

Hanbin

List of Publications by Year in descending order

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32
papers

797
citations

623574

14
h-index

501076

28
g-index

32
all docs

32
docs citations

32
times ranked

1313
citing authors

#	ARTICLE	IF	CITATIONS
1	Printed subthreshold organic transistors operating at high gain and ultralow power. <i>Science</i> , 2019, 363, 719-723.	6.0	208
2	Controlling Surface Termination and Facet Orientation in Cu ₂ O Nanoparticles for High Photocatalytic Activity: A Combined Experimental and Density Functional Theory Study. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8100-8106.	4.0	99
3	All ink-jet printed low-voltage organic field-effect transistors on flexible substrate. <i>Organic Electronics</i> , 2016, 38, 186-192.	1.4	74
4	Ultrathin Multifunctional Graphene-PVDF Layers for Multidimensional Touch Interactivity for Flexible Displays. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18410-18416.	4.0	62
5	An impedance-based integrated biosensor for suspended DNA characterization. <i>Scientific Reports</i> , 2013, 3, 2730.	1.6	46
6	Surface plasmon resonance enhancement of photoluminescence intensity and bioimaging application of gold nanorod@CdSe/ZnS quantum dots. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 22-31.	1.5	25
7	ZnO nanowire array growth on precisely controlled patterns of inkjet-printed zinc acetate at low-temperatures. <i>Nanoscale</i> , 2016, 8, 11760-11765.	2.8	24
8	Trends and recent development of the microelectrode arrays (MEAs). <i>Biosensors and Bioelectronics</i> , 2021, 175, 112854.	5.3	21
9	Cell constant studies of bipolar and tetrapolar electrode systems for impedance measurement. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 1264-1270.	4.0	20
10	Precise control of Cu ₂ O nanostructures and LED-assisted photocatalysis. <i>RSC Advances</i> , 2016, 6, 78181-78186.	1.7	19
11	A Lewis Acid Monopolar Gate Dielectric for All-inkjet-Printed Highly Bias-Stress Stable Organic Transistors. <i>Advanced Electronic Materials</i> , 2017, 3, 1700029.	2.6	19
12	Impedance-based sensor for potassium ions. <i>Analytica Chimica Acta</i> , 2018, 1034, 39-45.	2.6	19
13	Cigarette smoke-induced malignant transformation via STAT3 signalling in pulmonary epithelial cells in a lung-on-a-chip model. <i>Bio-Design and Manufacturing</i> , 2020, 3, 383-395.	3.9	18
14	An Impedance Sensing Platform for Monitoring Heterogeneous Connectivity and Diagnostics in Lab-on-a-Chip Systems. <i>ACS Omega</i> , 2020, 5, 5098-5104.	1.6	17
15	Surface/Interface Carrier-Transport Modulation for Constructing Photon-Alternative Ultraviolet Detectors Based on Self-Bending-Assembled ZnO Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31042-31053.	4.0	15
16	Influence of polarization on contact angle saturation during electrowetting. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	13
17	Dye-Assisted Transformation of Cu ₂ O Nanocrystals to Amorphous Cu _x O Nanoflakes for Enhanced Photocatalytic Performance. <i>ACS Omega</i> , 2018, 3, 1939-1945.	1.6	13
18	A Review of Optical Imaging Technologies for Microfluidics. <i>Micromachines</i> , 2022, 13, 274.	1.4	13

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19	All-in-One Digital Microfluidics System for Molecular Diagnosis with Loop-Mediated Isothermal Amplification. <i>Biosensors</i> , 2022, 12, 324.	2.3	13
20	An Impedance Sensor in Detection of Immunoglobulin G with Interdigitated Electrodes on Flexible Substrate. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4012.	1.3	11
21	Inkjet-printed Ag electrodes on paper for high sensitivity impedance measurements. <i>RSC Advances</i> , 2016, 6, 84547-84552.	1.7	9
22	Microfluidic chip enabled one-step synthesis of biofunctionalized CuInS ₂ /ZnS quantum dots. <i>Lab on A Chip</i> , 2020, 20, 3001-3010.	3.1	9
23	Heterogeneously integrated impedance measuring system with disposable thin-film electrodes. <i>Sensors and Actuators B: Chemical</i> , 2015, 211, 77-82.	4.0	7
24	Indium Silicon Oxide TFT Fully Photolithographically Processed for Circuit Integration. <i>IEEE Journal of the Electron Devices Society</i> , 2020, 8, 1162-1167.	1.2	5
25	Disposable impedance-based immunosensor array with direct-laser writing platform. <i>Analytica Chimica Acta</i> , 2019, 1067, 48-55.	2.6	4
26	A floating top-electrode electrowetting-on-dielectric system. <i>RSC Advances</i> , 2020, 10, 4899-4906.	1.7	4
27	Stability Analysis of All-Inkjet-Printed Organic Thin-Film Transistors. <i>MRS Advances</i> , 2018, 3, 1871-1876.	0.5	3
28	A Parallel Impedance Measurement System for Electrical Impedance Tomography System with Multi - Microcontroller - Unit Architecture. , 2018, , .		3
29	LED-Assisted Degradation of Aromatic Organics Using Cu ₂ O Photocatalysts. <i>MRS Advances</i> , 2017, 2, 3377-3381.	0.5	2
30	A geometrical model of pinch-off in digital microfluidics underpins "one-to-three" droplet generation. <i>Applied Physics Letters</i> , 2022, 120, 121602.	1.5	2
31	Amorphous Silicon Thin Film Transistor Biosensing System. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1530, 1.	0.1	0
32	Transparent and Flexible Oxide Nano-Electronics. , 2018, , .		0