

# H Hoe Tan

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56  
papers

3,373  
citations

32  
h-index

58  
g-index

68  
ext. papers

3,812  
ext. citations

9.1  
avg, IF

4.61  
L-index

#	Paper	IF	Citations
56	Role of defects and grain boundaries in the thermal response of wafer-scale hBN films. <i>Nanotechnology</i> , <b>2021</b> , 32, 075702	3.4	1
55	Postgrowth Shaping and Transport Anisotropy in Two-Dimensional InAs Nanofins. <i>ACS Nano</i> , <b>2021</b> , 15, 7226-7236	16.7	0
54	Strain distribution in wrinkled hBN films. <i>Solid State Communications</i> , <b>2020</b> , 310, 113847	1.6	7
53	Impact of invasive metal probes on Hall measurements in semiconductor nanostructures. <i>Nanoscale</i> , <b>2020</b> , 12, 20317-20325	7.7	4
52	The influence of surfaces on the transient terahertz conductivity and electron mobility of GaAs nanowires. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 224001	3	17
51	An Ultrafast Switchable Terahertz Polarization Modulator Based on III-V Semiconductor Nanowires. <i>Nano Letters</i> , <b>2017</b> , 17, 2603-2610	11.5	51
50	Engineering the Photoresponse of InAs Nanowires. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 43993-44000	11.5	54
49	Bandgap Energy of Wurtzite InAs Nanowires. <i>Nano Letters</i> , <b>2016</b> , 16, 5197-203	11.5	37
48	Growth of Catalyst-Free Epitaxial InAs Nanowires on Si Wafers Using Metallic Masks. <i>Nano Letters</i> , <b>2016</b> , 16, 4189-93	11.5	9
47	Thermal Delocalization of Excitons in GaAs/AlGaAs Quantum Well Tube Nanowires. <i>Nano Letters</i> , <b>2016</b> , 16, 1392-7	11.5	6
46	Effect of a High Density of Stacking Faults on the Young's Modulus of GaAs Nanowires. <i>Nano Letters</i> , <b>2016</b> , 16, 1911-6	11.5	48
45	Emergence of localized states in narrow GaAs/AlGaAs nanowire quantum well tubes. <i>Nano Letters</i> , <b>2015</b> , 15, 1876-82	11.5	41
44	Determination of Young's Modulus of Ultrathin Nanomaterials. <i>Nano Letters</i> , <b>2015</b> , 15, 5279-83	11.5	35
43	Low ensemble disorder in quantum well tube nanowires. <i>Nanoscale</i> , <b>2015</b> , 7, 20531-8	7.7	11
42	Quantum Confined Stark Effect in a GaAs/AlGaAs Nanowire Quantum Well Tube Device: Probing Exciton Localization. <i>Nano Letters</i> , <b>2015</b> , 15, 7847-52	11.5	21
41	Electron mobilities approaching bulk limits in "surface-free" GaAs nanowires. <i>Nano Letters</i> , <b>2014</b> , 14, 5989-94	11.5	64
40	Atomic-scale observation of parallel development of super elasticity and reversible plasticity in GaAs nanowires. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 021904	3.4	22

