Pai-Chun Chang

List of Publications by Year
in descending order

28 papers	3,296 citations	331670 21 h-index	526287 27 g-index
29 all docs	29 docs citations	29 times ranked	4688 citing authors

#	Article	IF	Citations
1	3D periodic multiscale TiO₂architecture: a platform decorated with graphene quantum dots for enhanced photoelectrochemical water splitting. Nanotechnology, 2016, 27, 115401.	2.6	52
2	High performance thin film solar cells on plastic substrates with nanostructure-enhanced flexibility. Nano Energy, 2016, 22, 539-547.	16.0	66
3	Core-shell structured Si/ZnO photovoltaics. Materials Letters, 2015, 140, 59-63.	2.6	9
4	Coupled optical and electrical modeling of thin-film amorphous silicon solar cells based on nanodent plasmonic substrates. Nano Energy, 2014, 8, 141-149.	16.0	24
5	Structural and optical verification of residual strain effect in single crystalline CdTe nanowires. Nano Research, 2014, 7, 228-235.	10.4	23
6	Flexible photovoltaic technologies. Journal of Materials Chemistry C, 2014, 2, 1233.	5.5	106
7	Coreâ€“shell CdTeâ€“TiO2 nanostructured solar cell. Journal of Materials Chemistry, 2012, 22, 10441.	6.7	23
8	Flexible Dye-Sensitized Solar Cell Based on Vertical ZnO Nanowire Arrays. Nanoscale Research Letters, 2011, 6, 38.	5.7	38
9	Quantum transport in indium nitride nanowires. Physical Review B, 2011, 83, .	3.2	12
10	Flexible Symmetric Supercapacitors Based on TiO$_2$ and Carbon Nanotubes. IEEE Nanotechnology Magazine, 2011, 10, 706-709.	2.0	21
11	Prototype of a scalable coreâ€“shell Cu2O/TiO2 solar cell. Chemical Physics Letters, 2011, 501, 446-450.	2.6	71
12	Applications of Tunable TiO₂ Nanotubes as Nanotemplate and Photovoltaic Device. Chemistry of Materials, 2010, 22, 5707-5711.	6.7	74
13	Shape Anisotropy and Magnetization Modulation in Hexagonal Cobalt Nanowires. Advanced Functional Materials, 2008, 18, 1573-1578.	14.9	68
14	ZnO Nanowire Field-Effect Transistors. IEEE Transactions on Electron Devices, 2008, 55, 2977-2987.	3.0	55
15	Temperature dependent conduction and UV induced metal-to-insulator transition in ZnO nanowires. Applied Physics Letters, 2008, 92, 212113.	3.3	49
16	Finite size effect in ZnO nanowires. Applied Physics Letters, 2007, 90, 113101.	3.3	115
17	Optical size effects in ultrathin ZnO nanowires. Nanotechnology, 2007, 18, 435701.	2.6	57
18	Vertically Aligned Antimony Nanowires as Solid-State pH Sensors. ChemPhysChem, 2007, 8, 57-61.	2.1	13

#	Article	IF	Citations
19	High-performance ZnO nanowire field effect transistors. Applied Physics Letters, 2006, 89, 133113.	3.3	223
20	Electrical and photoconductive properties of vertical ZnO nanowires in high density arrays. Applied Physics Letters, 2006, 89, 213110.	3.3	114
21	Nanoscale antimony pH probe. , 2006, , .		0
22	Quasi-one-dimensional metal oxide materialsâ€"Synthesis, properties and applications. Materials Science and Engineering Reports, 2006, 52, 49-91.	31.8	526
23	Î²-Ga2O3 nanowires: Synthesis, characterization, and p-channel field-effect transistor. Applied Physics Letters, 2005, 87, 222102.	3.3	118
24	Electrical and optical properties of ZnO nanowires. , 2004, , .		1
25	Photoluminescence and polarized photodetection of single ZnO nanowires. Applied Physics Letters, 2004, 85, 6128-6130.	3.3	330
26	ZnO Nanowires Synthesized by Vapor Trapping CVD Method. Chemistry of Materials, 2004, 16, 5133-5137.	6.7	340
27	ZnO nanowire field-effect transistor and oxygen sensing property. Applied Physics Letters, 2004, 85, 5923-5925.	3.3	766
28	Characterization ZnO Nanowires Synthesized by Vapor Trapping CVD Method. Microscopy and Microanalysis, 2004, 10, 390-391.	0.4	1