Li-Chia Tien

List of Publications by Citations

54 papers	3,108 citations	24 h-index	55 g-index
57 ext. papers	3,315 ext. citations	4.1 avg, IF	4.71 L-index

#	Paper	IF	Citations
54	ZnO nanowire growth and devices. *Materials Science and Engineering Reports*, **2004**, 47, 1-47	30.9	484
53	Hydrogen-selective sensing at room temperature with ZnO nanorods. *Applied Physics Letters*, **2005**, 86, 243503	3.4	475
52	Hydrogen sensing at room temperature with Pt-coated ZnO thin films and nanorods. *Applied Physics Letters*, **2005**, 87, 222106	3.4	244
51	Depletion-mode ZnO nanowire field-effect transistor. *Applied Physics Letters*, **2004**, 85, 2274-2276	3.4	208
50	Electrical transport properties of single ZnO nanorods. *Applied Physics Letters*, **2004**, 85, 2002-2004	3.4	138
49	ZnO spintronics and nanowire devices. *Journal of Electronic Materials*, **2006**, 35, 862-868	1.9	131
48	pH measurements with single ZnO nanorods integrated with a microchannel. *Applied Physics Letters* , **2005**, 86, 112105	3.4	127
47	Pt□nO nanowire Schottky diodes. *Applied Physics Letters*, **2004**, 85, 3107-3109	3.4	116
46	UV photoresponse of single ZnO nanowires. *Applied Physics A: Materials Science and Processing*, **2005**, 80, 497-499	2.6	98
45	Hydrogen and ozone gas sensing using multiple ZnO nanorods. *Applied Physics A: Materials Science and Processing*, **2005**, 80, 1029-1032	2.6	91
44	The study of optical band edge property of bismuth oxide nanowires □Bi2O3. *Optics Express*, **2013**, 21, 11965-72	3.3	68
43	Synthesis and microstructure of vertically aligned ZnO nanowires grown by high-pressure-assisted pulsed-laser deposition. *Journal of Materials Science*, **2008**, 43, 6925-6932	4.3	68
42	Detection of hydrogen at room temperature with catalyst-coated multiple ZnO nanorods. *Applied Physics A: Materials Science and Processing*, **2005**, 81, 1117-1119	2.6	68
41	Room-Temperature Hydrogen-Selective Sensing Using Single Pt-Coated ZnO Nanowires at Microwatt Power Levels. *Electrochemical and Solid-State Letters*, **2005**, 8, G230		55
40	Enhanced Photocatalytic Activity in □Ga2O3 Nanobelts. *Journal of the American Ceramic Society*, **2011**, 94, 3117-3122	3.8	52
39	Direct Optical Observation of Band-Edge Excitons, Band Gap, and Fermi Level in Degenerate Semiconducting Oxide Nanowires In2O3. *Journal of Physical Chemistry C*, **2011**, 115, 25088-25096	3.8	49
38	Detection of hydrogen with SnO2-coated ZnO nanorods. *Applied Surface Science*, **2007**, 253, 4748-4752	6.7	48

37	ZnO and Related Materials for Sensors and Light-Emitting Diodes. *Journal of Electronic Materials*, **2008**, 37, 1426-1432	1.9	48
36	Wide Bandgap Semiconductor Nanorod and Thin Film Gas Sensors. *Sensors*, **2006**, 6, 643-666	3.8	45
35	Nucleation control for ZnO nanorods grown by catalyst-driven molecular beam epitaxy. *Applied Surface Science*, **2007**, 253, 4620-4625	6.7	39
34	Thermoreflectance characterization of beta-Ga2O3 thin-film nanostrips. *Optics Express*, **2010**, 18, 16360-9	3.3	37
33	Epitaxial growth of transparent tin oxide films on (0001) sapphire by pulsed laser deposition. *Materials Research Bulletin*, **2009**, 44, 6-10	5.1	32
32	Photoconductivities in monocrystalline layered V2O5 nanowires grown by physical vapor deposition. *Nanoscale Research Letters*, **2013**, 8, 443	5	28
31	Effect of surface roughness on nucleation and growth of vanadium pentoxide nanowires. *Applied Surface Science*, **2012**, 258, 3584-3588	6.7	24
30	Type-II □n2S3/In2O3 nanowire heterostructures: evidence of enhanced photo-induced charge separation efficiency. *RSC Advances*, **2016**, 6, 12561-12570	3.7	23
29	Defect-induced ferromagnetism in undoped In2O3 nanowires. *Materials Research Bulletin*, **2014**, 60, 690-694	5.1	23
28	Nucleation control and growth mechanism of pure □Bi2O3 nanowires. *Applied Surface Science*, **2014**, 290, 131-136	6.7	23
27	Synthesis and characterization of Bi12O17Cl2 nanowires obtained by chlorination of □Bi2O3 nanowires. *Materials Letters*, **2013**, 113, 30-33	3.3	23
26	Anisotropic x-ray absorption effects in the optical luminescence yield of ZnO nanostructures. *Applied Physics Letters*, **2006**, 89, 093118	3.4	22
25	Direct vapor transport synthesis of ZnGa2O4 nanowires with superior photocatalytic activity. *Journal of Alloys and Compounds*, **2013**, 555, 325-329	5.7	17
24	Fabrication approaches to ZnO nanowire devices. *Journal of Electronic Materials*, **2005**, 34, 404-408	1.9	17
23	Optical Characterization of Structural Quality in the Formation of In2O3 Thin-Film Nanostructures. *Journal of Physical Chemistry C*, **2016**, 120, 21983-21989	3.8	16
22	Influence of growth ambient on the surface and structural properties of vanadium oxide nanorods. *Applied Surface Science*, **2013**, 274, 64-70	6.7	16
21	Getting to the core of the problem: origin of the luminescence from (Mg,Zn)O heterostructured nanowires. *Nano Letters*, **2007**, 7, 1521-5	11.5	15
20	Early nucleation on the Si(001)-2□ surface. *Surface Science*, **2002**, 514, 327-331	1.8	15

