

# Li-Chyong Chen

## List of Publications by Year in descending order

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444  
papers

22,057  
citations

10956

71  
h-index

13727

129  
g-index

447  
all docs

447  
docs citations

447  
times ranked

25366  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved broadband and quasi-omnidirectional anti-reflection properties with biomimetic silicon nanostructures. <i>Nature Nanotechnology</i> , 2007, 2, 770-774.	15.6	1,022
2	Tunable Photoluminescence from Graphene Oxide. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6662-6666.	7.2	584
3	Anti-reflecting and photonic nanostructures. <i>Materials Science and Engineering Reports</i> , 2010, 69, 1-35.	14.8	531
4	Conducting polymer-based flexible supercapacitor. <i>Energy Science and Engineering</i> , 2015, 3, 2-26.	1.9	516
5	Catalytic Growth and Characterization of Gallium Nitride Nanowires. <i>Journal of the American Chemical Society</i> , 2001, 123, 2791-2798.	6.6	504
6	Graphene oxide as a promising photocatalyst for CO <sub>2</sub> to methanol conversion. <i>Nanoscale</i> , 2013, 5, 262-268.	2.8	424
7	DNA-Gold Nanorod Conjugates for Remote Control of Localized Gene Expression by near Infrared Irradiation. <i>Journal of the American Chemical Society</i> , 2006, 128, 3709-3715.	6.6	411
8	Carbon-doped SnS <sub>2</sub> nanostructure as a high-efficiency solar fuel catalyst under visible light. <i>Nature Communications</i> , 2018, 9, 169.	5.8	350
9	Heterostructures of ZnO-Zn coaxial nanocables and ZnO nanotubes. <i>Applied Physics Letters</i> , 2002, 81, 1312-1314.	1.5	346
10	Controlling the Oxidation State of the Cu Electrode and Reaction Intermediates for Electrochemical CO <sub>2</sub> Reduction to Ethylene. <i>Journal of the American Chemical Society</i> , 2020, 142, 2857-2867.	6.6	342
11	Flexible supercapacitor based on polyaniline nanowires/carbon cloth with both high gravimetric and area-normalized capacitance. <i>Journal of Power Sources</i> , 2010, 195, 4418-4422.	4.0	312
12	Highly Efficient Visible Light Photocatalytic Reduction of CO <sub>2</sub> to Hydrocarbon Fuels by Cu-Nanoparticle Decorated Graphene Oxide. <i>Nano Letters</i> , 2014, 14, 6097-6103.	4.5	312
13	Polymer Structure and Solvent Effects on the Selective Dispersion of Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2008, 130, 3543-3553.	6.6	287
14	Elastic, mechanical, and thermal properties of nanocrystalline diamond films. <i>Journal of Applied Physics</i> , 2003, 93, 2164-2171.	1.1	285
15	Calorimetric evidence for the micro-quasicrystalline structure of 'amorphous' Al/transition metal alloys. <i>Nature</i> , 1988, 336, 366-368.	13.7	279
16	Effect of chemical doping of boron and nitrogen on the electronic, optical, and electrochemical properties of carbon nanotubes. <i>Progress in Materials Science</i> , 2013, 58, 565-635.	16.0	276
17	Photosensitive gold-nanoparticle-embedded dielectric nanowires. <i>Nature Materials</i> , 2006, 5, 102-106.	13.3	258
18	Band Gap Engineering of Chemical Vapor Deposited Graphene by <i>in Situ</i> BN Doping. <i>ACS Nano</i> , 2013, 7, 1333-1341.	7.3	252

