

Yicheng Lu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69

papers

2,522

citations

23

h-index

49

g-index

74

ext. papers

2,758

ext. citations

3.8

avg, IF

4.92

L-index

#	Paper	IF	Citations
69	MgZnO Dual Gate Thin Film Transistor for the Sensitive Determination of Modified Folic Acid. <i>IEEE Sensors Journal</i> , 2021 , 21, 7242-7249	4	1
68	Negative Capacitance MgZnO-Channel Thin-Film Transistor With Ferroelectric NiMgZnO in the Gate Stack. <i>IEEE Electron Device Letters</i> , 2021 , 42, 355-358	4.4	2
67	MgZnO-Based Negative Capacitance Transparent Thin-Film Transistor Built on Glass. <i>IEEE Journal of the Electron Devices Society</i> , 2021 , 9, 798-803	2.3	1
66	Magnesium Zinc Oxide Nanostructure-Modified Multifunctional Sensors for Full-Scale Dynamic Monitoring of <i>Pseudomonas aeruginosa</i> Biofilm Formation. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 115026	2	3
65	Early stage detection of <i>Staphylococcus epidermidis</i> biofilm formation using MgZnO dual-gate TFT biosensor. <i>Biosensors and Bioelectronics</i> , 2020 , 151, 111993	11.8	12
64	Rapid and dynamic detection of antimicrobial treatment response using spectral amplitude modulation in MZO nanostructure-modified quartz crystal microbalance. <i>Journal of Microbiological Methods</i> , 2020 , 178, 106071	2.8	3
63	MgZnO Thin Film Transistors on Glass With Blocking Voltage of 900 V. <i>IEEE Electron Device Letters</i> , 2020 , 41, 1352-1355	4.4	8
62	ZnO flexible high voltage thin film transistors for power management in wearable electronics. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018 , 36, 050601	1.3	1
61	Tunable surface acoustic wave device using semiconducting MgZnO and piezoelectric NiZnO dual-layer structure on glass. <i>Smart Materials and Structures</i> , 2018 , 27, 085025	3.4	8
60	Combined control of the cation and anion to make ZnSnON thin films for visible-light phototransistors with high responsivity. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6480-6487	7.1	7
59	Dual-functional crystalline BeO layer in enhancement-mode ZnO/Si thin film transistors. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017 , 11, 1600443	2.5	3
58	Functionalization of MgZnO nanorod films and characterization by FTIR microscopic imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 6379-6386	4.4	3
57	Magnesium Zinc Oxide Nanostructure-modified Quartz Crystal Microbalance for Dynamic Monitoring of Antibiotic Effects and Antimicrobial Resistance. <i>Procedia Technology</i> , 2017 , 27, 46-47		2
56	Dynamic monitoring of antimicrobial resistance using magnesium zinc oxide nanostructure-modified quartz crystal microbalance. <i>Biosensors and Bioelectronics</i> , 2017 , 93, 189-197	11.8	11
55	MgZnO High Voltage Thin Film Transistors on Glass for Inverters in Building Integrated Photovoltaics. <i>Scientific Reports</i> , 2016 , 6, 34169	4.9	21
54	The control of surface texture for planar CH ₃ NH ₃ PbI ₃ /Clx film and its effect on photovoltaic performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 9384-9390	2.1	3
53	X-ray DC response of a simple photoconductive detector based on CdZnTe film. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 645-650	2.1	9

