

Shurong Dong

List of Publications by Year in descending order

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130
papers

3,516
citations

136885

32
h-index

155592

55
g-index

130
all docs

130
docs citations

130
times ranked

4139
citing authors

#	ARTICLE	IF	CITATIONS
1	Contacts between Two- and Three-Dimensional Materials: Ohmic, Schottky, and Heterojunctions. ACS Nano, 2016, 10, 4895-4919.	7.3	308
2	Fully biodegradable triboelectric nanogenerators based on electrospun polylactic acid and nanostructured gelatin films. Nano Energy, 2018, 45, 193-202.	8.2	226
3	High-performance triboelectric nanogenerator based on electrospun PVDF-graphene nanosheet composite nanofibers for energy harvesting. Nano Energy, 2021, 80, 105599.	8.2	142
4	Emulsion Electrospinning of Polytetrafluoroethylene (PTFE) Nanofibrous Membranes for High-Performance Triboelectric Nanogenerators. ACS Applied Materials & Interfaces, 2018, 10, 5880-5891.	4.0	137
5	Waist-wearable wireless respiration sensor based on triboelectric effect. Nano Energy, 2019, 59, 75-83.	8.2	117
6	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
7	Conjunction of triboelectric nanogenerator with induction coils as wireless power sources and self-powered wireless sensors. Nature Communications, 2020, 11, 58.	5.8	114
8	A Broadband Fluorographene Photodetector. Advanced Materials, 2017, 29, 1700463.	11.1	110
9	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
10	Realizing the potential of polyethylene oxide as new positive tribo-material: Over 40 W/m ² high power flat surface triboelectric nanogenerators. Nano Energy, 2018, 46, 63-72.	8.2	84
11	A general optimization approach for contact-separation triboelectric nanogenerator. Nano Energy, 2019, 56, 700-707.	8.2	70
12	Flexible wound healing system for pro-regeneration, temperature monitoring and infection early warning. Biosensors and Bioelectronics, 2020, 162, 112275.	5.3	64
13	Effects of liquid metal particles on performance of triboelectric nanogenerator with electrospun polyacrylonitrile fiber films. Nano Energy, 2019, 61, 381-388.	8.2	62
14	A Portable Triboelectric Nanogenerator for Real-Time Respiration Monitoring. Nanoscale Research Letters, 2019, 14, 354.	3.1	61
15	Enhanced performance triboelectric nanogenerators based on solid polymer electrolytes with different concentrations of cations. Nano Energy, 2019, 64, 103960.	8.2	59
16	Silicon-Controlled Rectifier Stacking Structure for High-Voltage ESD Protection Applications. IEEE Electron Device Letters, 2010, 31, 845-847.	2.2	56
17	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
18	Triboelectric effect based instantaneous self-powered wireless sensing with self-determined identity. Nano Energy, 2018, 51, 1-9.	8.2	56

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19	Flexible surface acoustic wave strain sensor based on single crystalline LiNbO ₃ thin film. Applied Physics Letters, 2018, 112, .	1.5	49
20	Piezoelectric boron nitride nanosheets for high performance energy harvesting devices. Nano Energy, 2021, 80, 105561.	8.2	49
21	Fully self-powered instantaneous wireless humidity sensing system based on triboelectric nanogenerator. Nano Energy, 2021, 83, 105814.	8.2	49
22	Transparent triboelectric generators based on glass and polydimethylsiloxane. Nano Energy, 2016, 30, 235-241.	8.2	47
23	Origami-tessellation-based triboelectric nanogenerator for energy harvesting with application in road pavement. Nano Energy, 2020, 78, 105177.	8.2	46
24	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
25	Bioresorbable Electrode Array for Electrophysiological and Pressure Signal Recording in the Brain. Advanced Healthcare Materials, 2019, 8, e1801649.	3.9	44
26	Film bulk acoustic resonators integrated on arbitrary substrates using a polymer support layer. Scientific Reports, 2015, 5, 9510.	1.6	43
27	Flexible surface acoustic wave respiration sensor for monitoring obstructive sleep apnea syndrome. Journal of Micromechanics and Microengineering, 2017, 27, 115006.	1.5	42
28	Self-powered transparent glass-based single electrode triboelectric motion tracking sensor array. Nano Energy, 2017, 34, 442-448.	8.2	40
29	Significant triboelectric enhancement using interfacial piezoelectric ZnO nanosheet layer. Nano Energy, 2017, 40, 471-480.	8.2	39
30	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
31	Crystalline structure effect on the performance of flexible ZnO/polyimide surface acoustic wave devices. Journal of Applied Physics, 2013, 114, .	1.1	38
32	Significantly Enhanced Performance of Triboelectric Nanogenerator by Incorporating BaTiO ₃ Nanoparticles in Poly(vinylidene fluoride) Film. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900068.	0.8	35
33	Switchable textile-triboelectric nanogenerators (S-TENGs) for continuous profile sensing application without environmental interferences. Nano Energy, 2020, 69, 104462.	8.2	34
34	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
35	Novel Capacitance Coupling Complementary Dual-Direction SCR for High-Voltage ESD. IEEE Electron Device Letters, 2012, 33, 640-642.	2.2	31
36	High-Holding-Voltage Silicon-Controlled Rectifier for ESD Applications. IEEE Electron Device Letters, 2012, 33, 1345-1347.	2.2	30

