Jinho Bae

List of Publications by Year
in descending order

116 papers	1,718 citations	279798 23 h-index	377865 34 g-index
120 all docs	120 docs citations	120 times ranked	1423 citing authors

#	Article	IF	Citations
1	Enhancing Mechanical Energy Transfer of Piezoelectric Supercapacitors. Advanced Materials Technologies, 2022, 7, 2100550.	5.8	5
2	Asymmetric GaN/ZnO Engineered Resistive Memory Device for Electronic Synapses. ACS Applied Electronic Materials, 2022, 4, 297-307.	4.3	13
3	Two dimensional Zirconium diselenide based humidity sensor for flexible electronics. Sensors and Actuators B: Chemical, 2022, 358, 131507.	7.8	29
4	Ultra-robust tribo- and piezo-electric nanogenerator based on metal organic frameworks (MOF-5) with high environmental stability. Nano Energy, 2022, 96, 107128.	16.0	46
5	Enhancing Mechanical Energy Transfer of Piezoelectric Supercapacitors (Adv. Mater. Technol. 4/2022). Advanced Materials Technologies, 2022, 7, .	5.8	0
6	Triboelectric nanogenerator based on lignocellulosic waste fruit shell tribopositive material: Comparative analysis. Materials Today Sustainability, 2022, 18, 100146.	4.1	20
7	Bioinspired Soft Multistate Resistive Memory Device Based on Silk Fibroin Gel for Neuromorphic Computing. Advanced Engineering Materials, 2022, 24, .	3.5	12
8	Ionic liquid multistate resistive switching characteristics in two terminal soft and flexible discrete channels for neuromorphic computing. Microsystems and Nanoengineering, 2022, 8, .	7.0	10
9	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.	2.9	7
10	Particle triboelectric nanogenerator (P-TENG). Nano Energy, 2022, 100, 107475.	16.0	17
11	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, .	5.1	15
12	Capacitive coupled non-zero Iâ€“V and type-II memristive properties of the NiFe2O4â€“TiO2 nanocomposite. Materials Science in Semiconductor Processing, 2021, 125, 105646.	4.0	21
13	Humidity sensor based on Gallium Nitride for real time monitoring applications. Scientific Reports, 2021, 11, 11088.	3.3	27
14	Natural Hierarchically Structured Highly Porous Tomato Peel Based Triboâ€•and Piezoâ€Electric Nanogenerator for Efficient Energy Harvesting. Advanced Sustainable Systems, 2021, 5, 2100066.	5.3	18
15	Wide range and highly linear signal processed systematic humidity sensor array using Methylene Blue and Graphene composite. Scientific Reports, 2021, 11, 16665.	3.3	11
16	Novel Recycled Triboelectric Nanogenerator Based on Polymerâ€Coated Trash Soda Can for Clean Energy Harvesting. Advanced Sustainable Systems, 2021, 5, 2100161.	5.3	19
17	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.	7.8	43
18	Bio-waste sunflower husks powder based recycled triboelectric nanogenerator for energy harvesting. Energy Reports, 2021, 7, 724-731.	5.1	61

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19	Natural seagrass tribopositive material based spray coatable triboelectric nanogenerator. Nano Energy, 2021, 89, 106458.	16.0	36
20	Expired Pharmaceutical Drugs as Tribopositive Material for Triboelectric Nanogenerator. Advanced Sustainable Systems, 2021, 5, 2100205.	5.3	4
21	Soft and flexible: core-shell ionic liquid resistive memory for electronic synapses. Microsystems and Nanoengineering, 2021, 7, 78.	7.0	15
22	Expired Pharmaceutical Drugs as Tribopositive Material for Triboelectric Nanogenerator (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	5.3	2
23	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.	2.2	16
24	Biowaste Peanut Shell Powder-Based Triboelectric Nanogenerator for Biomechanical Energy Scavenging and Sustainably Powering Electronic Supplies. ACS Applied Electronic Materials, 2020, 2, 3953-3963.	4.3	41
25	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.	3.6	20
26	Inkjet printed self-healable strain sensor based on graphene and magnetic iron oxide nano-composite on engineered polyurethane substrate. Scientific Reports, 2020, 10, 18234.	3.3	18
27	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.	2.2	11
28	All printed full range humidity sensor based on Fe_2O_3. Sensors and Actuators A: Physical, 2020, 311, 112072.	4.1	32
29	All printed wide range humidity sensor array combining $MoSe_2$ and PVOH in series. Journal of Materials Science: Materials in Electronics, 2020, 31, 7683-7697.	2.2	12
30	All printed organic humidity sensor based on egg albumin. Sensing and Bio-Sensing Research, 2020, 28, 100337.	4.2	14
31	Printable Highly Stable and Superfast Humidity Sensor Based on Two Dimensional Molybdenum Diselenide. Scientific Reports, 2020, 10, 5509.	3.3	36
32	Soft ionic liquid based resistive memory characteristics in a two terminal discrete polydimethylsiloxane cylindrical microchannel. Journal of Materials Chemistry C, 2020, 8, 13368-13374.	5.5	16
33	A flexible differential temperature sensor for wearable electronics applications. , 2019, , .		3
34	Resistive switching memory utilizing water and titanium dioxide thin film Schottky diode. Journal of Materials Science: Materials in Electronics, 2019, 30, 18744-18752.	2.2	10
35	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.	2.2	29
36	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.	3.5	20