52	Microwave TFTs Made of MOCVD ZnO With ALD Al ₂ O ₃ Gate Dielectric. <i>IEEE Journal of the Electron Devices Society</i> , 2016 , 4, 55-59	2.3	2
51	Control of Ambipolar Transport in SnO Thin-Film Transistors by Back-Channel Surface Passivation for High Performance Complementary-like Inverters. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 17023-31	9.5	63
50	Mg x Zn _{1-x} O Thin-Film Transistor-Based UV Photodetector with Enhanced Photoresponse. <i>Journal of Electronic Materials</i> , 2015 , 44, 3471-3476	1.9	6
49	. <i>IEEE Electron Device Letters</i> , 2015 , 36, 914-916	4.4	25
48	Enhancement-mode ZnO/Mg _{0.5} Zn _{0.5} O HFET on Si. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 255101	3	11
47	Annealing Effects of Ti/Au Contact on n-MgZnO/p-Si Ultraviolet-B Photodetectors. <i>IEEE Transactions on Electron Devices</i> , 2013 , 60, 3474-3477	2.9	36
46	Vertically integrated ZnO-Based 1D1R structure for resistive switching. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 145101	3	26
45	Functionalization of nanostructured ZnO films by copper-free click reaction. <i>Langmuir</i> , 2013 , 29, 7768-754	4	13
44	ZnO nanostructure-modified QCM for dynamic monitoring of cell adhesion and proliferation. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 84-9	11.8	22
43	Effects of Mg composition on open circuit voltage of Cu ₂ O/MgxZn _{1-x} O heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 96, 292-297	6.4	57
42	Morphological control of MgxZn _{1-x} O layers grown on Ga:ZnO/glass substrates for photovoltaics. <i>Journal of Crystal Growth</i> , 2012 , 352, 190-193	1.6	1
41	Morphology effects on the biofunctionalization of nanostructured ZnO. <i>Langmuir</i> , 2012 , 28, 7947-51	4	34
40	Multifunctional ZnO Nanostructure-Based Devices. <i>Springer Series in Materials Science</i> , 2012 , 361-411	0.9	
39	FeZnO-Based Resistive Switching Devices. <i>Journal of Electronic Materials</i> , 2012 , 41, 2880-2885	1.9	7
38	Reduction of persistent photoconductivity in ZnO thin film transistor-based UV photodetector. <i>Applied Physics Letters</i> , 2012 , 101, 031118	3.4	63
37	Label-Free Polypeptide-Based Enzyme Detection Using a Graphene-Nanoparticle Hybrid Sensor (Adv. Mater. 45/2012). <i>Advanced Materials</i> , 2012 , 24, 6080-6080	24	
36	ZnO thin film transistor immunosensor with high sensitivity and selectivity. <i>Applied Physics Letters</i> , 2011 , 98, 173702	3.4	65
35	ZnO Schottky barriers and Ohmic contacts. <i>Journal of Applied Physics</i> , 2011 , 109, 121301	2.5	518