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37	A novel rhombic-shaped paper-based triboelectric nanogenerator for harvesting energy from environmental vibration. <i>Sensors and Actuators A: Physical</i> , 2020, 302, 111806.	2.0	30
38	Stretchable Optical Sensing Patch System Integrated Heart Rate, Pulse Oxygen Saturation, and Sweat pH Detection. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1000-1005.	2.5	28
39	Design and Analysis of an Area-Efficient High Holding Voltage ESD Protection Device. <i>IEEE Transactions on Electron Devices</i> , 2015, 62, 606-614.	1.6	26
40	RC-Embedded LDMOS-SCR With High Holding Current for High-Voltage I/O ESD Protection. <i>IEEE Transactions on Device and Materials Reliability</i> , 2015, 15, 495-499.	1.5	26
41	Dielectrophoresis-Based Protein Enrichment for a Highly Sensitive Immunoassay Using Ag/SiO ₂ Nanorod Arrays. <i>Small</i> , 2018, 14, e1703265.	5.2	26
42	Portable wireless electrocorticography system with a flexible microelectrodes array for epilepsy treatment. <i>Scientific Reports</i> , 2017, 7, 7808.	1.6	25
43	Biomaterial Gelatin Film Based Crossbar Structure Resistive Switching Devices. <i>IEEE Nanotechnology Magazine</i> , 2018, 17, 78-83.	1.1	25
44	Flexible thin-film acoustic wave devices with off-axis bending characteristics for multisensing applications. <i>Microsystems and Nanoengineering</i> , 2021, 7, 97.	3.4	25
45	A Flexible Capacitive 3D Tactile Sensor With Cross-Shaped Capacitor Plate Pair and Composite Structure Dielectric. <i>IEEE Sensors Journal</i> , 2021, 21, 1378-1385.	2.4	24
46	Soft Artificial Bladder Detrusor. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701014.	3.9	23
47	Development of flexible ZnO thin film surface acoustic wave strain sensors on ultrathin glass substrates. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 115005.	1.5	21
48	Triboelectric nanogenerator-enabled fully self-powered instantaneous wireless sensor systems. <i>Nano Energy</i> , 2022, 92, 106770.	8.2	21
49	Ultrafast chemical-free cell lysis by high speed stream collision induced by surface acoustic waves. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	20
50	Flexible wireless skin impedance sensing system for wound healing assessment. <i>Vacuum</i> , 2019, 168, 108808.	1.6	20
51	Geographical variation in lung cancer risk associated with road traffics in Jiading District, Shanghai. <i>Science of the Total Environment</i> , 2019, 652, 729-735.	3.9	19
52	Controlling Performance of Organic-Inorganic Hybrid Perovskite Triboelectric Nanogenerators via Chemical Composition Modulation and Electric Field-Induced Ion Migration. <i>Advanced Energy Materials</i> , 2020, 10, 2002470.	10.2	19
53	Electric-Field-Resonance-Based Wireless Triboelectric Nanogenerators and Sensors. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 794-804.	4.0	18
54	Surface Acoustic Wave-Based Lab-on-a-Chip for Rapid Transport of Cryoprotectants across Cell Membrane for Cryopreservation with Significantly Improved Cell Viability. <i>Small</i> , 2019, 15, e1805361.	5.2	17

