Tianming Zhao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2243922/publications.pdf

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30	795	430442	500791
papers	citations	18 h-index	28 g-index

30	30	30	583
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A self-powered wearable sweat-evaporation-biosensing analyzer for building sports big data. Nano Energy, 2019, 59, 754-761.	8.2	116
2	Wearable biosensors for real-time sweat analysis and body motion capture based on stretchable fiber-based triboelectric nanogenerators. Biosensors and Bioelectronics, 2022, 205, 114115.	5.3	76
3	A water-evaporation-induced self-charging hybrid power unit for application in the Internet of Things. Science Bulletin, 2019, 64, 1409-1417.	4.3	51
4	Ga-doped ZnO nanowire nanogenerator as self-powered/active humidity sensor with high sensitivity and fast response. Journal of Alloys and Compounds, 2015, 648, 571-576.	2.8	48
5	Self-powered wearable sensing-textiles for real-time detecting environmental atmosphere and body motion based on surface-triboelectric coupling effect. Nanotechnology, 2018, 29, 405504.	1.3	37
6	A self-powered gas sensor based on PDMS/Ppy triboelectric-gas-sensing arrays for the real-time monitoring of automotive exhaust gas at room temperature. Science China Materials, 2019, 62, 1433-1444.	3.5	37
7	A Self-Powered Biosensor for Monitoring Maximal Lactate Steady State in Sport Training. Biosensors, 2020, 10, 75.	2.3	34
8	A Stretchable and Self-Healing Hybrid Nano-Generator for Human Motion Monitoring. Nanomaterials, 2022, 12, 104.	1.9	32
9	Wearable Battery-Free Perspiration Analyzing Sites Based on Sweat Flowing on ZnO Nanoarrays. Nano-Micro Letters, 2020, 12, 105.	14.4	30
10	A self-powered biosensing electronic-skin for real-time sweat Ca²⁺ detection and wireless data transmission. Smart Materials and Structures, 2019, 28, 085015.	1.8	29
11	Self-powered gustation electronic skin for mimicking taste buds based on piezoelectricâ€“enzymatic reaction coupling process. Nanotechnology, 2018, 29, 075501.	1.3	28
12	Flexible nanosensors for non-invasive creatinine detection based on triboelectric nanogenerator and enzymatic reaction. Sensors and Actuators A: Physical, 2021, 320, 112585.	2.0	28
13	A Portable and Flexible Self-Powered Multifunctional Sensor for Real-Time Monitoring in Swimming. Biosensors, 2021, 11, 147.	2.3	22
14	A self-powered brain-linked biosensing electronic-skin for actively tasting beverage and its potential application in artificial gustation. Nanoscale, 2018, 10, 19987-19994.	2.8	21
15	A self-powered temperature-sensitive electronic-skin based on tribotronic effect of PDMS/PANI nanostructures. Journal of Materials Science and Technology, 2019, 35, 2187-2193.	5.6	20
16	Portable Mobile Gait Monitor System Based on Triboelectric Nanogenerator for Monitoring Gait and Powering Electronics. Energies, 2021, 14, 4996.	1.6	20
17	A Flexible Lightweight Triboelectric Nanogenerator for Protector and Scoring System in Taekwondo Competition Monitoring. Electronics (Switzerland), 2022, 11, 1306.	1.8	20
18	A Self-Powered Portable Flexible Sensor of Monitoring Speed Skating Techniques. Biosensors, 2021, 11, 108.	2.3	18

#	Article	IF	Citations
19	A Flexible TENG Based on Micro-Structure Film for Speed Skating Techniques Monitoring and Biomechanical Energy Harvesting. Nanomaterials, 2022, 12, 1576.	1.9	18
20	Bidirectional modulation of neural plasticity by self-powered neural stimulation. Nano Energy, 2021, 85, 106006.	8.2	15
21	Alcohol Sensor Based on Surface Plasmon Resonance of ZnO Nanoflowers/Au Structure. Materials, 2022, 15, 189.	1.3	14
22	High piezo-photocatalytic efficiency of H2 production by CuS/ZnO nanostructure under solar and ultrasonic exposure. Materials Letters, 2021, 294, 129752.	1.3	11
23	An Effective Self-Powered Piezoelectric Sensor for Monitoring Basketball Skills. Sensors, 2021, 21, 5144.	2.1	11
24	Nanogenerator-Based Wireless Intelligent Motion Correction System for Storing Mechanical Energy of Human Motion. Sustainability, 2022, 14, 6944.	1.6	11
25	Self-Powered Biosensor for Specifically Detecting Creatinine in Real Time Based on the Piezo-Enzymatic-Reaction Effect of Enzyme-Modified ZnO Nanowires. Biosensors, 2021, 11, 342.	2.3	10
26	Self-Powered Flexible Sour Sensor for Detecting Ascorbic Acid Concentration Based on Triboelectrification/Enzymatic-Reaction Coupling Effect. Sensors, 2021, 21, 373.	2.1	9
27	A Flexible and Stretchable Self-Powered Nanogenerator in Basketball Passing Technology Monitoring. Electronics (Switzerland), 2021, 10, 2584.	1.8	9
28	Sea Urchin-like Si@MnO2@rGO as Anodes for High-Performance Lithium-Ion Batteries. Nanomaterials, 2022, 12, 285.	1.9	9
29	A Self-Powered Flexible Biosensor for Human Exercise Intensity Monitoring. Journal of Nanoelectronics and Optoelectronics, 2021, 16, 699-706.	0.1	7
30	A self-powered flexible-vision electronic skin based on piezophototronic GaN nanowires for rapid image recognition. Journal Physics D: Applied Physics, 2020, 53, 155501.	1.3	4