

Wei Tang

List of Publications by Year in descending order

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42
papers

5,858
citations

182225

30
h-index

299063

42
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all docs

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docs citations

42
times ranked

5759
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible Filmâ€Dischargeâ€Switch Assisted Universal Power Management System for the Four Operation Modes of Triboelectric Nanogenerators. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	19
2	Rehabilitation of Total Knee Arthroplasty by Integrating Conjoint Isometric Myodynamia and Realâ€Time Rotation Sensing System. <i>Advanced Science</i> , 2022, 9, e2105219.	5.6	28
3	Contact-electro-catalysis for the degradation of organic pollutants using pristine dielectric powders. <i>Nature Communications</i> , 2022, 13, 130.	5.8	83
4	Activeâ€Matrix Sensing Array Assisted with Machineâ€Learning Approach for Lumbar Degenerative Disease Diagnosis and Postoperative Assessment. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	34
5	Self-powered ammonia synthesis under ambient conditions via N ₂ discharge driven by Tesla turbine triboelectric nanogenerators. <i>Microsystems and Nanoengineering</i> , 2021, 7, 7.	3.4	24
6	Sensing of joint and spinal bending or stretching via a retractable and wearable badge reel. <i>Nature Communications</i> , 2021, 12, 2950.	5.8	114
7	Advanced 3D printing-based triboelectric nanogenerator for mechanical energy harvesting and self-powered sensing. <i>Materials Today</i> , 2021, 50, 224-238.	8.3	73
8	Active-Sensing Epidermal Stretchable Bioelectronic Patch for Noninvasive, Conformal, and Wireless Tendon Monitoring. <i>Research</i> , 2021, 2021, 9783432.	2.8	6
9	Bioinspired Triboelectric Soft Robot Driven by Mechanical Energy. <i>Advanced Functional Materials</i> , 2021, 31, 2104770.	7.8	36
10	Self-powered silicon PIN photoelectric detection system based on triboelectric nanogenerator. <i>Nano Energy</i> , 2020, 69, 104461.	8.2	31
11	A Triboelectric Closedâ€Loop Sensing System for Authenticity Identification of Paperâ€Based Artworks. <i>Advanced Materials Technologies</i> , 2020, 5, 2000194.	3.0	5
12	Effect of Redox Atmosphere on Contact Electrification of Polymers. <i>ACS Nano</i> , 2020, 14, 17354-17364.	7.3	15
13	Energy Harvesting from Breeze Wind (0.7×10^{-1}) Using Ultraâ€Stretchable Triboelectric Nanogenerator. <i>Advanced Energy Materials</i> , 2020, 10, 2001770.	10.2	107
14	Self-powered electrocatalytic ammonia synthesis directly from air as driven by dual triboelectric nanogenerators. <i>Energy and Environmental Science</i> , 2020, 13, 2450-2458.	15.6	84
15	A Selfâ€Powered Angle Sensor at Nanoradianâ€Resolution for Robotic Arms and Personalized Medicare. <i>Advanced Materials</i> , 2020, 32, e2001466.	11.1	93
16	Wind-Driven Radial-Engine-Shaped Triboelectric Nanogenerators for Self-Powered Absorption and Degradation of NO _x . <i>ACS Nano</i> , 2020, 14, 2751-2759.	7.3	56
17	Effects of Environmental Atmosphere on the Performance of Contactâ€Separation Mode TENG. <i>Advanced Materials Technologies</i> , 2019, 4, 1800569.	3.0	23
18	Power management and effective energy storage of pulsed output from triboelectric nanogenerator. <i>Nano Energy</i> , 2019, 61, 517-532.	8.2	135

