

Han Ouyang

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

4,697
citations

159585

30
h-index

289244

40
g-index

40
all docs

40
docs citations

40
times ranked

3570
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodegradable triboelectric nanogenerator as a life-time designed implantable power source. <i>Science Advances</i> , 2016, 2, e1501478.	10.3	461
2	Symbiotic cardiac pacemaker. <i>Nature Communications</i> , 2019, 10, 1821.	12.8	429
3	A bionic stretchable nanogenerator for underwater sensing and energy harvesting. <i>Nature Communications</i> , 2019, 10, 2695.	12.8	413
4	Self-Powered Pulse Sensor for Antidiastole of Cardiovascular Disease. <i>Advanced Materials</i> , 2017, 29, 1703456.	21.0	360
5	Fully Bioabsorbable Natural-Materials-Based Triboelectric Nanogenerators. <i>Advanced Materials</i> , 2018, 30, e1801895.	21.0	319
6	Emerging Implantable Energy Harvesters and Self-Powered Implantable Medical Electronics. <i>ACS Nano</i> , 2020, 14, 6436-6448.	14.6	223
7	Transcatheter Self-Powered Ultrasensitive Endocardial Pressure Sensor. <i>Advanced Functional Materials</i> , 2019, 29, 1807560.	14.9	181
8	A size-unlimited surface microstructure modification method for achieving high performance triboelectric nanogenerator. <i>Nano Energy</i> , 2016, 28, 172-178.	16.0	154
9	A Stretchable Highoutput Triboelectric Nanogenerator Improved by MXene Liquid Electrode with High Electronegativity. <i>Advanced Functional Materials</i> , 2020, 30, 2004181.	14.9	147
10	Body-Integrated Self-Powered System for Wearable and Implantable Applications. <i>ACS Nano</i> , 2019, 13, 6017-6024.	14.6	142
11	Photothermally tunable biodegradation of implantable triboelectric nanogenerators for tissue repairing. <i>Nano Energy</i> , 2018, 54, 390-399.	16.0	136
12	Honeycomb Structure Inspired Triboelectric Nanogenerator for Highly Effective Vibration Energy Harvesting and Self-Powered Engine Condition Monitoring. <i>Advanced Energy Materials</i> , 2019, 9, 1902460.	19.5	133
13	Self-powered implantable electrical stimulator for osteoblasts™ proliferation and differentiation. <i>Nano Energy</i> , 2019, 59, 705-714.	16.0	126
14	A self-powered sterilization system with both instant and sustainable anti-bacterial ability. <i>Nano Energy</i> , 2017, 36, 241-249.	16.0	123
15	Self-Powered Distributed Water Level Sensors Based on Liquid-Solid Triboelectric Nanogenerators for Ship Draft Detecting. <i>Advanced Functional Materials</i> , 2019, 29, 1900327.	14.9	115
16	Flexible piezoelectric nanogenerator in wearable self-powered active sensor for respiration and healthcare monitoring. <i>Semiconductor Science and Technology</i> , 2017, 32, 064004.	2.0	110
17	Triboelectric nanogenerator based on degradable materials. <i>EcoMat</i> , 2021, 3, e12072.	11.9	108
18	Fully Bioabsorbable Capacitor as an Energy Storage Unit for Implantable Medical Electronics. <i>Advanced Science</i> , 2019, 6, 1801625.	11.2	106

#	ARTICLE	IF	CITATIONS
19	Highly Efficient In Vivo Cancer Therapy by an Implantable Magnet Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2019, 29, 1808640.	14.9	92
20	A Bioresorbable Dynamic Pressure Sensor for Cardiovascular Postoperative Care. <i>Advanced Materials</i> , 2021, 33, e2102302.	21.0	85
21	Robust Multilayered Encapsulation for High-Performance Triboelectric Nanogenerator in Harsh Environment. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 26697-26703.	8.0	79
22	Stretchable, Self-Healing, and Skin-Mounted Active Sensor for Multipoint Muscle Function Assessment. <i>ACS Nano</i> , 2021, 15, 10130-10140.	14.6	75
23	A wearable noncontact free-rotating hybrid nanogenerator for self-powered electronics. <i>Informa Materials</i> , 2020, 2, 1191-1200.	17.3	71
24	A Battery-Like Self-Charge Universal Module for Motional Energy Harvest. <i>Advanced Energy Materials</i> , 2019, 9, 1901875.	19.5	68
25	Dynamic real-time imaging of living cell traction force by piezo-phototronic light nano-antenna array. <i>Science Advances</i> , 2021, 7, .	10.3	65
26	A 25-year bibliometric study of implantable energy harvesters and self-powered implantable medical electronics researches. <i>Materials Today Energy</i> , 2020, 16, 100386.	4.7	58
27	Ultrathin Stretchable Triboelectric Nanogenerators Improved by Postcharging Electrode Material. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42966-42976.	8.0	50
28	Flexible and stretchable dual mode nanogenerator for rehabilitation monitoring and information interaction. <i>Journal of Materials Chemistry B</i> , 2020, 8, 3647-3654.	5.8	47
29	Biocide-Free Antifouling on Insulating Surface by Wave-Driven Triboelectrification-Induced Potential Oscillation. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600187.	3.7	45
30	A flexible self-arched biosensor based on combination of piezoelectric and triboelectric effects. <i>Applied Materials Today</i> , 2020, 20, 100699.	4.3	45
31	Self-powered technology for next-generation biosensor. <i>Science Bulletin</i> , 2021, 66, 1709-1712.	9.0	32
32	Hybrid nanogenerator based closed-loop self-powered low-level vagus nerve stimulation system for atrial fibrillation treatment. <i>Science Bulletin</i> , 2022, 67, 1284-1294.	9.0	30
33	Cancer Therapy: Highly Efficient In Vivo Cancer Therapy by an Implantable Magnet Triboelectric Nanogenerator (<i>Adv. Funct. Mater.</i> 41/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970285.	14.9	17
34	The first technology can compete with piezoelectricity to harvest ultrasound energy for powering medical implants. <i>Science Bulletin</i> , 2019, 64, 1565-1566.	9.0	14
35	Thermo-Driven Evaporation Self-Assembly and Dynamic Analysis of Homocentric Carbon Nanotube Rings. <i>Small</i> , 2017, 13, 1603642.	10.0	11
36	Assessment of extracellular matrix modulation of cell traction force by using silicon nanowire array. <i>Nano Energy</i> , 2018, 50, 504-512.	16.0	9

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37	A Light-Powered Triboelectric Nanogenerator Based on the Photothermal Marangoni Effect. ACS Applied Materials & Interfaces, 2022, 14, 22206-22215.	8.0	8
38	Endocardial Pressure Sensors: Transcatheter Self-Powered Ultrasensitive Endocardial Pressure Sensor (Adv. Funct. Mater. 3/2019). Advanced Functional Materials, 2019, 29, 1970017.	14.9	5
39	The modulation effect of the convexity of silicon topological nanostructures on the growth of mesenchymal stem cells. RSC Advances, 2017, 7, 16977-16983.	3.6	3
40	Bioabsorbable Capacitors: Fully Bioabsorbable Capacitor as an Energy Storage Unit for Implantable Medical Electronics (Adv. Sci. 6/2019). Advanced Science, 2019, 6, 1970035.	11.2	2