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37	Non-volatile resistive switching based on zirconium dioxide: poly (4-vinylphenol) nano-composite. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	19
38	Bio-compatible organic humidity sensor based on natural inner egg shell membrane with multilayer crosslinked fiber structure. Scientific Reports, 2019, 9, 5824.	3.3	30
39	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.	2.6	26
40	Resistive switching device with highly-asymmetric current-voltage characteristics: its error analysis and new design parameter. Semiconductor Science and Technology, 2019, 34, 025007.	2.0	3
41	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.	2.3	17
42	Disposable all-printed electronic biosensor for instantaneous detection and classification of pathogens. Scientific Reports, 2018, 8, 5920.	3.3	42
43	Ink-jet printed stretchable strain sensor based on graphene/ZnO composite on micro-random ridged PDMS substrate. Composites Part A: Applied Science and Manufacturing, 2018, 107, 519-528.	7.6	58
44	Wide range and stable ink-jet printed humidity sensor based on graphene and zinc oxide nanocomposite. Journal of Materials Science: Materials in Electronics, 2018, 29, 5806-5813.	2.2	31
45	Ink-jet printed transparent and flexible electrodes based on silver nanoparticles. Journal of Materials Science: Materials in Electronics, 2018, 29, 49-55.	2.2	13
46	Inkjet printed organic-inorganic bilayer photoconductive sensor. , 2018, , .		1
47	All-printed organic and oxide hetero-structure device with photoconductivity. , 2018, , .		1
48	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.	2.3	23
49	Resistive switching device with highly asymmetric currentâ€“voltage characteristics: a solution to backward sneak current in passive crossbar arrays. Nanotechnology, 2018, 29, 455201.	2.6	15
50	All-printed Stretchable Photo-Conductive Device Fabricated on Engineered PDMS. , 2018, , .		1
51	Memristor-capacitor passive filters to tune both cut-off frequency and bandwidth. Proceedings of SPIE, 2017, , .	0.8	0
52	Flexible resistive switching device based on poly(3,4-ethylenedioxythiophene):poly(styrene sulfonate) (PEDOT:PSS)/poly(4-vinylphenol) (PVP) composite and methyl red heterojunction. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	15
53	A flat-panel-shaped hybrid piezo/triboelectric nanogenerator for ambient energy harvesting. Nanotechnology, 2017, 28, 175402.	2.6	42
54	Ultra-low power non-volatile resistive crossbar memory based on pull up resistors. Organic Electronics, 2017, 41, 73-78.	2.6	25

