

Zhongda Sun

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

3,239
citations

331259

21
h-index

713013

21
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28
all docs

28
docs citations

28
times ranked

1757
citing authors

#	ARTICLE	IF	CITATIONS
1	Haptic-feedback smart glove as a creative human-machine interface (HMI) for virtual/augmented reality applications. <i>Science Advances</i> , 2020, 6, eaaz8693.	4.7	419
2	Triboelectric nanogenerator sensors for soft robotics aiming at digital twin applications. <i>Nature Communications</i> , 2020, 11, 5381.	5.8	363
3	Progress in wearable electronics/photronics—Moving toward the era of artificial intelligence and internet of things. <i>Informa—Materi—ly</i> , 2020, 2, 1131-1162.	8.5	343
4	Machine Learning Glove Using Self-Powered Conductive Superhydrophobic Triboelectric Textile for Gesture Recognition in VR/AR Applications. <i>Advanced Science</i> , 2020, 7, 2000261.	5.6	290
5	Development Trends and Perspectives of Future Sensors and MEMS/NEMS. <i>Micromachines</i> , 2020, 11, 7.	1.4	216
6	Deep learning-enabled triboelectric smart socks for IoT-based gait analysis and VR applications. <i>Npj Flexible Electronics</i> , 2020, 4, .	5.1	213
7	Deep learning enabled smart mats as a scalable floor monitoring system. <i>Nature Communications</i> , 2020, 11, 4609.	5.8	195
8	Artificial Intelligence-Enabled Sensing Technologies in the 5G/Internet of Things Era: From Virtual Reality/Augmented Reality to the Digital Twin. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	146
9	Self-powered glove-based intuitive interface for diversified control applications in real/cyber space. <i>Nano Energy</i> , 2019, 58, 641-651.	8.2	140
10	Artificial Intelligence of Things (AIoT) Enabled Virtual Shop Applications Using Self-Powered Sensor Enhanced Soft Robotic Manipulator. <i>Advanced Science</i> , 2021, 8, e2100230.	5.6	138
11	Wearable Triboelectric—Human—Machine Interface (THMI) Using Robust Nanophotonic Readout. <i>ACS Nano</i> , 2020, 14, 8915-8930.	7.3	121
12	Low cost exoskeleton manipulator using bidirectional triboelectric sensors enhanced multiple degree of freedom sensory system. <i>Nature Communications</i> , 2021, 12, 2692.	5.8	107
13	Battery-free short-range self-powered wireless sensor network (SS-WSN) using TENG based direct sensory transmission (TDST) mechanism. <i>Nano Energy</i> , 2020, 67, 104266.	8.2	101
14	Triboelectric Nanogenerators and Hybridized Systems for Enabling Next-Generation IoT Applications. <i>Research</i> , 2021, 2021, 6849171.	2.8	75
15	Wearable Triboelectric/Aluminum Nitride Nano-Energy—Nano-System with Self-Sustainable Photonic Modulation and Continuous Force Sensing. <i>Advanced Science</i> , 2020, 7, 1903636.	5.6	66
16	Hybridized wearable patch as a multi-parameter and multi-functional human-machine interface. <i>Nano Energy</i> , 2021, 81, 105582.	8.2	66
17	Progress in the Triboelectric Human—Machine Interfaces (HMIs)-Moving from Smart Gloves to AI/Haptic Enabled HMI in the 5G/IoT Era. <i>Nanoenergy Advances</i> , 2021, 1, 81-121.	3.6	59
18	Volatile organic compounds sensing based on Bennet doubler-inspired triboelectric nanogenerator and machine learning-assisted ion mobility analysis. <i>Science Bulletin</i> , 2021, 66, 1176-1185.	4.3	50

#	ARTICLE	IF	CITATIONS
19	Magnetic-interaction assisted hybridized triboelectric-electromagnetic nanogenerator for advanced human-machine interfaces. Nano Energy, 2021, 86, 106154.	8.2	45
20	Noncontact Human-Machine Interface Using Complementary Information Fusion Based on MEMS and Triboelectric Sensors. Advanced Science, 2022, 9, e2201056.	5.6	36
21	Progress of Advanced Devices and Internet of Things Systems as Enabling Technologies for Smart Homes and Health Care. ACS Materials Au, 2022, 2, 394-435.	2.6	31
22	Sensory-Glove-Based Human Machine Interface for Augmented Reality (AR) Applications. , 2020, , .		9
23	Self-Powered Wireless IoT Sensor Based on Triboelectric Textile. , 2020, , .		4
24	Haptic-Feedback Ring Enabled Human-Machine Interface (HMI) Aiming at Immersive Virtual Reality Experience. , 2021, , .		3
25	Smart Soft Robotic Manipulator for Artificial Intelligence of Things (AIOT) Based Unmanned Shop Applications. , 2021, , .		2
26	Self-Powered Intuitive Control Interface Towards Diversified Gaming, AI, and Online Shopping Applications. , 2019, , .		1
27	A Piezoelectric Bulk Wave Resonant Humidity Sensor for Noncontact Human-Machine Interaction. , 2022, , .		0
28	Exploration of Multi-dimensional Sensing in Human Machine Interactions. , 2021, , .		0