

# Hanbin

## List of Publications by Year in descending order

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Version: 2024-02-01

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	A Review of Optical Imaging Technologies for Microfluidics. <i>Micromachines</i> , 2022, 13, 274.	1.4	13
2	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
3	All-in-One Digital Microfluidics System for Molecular Diagnosis with Loop-Mediated Isothermal Amplification. <i>Biosensors</i> , 2022, 12, 324.	2.3	13
4	Trends and recent development of the microelectrode arrays (MEAs). <i>Biosensors and Bioelectronics</i> , 2021, 175, 112854.	5.3	21
5	Microfluidic chip enabled one-step synthesis of biofunctionalized CuInS <sub>2</sub> /ZnS quantum dots. <i>Lab on A Chip</i> , 2020, 20, 3001-3010.	3.1	9
6	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
7	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
8	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
9	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
10	A floating top-electrode electrowetting-on-dielectric system. <i>RSC Advances</i> , 2020, 10, 4899-4906.	1.7	4
11	Disposable impedance-based immunosensor array with direct-laser writing platform. <i>Analytica Chimica Acta</i> , 2019, 1067, 48-55.	2.6	4
12	Printed subthreshold organic transistors operating at high gain and ultralow power. <i>Science</i> , 2019, 363, 719-723.	6.0	208
13	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
14	Stability Analysis of All-Inkjet-Printed Organic Thin-Film Transistors. <i>MRS Advances</i> , 2018, 3, 1871-1876.	0.5	3
15	Dye-Assisted Transformation of Cu <sub>2</sub> O Nanocrystals to Amorphous Cu <sub>x</sub> O Nanoflakes for Enhanced Photocatalytic Performance. <i>ACS Omega</i> , 2018, 3, 1939-1945.	1.6	13
16	Transparent and Flexible Oxide Nano-Electronics. , 2018, , .		0
17	A Parallel Impedance Measurement System for Electrical Impedance Tomography System with Multi - Microcontroller - Unit Architecture. , 2018, , .		3
18	Impedance-based sensor for potassium ions. <i>Analytica Chimica Acta</i> , 2018, 1034, 39-45.	2.6	19

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19	Controlling Surface Termination and Facet Orientation in Cu <sub>2</sub> O Nanoparticles for High Photocatalytic Activity: A Combined Experimental and Density Functional Theory Study. ACS Applied Materials & Interfaces, 2017, 9, 8100-8106.	4.0	99
20	Ultrathin Multifunctional Graphene-PVDF Layers for Multidimensional Touch Interactivity for Flexible Displays. ACS Applied Materials & Interfaces, 2017, 9, 18410-18416.	4.0	62
21	A Lewis Acid Monopolar Gate Dielectric for All-Inkjet-Printed Highly Bias-Stress Stable Organic Transistors. Advanced Electronic Materials, 2017, 3, 1700029.	2.6	19
22	LED-Assisted Degradation of Aromatic Organics Using Cu <sub>2</sub> O Photocatalysts. MRS Advances, 2017, 2, 3377-3381.	0.5	2
23	Surface/Interface Carrier-Transport Modulation for Constructing Photon-Alternative Ultraviolet Detectors Based on Self-Bending-Assembled ZnO Nanowires. ACS Applied Materials & Interfaces, 2017, 9, 31042-31053.	4.0	15
24	Influence of polarization on contact angle saturation during electrowetting. Applied Physics Letters, 2016, 109, .	1.5	13
25	ZnO nanowire array growth on precisely controlled patterns of inkjet-printed zinc acetate at low-temperatures. Nanoscale, 2016, 8, 11760-11765.	2.8	24
26	Inkjet-printed Ag electrodes on paper for high sensitivity impedance measurements. RSC Advances, 2016, 6, 84547-84552.	1.7	9
27	Precise control of Cu <sub>2</sub> O nanostructures and LED-assisted photocatalysis. RSC Advances, 2016, 6, 78181-78186.	1.7	19
28	All ink-jet printed low-voltage organic field-effect transistors on flexible substrate. Organic Electronics, 2016, 38, 186-192.	1.4	74
29	Heterogeneously integrated impedance measuring system with disposable thin-film electrodes. Sensors and Actuators B: Chemical, 2015, 211, 77-82.	4.0	7
30	Cell constant studies of bipolar and tetrapolar electrode systems for impedance measurement. Sensors and Actuators B: Chemical, 2015, 221, 1264-1270.	4.0	20
31	An impedance-based integrated biosensor for suspended DNA characterization. Scientific Reports, 2013, 3, 2730.	1.6	46
32	Amorphous Silicon Thin Film Transistor Biosensing System. Materials Research Society Symposia Proceedings, 2013, 1530, 1.	0.1	0