Muhammad Umair Khan

List of Publications by Year
in descending order

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41	809	535685	620720
papers	citations	17 h-index	26 g-index

42	42	42	442
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Asymmetric GaN/ZnO Engineered Resistive Memory Device for Electronic Synapses. ACS Applied Electronic Materials, 2022, 4, 297-307.	2.0	13
2	Two dimensional Zirconium diselenide based humidity sensor for flexible electronics. Sensors and Actuators B: Chemical, 2022, 358, 131507.	4.0	29
3	Ultra-robust tribo- and piezo-electric nanogenerator based on metal organic frameworks (MOF-5) with high environmental stability. Nano Energy, 2022, 96, 107128.	8.2	46
4	Triboelectric nanogenerator based on lignocellulosic waste fruit shell tribopositive material: Comparative analysis. Materials Today Sustainability, 2022, 18, 100146.	1.9	20
5	Bioinspired Soft Multistate Resistive Memory Device Based on Silk Fibroin Gel for Neuromorphic Computing. Advanced Engineering Materials, 2022, 24, .	1.6	12
6	Ionic liquid multistate resistive switching characteristics in two terminal soft and flexible discrete channels for neuromorphic computing. Microsystems and Nanoengineering, 2022, 8, .	3.4	10
7	Multistate Resistive Switching with Self-Rectifying Behavior and Synaptic Characteristics in a Solution-processed ZnO/PTAA Bilayer Memristor. Journal of the Electrochemical Society, 2022, 169, 063517.	1.3	7
8	Particle triboelectric nanogenerator (P-TENG). Nano Energy, 2022, 100, 107475.	8.2	17
9	Highly Flexible and Asymmetric Hexagonalâ€Shaped Crystalline Structured Germanium Dioxideâ€Based Multistate Resistive Switching Memory Device for Data Storage and Neuromorphic Computing. Advanced Electronic Materials, 2022, 8, .	2.6	15
10	Humidity sensor based on Gallium Nitride for real time monitoring applications. Scientific Reports, 2021, 11, 11088.	1.6	27
11	Natural Hierarchically Structured Highly Porous Tomato Peel Based Triboâ€and Piezoâ€Electric Nanogenerator for Efficient Energy Harvesting. Advanced Sustainable Systems, 2021, 5, 2100066.	2.7	18
12	Wide range and highly linear signal processed systematic humidity sensor array using Methylene Blue and Graphene composite. Scientific Reports, 2021, 11, 16665.	1.6	11
13	Novel Recycled Triboelectric Nanogenerator Based on Polymerâ€Coated Trash Soda Can for Clean Energy Harvesting. Advanced Sustainable Systems, 2021, 5, 2100161.	2.7	19
14	All range highly linear and sensitive humidity sensor based on 2D material TiSi2 for real-time monitoring. Sensors and Actuators B: Chemical, 2021, 345, 130371.	4.0	43
15	Bio-waste sunflower husks powder based recycled triboelectric nanogenerator for energy harvesting. Energy Reports, 2021, 7, 724-731.	2.5	61
16	Natural seagrass tribopositive material based spray coatable triboelectric nanogenerator. Nano Energy, 2021, 89, 106458.	8.2	36
17	Expired Pharmaceutical Drugs as Tribopositive Material for Triboelectric Nanogenerator. Advanced Sustainable Systems, 2021, 5, 2100205.	2.7	4
18	Soft and flexible: core-shell ionic liquid resistive memory for electronic synapses. Microsystems and Nanoengineering, 2021, 7, 78.	3.4	15

#	Article	IF	Citations
19	Expired Pharmaceutical Drugs as Tribopositive Material for Triboelectric Nanogenerator (Adv.) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.7	2
20	Highly bendable asymmetric resistive switching memory based on zinc oxide and magnetic iron oxide heterojunction. Journal of Materials Science: Materials in Electronics, 2020, 31, 1105-1115.	1.1	16
21	Biowaste Peanut Shell Powder-Based Triboelectric Nanogenerator for Biomechanical Energy Scavenging and Sustainably Powering Electronic Supplies. ACS Applied Electronic Materials, 2020, 2, 3953-3963.	2.0	41
22	Inner egg shell membrane based bio-compatible capacitive and piezoelectric function dominant self-powered pressure sensor array for smart electronic applications. RSC Advances, 2020, 10, 29214-29227.	1.7	20
23	Inkjet printed self-healable strain sensor based on graphene and magnetic iron oxide nano-composite on engineered polyurethane substrate. Scientific Reports, 2020, 10, 18234.	1.6	18
24	Flexible Resistive Switching Memory with a Schottky Diode Function Based on a Zinc Oxide/Methylene Blue Heterojunction. Journal of Electronic Materials, 2020, 49, 4764-4772.	1.0	11
25	All printed full range humidity sensor based on Fe2O3. Sensors and Actuators A: Physical, 2020, 311, 112072.	2.0	32
26	All printed wide range humidity sensor array combining MoSe2 and PVOH in series. Journal of Materials Science: Materials in Electronics, 2020, 31, 7683-7697.	1.1	12
27	All printed organic humidity sensor based on egg albumin. Sensing and Bio-Sensing Research, 2020, 28, 100337.	2.2	14
28	Printable Highly Stable and Superfast Humidity Sensor Based on Two Dimensional Molybdenum Diselenide. Scientific Reports, 2020, 10, 5509.	1.6	36
29	Soft ionic liquid based resistive memory characteristics in a two terminal discrete polydimethylsiloxane cylindrical microchannel. Journal of Materials Chemistry C, 2020, 8, 13368-13374.	2.7	16
30	Resistive switching memory utilizing water and titanium dioxide thin film Schottky diode. Journal of Materials Science: Materials in Electronics, 2019, 30, 18744-18752.	1.1	10
31	Schottky diode based resistive switching device based on ZnO/PEDOT:PSS heterojunction to reduce sneak current problem. Journal of Materials Science: Materials in Electronics, 2019, 30, 4607-4617.	1.1	29
32	Resistive switching device based on water and zinc oxide heterojunction for soft memory applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 246, 1-6.	1.7	20
33	Non-volatile resistive switching based on zirconium dioxide: poly (4-vinylphenol) nano-composite. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	19
34	Bio-compatible organic humidity sensor based on natural inner egg shell membrane with multilayer crosslinked fiber structure. Scientific Reports, 2019, 9, 5824.	1.6	30
35	PVA/TEOS crosslinked membranes incorporating zinc oxide nanoparticles and sodium alginate to improve reverse osmosis performance for desalination. Journal of Applied Polymer Science, 2019, 136, 47559.	1.3	26
36	Solution-processed flexible non-volatile resistive switching device based on poly[(9,9-di-n-octylfluorenyl-2,7-diyl)-alt-(benzo[2,1,3]thiadiazol-4, 8-diyl)]: polyvinylpyrrolidone composite and its conduction mechanism. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	17

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37	Inkjet printed organic-inorganic bilayer photoconductive sensor. , 2018, , .		1
38	All-printed organic and oxide hetero-structure device with photoconductivity. , 2018, , .		1
39	Bipolar resistive switching device based on N,Nâ€²-bis(3-methylphenyl)-N,Nâ€²-diphenylbenzidine and poly(3,4-ethylenedioxythiophene):poly(styrene sulfonate)/poly(vinyl alcohol) bilayer stacked structure. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	23
40	All-printed Stretchable Photo-Conductive Device Fabricated on Engineered PDMS. , 2018, , .		1
41	Liquid Capacitor Based on Hafnium Oxide. Key Engineering Materials, 0, 801, 211-216.	0.4	2