

Kou Chen Liu

List of Publications by Year in descending order

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31
papers

786
citations

567281

15
h-index

501196

28
g-index

31
all docs

31
docs citations

31
times ranked

1243
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlating the Density of Trap-States and the Field-Effect Performance in Metal-Oxide Thin-Film Transistors With High- κ Gate Dielectrics via a Trap-Limited Conduction Method. IEEE Nanotechnology Magazine, 2021, 20, 321-331.	2.0	3
2	Feasibility of using bimetallic Au-Ag nanoparticles for organic light-emitting devices. Nanoscale, 2021, 13, 12164-12176.	5.6	2
3	Gold nanoparticle-assisted plasmonic enhancement for DNA detection on a graphene-based portable surface plasmon resonance sensor. Nanotechnology, 2021, 32, 095503.	2.6	22
4	Enhanced Plasmonic Biosensor Utilizing Paired Antibody and Label-Free Fe ₃ O ₄ Nanoparticles for Highly Sensitive and Selective Detection of Parkinson's α -Synuclein in Serum. Biosensors, 2021, 11, 402.	4.7	12
5	Assessing Plasma Levels of α -Synuclein and Neurofilament Light Chain by Different Blood Preparation Methods. Frontiers in Aging Neuroscience, 2021, 13, 759182.	3.4	3
6	Designing the Topology of a Unipolar Pulsed-DC Power Supply using the Open-source Scilab/Xcos Software for a Low-cost Plasma Etcher. Solid State Electronics Letters, 2020, 2, 35-43.	1.0	1
7	Role of Depolarization Factors in the Evolution of a Dipolar Plasmonic Spectral Line in the Far- and Near-Field Regimes. Journal of Physical Chemistry C, 2020, 124, 3250-3259.	3.1	11
8	Nano-film aluminum-gold for ultra-high dynamic-range surface plasmon resonance chemical sensor. Frontiers of Optoelectronics, 2019, 12, 286-295.	3.7	6
9	Rapid screening of Mycobacterium tuberculosis complex (MTBC) in clinical samples by a modular portable biosensor. Sensors and Actuators B: Chemical, 2018, 254, 742-748.	7.8	34
10	Surface Plasmon Resonance Optical Sensor: A Review on Light Source Technology. Biosensors, 2018, 8, 80.	4.7	271
11	Rapid detection and quantification of Enterovirus 71 by a portable surface plasmon resonance biosensor. Biosensors and Bioelectronics, 2017, 92, 186-191.	10.1	52
12	Multi-metallic sensing layers for surface plasmon resonance sensor. , 2017, , .		2
13	Graphene-based Portable SPR Sensor for the Detection of Mycobacterium tuberculosis DNA Strain. Procedia Engineering, 2016, 168, 541-545.	1.2	36
14	Performance of white organic light-emitting diode for portable optical biosensor. Sensors and Actuators B: Chemical, 2016, 222, 1058-1065.	7.8	25
15	Oxygen pressure induced the electrical properties of amorphous LaAlO ₃ dielectric deposited by pulsed laser deposition at room temperature. , 2015, , .		1
16	A Turbidity Test Based Centrifugal Microfluidics Diagnostic System for Simultaneous Detection of HBV, HCV, and CMV. Advances in Materials Science and Engineering, 2015, 2015, 1-8.	1.8	5
17	The role of oxygen plasma in the formation of oxygen defects in HfO _x films deposited at room temperature. Journal of Materials Chemistry C, 2015, 3, 4104-4114.	5.5	18
18	Effect of pulsed off-times on the reactive HiPIMS preparation of zirconia thin films. Vacuum, 2015, 118, 38-42.	3.5	10

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19	Improving Electrical Performances of In_2O_3 -Type SnO Thin-Film Transistors Using Double-Gated Structure. IEEE Electron Device Letters, 2015, 36, 1053-1055.	3.9	29
20	Graphene oxide-based SPR biosensor chip for immunoassay applications. Nanoscale Research Letters, 2014, 9, 445.	5.7	63
21	Optimization of electrical properties of Al/LaAlO ₃ /indium tin oxide capacitor by adjusting oxygen pressures in pulsed laser deposition and applying post-deposition annealing at low temperatures. Thin Solid Films, 2014, 555, 153-158.	1.8	2
22	Structural and optical properties of zirconia thin films deposited by reactive high-power impulse magnetron sputtering. Thin Solid Films, 2014, 570, 404-411.	1.8	24
23	Room temperature epitaxial growth of (001) CeO ₂ on (001) LaAlO ₃ by pulsed laser deposition. Crystal Research and Technology, 2013, 48, 308-313.	1.3	10
24	Gold nanoparticles enhanced fluorescence in organic lighting emission diodes. , 2012, , .		0
25	Resistive switching characteristics of multilayered (HfO ₂ /Al ₂ O ₃) _n thin film. Thin Solid Films, 2012, 520, 3415-3418.	1.8	8
26	Room temperature fabricated transparent amorphous indium zinc oxide based thin film transistor using high- κ HfO ₂ as gate insulator. Thin Solid Films, 2012, 520, 3079-3083.	1.8	29
27	Defect passivation by O ₂ plasma treatment on high-k dielectric HfO ₂ films at room temperature. Thin Solid Films, 2011, 519, 5110-5113.	1.8	17
28	The resistive switching characteristics of a Ti/Gd ₂ O ₃ /Pt RRAM device. Microelectronics Reliability, 2010, 50, 670-673.	1.7	54
29	Investigation on the abnormal resistive switching induced by ultraviolet light exposure based on HfO _x film. Microelectronics Reliability, 2010, 50, 1931-1934.	1.7	16
30	Effect of ultraviolet light exposure on a HfO _x RRAM device. Thin Solid Films, 2010, 518, 7460-7463.	1.8	18
31	HfO _x Thin Films for Resistive Memory Device by Use of Atomic Layer Deposition. Materials Research Society Symposia Proceedings, 2007, 997, 1.	0.1	2