Shurong Dong

List of Publications by Year
in descending order

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130	3,516	136885	155592
papers	citations	32 h-index	55 g-index

130	130	130	4139
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Triboelectric nanogenerator-enabled fully self-powered instantaneous wireless sensor systems. Nano Energy, 2022, 92, 106770.	8.2	21
2	Novel Adjustable Self-Compensation Flipped Voltage Follower of ZnO TFTs for Transparent Pixel Circuits. IEEE Electron Device Letters, 2022, 43, 398-401.	2.2	1
3	Oneâ€Stage Closed Intramedullary Nailing for Delayed Femoral Fracture in Multiple Injured Patients. Orthopaedic Surgery, 2022, , .	0.7	1
4	Transparent Floating Gate Memory Based on ZnO Thin Film Transistor With Controllable Memory Window. IEEE Journal of the Electron Devices Society, 2022, 10, 275-280.	1.2	5
5	Non-Invasive Muscular Atrophy Causes Evaluation for Limb Fracture Based on Flexible Surface Electromyography System. Sensors, 2022, 22, 2640.	2.1	2
6	Fully self-powered instantaneous wireless liquid level sensor system based on triboelectric nanogenerator. Nano Research, 2022, 15, 5425-5434.	5.8	12
7	High temperature effects on surface acoustic wave strain sensor. Sensors and Actuators A: Physical, 2022, 338, 113464.	2.0	4
8	Electric-Field-Resonance-Based Wireless Triboelectric Nanogenerators and Sensors. ACS Applied Materials & Interfaces, 2022, 14, 794-804.	4.0	18
9	Automatic Classification of Normalâ€“Abnormal Heart Sounds Using Convolution Neural Network and Long-Short Term Memory. Electronics (Switzerland), 2022, 11, 1246.	1.8	10
10	Surface Acoustic Wave Strain Sensor With Ultra-Thin Langasite. IEEE Sensors Journal, 2022, 22, 11509-11516.	2.4	5
11	Silicon-Controlled Rectifier Embedded Diode for 7 nm FinFET Process Electrostatic Discharge Protection. Nanomaterials, 2022, 12, 1743.	1.9	4
12	Coexistence of Contact Electrification and Dynamic pâ€“n Junction Modulation Effects in Triboelectrification. ACS Applied Materials & Interfaces, 2022, 14, 30410-30419.	4.0	8
13	Piezoelectric boron nitride nanosheets for high performance energy harvesting devices. Nano Energy, 2021, 80, 105561.	8.2	49
14	High-performance triboelectric nanogenerator based on electrospun PVDF-graphene nanosheet composite nanofibers for energy harvesting. Nano Energy, 2021, 80, 105599.	8.2	142
15	Novel insights from the ultra-thin film, strain-modulated dynamic triboelectric characterizations. Nano Energy, 2021, 80, 105560.	8.2	13
16	A Flexible Capacitive 3D Tactile Sensor With Cross-Shaped Capacitor Plate Pair and Composite Structure Dielectric. IEEE Sensors Journal, 2021, 21, 1378-1385.	2.4	24
17	A langasite surface acoustic wave wide-range temperature sensor with excellent linearity and high sensitivity. AIP Advances, 2021, 11, .	0.6	12
18	Prevalence and incidence of advanced schistosomiasis and risk factors for case fatality in Hunan Province, China. Acta Tropica, 2021, 217, 105862.	0.9	4

