Huilong Zhang

List of Publications by Year
in descending order

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		623734	526287
34	1,444	14	27
papers	citations	h-index	g-index

34	34	34	2608
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microwave Flexible Electronics Directly Transformed from Foundryâ€Produced, Multilayered Monolithic Integrated Circuits. Advanced Electronic Materials, 2022, 8, .	5.1	0
2	Flexible and Stretchable Microwave Electronics: Past, Present, and Future Perspective. Advanced Materials Technologies, 2021, 6, 2000759.	5.8	39
3	Versatile Wood Cellulose for Biodegradable Electronics. Advanced Materials Technologies, 2021, 6, 2000928.	5.8	40
4	Hybrid liquid-metal heat dissipation structure enabled by phase transition for flexible electronics. Semiconductor Science and Technology, 2021, 36, 055007.	2.0	2
5	S- to X-Band Stretchable Inductors and Filters for Gigahertz Soft and Epidermal Electronics. ACS Applied Materials & Interfaces, 2021, 13, 25053-25063.	8.0	3
6	(Invited) Flexible and Stretchable Microwave Electronics. ECS Meeting Abstracts, 2021, MA2021-01, 1110-1110.	0.0	0
7	AlGaN/GaN Schottky-Gate HEMTs With UV/Oâ‚‚-Treated Gate Interface. IEEE Electron Device Letters, 2020, 41, 1488-1491.	3.9	13
8	A pH-responsive silicaâ€“metalâ€“organic framework hybrid nanoparticle for the delivery of hydrophilic drugs, nucleic acids, and CRISPR-Cas9 genome-editing machineries. Journal of Controlled Release, 2020, 324, 194-203.	9.9	55
9	Heterogeneously integrated flexible microwave amplifiers on a cellulose nanofibril substrate. Nature Communications, 2020, 11, 3118.	12.8	26
10	Portable Self-Charging Power System via Integration of a Flexible Paper-Based Triboelectric Nanogenerator and Supercapacitor. ACS Sustainable Chemistry and Engineering, 2019, 7, 18657-18666.	6.7	90
11	Influences of screw dislocations on electroluminescence of AlGaN/AlN-based UVC LEDs. AIP Advances, 2019, 9, .	1.3	11
12	Releasable Highâ€Performance GaAs Schottky Diodes for Gigahertz Operation of Flexible Bridge Rectifier. Advanced Electronic Materials, 2019, 5, 1800772.	5.1	16
13	Producing Conductive Grapheneâ€“Nanocellulose Paper in One-pot. Journal of Polymers and the Environment, 2019, 27, 148-157.	5.0	9
14	Photolithography-Based Nanopatterning Using Re-entrant Photoresist Profile. ACS Applied Materials & Interfaces, 2018, 10, 8117-8123.	8.0	8
15	Optically Detected Magnetic Resonance for Selective Imaging of Diamond Nanoparticles. Analytical Chemistry, 2018, 90, 769-776.	6.5	14
16	3D Microstructured Scaffolds to Support Photoreceptor Polarization and Maturation. Advanced Materials, 2018, 30, e1803550.	21.0	45
17	Flexible and Stretchable Microwave Microelectronic Devices and Circuits. IEEE Transactions on Electron Devices, 2017, 64, 1881-1893.	3.0	42
18	High-performance green semiconductor devices: materials, designs, and fabrication. Semiconductor Science and Technology, 2017, 32, 063002.	2.0	18

#	Article	IF	Citations
19	Radio-frequency flexible and stretchable electronics: the need, challenges and opportunities. Proceedings of SPIE, 2017, , .	0.8	6
20	Bendable MOS capacitors formed with printed In0.2Ga0.8As/GaAs/In0.2Ga0.8As trilayer nanomembrane on plastic substrates. Applied Physics Letters, 2017, 110, 133505.	3.3	2
21	A composite generator film impregnated with cellulose nanocrystals for enhanced triboelectric performance. Nanoscale, 2017, 9, 1428-1433.	5.6	67
22	High-sensitivity silicon ultraviolet p+-i-n avalanche photodiode using ultra-shallow boron gradient doping. Applied Physics Letters, 2017, 111, .	3.3	12
23	Stretchable Twistedâ€Pair Transmission Lines for Microwave Frequency Wearable Electronics. Advanced Functional Materials, 2016, 26, 4635-4642.	14.9	41
24	Wireless Applications of Conformal Bioelectronics. Microsystems and Nanosystems, 2016, , 83-114.	0.1	1
25	Green microwave electronics for the coming era of flexible electronics. , 2016, , .		0
26	Wearable Electronics: Stretchable Twisted-Pair Transmission Lines for Microwave Frequency Wearable Electronics (Adv. Funct. Mater. 26/2016). Advanced Functional Materials, 2016, 26, 4618-4618.	14.9	1
27	Characterizations of biodegradable epoxy-coated cellulose nanofibrils (CNF) thin film for flexible microwave applications. Cellulose, 2016, 23, 1989-1995.	4.9	12
28	High-performance flexible piezoelectric nanogenerators consisting of porous cellulose nanofibril (CNF)/poly(dimethylsiloxane) (PDMS) aerogel films. Nano Energy, 2016, 26, 504-512.	16.0	131
29	Radio-frequency flexible and stretchable electronics (Key note). , 2016, , .		0
30	Highly stretchable and sensitive piezoresistive carbon nanotube/elastomeric triisocyanate-crosslinked polytetrahydrofuran nanocomposites. Journal of Materials Chemistry C, 2016, 4, 460-467.	5.5	26
31	Cavity enhanced 1.5Î¼m LED with silicon as a hole injector. , 2016, , .		0
32	Materials and design considerations for fast flexible and stretchable electronics. , 2015, , .		2
33	High-performance green flexible electronics based on biodegradable cellulose nanofibril paper. Nature Communications, 2015, 6, 7170.	12.8	707
34	High power fast flexible electronics: Transparent RF AlGaN/GaN HEMTs on plastic substrates. , 2015, , .		5