

# Xiao Peng

## List of Publications by Year in descending order

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59  
papers

5,819  
citations

76326

40  
h-index

144013

57  
g-index

59  
all docs

59  
docs citations

59  
times ranked

3664  
citing authors

#	ARTICLE	IF	CITATIONS
1	Triboelectric Nanogenerator Based on a Rotational Magnetic Ball for Harvesting Transmission Line Magnetic Energy. <i>Advanced Functional Materials</i> , 2022, 32, 2108827.	14.9	33
2	Ultrathin Stretchable All-Fiber Electronic Skin for Highly Sensitive Self-Powered Human Motion Monitoring. <i>Nanoenergy Advances</i> , 2022, 2, 52-63.	7.7	9
3	Helical Fiber Strain Sensors Based on Triboelectric Nanogenerators for Self-Powered Human Respiratory Monitoring. <i>ACS Nano</i> , 2022, 16, 2811-2821.	14.6	102
4	Advances in High-Performance Autonomous Energy and Self-Powered Sensing Textiles with Novel 3D Fabric Structures. <i>Advanced Materials</i> , 2022, 34, e2109355.	21.0	118
5	Sweat-Permeable, Biodegradable, Transparent and Self-powered Chitosan-Based Electronic Skin with Ultrathin Elastic Gold Nanofibers. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	80
6	Underwater Monitoring Networks Based on Cable-Structured Triboelectric Nanogenerators. <i>Research</i> , 2022, 2022, 9809406.	5.7	4
7	Ultrathin Eardrum-Inspired Self-Powered Acoustic Sensor for Vocal Synchronization Recognition with the Assistance of Machine Learning. <i>Small</i> , 2022, 18, e2106960.	10.0	43
8	Large-scale fabrication of core-shell triboelectric braided fibers and power textiles for energy harvesting and plantar pressure monitoring. <i>EcoMat</i> , 2022, 4, .	11.9	44
9	A Dual-Mode Triboelectric Nanogenerator for Wind Energy Harvesting and Self-Powered Wind Speed Monitoring. <i>ACS Nano</i> , 2022, 16, 6244-6254.	14.6	111
10	Smart Textile Triboelectric Nanogenerators: Prospective Strategies for Improving Electricity Output Performance. <i>Nanoenergy Advances</i> , 2022, 2, 133-164.	7.7	59
11	Industrial production of bionic scales knitting fabric-based triboelectric nanogenerator for outdoor rescue and human protection. <i>Nano Energy</i> , 2022, 97, 107168.	16.0	28
12	A self-powered and concealed sensor based on triboelectric nanogenerators for cultural-relic anti-theft systems. <i>Nano Research</i> , 2022, 15, 8435-8441.	10.4	9
13	An Open-Environment Tactile Sensing System: Toward Simple and Efficient Material Identification. <i>Advanced Materials</i> , 2022, 34, e2203073.	21.0	72
14	Vibration-Driven Triboelectric Nanogenerator for Vibration Attenuation and Condition Monitoring for Transmission Lines. <i>Nano Letters</i> , 2022, 22, 5584-5591.	9.1	36
15	Enhanced Output of On-Body Direct-Current Power Textiles by Efficient Energy Management for Sustainable Working of Mobile Electronics. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	23
16	Hybrid Triboelectric-Electromagnetic Magnetic Energy Harvester-Based Sensing for Wireless Monitoring of Transmission Lines. <i>Small</i> , 2022, 18, .	10.0	14
17	Stretchable, Washable, and Ultrathin Triboelectric Nanogenerators as Skin-Like Highly Sensitive Self-Powered Haptic Sensors. <i>Advanced Functional Materials</i> , 2021, 31, .	14.9	155
18	Multi-Layer Extreme Learning Machine-Based Keystroke Dynamics Identification for Intelligent Keyboard. <i>IEEE Sensors Journal</i> , 2021, 21, 2324-2333.	4.7	10

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19	Flexible and Stretchable Fiber-Shaped Triboelectric Nanogenerators for Biomechanical Monitoring and Human-Interactive Sensing. <i>Advanced Functional Materials</i> , 2021, 31, 2006679.	14.9	145
20	All-in-one 3D acceleration sensor based on coded liquid-metal triboelectric nanogenerator for vehicle restraint system. <i>Materials Today</i> , 2021, 43, 37-44.	14.2	113
21	UV-Protective, Self-Cleaning, and Antibacterial Nanofiber-Based Triboelectric Nanogenerators for Self-Powered Human Motion Monitoring. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 11205-11214.	8.0	111
22	Smart Wearable Sensors Based on Triboelectric Nanogenerator for Personal Healthcare Monitoring. <i>Micromachines</i> , 2021, 12, 352.	2.9	62
23	Fully Fabric-Based Triboelectric Nanogenerators as Self-Powered Human-Machine Interactive Keyboards. <i>Nano-Micro Letters</i> , 2021, 13, 103.	27.0	96
24	A Skin-Inspired Triboelectric Nanogenerator with an Interpenetrating Structure for Motion Sensing and Energy Harvesting. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2100147.	3.6	13
25	All-Nanofiber Self-Powered Skin-Interfaced Real-Time Respiratory Monitoring System for Obstructive Sleep Apnea-Hypopnea Syndrome Diagnosing. <i>Advanced Functional Materials</i> , 2021, 31, 2103559.	14.9	115
26	A review on emerging biodegradable polymers for environmentally benign transient electronic skins. <i>Journal of Materials Science</i> , 2021, 56, 16765-16789.	3.7	49
27	Scalable and washable 3D warp-knitted spacer power fabrics for energy harvesting and pressure sensing. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 424006.	2.8	23
28	Dual-mode thermal-regulating and self-powered pressure sensing hybrid smart fibers. <i>Chemical Engineering Journal</i> , 2021, 420, 129650.	12.7	34
29	Self-Powered Smart Arm Training Band Sensor Based on Extremely Stretchable Hydrogel Conductors. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 44868-44877.	8.0	49
30	Design Optimization of Soft-Contact Freestanding Rotary Triboelectric Nanogenerator for High-Output Performance. <i>Advanced Energy Materials</i> , 2021, 11, 2102106.	19.5	45
31	High output direct-current power fabrics based on the air breakdown effect. <i>Energy and Environmental Science</i> , 2021, 14, 2460-2471.	30.8	58
32	Integrated All-Fiber Electronic Skin toward Self-Powered Sensing Sports Systems. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 50329-50337.	8.0	60
33	A Hydrophobic Self-Repairing Power Textile for Effective Water Droplet Energy Harvesting. <i>ACS Nano</i> , 2021, 15, 18172-18181.	14.6	83
34	Fiber/Fabric-Based Piezoelectric and Triboelectric Nanogenerators for Flexible/Stretchable and Wearable Electronics and Artificial Intelligence. <i>Advanced Materials</i> , 2020, 32, e1902549.	21.0	826
35	Rationally designed rotation triboelectric nanogenerators with much extended lifetime and durability. <i>Nano Energy</i> , 2020, 68, 104378.	16.0	111
36	Flame-Retardant Textile-Based Triboelectric Nanogenerators for Fire Protection Applications. <i>ACS Nano</i> , 2020, 14, 15853-15863.	14.6	133