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19	Recent Progress in Power Generation from Water/Liquid Droplet Interaction with Solid Surfaces. <i>Advanced Functional Materials</i> , 2019, 29, 1901069.	7.8	147
20	Flexible and durable wood-based triboelectric nanogenerators for self-powered sensing in athletic big data analytics. <i>Nature Communications</i> , 2019, 10, 5147.	5.8	335
21	Bladeless Turbine-Based Triboelectric Nanogenerator for Fluid Energy Harvesting and Self-Powered Fluid Gauge. <i>Advanced Materials Technologies</i> , 2019, 4, 1800560.	3.0	30
22	Self-powered versatile shoes based on hybrid nanogenerators. <i>Nano Research</i> , 2018, 11, 3972-3978.	5.8	45
23	A Self-Powered Portable Power Bank Based on a Hybridized Nanogenerator. <i>Advanced Materials Technologies</i> , 2018, 3, 1700209.	3.0	15
24	Three-dimensional ultraflexible triboelectric nanogenerator made by 3D printing. <i>Nano Energy</i> , 2018, 45, 380-389.	8.2	178
25	A Stretchable, Flexible Triboelectric Nanogenerator for Self-Powered Real-Time Motion Monitoring. <i>Advanced Materials Technologies</i> , 2018, 3, 1800021.	3.0	68
26	Water wave energy harvesting and self-powered liquid-surface fluctuation sensing based on bionic-jellyfish triboelectric nanogenerator. <i>Materials Today</i> , 2018, 21, 88-97.	8.3	192
27	Ultrafine Capillary Tube Triboelectric Nanogenerator as Active Sensor for Microliquid Biological and Chemical Sensing. <i>Advanced Materials Technologies</i> , 2018, 3, 1700229.	3.0	64
28	Self-Powered Insole Plantar Pressure Mapping System. <i>Advanced Functional Materials</i> , 2018, 28, 1801606.	7.8	104
29	Structural figure-of-merits of triboelectric nanogenerators at powering loads. <i>Nano Energy</i> , 2018, 51, 688-697.	8.2	59
30	Direct-Current Triboelectric Nanogenerator Realized by Air Breakdown Induced Ionized Air Channel. <i>Advanced Energy Materials</i> , 2018, 8, 1800889.	10.2	111
31	Self-powered triboelectric nano vibration accelerometer based wireless sensor system for railway state health monitoring. <i>Nano Energy</i> , 2017, 34, 549-555.	8.2	85
32	Characteristics of triboelectrification on dielectric surfaces contacted with a liquid metal in different gases. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	22
33	Integrated triboelectric nanogenerator array based on air-driven membrane structures for water wave energy harvesting. <i>Nano Energy</i> , 2017, 31, 351-358.	8.2	162
34	Flexible Nanogenerators for Energy Harvesting and Self-Powered Electronics. <i>Advanced Materials</i> , 2016, 28, 4283-4305.	11.1	1,438
35	Liquid-Metal Electrode for High-Performance Triboelectric Nanogenerator at an Instantaneous Energy Conversion Efficiency of 70.6%. <i>Advanced Functional Materials</i> , 2015, 25, 3718-3725.	7.8	427
36	Self-powered metal surface anti-corrosion protection using energy harvested from rain drops and wind. <i>Nano Energy</i> , 2015, 14, 193-200.	8.2	122

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37	Self-powered cleaning of air pollution by wind driven triboelectric nanogenerator. Nano Energy, 2015, 14, 217-225.	8.2	217
38	Implantable Self-Powered Low-Level Laser Cure System for Mouse Embryonic Osteoblastsâ€™ Proliferation and Differentiation. ACS Nano, 2015, 9, 7867-7873.	7.3	138
39	Standards and figure-of-merits for quantifying the performance of triboelectric nanogenerators. Nature Communications, 2015, 6, 8376.	5.8	644
40	Enhancing Output Power of Cylindrical Triboelectric Nanogenerators by Segmentation Design and Multilayer Integration. Advanced Functional Materials, 2014, 24, 6684-6690.	7.8	86
41	Cover-sheet-based nanogenerator for charging mobile electronics using low-frequency body motion/vibration. Nano Energy, 2014, 9, 121-127.	8.2	95
42	Self-powered flexible printed circuit board with integrated triboelectric generator. Nano Energy, 2013, 2, 1101-1106.	8.2	108