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55	Flexible dual-mode surface acoustic wave strain sensor based on crystalline LiNbO ₃ thin film. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 025003.	1.5	17
56	A Highly Sensitive Amperometric Glutamate Oxidase Microbiosensor Based on a Reduced Graphene Oxide/Prussian Blue Nanocube/Gold Nanoparticle Composite Film-Modified Pt Electrode. <i>Sensors</i> , 2020, 20, 2924.	2.1	17
57	Measurement of Dielectric Constant of Thin Film Materials at Microwave Frequencies. <i>Journal of Electromagnetic Waves and Applications</i> , 2009, 23, 809-817.	1.0	16
58	A Flexible Film Bulk Acoustic Resonator Based on $\hat{\Gamma}^2$ -Phase Polyvinylidene Fluoride Polymer. <i>Sensors</i> , 2020, 20, 1346.	2.1	14
59	Self-powered pumping switched TENG enabled real-time wireless metal tin height and position recognition and counting for production line management. <i>Nano Energy</i> , 2021, 90, 106544.	8.2	14
60	Current conduction and stability of CeO ₂ /La ₂ O ₃ stacked gate dielectric. <i>Applied Physics Letters</i> , 2012, 101, 233507.	1.5	13
61	Flexible film bulk acoustic resonators and filter-like structure made directly on polymer substrates. <i>Integrated Ferroelectrics</i> , 2016, 168, 157-162.	0.3	13
62	Novel insights from the ultra-thin film, strain-modulated dynamic triboelectric characterizations. <i>Nano Energy</i> , 2021, 80, 105560.	8.2	13
63	Minimizing Multiple Triggering Effect in Diode-Triggered Silicon-Controlled Rectifiers for ESD Protection Applications. <i>IEEE Electron Device Letters</i> , 2012, 33, 893-895.	2.2	12
64	Flexible and fully biodegradable resistance random access memory based on a gelatin dielectric. <i>Nanotechnology</i> , 2020, 31, 255204.	1.3	12
65	A langasite surface acoustic wave wide-range temperature sensor with excellent linearity and high sensitivity. <i>AIP Advances</i> , 2021, 11, .	0.6	12
66	Flexible Strain Sensor Based on Ultra-Thin Quartz Plate. <i>IEEE Sensors Journal</i> , 2021, 21, 18571-18577.	2.4	12
67	Ultrathin single-crystalline LiNbO ₃ film bulk acoustic resonator for 5G communication. <i>Electronics Letters</i> , 2020, 56, 1142-1143.	0.5	12
68	Fully self-powered instantaneous wireless liquid level sensor system based on triboelectric nanogenerator. <i>Nano Research</i> , 2022, 15, 5425-5434.	5.8	12
69	Flexible ECoG electrode for implantation and neural signal recording applications. <i>Vacuum</i> , 2017, 140, 96-100.	1.6	11
70	Monolithic integration of nanorod arrays on microfluidic chips for fast and sensitive one-step immunoassays. <i>Microsystems and Nanoengineering</i> , 2021, 7, 65.	3.4	11
71	Resistive switching of in situ and ex situ oxygen plasma treated ZnO thin film deposited by atomic layer deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 663-669.	1.1	10
72	Development of a flexible and stretchable tactile sensor array with two different structures for robotic hand application. <i>RSC Advances</i> , 2017, 7, 48461-48465.	1.7	10

