Tri-Rung Yew

List of Publications by Year
in descending order

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51 papers	811 citations	471509 17 h-index	501196 28 g-index
51 all docs	51 docs citations	51 times ranked	1427 citing authors

#	Article	IF	Citations
1	Novel microchip for in situ TEM imaging of living organisms and bio-reactions in aqueous conditions. Lab on A Chip, 2008, 8, 1915.	6.0	95
2	ZnO-based one diode-one resistor device structure for crossbar memory applications. Applied Physics Letters, 2012, 100, 153503.	3.3	67
3	A quantum dot-based optical immunosensor for human serum albumin detection. Biosensors and Bioelectronics, 2012, 34, 286-290.	10.1	62
4	Improving the adhesion of carbon nanotubes to a substrate using microwave treatment. Carbon, 2010, 48, 805-812.	10.3	51
5	Solution-Processed Naphthalene Diimide Derivatives as n-Type Semiconductor Materials. Journal of Physical Chemistry C, 2008, 112, 1694-1699.	3.1	45
6	Electrical impedimetric biosensors for liver function detection. Biosensors and Bioelectronics, 2011, 28, 368-372.	10.1	41
7	A cone-shaped 3D carbon nanotube probe for neural recording. Biosensors and Bioelectronics, 2010, 26, 220-227.	10.1	39
8	Bacteria detection utilizing electrical conductivity. Biosensors and Bioelectronics, 2008, 23, 1856-1861.	10.1	38
9	Flexible UVâ€Ozoneâ€Modified Carbon Nanotube Electrodes for Neuronal Recording. Advanced Materials, 2010, 22, 2177-2181.	21.0	34
10	A Sensitive Visible Light Photodetector Using Cobalt-Doped Zinc Ferrite Oxide Thin Films. ACS Applied Materials & Interfaces, 2021, 13, 6411-6420.	8.0	29
11	Tunable band gaps of Co_{3â^'x}Cu_xO₄ nanorods with various Cu doping concentrations. RSC Advances, 2014, 4, 20053-20057.	3.6	26
12	Investigation on the Voltage Hysteresis of Mn₃O₄ for Lithium-Ion Battery Applications. ACS Applied Materials & Interfaces, 2021, 13, 570-579.	8.0	26
13	Quantitative Characterization of Nanoparticles in Blood by Transmission Electron Microscopy with a Window-Type Microchip Nanopipet. Analytical Chemistry, 2012, 84, 6312-6316.	6.5	24
14	Interfacing Neurons both Extracellularly and Intracellularly Using Carbonâ^'Nanotube Probes with Long-Term Endurance. Langmuir, 2009, 25, 7718-7724.	3.5	22
15	The use of Ga16Sb84 alloy for electronic phase-change memory. Scripta Materialia, 2011, 64, 801-804.	5.2	20
16	Solution-processed all-oxide nanostructures for heterojunction solar cells. Journal of Materials Chemistry, 2011, 21, 17646.	6.7	19
17	Electron beam manipulation of gold nanoparticles external to the beam. RSC Advances, 2014, 4, 31652.	3.6	19
18	Phase transformation in Mgâ€“Sb thin films. Thin Solid Films, 2010, 518, 7403-7406.	1.8	16

