Peihong Wang

List of Publications by Year
in descending order

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Version: 2024-02-01

80 papers	5,630 citations	147801 31 h-index	85541 71 g-index
80 all docs	80 docs citations	80 times ranked	4999 citing authors

#	Article	IF	Citations
1	Self-powered droplet manipulation system for microfluidics based on triboelectric nanogenerator harvesting rotary energy. Lab on A Chip, 2021, 21, 284-295.	6.0	39
2	Super-Durable and Highly Efficient Electrostatic Induced Nanogenerator Circulation Network Initially Charged by a Triboelectric Nanogenerator for Harvesting Environmental Energy. ACS Nano, 2021, 15, 6949-6960.	14.6	37
3	A piezoelectric power generator based on axisymmetrically distributed PVDF array for two-dimension vibration energy harvesting and direction sensing. Sustainable Energy Technologies and Assessments, 2021, 44, 101001.	2.7	16
4	A key antisense sRNA modulates the oxidative stress response and virulence in Xanthomonas oryzae pv. oryzicola. PLoS Pathogens, 2021, 17, e1009762.	4.7	3
5	A whirligig-inspired intermittent-contact triboelectric nanogenerator for efficient low-frequency vibration energy harvesting. Nano Energy, 2021, 90, 106576.	16.0	39
6	Multi-cylinder-based hybridized electromagnetic-triboelectric nanogenerator harvesting multiple fluid energy for self-powered pipeline leakage monitoring and anticorrosion protection. Nano Energy, 2021, 89, 106467.	16.0	25
7	A pendulum-plucked rotor for efficient exploitation of ultralow-frequency mechanical energy. Renewable Energy, 2021, 179, 339-350.	8.9	29
8	A-to-I mRNA Editing in a Ferric Siderophore Receptor Improves Competition for Iron in Xanthomonas oryzae pv. oryzicola. Microbiology Spectrum, 2021, 9, e0157121.	3.0	5
9	A Direction Self-Tuning Two-Dimensional Piezoelectric Vibration Energy Harvester. Sensors, 2020, 20, 77.	3.8	18
10	A Tower-Shaped Three-Dimensional Piezoelectric Energy Harvester for Low-Level and Low-Frequency Vibration. International Journal of Precision Engineering and Manufacturing - Green Technology, 2020, 8, 1537.	4.9	9
11	High-performance cylindrical pendulum shaped triboelectric nanogenerators driven by water wave energy for full-automatic and self-powered wireless hydrological monitoring system. Nano Energy, 2020, 74, 104937.	16.0	89
12	Advances in Piezoâ€Phototronic Effect Enhanced Photocatalysis and Photoelectrocatalysis. Advanced Energy Materials, 2020, 10, 2000214.	19.5	333
13	Quantifying and understanding the triboelectric series of inorganic non-metallic materials. Nature Communications, 2020, 11, 2093.	12.8	287
14	An Easily Assembled Electromagneticâ€Triboelectric Hybrid Nanogenerator Driven by Magnetic Coupling for Fluid Energy Harvesting and Selfâ€Powered Flow Monitoring in a Smart Home/City. Advanced Materials Technologies, 2019, 4, 1900741.	5.8	87
15	Honeycomb Structure Inspired Triboelectric Nanogenerator for Highly Effective Vibration Energy Harvesting and Selfâ€Powered Engine Condition Monitoring. Advanced Energy Materials, 2019, 9, 1902460.	19.5	133
16	Quantifying the triboelectric series. Nature Communications, 2019, 10, 1427.	12.8	1,107
17	A two-dimensional energy harvester with radially distributed piezoelectric array for vibration with arbitrary in-plane directions. Journal of Intelligent Material Systems and Structures, 2019, 30, 1094-1104.	2.5	17
18	Piezoelectric ZnO thin films for 2DOF MEMS vibrational energy harvesting. Surface and Coatings Technology, 2019, 359, 289-295.	4.8	110