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73	Triboelectric Nanogenerator-Based Self-Powered Resonant Sensor for Non-Destructive Defect Detection. <i>Sensors</i> , 2019, 19, 3262.	2.1	10
74	Influence of coarse particulate matter on chickenpox in Jiading District, Shanghai, 2009–2018: A distributed lag non-linear time series analysis. <i>Environmental Research</i> , 2020, 190, 110039.	3.7	10
75	Automatic Classification of Normal–Abnormal Heart Sounds Using Convolution Neural Network and Long-Short Term Memory. <i>Electronics (Switzerland)</i> , 2022, 11, 1246.	1.8	10
76	A Novel Capacitance-Coupling-Triggered SCR for Low-Voltage ESD Protection Applications. <i>IEEE Electron Device Letters</i> , 2010, 31, 1089-1091.	2.2	9
77	Flexible Surface Acoustic Wave Device with AlN Film on Polymer Substrate. <i>Journal of Control Science and Engineering</i> , 2012, 2012, 1-5.	0.8	9
78	High-Gain Transparent Inverters Based on Deuterated ZnO TFTs Fabricated by Atomic Layer Deposition. <i>IEEE Electron Device Letters</i> , 2020, 41, 1508-1511.	2.2	9
79	Universal Triboelectric Nanogenerator Simulation Based on Dynamic Finite Element Method Model. <i>Sensors</i> , 2020, 20, 4838.	2.1	9
80	Comparison of sputtering and atomic layer deposition based ultra-thin alumina protective layers for high temperature surface acoustic wave devices. <i>Journal of Materials Research and Technology</i> , 2021, 15, 4714-4724.	2.6	9
81	Significant Effects of Electrode Metal Work Function on Resistive Memory Devices with Gelatin Biodielectric Layer. <i>Journal of the Electrochemical Society</i> , 2018, 165, G90-G95.	1.3	8
82	Coexistence of Contact Electrification and Dynamic p–n Junction Modulation Effects in Triboelectrification. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 30410-30419.	4.0	8
83	An area-efficient LDMOS-SCR ESD protection device for the I/O of power IC application. <i>Microelectronics Reliability</i> , 2014, 54, 1173-1178.	0.9	7
84	Determination of n-alkanes contamination in soil samples by micro gas chromatography functionalized by multi-walled carbon nanotubes. <i>Chemosphere</i> , 2016, 158, 154-162.	4.2	7
85	AFM study on the surface morphologies of TiN films prepared by magnetron sputtering and Al ₂ O ₃ films prepared by atomic layer deposition. <i>Vacuum</i> , 2018, 153, 139-144.	1.6	7
86	Ultra-thin atom layer deposited alumina film enables the precise lifetime control of fully biodegradable electronic devices. <i>Nanoscale</i> , 2019, 11, 22369-22377.	2.8	7
87	Temperature calibrated on-chip dual-mode film bulk acoustic resonator pressure sensor with a sealed back-trench cavity. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 075010.	1.5	6
88	Alterations in the Urinary Microbiota Are Associated With Cesarean Delivery. <i>Frontiers in Microbiology</i> , 2018, 9, 2193.	1.5	6
89	Evaluation of RF electrostatic discharge (ESD) protection in 0.18-µm CMOS technology. <i>Microelectronics Reliability</i> , 2008, 48, 995-999.	0.9	5
90	Segmented SCR for high voltage ESD protection. , 2012, , .		5

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91	Flexible magnetic sensor based on FBAR. , 2016, , .		5
92	Mode Analysis of Pt/LGS Surface Acoustic Wave Devices. Sensors, 2020, 20, 7111.	2.1	5
93	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
94	Surface Acoustic Wave Strain Sensor With Ultra-Thin Langasite. IEEE Sensors Journal, 2022, 22, 11509-11516.	2.4	5
95	Stacked zener trigger SCR for HV IC ESD protection. Microelectronics Reliability, 2014, 54, 1160-1162.	0.9	4
96	Prevalence and incidence of advanced schistosomiasis and risk factors for case fatality in Hunan Province, China. Acta Tropica, 2021, 217, 105862.	0.9	4
97	High temperature effects on surface acoustic wave strain sensor. Sensors and Actuators A: Physical, 2022, 338, 113464.	2.0	4
98	Silicon-Controlled Rectifier Embedded Diode for 7 nm FinFET Process Electrostatic Discharge Protection. Nanomaterials, 2022, 12, 1743.	1.9	4
99	Trigger voltage walk-in effect of ESD protection device in HVCMOS. , 2010, , .		3
100	Investigation of waffle structure SCR for electro-static discharge (ESD) protection. , 2012, , .		3
101	A novel power-clamp assisted complementary MOSFET for robust ESD protection. Microelectronics Reliability, 2012, 52, 1593-1597.	0.9	3
102	Transient voltage suppressor based on diode-triggered low-voltage silicon controlled rectifier. , 2016, , .		3
103	High-resolution separation of DNA/proteins through nanorod sieving matrix. Biosensors and Bioelectronics, 2019, 137, 8-14.	5.3	3
104	Lateral IGBT in thin SOI process for high voltage ESD application. , 2012, , .		2
105	A modified LDMOS device with improved ESD protection performance. IEEJ Transactions on Electrical and Electronic Engineering, 2014, 9, 700-702.	0.8	2
106	GGNMOS as ESD protection in different nanometer CMOS process. , 2014, , .		2
107	Stretchable tiny stress tactile sensor based on capacitor array. , 2016, , .		2
108	Factors associated with uptake of Haemophilus influenzae type b vaccination in Shanghai, China. BMC Pediatrics, 2019, 19, 8.	0.7	2