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19	Fully self-powered instantaneous wireless humidity sensing system based on triboelectric nanogenerator. Nano Energy, 2021, 83, 105814.	8.2	49
20	ESD pulse width effect on RC-triggered NMOS with power on or off. , 2021, , .		0
21	Monolithic integration of nanorod arrays on microfluidic chips for fast and sensitive one-step immunoassays. Microsystems and Nanoengineering, 2021, 7, 65.	3.4	11
22	Numerical Investigation of Phononic Crystal Based Film Bulk Acoustic Wave Resonators. Nanomaterials, 2021, 11, 2547.	1.9	2
23	Flexible Strain Sensor Based on Ultra-Thin Quartz Plate. IEEE Sensors Journal, 2021, 21, 18571-18577.	2.4	12
24	Self-powered pumping switched TENG enabled real-time wireless metal tin height and position recognition and counting for production line management. Nano Energy, 2021, 90, 106544.	8.2	14
25	Analytical Study of the Film Bulk Acoustic Resonators Based on Single Crystal LiNbO3 with Different Crystal Orientations. Integrated Ferroelectrics, 2021, 213, 182-193.	0.3	2
26	Comparison of sputtering and atomic layer deposition based ultra-thin alumina protective layers for high temperature surface acoustic wave devices. Journal of Materials Research and Technology, 2021, 15, 4714-4724.	2.6	9
27	Flexible thin-film acoustic wave devices with off-axis bending characteristics for multisensing applications. Microsystems and Nanoengineering, 2021, 7, 97.	3.4	25
28	Single Crystal Bulk Acoustic Resonator for 5â€‰GHz and High-Power Applications. Integrated Ferroelectrics, 2021, 221, 64-72.	0.3	1
29	Switchable textile-triboelectric nanogenerators (S-TENGs) for continuous profile sensing application without environmental interferences. Nano Energy, 2020, 69, 104462.	8.2	34
30	Conjunction of triboelectric nanogenerator with induction coils as wireless power sources and self-powered wireless sensors. Nature Communications, 2020, 11, 58.	5.8	114
31	A novel rhombic-shaped paper-based triboelectric nanogenerator for harvesting energy from environmental vibration. Sensors and Actuators A: Physical, 2020, 302, 111806.	2.0	30
32	Influence of coarse particulate matter on chickenpox in Jiading District, Shanghai, 2009â€“2018: A distributed lag non-linear time series analysis. Environmental Research, 2020, 190, 110039.	3.7	10
33	Origami-tessellation-based triboelectric nanogenerator for energy harvesting with application in road pavement. Nano Energy, 2020, 78, 105177.	8.2	46
34	High-Gain Transparent Inverters Based on Deuterated ZnO TFTs Fabricated by Atomic Layer Deposition. IEEE Electron Device Letters, 2020, 41, 1508-1511.	2.2	9
35	Universal Triboelectric Nanogenerator Simulation Based on Dynamic Finite Element Method Model. Sensors, 2020, 20, 4838.	2.1	9
36	Mode Analysis of Pt/LGS Surface Acoustic Wave Devices. Sensors, 2020, 20, 7111.	2.1	5

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37	Controlling Performance of Organicâ€“Inorganic Hybrid Perovskite Triboelectric Nanogenerators via Chemical Composition Modulation and Electric Fieldâ€induced Ion Migration. Advanced Energy Materials, 2020, 10, 2002470.	10.2	19
38	Flexible wound healing system for pro-regeneration, temperature monitoring and infection early warning. Biosensors and Bioelectronics, 2020, 162, 112275.	5.3	64
39	A Highly Sensitive Amperometric Glutamate Oxidase Microbiosensor Based on a Reduced Graphene Oxide/Prussian Blue Nanocube/Gold Nanoparticle Composite Film-Modified Pt Electrode. Sensors, 2020, 20, 2924.	2.1	17
40	A Flexible Film Bulk Acoustic Resonator Based on Î²-Phase Polyvinylidene Fluoride Polymer. Sensors, 2020, 20, 1346.	2.1	14
41	Flexible and fully biodegradable resistance random access memory based on a gelatin dielectric. Nanotechnology, 2020, 31, 255204.	1.3	12
42	Three-Dimensional Tetrapodal ZnO Microstructured Network Based Flexible Surface Acoustic Wave Device for Ultraviolet and Respiration Monitoring Applications. ACS Applied Nano Materials, 2020, 3, 1468-1478.	2.4	33
43	Ultrathin singleâ€crystalline LiNbO ₃ film bulk acoustic resonator for 5G communication. Electronics Letters, 2020, 56, 1142-1143.	0.5	12
44	Stretchable Optical Sensing Patch System Integrated Heart Rate, Pulse Oxygen Saturation, and Sweat pH Detection. IEEE Transactions on Biomedical Engineering, 2019, 66, 1000-1005.	2.5	28
45	Enhanced performance triboelectric nanogenerators based on solid polymer electrolytes with different concentrations of cations. Nano Energy, 2019, 64, 103960.	8.2	59
46	Flexible wireless skin impedance sensing system for wound healing assessment. Vacuum, 2019, 168, 108808.	1.6	20
47	Triboelectric Nanogenerator-Based Self-Powered Resonant Sensor for Non-Destructive Defect Detection. Sensors, 2019, 19, 3262.	2.1	10
48	Waist-wearable wireless respiration sensor based on triboelectric effect. Nano Energy, 2019, 59, 75-83.	8.2	117
49	Bioresorbable Electrode Array for Electrophysiological and Pressure Signal Recording in the Brain. Advanced Healthcare Materials, 2019, 8, e1801649.	3.9	44
50	High-resolution separation of DNA/proteins through nanorod sieving matrix. Biosensors and Bioelectronics, 2019, 137, 8-14.	5.3	3
51	Effects of liquid metal particles on performance of triboelectric nanogenerator with electrospun polyacrylonitrile fiber films. Nano Energy, 2019, 61, 381-388.	8.2	62
52	Factors associated with uptake of Haemophilus influenzae type b vaccination in Shanghai, China. BMC Pediatrics, 2019, 19, 8.	0.7	2
53	Significantly Enhanced Performance of Triboelectric Nanogenerator by Incorporating BaTiO₃ Nanoparticles in Poly(vinylidene fluoride) Film. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900068.	0.8	35
54	Surfaceâ€Acousticâ€Waveâ€Based Labâ€onâ€Chip for Rapid Transport of Cryoprotectants across Cell Membrane for Cryopreservation with Significantly Improved Cell Viability. Small, 2019, 15, e1805361.	5.2	17