39	Polarity-driven nonuniform composition in InGaAs nanowires. <i>Nano Letters</i> , <b>2013</b> , 13, 5085-9	11.5	39
38	Electronic properties of GaAs, InAs and InP nanowires studied by terahertz spectroscopy. <i>Nanotechnology</i> , <b>2013</b> , 24, 214006	3.4	205
37	Direct observation of charge-carrier heating at WZ-ZB InP nanowire heterojunctions. <i>Nano Letters</i> , <b>2013</b> , 13, 4280-7	11.5	22
36	Palladium Catalyzed Defect-free Zinc-Blende Structured InAs Nanowires. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1551, 95-99		
35	Strong carrier lifetime enhancement in GaAs nanowires coated with semiconducting polymer. <i>Nano Letters</i> , <b>2012</b> , 12, 6293-301	11.5	52
34	Ultralow surface recombination velocity in InP nanowires probed by terahertz spectroscopy. <i>Nano Letters</i> , <b>2012</b> , 12, 5325-30	11.5	127
33	Taper-Free and Vertically Oriented Ge Nanowires on Ge/Si Substrates Grown by a Two-Temperature Process. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 135-141	3.5	24
32	Defect-free zinc-blende structured InAs nanowires catalyzed by palladium. <i>Nano Letters</i> , <b>2012</b> , 12, 5744-9	11.5	58
31	Taper-free and kinked germanium nanowires grown on silicon via purging and the two-temperature process. <i>Nanotechnology</i> , <b>2012</b> , 23, 115603	3.4	12
30	Photomodulated Rayleigh Scattering from Single Semiconductor Nanowires. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1408, 11		
29	Characterization of semiconductor nanowires using optical tweezers. <i>Nano Letters</i> , <b>2011</b> , 11, 2375-81	11.5	57
28	Tailoring GaAs, InAs, and InGaAs Nanowires for Optoelectronic Device Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2011</b> , 17, 766-778	3.8	32
27	Growth of straight InAs-on-GaAs nanowire heterostructures. <i>Nano Letters</i> , <b>2011</b> , 11, 3899-905	11.5	40
26	III $\bar{V}$ semiconductor nanowires for optoelectronic device applications. <i>Progress in Quantum Electronics</i> , <b>2011</b> , 35, 23-75	9.1	215
25	Self-healing of fractured GaAs nanowires. <i>Nano Letters</i> , <b>2011</b> , 11, 1546-9	11.5	44
24	Photomodulated rayleigh scattering of single semiconductor nanowires: probing electronic band structure. <i>Nano Letters</i> , <b>2011</b> , 11, 4329-36	11.5	17
23	Phase perfection in zinc Blende and Wurtzite III-V nanowires using basic growth parameters. <i>Nano Letters</i> , <b>2010</b> , 10, 908-15	11.5	398
22	Vertically oriented epitaxial germanium nanowires on silicon substrates using thin germanium buffer layers. <i>Nanotechnology</i> , <b>2010</b> , 21, 295602	3.4	8

21	Single-crystalline hexagonal ZnO microtube optical resonators. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 5510		25
20	Direct measure of strain and electronic structure in GaAs/GaP core-shell nanowires. <i>Nano Letters</i> , <b>2010</b> , 10, 880-6	11.5	89
19	Crystallographically driven Au catalyst movement during growth of InAs/GaAs axial nanowire heterostructures. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 073503	2.5	14
18	Combined optical trapping and microphotoluminescence of single InP nanowires. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 101109	3.4	25
17	Formation of hierarchical InAs nanoring/GaAs nanowire heterostructures. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 780-3	16.4	40
16	Evolution of epitaxial InAs nanowires on GaAs 111B. <i>Small</i> , <b>2009</b> , 5, 366-9	11	45
15	Carrier dynamics and quantum confinement in type II ZB-WZ InP nanowire homostructures. <i>Nano Letters</i> , <b>2009</b> , 9, 648-54	11.5	157
14	Whispering gallery modes in indium oxide hexagonal microcavities. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 173115	3.4	24
13	Unexpected benefits of rapid growth rate for III-V nanowires. <i>Nano Letters</i> , <b>2009</b> , 9, 695-701	11.5	114
12	Nature of heterointerfaces in GaAs/InAs and InAs/GaAs axial nanowire heterostructures. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 101911	3.4	86
11	Polarity driven formation of InAs/GaAs hierarchical nanowire heterostructures. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 201908	3.4	36
10	High Purity GaAs Nanowires Free of Planar Defects: Growth and Characterization. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 3794-3800	15.6	83
9	Twin-free uniform epitaxial GaAs nanowires grown by a two-temperature process. <i>Nano Letters</i> , <b>2007</b> , 7, 921-6	11.5	240
8	Resonant excitation and imaging of nonequilibrium exciton spins in single core-shell GaAs-AlGaAs nanowires. <i>Nano Letters</i> , <b>2007</b> , 7, 588-95	11.5	35
7	Growth mechanism of truncated triangular III-V nanowires. <i>Small</i> , <b>2007</b> , 3, 389-93	11	118
6	Novel growth phenomena observed in axial InAs/GaAs nanowire heterostructures. <i>Small</i> , <b>2007</b> , 3, 1873-71		86
5	Dynamics of strongly degenerate electron-hole plasmas and excitons in single InP nanowires. <i>Nano Letters</i> , <b>2007</b> , 7, 3383-7	11.5	44
4	Growth, Structural and Optical Properties of GaAs, InGaAs and AlGaAs Nanowires and Nanowire Heterostructures. <i>Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS</i> , <b>2007</b> ,		2

- 3 Failure and Formation of Axial Nanowire Heterostructures in Vapor-Liquid-Solid Growth. *Materials Research Society Symposia Proceedings*, **2007**, 1058, 1
- 2 Transient Terahertz Conductivity of GaAs Nanowires. *Nano Letters*, **2007**, 7, 2162-2165 11.5 156
- 1 Influence of nanowire density on the shape and optical properties of ternary InGaAs nanowires. *Nano Letters*, **2006**, 6, 599-604 11.5 196