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19	Enhanced Microwave Absorption Properties of Metal Organic Framework (MOF)-Derived Carbonaceous ZnO Incorporated Reduced Graphene Oxide Composites. Nano, 2019, 14, 1950005.	1.0	4
20	Effect of post-annealing on microstructure and piezoelectric properties of ZnO thin film for triangular shaped vibration energy harvester. Surface and Coatings Technology, 2019, 361, 123-129.	4.8	14
21	On the Electronâ€Transfer Mechanism in the Contactâ€Electrification Effect. Advanced Materials, 2018, 30, e1706790.	21.0	483
22	Liquid-FEP-based U-tube triboelectric nanogenerator for harvesting water-wave energy. Nano Research, 2018, 11, 4062-4073.	10.4	143
23	A Soft and Robust Spring Based Triboelectric Nanogenerator for Harvesting Arbitrary Directional Vibration Energy and Selfâ€Powered Vibration Sensing. Advanced Energy Materials, 2018, 8, 1702432.	19.5	186
24	Complementary Electromagneticâ€Triboelectric Active Sensor for Detecting Multiple Mechanical Triggering. Advanced Functional Materials, 2018, 28, 1705808.	14.9	87
25	Shape Memory Polymers for Body Motion Energy Harvesting and Selfâ€Powered Mechanosensing. Advanced Materials, 2018, 30, 1705195.	21.0	249
26	Multi-layer monoclinic BiVO4 with oxygen vacancies and V4+ species for highly efficient visible-light photoelectrochemical applications. Applied Catalysis B: Environmental, 2018, 221, 187-195.	20.2	180
27	Microstructure and Doping/Temperature-Dependent Photoluminescence of ZnO Nanospears Array Prepared by Hydrothermal Method. Nanoscale Research Letters, 2018, 13, 223.	5.7	15
28	An Ultra-Low-Friction Triboelectricâ€“Electromagnetic Hybrid Nanogenerator for Rotation Energy Harvesting and Self-Powered Wind Speed Sensor. ACS Nano, 2018, 12, 9433-9440.	14.6	286
29	Enhanced Electromagnetic Wave Absorption Performance of Co0.5Zn0.5 ZIF-Derived Binary Co/ZnO and RGO Composites. Journal of Electronic Materials, 2018, 47, 4910-4918.	2.2	10
30	Raising the Working Temperature of a Triboelectric Nanogenerator by Quenching Down Electron Thermionic Emission in Contactâ€Electrification. Advanced Materials, 2018, 30, e1803968.	21.0	199
31	Versatile Coreâ€“Sheath Yarn for Sustainable Biomechanical Energy Harvesting and Realâ€Time Humanâ€Interactive Sensing. Advanced Energy Materials, 2018, 8, 1801114.	19.5	212
32	Interfacial modulation and electrical properties improvement of solution-processed ZrO 2 gate dielectrics upon Gd incorporation. Journal of Alloys and Compounds, 2017, 699, 415-420.	5.5	22
33	Effect of ZnS layers on optical properties of prepared CdS/TiO2 nanotube arrays for photocatalyst. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	6
34	Microstructure, opotoelectrical and pre-strain dependent electrical properties of AZO films on flexible glass substrates for flexible electronics. Surface and Coatings Technology, 2017, 320, 34-38.	4.8	11
35	Deposition and characterization of AZO thin films on flexible glass substrates using DC magnetron sputtering technique. Ceramics International, 2017, 43, 4536-4544.	4.8	50
36	Piezo-phototronic Effect Enhanced Responsivity of Photon Sensor Based on Composition-Tunable Ternary CdS_xSe_{1â€“x} Nanowires. ACS Photonics, 2017, 4, 2495-2503.	6.6	48