19	A hydrogen leakage detection system using self-powered wireless hydrogen sensor nodes. *Solid-State Electronics*, **2007**, 51, 1018-1022	1.7	14
18	Synthesis and characterization of single crystalline SnO2 nanorods by high-pressure pulsed laser deposition. *Applied Physics A: Materials Science and Processing*, **2008**, 91, 29-32	2.6	14
17	Modeling and Fabrication of ZnO Nanowire Transistors. *IEEE Transactions on Electron Devices*, **2008**, 55, 3012-3019	2.9	12
16	Synthesis of Ga2O3 nanowires as a broadband emitter. *Applied Physics A: Materials Science and Processing*, **2011**, 102, 105-108	2.6	11
15	Photoemission study of CaF2 on Si(001)-2 during annealing. *Solid State Communications*, **2003**, 125, 459-462	1.6	10
14	Solid state amorphization at the room temperature deposited Ir/Si interface. *Journal of Applied Physics*, **2002**, 91, 1204-1208	2.5	10
13	Selective synthesis of Bi2O3/rGO and Bi2O3/rGO heterostructures as efficient visible-light-driven photocatalysts. *Ceramics International*, **2019**, 45, 15334-15342	5.1	8
12	Synthesis of Bi2O3 nanocones over large areas by magnetron sputtering. *Surface and Coatings Technology*, **2015**, 265, 1-6	4.4	8
11	Single Zn2GeO4 nanowire high-performance broadband photodetector. *Journal of Applied Physics*, **2018**, 124, 174503	2.5	7
10	Nitrogen Doping Effect on Optical Property of Gallium Oxide Nanowires. *ECS Journal of Solid State Science and Technology*, **2012**, 1, P78-P81	2	5
9	ZnO-BASED NANOWIRES. *Nano*, **2007**, 02, 201-211	1.1	5
8	Cubic (Mg,Zn)O nanowire growth using catalyst-driven molecular beam epitaxy. *Journal of Materials Research*, **2005**, 20, 3028-3033	2.5	5
7	Cathodoluminescence and Field-Emission Properties of Ga2O3 Nanobelts. *Journal of Electronic Materials*, **2012**, 41, 3056-3061	1.9	4
6	Morphology-Controlled Vapor Phase Growth and Characterization of One-Dimensional GaTe Nanowires and Two-Dimensional Nanosheets for Potential Visible-Light Active Photocatalysts. *Nanomaterials*, **2021**, 11,	5.4	3
5	Synthesis, optical characterization, and environmental applications of Ga2O3 nanowires **2019**, 67-90		3
4	Broadband photodetectors based on layered 1D GaTe nanowires and 2D GaTe nanosheets. *Journal of Alloys and Compounds*, **2021**, 876, 160195	5.7	3
3	Observation of near-band-edge photoluminescence and UV photoresponse in near-stoichiometric Zn2SnO4nanowires. *Materials Research Express*, **2016**, 3, 066201	1.7	2
2	Facile synthesis of Bi25VO40 nanowires for visible-light-driven photocatalysts. *Materials Letters*, **2017**, 202, 73-77	3.3	1

List of Publications

1 Amorphous-crystalline transition at the Ir/Si(100) interface. *Journal of Applied Physics*, **2003**, 93, 6248-6251.