34	ZnO-Based Ultraviolet Detectors 2011 , 285-329		5
33	Effects of Mg on the electrical characteristics and thermal stability of Mg _x Zn _{1-x} O thin film transistors. <i>Applied Physics Letters</i> , 2011 , 98, 123511	3-4	93
32	Gel probe photocurrent measurement of cuprous oxide films. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 1741-1746	6.4	5
31	Dye-Sensitized Solar Cells Combining ZnO Nanotip Arrays and Nonliquid Gel Electrolytes. <i>Journal of Electronic Materials</i> , 2009 , 38, 1612-1617	1.9	5
30	Multifunctional ZnO-Based Thin-Film Bulk Acoustic Resonator for Biosensors. <i>Journal of Electronic Materials</i> , 2009 , 38, 1605-1611	1.9	36
29	Stepwise functionalization of ZnO nanotips with DNA. <i>Langmuir</i> , 2009 , 25, 2107-13	4	48
28	A ZnO Nanostructure-Based Quartz Crystal Microbalance Device for Biochemical Sensing. <i>IEEE Sensors Journal</i> , 2009 , 9, 1302-1307	4	31
27	Dye-sensitized solar cells using ZnO nanotips and Ga-doped ZnO films. <i>Semiconductor Science and Technology</i> , 2008 , 23, 045004	1.8	73
26	Surface and Interface Properties of Metal-Organic Chemical Vapor Deposition Grown a-Plane Mg _x Zn _{1-x} O (0 ≤ x ≤ 0.3) Films. <i>Journal of Electronic Materials</i> , 2007 , 36, 446-451	1.9	9
25	Hybrid deposition of piezoelectric ((11̄20)) Mg _x Zn _{1-x} O (0 ≤ x ≤ 0.3) on ((01̄12)) R-sapphire substrates using RF sputtering and MOCVD. <i>Journal of Electronic Materials</i> , 2006 , 35, 1306-1310	1.9	7
24	Dye sensitized solar cells using well-aligned zinc oxide nanotip arrays. <i>Applied Physics Letters</i> , 2006 , 89, 253513	3-4	150
23	Binding studies of molecular linkers to ZnO and MgZnO nanotip films. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 6506-15	3-4	111
22	DNA immobilization and SAW response in ZnO nanotips grown on LiNbO ₃ /sub 3/ substrates. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006 , 53, 786-792	3.2	13
21	Fast electron transport in metal organic vapor deposition grown dye-sensitized ZnO nanorod solar cells. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 16159-61	3-4	390
20	ZnO Piezoelectric Devices 2006 , 443-489		10
19	Voltage tunable surface acoustic wave phase shifter using semiconducting/piezoelectric ZnO dual layers grown on r-Al ₂ O ₃ . <i>Applied Physics Letters</i> , 2006 , 89, 103513	3-4	24
18	Nonlinearity in ESD robust InGaAs p-i-n photodiode. <i>IEEE Transactions on Electron Devices</i> , 2005 , 52, 1508-1513	8.9	5
17	A new ESD protection structure for high-speed GaAs RF ICs. <i>IEEE Electron Device Letters</i> , 2005 , 26, 133-135	1.4	6

16	Ion-beam-induced sharpening of ZnO nanotips. <i>Applied Physics Letters</i> , 2004 , 85, 1247-1249	3.4	4
15	Robust PIN photodiode with a guard ring protection structure. <i>IEEE Transactions on Electron Devices</i> , 2004 , 51, 833-838	2.9	7
14	Surface acoustic wave ultraviolet photodetectors using epitaxial ZnO multilayers grown on r-plane sapphire. <i>Applied Physics Letters</i> , 2004 , 85, 3702-3704	3.4	129
13	. <i>IEEE Nanotechnology Magazine</i> , 2003 , 2, 50-54	2.6	97
12	Comparative studies of p-type InP layers formed by Zn3As2 and Zn3P2 diffusion. <i>Journal of Electronic Materials</i> , 2003 , 32, 932-934	1.9	5
11	. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2003 , 50, 537-543	3.2	33
10	High-power and low-divergence 980-nm InGaAs-GaAsP-AlGaAs strain-compensated quantum-well diode laser grown by MOCVD. <i>IEEE Photonics Technology Letters</i> , 2003 , 15, 1507-1509	2.2	9
9	Analysis of SAW properties of epitaxial ZnO films grown on R-Al2O3 substrates. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2001 , 48, 1389-94	3.2	37
8	Spiral transmission-line baluns for RF multichip module packages. <i>IEEE Transactions on Advanced Packaging</i> , 1999 , 22, 332-336		10
7	Design and characterization of multilayer spiral transmission-line baluns. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1999 , 47, 1841-1847	4.1	50
6	A silicon monolithic spiral transmission line balun with symmetrical design. <i>IEEE Electron Device Letters</i> , 1999 , 20, 182-184	4.4	20
5	A finite plate technique for the determination of piezoelectric material constants. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1996 , 43, 280-284	3.2	6
4	High Q-factor inductors integrated on MCM Si substrates. <i>IEEE Transactions on Advanced Packaging</i> , 1996 , 19, 635-643		20
3	Highly compact optical waveguides with a novel pedestal geometry. <i>IEEE Photonics Technology Letters</i> , 1995 , 7, 526-528	2.2	15
2	Investigation of Efficiency Improvement on Silicon Solar Cells Due to Porous Layers. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 358, 593		6
1	Studies on Mg/sub x/Zn/sub 1-x/O thin film resonator for mass sensor application		2