

Di Liu

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

3,890
citations

185998

28
h-index

344852

36
g-index

38
all docs

38
docs citations

38
times ranked

2293
citing authors

#	ARTICLE	IF	CITATIONS
1	Transient physical modeling and comprehensive optimal design of air-breakdown direct-current triboelectric nanogenerators. <i>Nano Energy</i> , 2022, 92, 106742.	8.2	12
2	Improving performance of triboelectric nanogenerators by dielectric enhancement effect. <i>Matter</i> , 2022, 5, 180-193.	5.0	53
3	Rehabilitation of Total Knee Arthroplasty by Integrating Conjoint Isometric Myodynamia and Real-Time Rotation Sensing System. <i>Advanced Science</i> , 2022, 9, e2105219.	5.6	28
4	A Self-Powered Dual-Type Signal Vector Sensor for Smart Robotics and Automatic Vehicles. <i>Advanced Materials</i> , 2022, 34, e2110363.	11.1	48
5	A Tuning-Fork Triboelectric Nanogenerator with Frequency Multiplication for Efficient Mechanical Energy Harvesting. <i>Small Methods</i> , 2022, 6, e2200066.	4.6	5
6	Ultrathin, transparent, and robust self-healing electronic skins for tactile and non-contact sensing. <i>Nano Energy</i> , 2022, 95, 107056.	8.2	55
7	Achieving Ultrahigh Effective Surface Charge Density of Direct-Current Triboelectric Nanogenerator in High Humidity. <i>Small</i> , 2022, 18, e2201402.	5.2	28
8	Triboelectric nanogenerator: from alternating current to direct current. <i>IScience</i> , 2021, 24, 102018.	1.9	66
9	Recent Advances in Self-Powered Electrochemical Systems. <i>Research</i> , 2021, 2021, 4673028.	2.8	27
10	Improved Output Performance of Triboelectric Nanogenerator by Fast Accumulation Process of Surface Charges. <i>Advanced Energy Materials</i> , 2021, 11, 2100050.	10.2	67
11	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
12	Improved Output Performance of Direct-Current Triboelectric Nanogenerator through Field Enhancing Breakdown Effect. <i>Advanced Materials Technologies</i> , 2021, 6, 2100195.	3.0	19
13	Water-Wave Driven Route Avoidance Warning System for Wireless Ocean Navigation. <i>Advanced Energy Materials</i> , 2021, 11, 2101116.	10.2	62
14	Enhancing output performance of direct-current triboelectric nanogenerator under controlled atmosphere. <i>Nano Energy</i> , 2021, 84, 105864.	8.2	37
15	Active-Sensing Epidermal Stretchable Bioelectronic Patch for Noninvasive, Conformal, and Wireless Tendon Monitoring. <i>Research</i> , 2021, 2021, 9783432.	2.8	6
16	A robust rolling-mode direct-current triboelectric nanogenerator arising from electrostatic breakdown effect. <i>Nano Energy</i> , 2021, 85, 106014.	8.2	34
17	Selection rules of triboelectric materials for direct-current triboelectric nanogenerator. <i>Nature Communications</i> , 2021, 12, 4686.	5.8	154
18	High output direct-current power fabrics based on the air breakdown effect. <i>Energy and Environmental Science</i> , 2021, 14, 2460-2471.	15.6	58

#	ARTICLE	IF	CITATIONS
19	A Hydrophobic Self-Repairing Power Textile for Effective Water Droplet Energy Harvesting. ACS Nano, 2021, 15, 18172-18181.	7.3	83
20	Surface charge density of triboelectric nanogenerators: Theoretical boundary and optimization methodology. Applied Materials Today, 2020, 18, 100496.	2.3	64
21	Simultaneously Enhancing Power Density and Durability of Sliding-Mode Triboelectric Nanogenerator via Interface Liquid Lubrication. Advanced Energy Materials, 2020, 10, 2002920.	10.2	112
22	A Triboelectric Closed-Loop Sensing System for Authenticity Identification of Paper-Based Artworks. Advanced Materials Technologies, 2020, 5, 2000194.	3.0	5
23	Rationally patterned electrode of direct-current triboelectric nanogenerators for ultrahigh effective surface charge density. Nature Communications, 2020, 11, 6186.	5.8	129
24	Flame-Retardant Textile-Based Triboelectric Nanogenerators for Fire Protection Applications. ACS Nano, 2020, 14, 15853-15863.	7.3	133
25	Rationally Designed Dual-Mode Triboelectric Nanogenerator for Harvesting Mechanical Energy by Both Electrostatic Induction and Dielectric Breakdown Effects. Advanced Energy Materials, 2020, 10, 2000965.	10.2	70
26	Hugely Enhanced Output Power of Direct-Current Triboelectric Nanogenerators by Using Electrostatic Breakdown Effect. Advanced Materials Technologies, 2020, 5, 2000289.	3.0	49
27	A Motion Vector Sensor via Direct-Current Triboelectric Nanogenerator. Advanced Functional Materials, 2020, 30, 2002547.	7.8	78
28	A breathable, biodegradable, antibacterial, and self-powered electronic skin based on all-nanofiber triboelectric nanogenerators. Science Advances, 2020, 6, eaba9624.	4.7	589
29	A Fully Self-Powered Vibration Monitoring System Driven by Dual-Mode Triboelectric Nanogenerators. ACS Nano, 2020, 14, 2475-2482.	7.3	154
30	Three-dimensional modeling of alternating current triboelectric nanogenerator in the linear sliding mode. Applied Physics Reviews, 2020, 7, .	5.5	45
31	Long-Lifetime Triboelectric Nanogenerator Operated in Conjunction Modes and Low Crest Factor. Advanced Energy Materials, 2020, 10, 1903024.	10.2	53
32	Triboelectric nanogenerators: Fundamental physics and potential applications. Friction, 2020, 8, 481-506.	3.4	224
33	Direct current triboelectric cell by sliding an n-type semiconductor on a p-type semiconductor. Nano Energy, 2019, 66, 104185.	8.2	98
34	A constant current triboelectric nanogenerator arising from electrostatic breakdown. Science Advances, 2019, 5, eaav6437.	4.7	237
35	Largely enhanced triboelectric nanogenerator for efficient harvesting of water wave energy by soft contacted structure. Nano Energy, 2019, 57, 432-439.	8.2	278
36	A highly sensitive, self-powered triboelectric auditory sensor for social robotics and hearing aids. Science Robotics, 2018, 3, .	9.9	573

#	ARTICLE	IF	CITATIONS
37	Nanogenerators from Electrical Discharge. , 0 , , .		1
38	Achieving Ultrarobust and Humidity-Resistant Triboelectric Nanogenerator by Dual-Capacitor Enhancement System. Advanced Energy Materials, 0 , , 2101958.	10.2	42