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55	A switchable fabric-triboelectric nanogenerators (SF-TENGs) profile sensing application. , 2019, , .		0
56	Ultra-thin atom layer deposited alumina film enables the precise lifetime control of fully biodegradable electronic devices. Nanoscale, 2019, 11, 22369-22377.	2.8	7
57	A Portable Triboelectric Nanogenerator for Real-Time Respiration Monitoring. Nanoscale Research Letters, 2019, 14, 354.	3.1	61
58	Carbon electrodes enable flat surface PDMS and PA6 triboelectric nanogenerators to achieve significantly enhanced triboelectric performance. Nano Energy, 2019, 55, 548-557.	8.2	85
59	A general optimization approach for contact-separation triboelectric nanogenerator. Nano Energy, 2019, 56, 700-707.	8.2	70
60	Geographical variation in lung cancer risk associated with road traffics in Jiading District, Shanghai. Science of the Total Environment, 2019, 652, 729-735.	3.9	19
61	Flexible dual-mode surface acoustic wave strain sensor based on crystalline LiNbO₃ thin film. Journal of Micromechanics and Microengineering, 2019, 29, 025003.	1.5	17
62	AFM study on the surface morphologies of TiN films prepared by magnetron sputtering and Al 2 O 3 films prepared by atomic layer deposition. Vacuum, 2018, 153, 139-144.	1.6	7
63	Realizing the potential of polyethylene oxide as new positive tribo-material: Over 40â€W/m2 high power flat surface triboelectric nanogenerators. Nano Energy, 2018, 46, 63-72.	8.2	84
64	Dielectrophoresisâ€Based Protein Enrichment for a Highly Sensitive Immunoassay Using Ag/SiO₂ Nanorod Arrays. Small, 2018, 14, e1703265.	5.2	26
65	Soft Artificial Bladder Detrusor. Advanced Healthcare Materials, 2018, 7, e1701014.	3.9	23
66	Emulsion Electrospinning of Polytetrafluoroethylene (PTFE) Nanofibrous Membranes for High-Performance Triboelectric Nanogenerators. ACS Applied Materials & Interfaces, 2018, 10, 5880-5891.	4.0	137
67	Fully biodegradable triboelectric nanogenerators based on electrospun polylactic acid and nanostructured gelatin films. Nano Energy, 2018, 45, 193-202.	8.2	226
68	Immunoassays: Dielectrophoresisâ€Based Protein Enrichment for a Highly Sensitive Immunoassay Using Ag/SiO₂ Nanorod Arrays (Small 12/2018). Small, 2018, 14, 1870050.	5.2	0
69	Temperature calibrated on-chip dual-mode film bulk acoustic resonator pressure sensor with a sealed back-trench cavity. Journal of Micromechanics and Microengineering, 2018, 28, 075010.	1.5	6
70	Flexible surface acoustic wave strain sensor based on single crystalline LiNbO3 thin film. Applied Physics Letters, 2018, 112, .	1.5	49
71	Biomaterial Gelatin Film Based Crossbar Structure Resistive Switching Devices. IEEE Nanotechnology Magazine, 2018, 17, 78-83.	1.1	25
72	Alterations in the Urinary Microbiota Are Associated With Cesarean Delivery. Frontiers in Microbiology, 2018, 9, 2193.	1.5	6

