hybrid nanogenerator for high-performance wearable biomechanical energy harvesting. <i>Nano Energy</i> , 2020, 67, 104235.	8.2	172
13	Ambulatory Cardiovascular Monitoring Via a Machine-Learning-Assisted Textile Triboelectric Sensor. <i>Advanced Materials</i> , 2021, 33, e2104178.	11.1	167
14	Hierarchically Microstructure-Bioinspired Flexible Piezoresistive Bioelectronics. <i>ACS Nano</i> , 2021, 15, 11555-11563.	7.3	163
15	Copper-Catalyzed Radical 1,4-Difunctionalization of 1,3-Enynes with Alkyl Diacyl Peroxides and <i>N</i> -Fluorobenzenesulfonimide. <i>Journal of the American Chemical Society</i> , 2019, 141, 548-559.	6.6	162
16	Self-powered wireless smart sensor based on maglev porous nanogenerator for train monitoring system. <i>Nano Energy</i> , 2017, 38, 185-192.	8.2	152
17	Polarization-free high-crystallization β -PVDF piezoelectric nanogenerator toward self-powered 3D acceleration sensor. <i>Nano Energy</i> , 2018, 50, 632-638.	8.2	150
18	Piezoelectric nanogenerators for personalized healthcare. <i>Chemical Society Reviews</i> , 2022, 51, 3380-3435.	18.7	145

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19	All-Sprayed-Processable, Large-Area, and Flexible Perovskite/MXene-Based Photodetector Arrays for Photocommunication. <i>Advanced Optical Materials</i> , 2019, 7, 1801521.	3.6	144
20	Epidermis-Inspired Ultrathin 3D Cellular Sensor Array for Self-Powered Biomedical Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41070-41075.	4.0	136
21	Engineering Materials at the Nanoscale for Triboelectric Nanogenerators. <i>Cell Reports Physical Science</i> , 2020, 1, 100142.	2.8	130
22	High power supercapacitors based on hierarchically porous sheet-like nanocarbons with ionic liquid electrolytes. <i>Chemical Engineering Journal</i> , 2017, 322, 73-81.	6.6	119
23	Multifunctional triboelectric nanogenerator based on porous micro-nickel foam to harvest mechanical energy. <i>Nano Energy</i> , 2015, 16, 516-523.	8.2	96
24	Establishing highly-efficient surface faradaic reaction in flower-like NiCo ₂ O ₄ nano-/micro-structures for next-generation supercapacitors. <i>Electrochimica Acta</i> , 2019, 307, 302-309.	2.6	95
25	Extremely low self-discharge solid-state supercapacitors via the confinement effect of ion transfer. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8633-8640.	5.2	88
26	Ternary Electrification Layered Architecture for High-Performance Triboelectric Nanogenerators. <i>ACS Nano</i> , 2020, 14, 9050-9058.	7.3	88
27	Massively manufactured paper-based all-solid-state flexible micro-supercapacitors with sprayable MXene conductive inks. <i>Journal of Power Sources</i> , 2019, 415, 1-7.	4.0	79
28	Scalable, and low-cost treating-cutting-coating manufacture platform for MXene-based on-chip micro-supercapacitors. <i>Nano Energy</i> , 2020, 69, 104431.	8.2	78
29	Strong Lewis Acid-Base and Weak Hydrogen Bond Synergistically Enhancing Ionic Conductivity of Poly(ethylene oxide)/SiO ₂ Electrolytes for a High Rate Capability Li-Metal Battery. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10341-10349.	4.0	77
30	A flexible field-limited ordered ZnO nanorod-based self-powered tactile sensor array for electronic skin. <i>Nanoscale</i> , 2016, 8, 16302-16306.	2.8	76
31	Electroresponsive and cell-affinitive polydopamine/polypyrrole composite microcapsules with a dual-function of on-demand drug delivery and cell stimulation for electrical therapy. <i>NPG Asia Materials</i> , 2017, 9, e358-e358.	3.8	75
32	Electrochemically building three-dimensional supramolecular polymer hydrogel for flexible solid-state micro-supercapacitors. <i>Electrochimica Acta</i> , 2019, 301, 136-144.	2.6	69
33	Rationally assembled porous carbon superstructures for advanced supercapacitors. <i>Chemical Engineering Journal</i> , 2019, 361, 1296-1303.	6.6	67
34	Merging Visible-Light Photocatalysis and Transition-Metal Catalysis in Three-Component Alkyl-Fluorination of Olefins with a Fluoride Ion. <i>Organic Letters</i> , 2018, 20, 4245-4249.	2.4	55
35	A piezo-phototronic enhanced serrate-structured ZnO-based heterojunction photodetector for optical communication. <i>Nanoscale</i> , 2019, 11, 3021-3027.	2.8	53
36	MXene based mechanically and electrically enhanced film for triboelectric nanogenerator. <i>Nano Research</i> , 2021, 14, 4833-4840.	5.8	51