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37	Functional Group Effects on the Photoelectronic Properties of MXene (Sc2CT2, T = O, F, OH) and Their Possible Photocatalytic Activities. Scientific Reports, 2017, 7, 15095.	3.3	74
38	Effect of oxygen partial pressure and transparent substrates on the structural and optical properties of ZnO thin films and their performance in energy harvesters. International Journal of Minerals, Metallurgy and Materials, 2017, 24, 675-680.	4.9	6
39	Single-layer and double-layer microwave absorbers based on Co67Ni33 microspheres and Ni0.6Zn0.4Fe2O4 nanocrystals. Journal of Magnetism and Magnetic Materials, 2017, 425, 25-30.	2.3	18
40	Baking-temperature-modulated optical and electrical properties of HfTiOx gate dielectrics via sol-gel method. Journal of Alloys and Compounds, 2016, 688, 925-932.	5.5	8
41	Fabrication of Well-Aligned TiO₂Nanotube Arrays with Outstanding Light-Induced Hydrophilicity Performance. Journal of the Electrochemical Society, 2016, 163, E372-E377.	2.9	5
42	Microstructure, optical, electrical properties, and leakage current transport mechanism of solâ€“gel-processed high- k HfO 2 gate dielectrics. Ceramics International, 2016, 42, 6761-6769.	4.8	27
43	High microwave permittivity and resonanceâ€“antiresonance electromagnetic behaviors of flake-shaped cobalt microcrystals. Materials Chemistry and Physics, 2015, 159, 173-177.	4.0	15
44	Determination of optical constant and electrical properties of sputtering-derived HfTiON gate dielectrics. Journal of Alloys and Compounds, 2015, 646, 10-15.	5.5	5
45	ZnO thin film piezoelectric MEMS vibration energy harvesters with two piezoelectric elements for higher output performance. Review of Scientific Instruments, 2015, 86, 075002.	1.3	68
46	Fabrication and performance of ZnO piezoelectric cantilever for vibration energy harvesting. , 2015, , .		4
47	Magnetic and microwave absorption properties of self-assemblies composed of coreâ€“shell cobaltâ€“cobalt oxide nanocrystals. Physical Chemistry Chemical Physics, 2015, 17, 3796-3801.	2.8	107
48	Enhanced charge collection and photocatalysis performance of CdS and PbS nanoclusters co-sensitized TiO2 porous film. Journal of Alloys and Compounds, 2015, 649, 190-195.	5.5	34
49	Modification of band offsets of InGaZnO4/Si heterojunction through nitrogenation treatment. Journal of Alloys and Compounds, 2015, 647, 1035-1039.	5.5	15
50	Temperature-dependent differences in wettability and photocatalysis of TiO 2 nanotube arrays thin films. Applied Surface Science, 2015, 356, 546-552.	6.1	44
51	Modulation of optical and electrical properties of sputtering-derived amorphous InGaZnO thin films by oxygen partial pressure. Journal of Alloys and Compounds, 2014, 615, 636-642.	5.5	44
52	Contribution of citrulline to the formation of ethyl carbamate during Chinese rice wine production. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2014, 31, 587-592.	2.3	23
53	Effects of sterilization temperature on the concentration of ethyl carbamate and other quality traits in Chinese rice wine. Journal of the Institute of Brewing, 2014, 120, n/a-n/a.	2.3	4
54	A ZnO microcantilever for high-frequency nanopositioning: Modeling, fabrication and characterization. Sensors and Actuators A: Physical, 2013, 194, 75-83.	4.1	9