#	Article	IF	Citations
19	Crystallization behaviors of an ultra-thin Gaâ€“Sb film. CrystEngComm, 2011, 13, 5642.	2.6	14
20	Phase stability, bonding and electrical conduction of amorphous carbon-added Sb films. Scripta Materialia, 2011, 65, 950-953.	5.2	14
21	Effect of Different Electrolytes on MnO₂ Anodes in Lithium-Ion Batteries. Journal of Physical Chemistry C, 2021, 125, 1221-1233.	3.1	13
22	Direct-growth carbon nanotubes on 3D structural microelectrodes for electrophysiological recording. Analyst, The, 2016, 141, 279-284.	3.5	12
23	Growth of self-aligned carbon nanotube for use as a field-effect transistor using cobalt silicide as a catalyst. Carbon, 2007, 45, 1679-1685.	10.3	11
24	Non-stoichiometric W₁₈O_{49â^'x}S_xnanowires for wide spectrum photosensors with high internal gain. Nanoscale, 2015, 7, 901-907.	5.6	11
25	Carbon nanotubes for highly sensitive colorimetric immunoassay biosensor. Journal of Materials Chemistry B, 2013, 1, 5389.	5.8	10
26	A Solution-Processed Air-Stable Perylene Diimide Derivative for N-type Organic Thin Film Transistors. ChemPhysChem, 2011, 12, 871-877.	2.1	8
27	Cobalt Tungsten Oxide Thin Films Prepared by RFâ€Sputter for Photosensor. Advanced Materials Interfaces, 2017, 4, 1601165.	3.7	7
28	Novel Cuâ€“Mgâ€“Niâ€“Znâ€“Mn oxide thin film electrodes for NIR photodetector applications. Journal of Materials Chemistry C, 2021, 9, 4961-4970.	5.5	6
29	Polycrystalline ZnO Mott-barrier diodes. Applied Physics Letters, 2012, 101, 173509.	3.3	5
30	Tin-manganese-nickel oxide thin films prepared by thermal evaporation for photosensor applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 268, 115126.	3.5	5
31	Direct-Writing of Cu Nano-Patterns with an Electron Beam. Microscopy and Microanalysis, 2015, 21, 1639-1643.	0.4	4
32	Manganese Copper Ferrite Thin Films for Visibleâ€“Nearâ€Infrared Region Photodetector Applications. Physica Status Solidi - Rapid Research Letters, 2022, 16, .	2.4	4
33	Surface Cleaning and Passivation for the Growth of Si/Oxide/Si Structures. Materials Research Society Symposia Proceedings, 1992, 259, 137.	0.1	3
34	A 3D-CNT micro-electrode array for zebrafish ECG study including directionality measurement and drug test. Biocybernetics and Biomedical Engineering, 2020, 40, 701-708.	5.9	3
35	In-situ monitoring the effect of acoustic vibration in the form of music on the motility of Escherichia coli. Applied Acoustics, 2021, 172, 107620.	3.3	3
36	Stable water layers on solid surfaces. Physical Chemistry Chemical Physics, 2016, 18, 5905-5909.	2.8	2

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37	Photoactive Copper-Doped Zinc Stannate Thin Films for Ultravioletâ€“Visible Light Photodetector. Journal of Electronic Materials, 2022, 51, 4884-4895.	2.2	2
38	Mechanism and Equivalent Circuit Model of Multielement Metal-Oxide Thin-Film Photodetectors. ACS Applied Electronic Materials, 2022, 4, 424-431.	4.3	1
39	Material Characterization of Low-Temperature Silicon Epitaxial Growth on Patterned Oxidized Wafers by ULPCVD From SiH4/SiF4/H2. Materials Research Society Symposia Proceedings, 1990, 202, 389.	0.1	0
40	Structural Defects of Silicon Epitaxy and Epi/Substrate Interface Related to Improper In-Situ Surface Cleaning at Low Temperatures. Materials Research Society Symposia Proceedings, 1990, 202, 401.	0.1	0
41	Low Temperature Silicon Epitaxial Growth by Plasma Enhanced Chemical Vapor Deposition from SiH4/He/H2. Materials Research Society Symposia Proceedings, 1991, 236, 349.	0.1	0
42	Low Temperature Silicon Epitaxy Grown by Electron-Beam Evaporation in an Ultra-High Vacuum System. Materials Research Society Symposia Proceedings, 1991, 237, 555.	0.1	0
43	LOW-Temperature Epitaxial Growth of GaAs on Si Substrates by MBE. Materials Research Society Symposia Proceedings, 1992, 263, 125.	0.1	0
44	Novel Sulfur Treatment of SiO2 Surface for Poly Silicon Growth on SiO2/Si Structure. Materials Research Society Symposia Proceedings, 1993, 315, 125.	0.1	0
45	Very Low Temperature Deposition of Polycrystalline Silicon Films with Micro-Meter-Order Grains on SiO2. Materials Research Society Symposia Proceedings, 1994, 355, 581.	0.1	0
46	Microcrystalline Î²-SiC Growth on Si by ECR-CVD at 500Â°C. Materials Research Society Symposia Proceedings, 1994, 358, 799.	0.1	0
47	Polycrystalline Î²-SiC Film Growth on Si by ECR-CVD at 178 - 500Â°C. Materials Research Society Symposia Proceedings, 1995, 403, 271.	0.1	0
48	Diagnostic Techniques For Polycrystalline Thin Film Growth. Materials Research Society Symposia Proceedings, 1995, 406, 157.	0.1	0
49	Crystallization kinetics of amorphous Ga-Sb films extended for phase-change memory. , 2010, , .		0
50	Low Resistivity Tin-Doped Copper Nanowires. IEEE Electron Device Letters, 2013, 34, 529-531.	3.9	0
51	Cu 0.78 Sn 0.12 Mn 0.1 O x Thin Films as a Photocatalytic Material under Visible Light. ChemistrySelect, 2019, 4, 9844-9848.	1.5	0