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109	Numerical Investigation of Phononic Crystal Based Film Bulk Acoustic Wave Resonators. <i>Nanomaterials</i> , 2021, 11, 2547.	1.9	2
110	Analytical Study of the Film Bulk Acoustic Resonators Based on Single Crystal LiNbO ₃ with Different Crystal Orientations. <i>Integrated Ferroelectrics</i> , 2021, 213, 182-193.	0.3	2
111	Non-Invasive Muscular Atrophy Causes Evaluation for Limb Fracture Based on Flexible Surface Electromyography System. <i>Sensors</i> , 2022, 22, 2640.	2.1	2
112	Design of Balanced RF Filter for Wireless Applications Using FBAR Technology. , 0, , .		1
113	A novel gate-suppression technique for ESD protection. <i>Microelectronics Reliability</i> , 2012, 52, 1598-1601.	0.9	1
114	Effects of High-Temperature Treatment on the Reaction Between Sn-3%Ag-0.5%Cu Solder and Sputtered Ni-V Film on Ferrite Substrate. <i>Journal of Electronic Materials</i> , 2012, 41, 3145-3151.	1.0	1
115	Ultra-violet light assisted reactive RF magnetron sputtering deposition of AlN thin films at room temperature. <i>Materials Letters</i> , 2012, 79, 25-28.	1.3	1
116	Layout optimization of GGISCR structure for on-chip system level ESD protection applications. <i>Solid-State Electronics</i> , 2016, 126, 152-157.	0.8	1
117	Photodetectors: A Broadband Fluorographene Photodetector (<i>Adv. Mater.</i> 22/2017). <i>Advanced Materials</i> , 2017, 29, .	11.1	1
118	ESD failure analysis and protection design of GaAs power amplifier chip. , 2017, , .		1
119	Novel Adjustable Self-Compensation Flipped Voltage Follower of ZnO TFTs for Transparent Pixel Circuits. <i>IEEE Electron Device Letters</i> , 2022, 43, 398-401.	2.2	1
120	One-Stage Closed Intramedullary Nailing for Delayed Femoral Fracture in Multiple Injured Patients. <i>Orthopaedic Surgery</i> , 2022, , .	0.7	1
121	Single Crystal Bulk Acoustic Resonator for 5%GHz and High-Power Applications. <i>Integrated Ferroelectrics</i> , 2021, 221, 64-72.	0.3	1
122	Investigation of problems in JEDEC HBM ESD test standard. , 2008, , .		0
123	Integration of diamond-like carbon and AlN for acoustic wave devices. , 2013, , .		0
124	Key factors affecting trigger voltage of SCRS for ESD protection. , 2014, , .		0
125	An ultralow-capacitance bidirectional punch-through transient voltage suppressor. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2016, 11, 696-699.	0.8	0
126	Green memristors array based on gelatin film dielectrics. , 2016, , .		0

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127	ESD protection design for VBO-based high-speed multimedia interface chip. , 2017, , .		0
128	Immunoassays: Dielectrophoresis-Based Protein Enrichment for a Highly Sensitive Immunoassay Using Ag/SiO ₂ Nanorod Arrays (Small 12/2018). Small, 2018, 14, 1870050.	5.2	0
129	A switchable fabric-triboelectric nanogenerators (SF-TENGs) profile sensing application. , 2019, , .		0
130	ESD pulse width effect on RC-triggered NMOS with power on or off. , 2021, , .		0