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55	Flexible frequency selective passive circuits based on memristor and capacitor. Organic Electronics, 2017, 51, 119-127.	2.6	18
56	An inkjet-printed microstrip patch sensor for liquid identification. Sensors and Actuators A: Physical, 2017, 268, 141-147.	4.1	8
57	Inkjet-printed antenna on thin PET substrate for dual band Wi-Fi communications. Microsystem Technologies, 2017, 23, 3701-3709.	2.0	25
58	Microstrip Patch Sensor for Salinity Determination. Sensors, 2017, 17, 2941.	3.8	28
59	All-printed humidity sensor based on graphene/methyl-red composite with high sensitivity. Carbon, 2016, 105, 23-32.	10.3	125
60	Organic diode with high rectification ratio made of electrohydrodynamic printed organic layers. Electronic Materials Letters, 2016, 12, 270-275.	2.2	16
61	Inkjet printed transparent and bendable patch antenna based on polydimethylsiloxane and indium tin oxide nanoparticles. Microwave and Optical Technology Letters, 2016, 58, 2884-2887.	1.4	16
62	All-Printed Differential Temperature Sensor for the Compensation of Bending Effects. Langmuir, 2016, 32, 11432-11439.	3.5	46
63	All printed antenna based on silver nanoparticles for 1.8ÂGHz applications. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	14
64	Flexible dual-band antenna for communication and radar applications. , 2016, , .		3
65	Printed non-volatile resistive switches based on zinc stannate (ZnSnO3). Current Applied Physics, 2016, 16, 757-762.	2.4	17
66	Stretchable photo sensor using perylene/graphene composite on ridged polydimethylsiloxane substrate. Optics Express, 2015, 23, 30583.	3.4	15
67	Flexible and passive photo sensor based on perylene/graphene composite. Sensors and Actuators B: Chemical, 2015, 220, 634-640.	7.8	16
68	All-printed and highly stable organic resistive switching device based on graphene quantum dots and polyvinylpyrrolidone composite. Organic Electronics, 2015, 25, 225-231.	2.6	42
69	Design of versatile printed organic resistor based on resistivity (ï) control. Applied Physics A: Materials Science and Processing, 2015, 119, 1499-1506.	2.3	20
70	Flexible and stackable non-volatile resistive memory for high integration. Proceedings of SPIE, 2015, , .	0.8	1
71	Organic non-volatile memory cell based on resistive elements through electro-hydrodynamic technique. Organic Electronics, 2015, 17, 121-128.	2.6	28
72	Target Path Detection Algorithm Using Activation Time Lag of PDR Sensors Based on USN. The Journal of the Institute of Internet Broadcasting and Communication, 2015, 15, 179-186.	0.0	1

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73	EEG Signal Classification Algorithm based on DWT and SVM for Driving Robot Control. Journal of the Institute of Electronics and Information Engineers, 2015, 52, 117-125.	0.0	2
74	Implementation of a Rotational Ultrasound Biomicroscopy System Equipped with a High-Frequency Angled Needle Transducer â€" Ex Vivo Ultrasound Imaging of Porcine Ocular Posterior Tissues. Sensors, 2014, 14, 17807-17816.	3.8	1
75	Sub-bottom Profiling Algorithm using Parametric Array. Journal of Ocean Engineering and Technology, 2014, 28, 55-63.	1.2	1
76	Analysis of Features and Discriminability of Transient Signals for a Shallow Water Ambient Noise Environment. Journal of the Institute of Electronics and Information Engineers, 2014, 51, 209-220.	0.0	0
77	The Schur Algorithm Applied to the One-Dimensional Continuous Inverse Scattering Problem. IEEE Transactions on Signal Processing, 2013, 61, 3311-3320.	5.3	2
78	Synthesis of Optical IIR Allpass Filters Using Layer Peeling Algorithm Based on Eigenvalue Problem. IEEE Photonics Technology Letters, 2013, 25, 626-628.	2.5	1
79	Target Classification Algorithm Using Complex-valued Support Vector Machine. Journal of the Institute of Electronics and Information Engineers, 2013, 50, 182-188.	0.0	2
80	Target Detection Algorithm Based on Seismic Sensor for Adaptation of Background Noise. Journal of the Institute of Electronics and Information Engineers, 2013, 50, 258-266.	0.0	2
81	Schur Algorithm for Sub-bottom Profiling. Journal of the Institute of Electronics and Information Engineers, 2013, 50, 156-163.	0.0	1
82	Classification of Transient Signals in Ocean Background Noise Using Bayesian Classifier. Journal of Ocean Engineering and Technology, 2012, 26, 57-63.	1.2	1
83	Numerically extrapolated discrete layer-peeling algorithm for synthesis of nonuniform fiber Bragg gratings. Optics Express, 2011, 19, 8254.	3.4	8
84	Implementation of an ultrasound biomicroscopy system by rotational scanning of a high-frequency angled needle transducer. , 2011, , .		0
85	SEMI-EMPIRICAL KERNEL FUNCTION FOR THE ANALYSIS OF FIBER BRAGG GRATINGS UNDER TEMPERATURE DISTRIBUTIONS. International Journal of Modern Physics B, 2011, 25, 4208-4211.	2.0	1
86	DYNAMIC MODELING AND STRUCTURAL ANALYSIS OF MANTA-TYPE UUV. International Journal of Modern Physics B, 2011, 25, 4319-4322.	2.0	2
87	A novel manuevering target tracking algorithm based on moving slide window. , 2010, , .		0
88	New Combined Matrix Model for the Analysis of Merged Optical Fiber Gratings with both Long- and Short-Period Fiber Gratings. Japanese Journal of Applied Physics, 2010, 49, 070207.	1.5	0
89	Synthesis method based on genetic algorithm for designing EDFA gain flattening LPFGs having phase-shifted effect. Optical Fiber Technology, 2009, 15, 320-323.	2.7	5
90	Semi-empirical multi-port lattice model for long-period fiber grating analysis under arbitrary temperature distributions. Optics Express, 2008, 16, 598.	3.4	0