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55	Ni3Zn ferrite octahedral nanoparticles with high microwave permeability and high magnetic loss tangent. Journal of Magnetism and Magnetic Materials, 2013, 344, 101-104.	2.3	22
56	A ZnO thin-film driven microcantilever for nanoscale actuation and sensing. International Journal of Smart and Nano Materials, 2013, 4, 128-141.	4.2	20
57	Magnetic and microwave absorption properties of Ni microcrystals with hierarchical branch-like and flowers-like shapes. Materials Chemistry and Physics, 2013, 142, 119-123.	4.0	51
58	Resin-bonded NdFeB micromagnets for integration into electromagnetic vibration energy harvesters. Journal of Zhejiang University: Science C, 2013, 14, 283-287.	0.7	6
59	A ZnO Driven Silicon Cantilever for Nanoscale Actuation. Advanced Materials Research, 2012, 486, 23-26.	0.3	0
60	Design and Simulation of Fully Integrated Micro Electromagnetic Vibration Energy Harvester. Applied Mechanics and Materials, 2012, 152-154, 1087-1090.	0.2	0
61	Development of microelectromechanical systems electromagnetic vibration energy scavengers with a nonlinear electroplated nickel spring. Micro and Nano Letters, 2012, 7, 1173-1175.	1.3	6
62	Simulation of thermal flying height control slider with built-in contact sensor. Microsystem Technologies, 2012, 18, 1591-1596.	2.0	1
63	Deposition, characterization and optimization of zinc oxide thin film for piezoelectric cantilevers. Applied Surface Science, 2012, 258, 9510-9517.	6.1	28
64	Fully integrated micro electromagnetic vibration energy harvesters with micro-patterning of bonded magnets. , 2012, , .		18
65	Electromagnetic bistable microactuator fabricated on a single wafer. Micro and Nano Letters, 2012, 7, 99.	1.3	6
66	Design, simulation, fabrication and characterization of a micro electromagnetic vibration energy harvester with sandwiched structure and air channel. Microelectronics Journal, 2012, 43, 154-159.	2.0	17
67	Preparation and characterization of ZnO microcantilever for nanoactuation. Nanoscale Research Letters, 2012, 7, 176.	5.7	21
68	Annealing-Ambient-Dependent Thermal Stability of Ultrathin AlO<I>_x</I>N<I>_y</I> Films Grown by Metalorganic Chemical Vapor Deposition. Science of Advanced Materials, 2012, 4, 1078-1084.	0.7	2
69	Design of nonlinear springs for wideband magnetic vibration energy harvester. , 2011, , .		3
70	Microwave anneal effect on magnetic properties of Ni0.6Zn0.4Fe2O4 nano-particles prepared by conventional hydrothermal method. Journal of Magnetism and Magnetic Materials, 2011, 323, 3121-3125.	2.3	37
71	Design, fabrication and characterization of a bistable electromagnetic microrelay with large displacement. Microelectronics Journal, 2011, 42, 992-998.	2.0	24
72	Fabircaiton and Characterization of a New Bi-Stable Electromagnetic Microrelay. Advanced Materials Research, 2011, 211-212, 605-608.	0.3	0

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73	A microelectroplated magnetic vibration energy scavenger for wireless sensor microsystems. , 2010, , .		1
74	A new electroplating mask for deep wet etching on glass. , 2010, , .		0
75	Electromagnetic self-powered low-level vibration energy scavenger with microelectroplated nickel resonator. Electronics Letters, 2009, 45, 832.	1.0	9
76	A micro electromagnetic low level vibration energy harvester based on MEMS technology. Microsystem Technologies, 2009, 15, 941-951.	2.0	162
77	Wet releasing and stripping SU-8 structures with a nanoscale sacrificial layer. Microelectronic Engineering, 2009, 86, 2232-2235.	2.4	18
78	Fabrication and dynamic analysis of the electrostatically actuated MEMS variable capacitor. Microsystem Technologies, 2008, 14, 397-402.	2.0	9
79	Design, fabrication and performance of a new vibration-based electromagnetic micro power generator. Microelectronics Journal, 2007, 38, 1175-1180.	2.0	68
80	Fabrication and Characterization of Bonded NdFeB Microstructures for Microelectromechanical Systems Applications. Advanced Materials Research, 0, 211-212, 561-564.	0.3	3