

Zhao Yao

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

526
citations

623734

14
h-index

713466

21
g-index

38
all docs

38
docs citations

38
times ranked

662
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Performance porous MIM-type capacitive humidity sensor realized via inductive coupled plasma and reactive-ion etching. <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 704-714.	7.8	59
2	Ultrafast-response/recovery capacitive humidity sensor based on arc-shaped hollow structure with nanocone arrays for human physiological signals monitoring. <i>Sensors and Actuators B: Chemical</i> , 2021, 334, 129637.	7.8	58
3	Preparation of Ultrasensitive Humidity-Sensing Films by Aerosol Deposition. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 851-863.	8.0	44
4	Effects of starting powder and thermal treatment on the aerosol deposited BaTiO ₃ thin films toward less leakage currents. <i>Nanoscale Research Letters</i> , 2014, 9, 435.	5.7	24
5	Ultra-Wideband Patch Antenna for Sub-6 GHz 5G Communications. , 2019, , .		24
6	Visible Light Driven Hot-Electron Injection by Pd Nanoparticles: Fast Response in Metal-Semiconductor Photodetection. <i>Advanced Optical Materials</i> , 2021, 9, .	7.3	24
7	A high performance UWB MIMO antenna with defected ground structure and U-shaped branches. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2021, 31, e22270.	1.2	24
8	AAO-assisted synthesis of highly ordered, large-scale TiO ₂ nanowire arrays via sputtering and atomic layer deposition. <i>Nanoscale Research Letters</i> , 2015, 10, 166.	5.7	23
9	Fast electrochromic switching of electrospun Cu-doped NiO nanofibers. <i>Scripta Materialia</i> , 2020, 178, 472-476.	5.2	23
10	Fabrication of Au network by low-degree solid state dewetting: Continuous plasmon resonance over visible to infrared region. <i>Acta Materialia</i> , 2020, 188, 599-608.	7.9	21
11	Morphological and optical evolution of metallic oxide/Au nanoparticle hybrid thin film: High absorption and reflectance by plasmonic enhancement. <i>Applied Surface Science</i> , 2019, 495, 143575.	6.1	20
12	A wearable and high-performance capacitive pressure sensor based on a biocompatible PVP nanofiber membrane via electrospinning and UV treatment. <i>Journal of Materials Chemistry C</i> , 2022, 10, 10491-10499.	5.5	18
13	Self-Welding and Low-Temperature Formation of Metal Oxide Nanofiber Networks and its Application to Electronic Devices. <i>IEEE Electron Device Letters</i> , 2020, 41, 62-65.	3.9	17
14	Color filters based on a nanoporous Al-AAO resonator featuring structure tolerant color saturation. <i>Optics Express</i> , 2015, 23, 27474.	3.4	16
15	Vertical and bevel-structured SiC etching techniques incorporating different gas mixture plasmas for various microelectronic applications. <i>Scientific Reports</i> , 2017, 7, 3915.	3.3	16
16	Reusable, Non-Invasive, and Ultrafast Radio Frequency Biosensor Based on Optimized Integrated Passive Device Fabrication Process for Quantitative Detection of Glucose Levels. <i>Sensors</i> , 2020, 20, 1565.	3.8	13
17	Dry etching and residue removal of functional polymer mixed with TiO ₂ microparticles via inductively coupled CF ₄ /O ₂ plasma and ultrasonic-treated acetone for humidity sensor application. <i>RSC Advances</i> , 2016, 6, 41580-41586.	3.6	12
18	A Compact Dual-Mode Dual-Band Bandpass Filter Using Stepped-Impedance Open-Loop Resonators and Center-Loaded Resonators. <i>Microwave and Optical Technology Letters</i> , 2013, 55, 3000-3005.	1.4	11

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19	Enhancement-mode field-effect transistors based on Ti-doped In ₂ O ₃ nanowires fabricated by electrospinning. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 225102.	2.8	9
20	Defined micropatterns of platinum thin films by inductively coupled plasma etching using SF ₆ /Ar/O ₂ mixture gas. <i>Materials Science in Semiconductor Processing</i> , 2014, 27, 228-232.	4.0	8
21	Radio Frequency Detection and Characterization of Water-Ethanol Solution through Spiral-Coupled Passive Micro-Resonator Sensor. <i>Sensors</i> , 2018, 18, 1075.	3.8	8
22	Comparative analysis of barium titanate thin films dry etching using inductively coupled plasmas by different fluorine-based mixture gas. <i>Nanoscale Research Letters</i> , 2014, 9, 530.	5.7	7
23	Room Temperature Fabrication of MIMCAPs via Aerosol Deposition. <i>IEEE Electron Device Letters</i> , 2016, 37, 220-223.	3.9	7
24	Effect of sulfur hexafluoride gas and post-annealing treatment for inductively coupled plasma etched barium titanate thin films. <i>Nanoscale Research Letters</i> , 2014, 9, 496.	5.7	6
25	Solution-Processed High-Performance p-Type Perovskite NdAlO ₃ Thin Films for Transparent Electronics. <i>Advanced Electronic Materials</i> , 2020, 6, 1901110.	5.1	6
26	A Dual-Mode Bandpass Filter with Multiple Controllable Transmission-Zeros Using T-Shaped Stub-Loaded Resonators. <i>Scientific World Journal</i> , The, 2014, 2014, 1-6.	2.1	5
27	Very compact differential transformer-type bandpass filter with mixed coupled topology using integrated passive device technology. <i>Microelectronics Journal</i> , 2015, 46, 1459-1463.	2.0	4
28	Suppression of interface roughness between BaTiO ₃ film and substrate by Si ₃ N ₄ buffer layer regarding aerosol deposition process. <i>Journal of Alloys and Compounds</i> , 2015, 653, 69-76.	5.5	4
29	Enhanced performance of large-area vertical light-emitting diodes treated by laser irradiation. <i>Micro and Nano Letters</i> , 2017, 12, 369-372.	1.3	3
30	Characteristics and mechanisms of aerosol deposition-based barium titanate by sulfur hexafluoride inductively coupled plasma etching. <i>Materials Science in Semiconductor Processing</i> , 2015, 30, 388-392.	4.0	2
31	Investigation of n-ohmic contact of vertical GaN-based light-emitting diodes on graphite substrate with Ag-In bonding. <i>Materials Science in Semiconductor Processing</i> , 2017, 59, 5-9.	4.0	2
32	The development of differential inductors using double air-bridge structure based on integrated passive device technology. <i>Solid-State Electronics</i> , 2017, 131, 9-19.	1.4	2
33	Modelling of double air-bridged structured inductor implemented by a GaAs integrated passive device manufacturing process. <i>Semiconductor Science and Technology</i> , 2017, 32, 055002.	2.0	2
34	Nanoarchitectonics of p-type BiSbTe with improved figure of merit <i>via</i> introducing PbTe nanoparticles. <i>RSC Advances</i> , 2021, 11, 36636-36643.	3.6	2
35	A dual-mode bandpass filter with tuning transmission-zero and harmonic suppression for RFID and WiMax applications. , 2013, , .		1
36	A Compact Dual-Mode Bandpass Filter with High Out-of-Band Suppression Using a Stub-Loaded Resonator Based on the GaAs IPD Process. <i>Electronics (Switzerland)</i> , 2020, 9, 712.	3.1	1

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37	Performance-enhanced vertical LED using laser irradiation treatment to control wafer-level n-GaN protrusion arrays. <i>Materials Science in Semiconductor Processing</i> , 2020, 116, 105158.	4.0	0