Pai-Chun Chang

List of Publications by Year
in descending order

28	3,296	331538 21	526166 27
papers	citations	h-index	g-index

29	29	29	4688
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	ZnO nanowire field-effect transistor and oxygen sensing property. Applied Physics Letters, 2004, 85, 5923-5925.	1.5	766
2	Quasi-one-dimensional metal oxide materialsâ€"Synthesis, properties and applications. Materials Science and Engineering Reports, 2006, 52, 49-91.	14.8	526
3	ZnO Nanowires Synthesized by Vapor Trapping CVD Method. Chemistry of Materials, 2004, 16, 5133-5137.	3.2	340
4	Photoluminescence and polarized photodetection of single ZnO nanowires. Applied Physics Letters, 2004, 85, 6128-6130.	1.5	330
5	High-performance ZnO nanowire field effect transistors. Applied Physics Letters, 2006, 89, 133113.	1.5	223
6	Î²-Ga2O3 nanowires: Synthesis, characterization, and p-channel field-effect transistor. Applied Physics Letters, 2005, 87, 222102.	1.5	118
7	Finite size effect in ZnO nanowires. Applied Physics Letters, 2007, 90, 113101.	1.5	115
8	Electrical and photoconductive properties of vertical ZnO nanowires in high density arrays. Applied Physics Letters, 2006, 89, 213110.	1.5	114
9	Flexible photovoltaic technologies. Journal of Materials Chemistry C, 2014, 2, 1233.	2.7	106
10	Applications of Tunable TiO₂ Nanotubes as Nanotemplate and Photovoltaic Device. Chemistry of Materials, 2010, 22, 5707-5711.	3.2	74
11	Prototype of a scalable coreâ€"shell Cu2O/TiO2 solar cell. Chemical Physics Letters, 2011, 501, 446-450.	1.2	71
12	Shape Anisotropy and Magnetization Modulation in Hexagonal Cobalt Nanowires. Advanced Functional Materials, 2008, 18, 1573-1578.	7.8	68
13	High performance thin film solar cells on plastic substrates with nanostructure-enhanced flexibility. Nano Energy, 2016, 22, 539-547.	8.2	66
14	Optical size effects in ultrathin ZnO nanowires. Nanotechnology, 2007, 18, 435701.	1.3	57
15	ZnO Nanowire Field-Effect Transistors. IEEE Transactions on Electron Devices, 2008, 55, 2977-2987.	1.6	55
16	3D periodic multiscale TiO₂architecture: a platform decorated with graphene quantum dots for enhanced photoelectrochemical water splitting. Nanotechnology, 2016, 27, 115401.	1.3	52
17	Temperature dependent conduction and UV induced metal-to-insulator transition in ZnO nanowires. Applied Physics Letters, 2008, 92, 212113.	1.5	49
18	Flexible Dye-Sensitized Solar Cell Based on Vertical ZnO Nanowire Arrays. Nanoscale Research Letters, 2011, 6, 38.	3.1	38

#	Article	IF	Citations
19	Coupled optical and electrical modeling of thin-film amorphous silicon solar cells based on nanodent plasmonic substrates. Nano Energy, 2014, 8, 141-149.	8.2	24
20	Coreâ€“shell CdTeâ€“TiO2 nanostructured solar cell. Journal of Materials Chemistry, 2012, 22, 10441.	6.7	23
21	Structural and optical verification of residual strain effect in single crystalline CdTe nanowires. Nano Research, 2014, 7, 228-235.	5.8	23
22	Flexible Symmetric Supercapacitors Based on TiO$_2$ and Carbon Nanotubes. IEEE Nanotechnology Magazine, 2011, 10, 706-709.	1.1	21
23	Vertically Aligned Antimony Nanowires as Solid-State pH Sensors. ChemPhysChem, 2007, 8, 57-61.	1.0	13
24	Quantum transport in indium nitride nanowires. Physical Review B, 2011, 83, .	1.1	12
25	Core-shell structured Si/ZnO photovoltaics. Materials Letters, 2015, 140, 59-63.	1.3	9
26	Electrical and optical properties of ZnO nanowires. , 2004, , .		1
27	Characterization ZnO Nanowires Synthesized by Vapor Trapping CVD Method. Microscopy and Microanalysis, 2004, 10, 390-391.	0.2	1
28	Nanoscale antimony pH probe. , 2006, , .		0