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91	Semi-Empirical Model for the Thermally tunable LPFG. , 2007, , .		0
92	Synthesis of Flat-Top Bandpass Filters Using Two-Band Rejection Long-Period Fiber Gratings. IEEE Photonics Technology Letters, 2007, 19, 1466-1468.	2.5	11
93	The block Schur algorithm for designing optical multi-layered structures. Optics Communications, 2007, 272, 40-43.	2.1	2
94	Analysis of Long Period Fiber Grating using Thermally Tunable Multiport Lattice Model. , 2006, , .		0
95	Synthesis method based on optimization techniques for designing piecewise-uniform long-period fiber gratings controlled by thermal changes. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 1241.	2.1	2
96	Circulant Matrix Factorization Based on Schur Algorithm for Designing Optical Multimirror Filters. Japanese Journal of Applied Physics, 2006, 45, 5163-5168.	1.5	6
97	The Schur algorithm applied to the design of optical multi-mirror structures. Numerical Linear Algebra With Applications, 2005, 12, 283-292.	1.6	7
98	Synthesis of Tunable Long-Period Fiber Gratings with Inverted Erbium-Doped Fiber Amplifier Spectrum Using Thermal Change Parameters. Japanese Journal of Applied Physics, 2005, 44, L156-L158.	1.5	2
99	Dynamic EDFA gain-flattening filter using two LPFGs with divided coil heaters. IEEE Photonics Technology Letters, 2005, 17, 1226-1228.	2.5	21
100	A Low-Cost Orbit Determination Method for Mobile Communication Satellites. Transactions of the Japan Society for Aeronautical and Space Sciences, 2004, 46, 271-274.	0.7	0
101	Analysis for long period fiber gratings using thermal kernel function. Optics Express, 2004, 12, 797.	3.4	9
102	Synthesis of Long-Period Fiber Gratings With the Inverted Erbium Gain Spectrum Using the Multiport Lattice Filter Model. Journal of Lightwave Technology, 2004, 22, 1976-1986.	4.6	9
103	Spectral shape tunable band-rejection filter using a long-period fiber grating with divided coil heaters. IEEE Photonics Technology Letters, 2003, 15, 407-409.	2.5	38
104	Numerical optimization approach for designing bandpass filters using fiber Bragg gratings. Optical Engineering, 2003, 42, 23.	1.0	9
105	Analysis of Concatenated Long Period Fiber Gratings Having Phase-Shifted and Cascaded Effects. Japanese Journal of Applied Physics, 2003, 42, 5098-5101.	1.5	9
106	Equalization of Erbium Gain Spectrum Using the Multiport Lattice Filter. Fiber and Integrated Optics, 2002, 21, 31-42.	2.5	2
107	A New Layer-Peeling Algorithm for Lossy Media without Using Phase Information. Japanese Journal of Applied Physics, 2002, 41, L770-L772.	1.5	1
108	<title>Parameter identification for the cascaded fiber optic lattice structure using the Schur algorithm</title>. , 2001, , .		1

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109	Multiport lattice filter model for long-period fiber gratings. , 2000, 3944, 780.		1
110	Extracting 3-D parameters of an object from its 2-D images using the simulated annealing. , 2000, , .		0
111	Multiport Lattice Filter Model for Long-Period Fiber Gratings. Japanese Journal of Applied Physics, 2000, 39, 6576-6577.	1.5	6
112	Analysis of the Fiber Bragg Gratings using the Lattice Filter Model. Japanese Journal of Applied Physics, 2000, 39, 1752-1756.	1.5	10
113	Two Methods for Synthesizing the Long Period Fiber Gratings with the Inverted Erbium Gain Spectrum. Japanese Journal of Applied Physics, 1999, 38, L819-L822.	1.5	10
114	<title>Analysis of the fiber Bragg gratings using the lattice filter model</title>. , 1998, , .		2
115	Equalization of the non-flat erbium gain spectrum using the multiport lattice filter model. , 0, , .		3
116	Liquid Capacitor Based on Hafnium Oxide. Key Engineering Materials, 0, 801, 211-216.	0.4	2