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37	Self-Powered Sensors and Systems Based on Nanogenerators. <i>Sensors</i> , 2020, 20, 2925.	3.8	195
38	Shape adaptable and highly resilient 3D braided triboelectric nanogenerators as e-textiles for power and sensing. <i>Nature Communications</i> , 2020, 11, 2868.	12.8	285
39	A breathable, biodegradable, antibacterial, and self-powered electronic skin based on all-nanofiber triboelectric nanogenerators. <i>Science Advances</i> , 2020, 6, eaba9624.	10.3	589
40	Actuation and sensor integrated self-powered cantilever system based on TENG technology. <i>Nano Energy</i> , 2019, 64, 103920.	16.0	60
41	Multifunctional Sensor Based on Translationalâ€“Rotary Triboelectric Nanogenerator. <i>Advanced Energy Materials</i> , 2019, 9, 1901124.	19.5	101
42	A Hybridized Triboelectricâ€“Electromagnetic Water Wave Energy Harvester Based on a Magnetic Sphere. <i>ACS Nano</i> , 2019, 13, 2349-2356.	14.6	92
43	TriboPump: A Lowâ€“Cost, Handâ€“Powered Water Disinfection System. <i>Advanced Energy Materials</i> , 2019, 9, 1901320.	19.5	74
44	Energy Harvestingâ€“Storage Bracelet Incorporating Electrochemical Microsupercapacitors Selfâ€“Charged from a Single Hand Gesture. <i>Advanced Energy Materials</i> , 2019, 9, 1900152.	19.5	47
45	Electrohydrodynamic Jet Printing Driven by a Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2019, 29, 1901102.	14.9	59
46	Rational Structure Optimized Hybrid Nanogenerator for Highly Efficient Water Wave Energy Harvesting. <i>Advanced Energy Materials</i> , 2019, 9, 1802892.	19.5	92
47	Direct-Current Rotary-Tubular Triboelectric Nanogenerators Based on Liquid-Dielectrics Contact for Sustainable Energy Harvesting and Chemical Composition Analysis. <i>ACS Nano</i> , 2019, 13, 2587-2598.	14.6	66
48	Boosting the Solar Cell Efficiency by Flexo-photovoltaic Effect?. <i>ACS Nano</i> , 2019, 13, 12259-12267.	14.6	111
49	A Triboelectric Nanogeneratorâ€“Based Smart Insole for Multifunctional Gait Monitoring. <i>Advanced Materials Technologies</i> , 2019, 4, 1800360.	5.8	181
50	A Stretchable Yarn Embedded Triboelectric Nanogenerator as Electronic Skin for Biomechanical Energy Harvesting and Multifunctional Pressure Sensing. <i>Advanced Materials</i> , 2018, 30, e1804944.	21.0	396
51	Self-Powered Multifunctional Motion Sensor Enabled by Magnetic-Regulated Triboelectric Nanogenerator. <i>ACS Nano</i> , 2018, 12, 5726-5733.	14.6	109
52	Note: High-efficiency broadband acoustic energy harvesting using Helmholtz resonator and dual piezoelectric cantilever beams. <i>Review of Scientific Instruments</i> , 2014, 85, 066103.	1.3	44
53	Significant tuning of band structures of magneto-mechanical phononic crystals using extraordinarily small magnetic fields. <i>Applied Physics Letters</i> , 2014, 105, 011904.	3.3	14
54	Enhanced acoustic wave localization effect using coupled sonic crystal resonators. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	26

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55	A Power Supply of Self-Powered Online Monitoring Systems for Power Cords. IEEE Transactions on Energy Conversion, 2013, 28, 921-928.	5.2	54
56	Enhanced acoustoelectric coupling in acoustic energy harvester using dual helmholtz resonators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, .	3.0	1
57	A wideband acoustic energy harvester using a three degree-of-freedom architecture. Applied Physics Letters, 2013, 103, .	3.3	36
58	Influence of shape demagnetizing effect on piezomagnetic coefficient in magnetostrictive/piezoelectric laminate composite. , 2012, , .		1
59	A Triboelectricâ€“Electromagnetic Hybrid Nanogenerator with Broadband Working Range for Wind Energy Harvesting and a Self-Powered Wind Speed Sensor. ACS Energy Letters, 0, , 1443-1452.	17.4	110