

Li-Chia Tien

List of Publications by Year in descending order

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57
papers

3,501
citations

218677

26
h-index

175258

52
g-index

57
all docs

57
docs citations

57
times ranked

4275
citing authors

#	ARTICLE	IF	CITATIONS
1	ZnO nanowire growth and devices. <i>Materials Science and Engineering Reports</i> , 2004, 47, 1-47.	31.8	534
2	Hydrogen-selective sensing at room temperature with ZnO nanorods. <i>Applied Physics Letters</i> , 2005, 86, 243503.	3.3	524
3	Hydrogen sensing at room temperature with Pt-coated ZnO thin films and nanorods. <i>Applied Physics Letters</i> , 2005, 87, 222106.	3.3	262
4	Depletion-mode ZnO nanowire field-effect transistor. <i>Applied Physics Letters</i> , 2004, 85, 2274-2276.	3.3	228
5	ZnO spintronics and nanowire devices. <i>Journal of Electronic Materials</i> , 2006, 35, 862-868.	2.2	148
6	Electrical transport properties of single ZnO nanorods. <i>Applied Physics Letters</i> , 2004, 85, 2002-2004.	3.3	146
7	pH measurements with single ZnO nanorods integrated with a microchannel. <i>Applied Physics Letters</i> , 2005, 86, 112105.	3.3	135
8	Pt δ -ZnO nanowire Schottky diodes. <i>Applied Physics Letters</i> , 2004, 85, 3107-3109.	3.3	129
9	UV photoresponse of single ZnO nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 80, 497-499.	2.3	107
10	Hydrogen and ozone gas sensing using multiple ZnO nanorods. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 80, 1029-1032.	2.3	101
11	The study of optical band edge property of bismuth oxide nanowires $\hat{\pm}$ -Bi ₂ O ₃ . <i>Optics Express</i> , 2013, 21, 11965.	3.4	96
12	Synthesis and microstructure of vertically aligned ZnO nanowires grown by high-pressure-assisted pulsed-laser deposition. <i>Journal of Materials Science</i> , 2008, 43, 6925-6932.	3.7	80
13	Detection of hydrogen at room temperature with catalyst-coated multiple ZnO nanorods. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 81, 1117-1119.	2.3	77
14	Enhanced Photocatalytic Activity in $\hat{\pm}$ -Ga ₂ O ₃ Nanobelts. <i>Journal of the American Ceramic Society</i> , 2011, 94, 3117-3122.	3.8	63
15	Room-Temperature Hydrogen-Selective Sensing Using Single Pt-Coated ZnO Nanowires at Microwatt Power Levels. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, G230.	2.2	60
16	Direct Optical Observation of Band-Edge Excitons, Band Gap, and Fermi Level in Degenerate Semiconducting Oxide Nanowires In ₂ O ₃ . <i>Journal of Physical Chemistry C</i> , 2011, 115, 25088-25096.	3.1	58
17	Thermoreflectance characterization of $\hat{\pm}$ -Ga ₂ O ₃ thin-film nanostrips. <i>Optics Express</i> , 2010, 18, 16360.	3.4	57
18	Detection of hydrogen with SnO ₂ -coated ZnO nanorods. <i>Applied Surface Science</i> , 2007, 253, 4748-4752.	6.1	53