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73	A self-power-transmission and non-contact-reception keyboard based on a novel resonant triboelectric nanogenerator (R-TENG). Nano Energy, 2018, 50, 16-24.	8.2	44
74	Significant Effects of Electrode Metal Work Function on Resistive Memory Devices with Gelatin Biodielectric Layer. Journal of the Electrochemical Society, 2018, 165, G90-G95.	1.3	8
75	Triboelectric effect based instantaneous self-powered wireless sensing with self-determined identity. Nano Energy, 2018, 51, 1-9.	8.2	56
76	Self-powered transparent glass-based single electrode triboelectric motion tracking sensor array. Nano Energy, 2017, 34, 442-448.	8.2	40
77	Ultrafast chemical-free cell lysis by high speed stream collision induced by surface acoustic waves. Applied Physics Letters, 2017, 110, .	1.5	20
78	Photodetectors: A Broadband Fluorographene Photodetector (Adv. Mater. 22/2017). Advanced Materials, 2017, 29, .	11.1	1
79	A Broadband Fluorographene Photodetector. Advanced Materials, 2017, 29, 1700463.	11.1	110
80	Flexible ECoG electrode for implantation and neural signal recording applications. Vacuum, 2017, 140, 96-100.	1.6	11
81	Significant triboelectric enhancement using interfacial piezoelectric ZnO nanosheet layer. Nano Energy, 2017, 40, 471-480.	8.2	39
82	Portable wireless electrocorticography system with a flexible microelectrodes array for epilepsy treatment. Scientific Reports, 2017, 7, 7808.	1.6	25
83	Flexible surface acoustic wave respiration sensor for monitoring obstructive sleep apnea syndrome. Journal of Micromechanics and Microengineering, 2017, 27, 115006.	1.5	42
84	Development of a flexible and stretchable tactile sensor array with two different structures for robotic hand application. RSC Advances, 2017, 7, 48461-48465.	1.7	10
85	ESD failure analysis and protection design of GaAs power amplifier chip. , 2017, , .		1
86	ESD protection design for VBO-based high-speed multimedia interface chip. , 2017, , .		0
87	Contacts between Two- and Three-Dimensional Materials: Ohmic, Schottky, and pâ€“n Heterojunctions. ACS Nano, 2016, 10, 4895-4919.	7.3	308
88	Flexible film bulk acoustic resonators and filter-like structure made directly on polymer substrates. Integrated Ferroelectrics, 2016, 168, 157-162.	0.3	13
89	Stretchable tiny stress tactile sensor based on capacitor array. , 2016, , .		2
90	Layout optimization of GGISCR structure for on-chip system level ESD protection applications. Solid-State Electronics, 2016, 126, 152-157.	0.8	1

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91	Transparent triboelectric generators based on glass and polydimethylsiloxane. Nano Energy, 2016, 30, 235-241.	8.2	47
92	An ultralowâ€capacitance bidirectional punchâ€through transient voltage suppressor. IEEJ Transactions on Electrical and Electronic Engineering, 2016, 11, 696-699.	0.8	0
93	Transient voltage suppressor based on diode-triggered low-voltage silicon controlled rectifier. , 2016, , .		3
94	Green memristors array based on gelatin film dielectrics. , 2016, , .		0
95	Flexible magnetic sensor based on FBAR. , 2016, , .		5
96	Determination of n-alkanes contamination in soil samples by micro gas chromatography functionalized by multi-walled carbon nanotubes. Chemosphere, 2016, 158, 154-162.	4.2	7
97	Development of flexible ZnO thin film surface acoustic wave strain sensors on ultrathin glass substrates. Journal of Micromechanics and Microengineering, 2015, 25, 115005.	1.5	21
98	Design and Analysis of an Area-Efficient High Holding Voltage ESD Protection Device. IEEE Transactions on Electron Devices, 2015, 62, 606-614.	1.6	26
99	Film bulk acoustic resonators integrated on arbitrary substrates using a polymer support layer. Scientific Reports, 2015, 5, 9510.	1.6	43
100	RC-Embedded LDMOS-SCR With High Holding Current for High-Voltage I/O ESD Protection. IEEE Transactions on Device and Materials Reliability, 2015, 15, 495-499.	1.5	26
101	Key factors affecting trigger voltage of SCRS for ESD protection. , 2014, , .		0
102	A modified LDMOS device with improved ESD protection performance. IEEJ Transactions on Electrical and Electronic Engineering, 2014, 9, 700-702.	0.8	2
103	GGNMOS as ESD protection in different nanometer CMOS process. , 2014, , .		2
104	An area-efficient LDMOS-SCR ESD protection device for the I/O of power IC application. Microelectronics Reliability, 2014, 54, 1173-1178.	0.9	7
105	Resistive switching of in situ and ex situ oxygen plasma treated ZnO thin film deposited by atomic layer deposition. Applied Physics A: Materials Science and Processing, 2014, 116, 663-669.	1.1	10
106	Stacked zener trigger SCR for HV IC ESD protection. Microelectronics Reliability, 2014, 54, 1160-1162.	0.9	4
107	Integration of diamond-like carbon and AlN for acoustic wave devices. , 2013, , .		0
108	Bipolar resistive switching characteristics of low temperature grown ZnO thin films by plasma-enhanced atomic layer deposition. Applied Physics Letters, 2013, 102, .	1.5	56

