

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	A breathable, biodegradable, antibacterial, and self-powered electronic skin based on all-nanofiber triboelectric nanogenerators. <i>Science Advances</i> , 2020, 6, eaba9624.	4.7	589
2	A highly sensitive, self-powered triboelectric auditory sensor for social robotics and hearing aids. <i>Science Robotics</i> , 2018, 3, .	9.9	573
3	Largely enhanced triboelectric nanogenerator for efficient harvesting of water wave energy by soft contacted structure. <i>Nano Energy</i> , 2019, 57, 432-439.	8.2	278
4	A constant current triboelectric nanogenerator arising from electrostatic breakdown. <i>Science Advances</i> , 2019, 5, eaav6437.	4.7	237
5	Triboelectric nanogenerators: Fundamental physics and potential applications. <i>Friction</i> , 2020, 8, 481-506.	3.4	224
6	A Fully Self-Powered Vibration Monitoring System Driven by Dual-Mode Triboelectric Nanogenerators. <i>ACS Nano</i> , 2020, 14, 2475-2482.	7.3	154
7	Selection rules of triboelectric materials for direct-current triboelectric nanogenerator. <i>Nature Communications</i> , 2021, 12, 4686.	5.8	154
8	Flame-Retardant Textile-Based Triboelectric Nanogenerators for Fire Protection Applications. <i>ACS Nano</i> , 2020, 14, 15853-15863.	7.3	133
9	Rationally patterned electrode of direct-current triboelectric nanogenerators for ultrahigh effective surface charge density. <i>Nature Communications</i> , 2020, 11, 6186.	5.8	129
10	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
11	Simultaneously Enhancing Power Density and Durability of Sliding-Mode Triboelectric Nanogenerator via Interface Liquid Lubrication. <i>Advanced Energy Materials</i> , 2020, 10, 2002920.	10.2	112
12	Direct current triboelectric cell by sliding an n-type semiconductor on a p-type semiconductor. <i>Nano Energy</i> , 2019, 66, 104185.	8.2	98
13	A Hydrophobic Self-Repairing Power Textile for Effective Water Droplet Energy Harvesting. <i>ACS Nano</i> , 2021, 15, 18172-18181.	7.3	83
14	A Motion Vector Sensor via Direct-Current Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2020, 30, 2002547.	7.8	78
15	Rationally Designed Dual-Mode Triboelectric Nanogenerator for Harvesting Mechanical Energy by Both Electrostatic Induction and Dielectric Breakdown Effects. <i>Advanced Energy Materials</i> , 2020, 10, 2000965.	10.2	70
16	Improved Output Performance of Triboelectric Nanogenerator by Fast Accumulation Process of Surface Charges. <i>Advanced Energy Materials</i> , 2021, 11, 2100050.	10.2	67
17	Triboelectric nanogenerator: from alternating current to direct current. <i>IScience</i> , 2021, 24, 102018.	1.9	66
18	Surface charge density of triboelectric nanogenerators: Theoretical boundary and optimization methodology. <i>Applied Materials Today</i> , 2020, 18, 100496.	2.3	64

#	ARTICLE	IF	CITATIONS
19	Water-Wave Driven Route Avoidance Warning System for Wireless Ocean Navigation. <i>Advanced Energy Materials</i> , 2021, 11, 2101116.	10.2	62
20	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
21	Ultrathin, transparent, and robust self-healing electronic skins for tactile and non-contact sensing. <i>Nano Energy</i> , 2022, 95, 107056.	8.2	55
22	Long-Lifetime Triboelectric Nanogenerator Operated in Conjunction Modes and Low Crest Factor. <i>Advanced Energy Materials</i> , 2020, 10, 1903024.	10.2	53
23	Improving performance of triboelectric nanogenerators by dielectric enhancement effect. <i>Matter</i> , 2022, 5, 180-193.	5.0	53
24	Hugely Enhanced Output Power of Direct-Current Triboelectric Nanogenerators by Using Electrostatic Breakdown Effect. <i>Advanced Materials Technologies</i> , 2020, 5, 2000289.	3.0	49
25	A Self-Powered Dual-Type Signal Vector Sensor for Smart Robotics and Automatic Vehicles. <i>Advanced Materials</i> , 2022, 34, e2110363.	11.1	48
26	Three-dimensional modeling of alternating current triboelectric nanogenerator in the linear sliding mode. <i>Applied Physics Reviews</i> , 2020, 7, .	5.5	45
27	Achieving Ultrarobust and Humidity-Resistant Triboelectric Nanogenerator by Dual-Capacitor Enhancement System. <i>Advanced Energy Materials</i> , 0, , 2101958.	10.2	42
28	Enhancing output performance of direct-current triboelectric nanogenerator under controlled atmosphere. <i>Nano Energy</i> , 2021, 84, 105864.	8.2	37
29	A robust rolling-mode direct-current triboelectric nanogenerator arising from electrostatic breakdown effect. <i>Nano Energy</i> , 2021, 85, 106014.	8.2	34
30	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
31	Achieving Ultrahigh Effective Surface Charge Density of Direct-Current Triboelectric Nanogenerator in High Humidity. <i>Small</i> , 2022, 18, e2201402.	5.2	28
32	Recent Advances in Self-Powered Electrochemical Systems. <i>Research</i> , 2021, 2021, 4673028.	2.8	27
33	Improved Output Performance of Direct-Current Triboelectric Nanogenerator through Field Enhancing Breakdown Effect. <i>Advanced Materials Technologies</i> , 2021, 6, 2100195.	3.0	19
34	Transient physical modeling and comprehensive optimal design of air-breakdown direct-current triboelectric nanogenerators. <i>Nano Energy</i> , 2022, 92, 106742.	8.2	12
35	Active-Sensing Epidermal Stretchable Bioelectronic Patch for Noninvasive, Conformal, and Wireless Tendon Monitoring. <i>Research</i> , 2021, 2021, 9783432.	2.8	6
36	A Triboelectric Closed-Loop Sensing System for Authenticity Identification of Paper-Based Artworks. <i>Advanced Materials Technologies</i> , 2020, 5, 2000194.	3.0	5

#	ARTICLE	IF	CITATIONS
37	A Tuning-Fork Triboelectric Nanogenerator with Frequency Multiplication for Efficient Mechanical Energy Harvesting. <i>Small Methods</i> , 2022, 6, e2200066.	4.6	5
38	Nanogenerators from Electrical Discharge. , 0, , .		1