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19	Wide Bandgap Semiconductor Nanorod and Thin Film Gas Sensors. <i>Sensors</i> , 2006, 6, 643-666.	3.8	52
20	ZnO and Related Materials for Sensors and Light-Emitting Diodes. <i>Journal of Electronic Materials</i> , 2008, 37, 1426-1432.	2.2	52
21	Nucleation control for ZnO nanorods grown by catalyst-driven molecular beam epitaxy. <i>Applied Surface Science</i> , 2007, 253, 4620-4625.	6.1	44
22	Photoconductivities in monocrystalline layered V ₂ O ₅ nanowires grown by physical vapor deposition. <i>Nanoscale Research Letters</i> , 2013, 8, 443.	5.7	37
23	Epitaxial growth of transparent tin oxide films on (0001) sapphire by pulsed laser deposition. <i>Materials Research Bulletin</i> , 2009, 44, 6-10.	5.2	36
24	Defect-induced ferromagnetism in undoped In ₂ O ₃ nanowires. <i>Materials Research Bulletin</i> , 2014, 60, 690-694.	5.2	30
25	Effect of surface roughness on nucleation and growth of vanadium pentoxide nanowires. <i>Applied Surface Science</i> , 2012, 258, 3584-3588.	6.1	27
26	Synthesis and characterization of Bi ₁₂ O ₁₇ Cl ₂ nanowires obtained by chlorination of $\hat{\pm}$ -Bi ₂ O ₃ nanowires. <i>Materials Letters</i> , 2013, 113, 30-33.	2.6	27
27	Nucleation control and growth mechanism of pure $\hat{\pm}$ -Bi ₂ O ₃ nanowires. <i>Applied Surface Science</i> , 2014, 290, 131-136.	6.1	27
28	Type-II $\hat{\pm}$ -In ₂ S ₃ /In ₂ O ₃ nanowire heterostructures: evidence of enhanced photo-induced charge separation efficiency. <i>RSC Advances</i> , 2016, 6, 12561-12570.	3.6	27
29	Anisotropic x-ray absorption effects in the optical luminescence yield of ZnO nanostructures. <i>Applied Physics Letters</i> , 2006, 89, 093118.	3.3	25
30	Direct vapor transport synthesis of ZnGa ₂ O ₄ nanowires with superior photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2013, 555, 325-329.	5.5	22
31	Fabrication approaches to ZnO nanowire devices. <i>Journal of Electronic Materials</i> , 2005, 34, 404-408.	2.2	18
32	Synthesis and characterization of single crystalline SnO ₂ nanorods by high-pressure pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 91, 29-32.	2.3	17
33	Influence of growth ambient on the surface and structural properties of vanadium oxide nanorods. <i>Applied Surface Science</i> , 2013, 274, 64-70.	6.1	17
34	Getting to the Core of the Problem: Origin of the Luminescence from (Mg,Zn)O Heterostructured Nanowires. <i>Nano Letters</i> , 2007, 7, 1521-1525.	9.1	16
35	A hydrogen leakage detection system using self-powered wireless hydrogen sensor nodes. <i>Solid-State Electronics</i> , 2007, 51, 1018-1022.	1.4	16
36	Optical Characterization of Structural Quality in the Formation of In ₂ O ₃ Thin-Film Nanostructures. <i>Journal of Physical Chemistry C</i> , 2016, 120, 21983-21989.	3.1	16

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37	Early nucleation on the Si(111) surface. Surface Science, 2002, 514, 327-331.	1.9	15
38	Modeling and Fabrication of ZnO Nanowire Transistors. IEEE Transactions on Electron Devices, 2008, 55, 3012-3019.	3.0	13
39	Selective synthesis of Bi-Bi ₂ O ₃ /rGO and Bi ₂ O ₃ /rGO heterostructures as efficient visible-light-driven photocatalysts. Ceramics International, 2019, 45, 15334-15342.	4.8	12
40	Synthesis of Bi ₂ O ₃ nanowires as a broadband emitter. Applied Physics A: Materials Science and Processing, 2011, 102, 105-108.	2.3	11
41	Solid state amorphization at the room temperature deposited Ir/Si interface. Journal of Applied Physics, 2002, 91, 1204-1208.	2.5	10
42	Photoemission study of CaF ₂ on Si(111) during annealing. Solid State Communications, 2003, 125, 459-462.	1.9	10
43	Broadband photodetectors based on layered 1D GaTe nanowires and 2D GaTe nanosheets. Journal of Alloys and Compounds, 2021, 876, 160195.	5.5	10
44	Synthesis of Bi ₂ O ₃ nanocones over large areas by magnetron sputtering. Surface and Coatings Technology, 2015, 265, 1-6.	4.8	9
45	Single Zn ₂ GeO ₄ nanowire high-performance broadband photodetector. Journal of Applied Physics, 2018, 124, .	2.5	8
46	Synthesis, optical characterization, and environmental applications of Bi ₂ O ₃ nanowires. , 2019, , 67-90.		8
47	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, 778.	4.1	6
48	Cubic (Mg,Zn)O Nanowire Growth Using Catalyst-Driven Molecular Beam Epitaxy. Journal of Materials Research, 2005, 20, 3028-3033.	2.6	5
49	ZnO-BASED NANOWIRES. Nano, 2007, 02, 201-211.	1.0	5
50	Nitrogen Doping Effect on Optical Property of Gallium Oxide Nanowires. ECS Journal of Solid State Science and Technology, 2012, 1, P78-P81.	1.8	5
51	Cathodoluminescence and Field-Emission Properties of Bi ₂ O ₃ Nanobelts. Journal of Electronic Materials, 2012, 41, 3056-3061.	2.2	5
52	Observation of near-band-edge photoluminescence and UV photoresponse in near-stoichiometric Zn ₂ SnO ₄ nanowires. Materials Research Express, 2016, 3, 066201.	1.6	4
53	Facile synthesis of Bi ₂ VO ₄ nanowires for visible-light-driven photocatalysts. Materials Letters, 2017, 202, 73-77.	2.6	1
54	Amorphous-crystalline transition at the Ir/Si(100) interface. Journal of Applied Physics, 2003, 93, 6248-6251.	2.5	0

#	ARTICLE	IF	CITATIONS
55	Wide Bandgap Semiconductor Nanowires for Sensing Applications. ECS Transactions, 2007, 6, 115-126.	0.5	0
56	Wide bandgap nanowire sensors. , 2007, , .		0
57	Growth of Bi ₂ O ₃ nanocones over large areas by magnetron sputtering. Proceedings of SPIE, 2015, , .	0.8	0