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109	Flexible surface acoustic wave resonators built on disposable plastic film for electronics and lab-on-a-chip applications. Scientific Reports, 2013, 3, 2140.	1.6	116
110	Crystalline structure effect on the performance of flexible ZnO/polyimide surface acoustic wave devices. Journal of Applied Physics, 2013, 114, .	1.1	38
111	Segmented SCR for high voltage ESD protection. , 2012, , .		5
112	Current conduction and stability of CeO2/La2O3 stacked gate dielectric. Applied Physics Letters, 2012, 101, 233507.	1.5	13
113	Investigation of waffle structure SCR for electro-static discharge (ESD) protection. , 2012, , .		3
114	High-Holding-Voltage Silicon-Controlled Rectifier for ESD Applications. IEEE Electron Device Letters, 2012, 33, 1345-1347.	2.2	30
115	Flexible Surface Acoustic Wave Device with AlN Film on Polymer Substrate. Journal of Control Science and Engineering, 2012, 2012, 1-5.	0.8	9
116	Lateral IGBT in thin SOI process for high voltage ESD application. , 2012, , .		2
117	Minimizing Multiple Triggering Effect in Diode-Triggered Silicon-Controlled Rectifiers for ESD Protection Applications. IEEE Electron Device Letters, 2012, 33, 893-895.	2.2	12
118	A novel gate-suppression technique for ESD protection. Microelectronics Reliability, 2012, 52, 1598-1601.	0.9	1
119	A novel power-clamp assisted complementary MOSFET for robust ESD protection. Microelectronics Reliability, 2012, 52, 1593-1597.	0.9	3
120	Effects of High-Temperature Treatment on the Reaction Between Sn-3%Ag-0.5%Cu Solder and Sputtered Ni-V Film on Ferrite Substrate. Journal of Electronic Materials, 2012, 41, 3145-3151.	1.0	1
121	Influence of Substrate Temperature on Structural Properties and Deposition Rate of AlN Thin Film Deposited by Reactive Magnetron Sputtering. Journal of Electronic Materials, 2012, 41, 1948-1954.	1.0	38
122	Ultra-violet light assisted reactive RF magnetron sputtering deposition of AlN thin films at room temperature. Materials Letters, 2012, 79, 25-28.	1.3	1
123	Novel Capacitance Coupling Complementary Dual-Direction SCR for High-Voltage ESD. IEEE Electron Device Letters, 2012, 33, 640-642.	2.2	31
124	Trigger voltage walk-in effect of ESD protection device in HVCMOS. , 2010, , .		3
125	A Novel Capacitance-Coupling-Triggered SCR for Low-Voltage ESD Protection Applications. IEEE Electron Device Letters, 2010, 31, 1089-1091.	2.2	9
126	Silicon-Controlled Rectifier Stacking Structure for High-Voltage ESD Protection Applications. IEEE Electron Device Letters, 2010, 31, 845-847.	2.2	56

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127	Measurement of Dielectric Constant of Thin Film Materials at Microwave Frequencies. Journal of Electromagnetic Waves and Applications, 2009, 23, 809-817.	1.0	16
128	Evaluation of RF electrostatic discharge (ESD) protection in 0.18-Î¼m CMOS technology. Microelectronics Reliability, 2008, 48, 995-999.	0.9	5
129	Investigation of problems in JEDEC HBM ESD test standard. , 2008, , .		0
130	Design of Balanced RF Filter for Wireless Applications Using FBAR Technology. , 0, , .		1