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37	Understanding the Potential Screening Effect through the Discretely Structured ZnO Nanorods Piezo Array. <i>Nano Letters</i> , 2020, 20, 4270-4277.	4.5	47
38	Enhancing Lithium Adsorption and Diffusion toward Extraordinary Lithium Storage Capability of Freestanding $\text{Ti}_3\text{C}_2\text{T}_x$ MXene. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2792-2800.	1.5	40
39	Enhanced performance of ZnO microballoon arrays for a triboelectric nanogenerator. <i>Nanotechnology</i> , 2017, 28, 135401.	1.3	31
40	An enhanced low-frequency vibration ZnO nanorod-based tuning fork piezoelectric nanogenerator. <i>Nanoscale</i> , 2018, 10, 843-847.	2.8	29
41	Dielectric micro-capacitance for enhancing piezoelectricity via aligning MXene sheets in composites. <i>Cell Reports Physical Science</i> , 2022, 3, 100814.	2.8	29
42	Computational investigation of ultrasound induced electricity generation via a triboelectric nanogenerator. <i>Nano Energy</i> , 2022, 91, 106656.	8.2	26
43	Preparation and luminescent properties of self-organized broccoli-like SrMoO_4 : Pr^{3+} superparticles. <i>Journal of Luminescence</i> , 2017, 190, 69-75.	1.5	24
44	Microstructure-Based Interfacial Tuning Mechanism of Capacitive Pressure Sensors for Electronic Skin. <i>Journal of Sensors</i> , 2016, 2016, 1-8.	0.6	23
45	From high-yield Ti_3AlCN ceramics to high-quality Ti_3CNT MXenes through eliminating Al segregation. <i>Chinese Chemical Letters</i> , 2020, 31, 1044-1048.	4.8	21
46	Controllable in-situ-oxidization of 3D-networked $\text{Ti}_3\text{C}_2\text{T}_x$ - TiO_2 photodetectors for large-area flexible optical imaging. <i>Nano Energy</i> , 2022, 93, 106889.	8.2	17
47	Iron-Catalyzed Oxyalkylation of Terminal Alkynes with Alkyl Iodides. <i>Organic Letters</i> , 2019, 21, 261-265.	2.4	16
48	Self-Powered Nanocomposites under an External Rotating Magnetic Field for Noninvasive External Power Supply Electrical Stimulation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 38323-38335.	4.0	15
49	Understanding the Enhancement Mechanism of ZnO Nanorod-based Piezoelectric Devices through Surface Engineering. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 29061-29069.	4.0	15
50	Structurally Unraveling the Photocarrier Behavior of $\text{Cu}_2\text{O}/\text{ZnO}$ Heterojunction Photodetectors. <i>ACS Photonics</i> , 2022, 9, 268-274.	3.2	14
51	Coaxially enhanced photocarrier transport of a highly oriented $\text{Cu}_2\text{ZnSnS}_4/\text{ZnO}$ photodetector through the nanoconfinement effect. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3491-3497.	2.7	13
52	The ratiometric fluorescent probes for monitoring the reactive inorganic sulfur species (RISS) signal in the living cell. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 231, 118141.	2.0	13
53	Iron-Catalyzed Carbiodination of Alkynes. <i>Synthesis</i> , 2018, 50, 2974-2980.	1.2	11
54	One-step hot injection synthesis of gradient alloy $\text{Cd}_x\text{Zn}_{1-x}\text{Se}_y$ quantum dots with large-span self-regulating ability. <i>Journal of Luminescence</i> , 2019, 206, 565-570.	1.5	9

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55	Superstretchable electrode based on hierarchical assembly of triblock copolymer fiber membrane. Chemical Engineering Journal, 2022, 430, 132911.	6.6	9
56	All-sprayable Hierarchically Nanostructured Conducting Polymer Hydrogel for Massively Manufactured Flexible All-solid-state Supercapacitor. Energy Technology, 2019, 7, 1801109.	1.8	6