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19	Analysis of calorimetric measurements of grain growth. <i>Journal of Applied Physics</i> , 1991, 69, 679-688.	1.1	248
20	Complete Corrosion Inhibition through Graphene Defect Passivation. <i>ACS Nano</i> , 2014, 8, 443-448.	7.3	225
21	Highly flexible supercapacitors with manganese oxide nanosheet/carbon cloth electrode. <i>Electrochimica Acta</i> , 2011, 56, 7124-7130.	2.6	224
22	Ultrafine Platinum Nanoparticles Uniformly Dispersed on Arrayed CNx Nanotubes with High Electrochemical Activity. <i>Chemistry of Materials</i> , 2005, 17, 3749-3753.	3.2	206
23	Reversible phase transformation of MnO <sub>2</sub> nanosheets in an electrochemical capacitor investigated by in situ Raman spectroscopy. <i>Chemical Communications</i> , 2011, 47, 1252-1254.	2.2	196
24	Selective-area growth of indium nitride nanowires on gold-patterned Si(100) substrates. <i>Applied Physics Letters</i> , 2002, 81, 22-24.	1.5	195
25	Top Laminated Graphene Electrode in a Semitransparent Polymer Solar Cell by Simultaneous Thermal Annealing/Releasing Method. <i>ACS Nano</i> , 2011, 5, 6564-6570.	7.3	188
26	5nm ruthenium thin film as a directly plateable copper diffusion barrier. <i>Applied Physics Letters</i> , 2005, 86, 083104.	1.5	167
27	Crystalline silicon carbon nitride: A wide band gap semiconductor. <i>Applied Physics Letters</i> , 1998, 72, 2463-2465.	1.5	162
28	Anomalous blueshift in emission spectra of ZnO nanorods with sizes beyond quantum confinement regime. <i>Applied Physics Letters</i> , 2006, 88, 241905.	1.5	158
29	Generally Applicable Self-Masked Dry Etching Technique for Nanotip Array Fabrication. <i>Nano Letters</i> , 2004, 4, 471-475.	4.5	147
30	Novel Iron Oxyhydroxide Lepidocrocite Nanosheet as Ultrahigh Power Density Anode Material for Asymmetric Supercapacitors. <i>Small</i> , 2014, 10, 3803-3810.	5.2	143
31	Synthesis and Characterization of Core-Shell GaP@GaN and GaN@GaP Nanowires. <i>Nano Letters</i> , 2003, 3, 537-541.	4.5	136
32	Electroluminescence from ZnO nanowire/polymer composite p-n junction. <i>Applied Physics Letters</i> , 2006, 88, 173503.	1.5	135
33	Ultrahigh photocurrent gain in m-axial GaN nanowires. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	134
34	High performance of low electrocatalysts loading on CNT directly grown on carbon cloth for DMFC. <i>Journal of Power Sources</i> , 2007, 171, 55-62.	4.0	129
35	Ultrasensitive in Situ Label-Free DNA Detection Using a GaN Nanowire-Based Extended-Gate Field-Effect-Transistor Sensor. <i>Analytical Chemistry</i> , 2011, 83, 1938-1943.	3.2	129
36	Visible-light-driven photocatalytic carbon-doped porous ZnO nanoarchitectures for solar water-splitting. <i>Nanoscale</i> , 2012, 4, 6515.	2.8	126

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37	High-cell-voltage supercapacitor of carbon nanotube/carbon cloth operating in neutral aqueous solution. <i>Journal of Materials Chemistry</i> , 2012, 22, 3383.	6.7	126
38	Quantum Confinement Effect in Diamond Nanocrystals Studied by X-Ray-Absorption Spectroscopy. <i>Physical Review Letters</i> , 1999, 82, 5377-5380.	2.9	118
39	Ni Nanocluster Modified Black TiO <sub>2</sub> with Dual Active Sites for Selective Photocatalytic CO <sub>2</sub> Reduction. <i>Small</i> , 2018, 14, 1702928.	5.2	116
40	Vitalizing fuel cells with vitamins: pyrolyzed vitamin B12 as a non-precious catalyst for enhanced oxygen reduction reaction of polymer electrolyte fuel cells. <i>Energy and Environmental Science</i> , 2012, 5, 5305-5314.	15.6	115
41	Boosting photocatalytic CO <sub>2</sub> reduction in a ZnS/ZnIn <sub>2</sub> S <sub>4</sub> heterostructure through strain-induced direct Z-scheme and a mechanistic study of molecular CO <sub>2</sub> interaction thereon. <i>Nano Energy</i> , 2022, 93, 106809.	8.2	110
42	Binder-free rice husk-based silicon-graphene composite as energy efficient Li-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13437-13441.	5.2	109
43	Improved Solar-Driven Photocatalytic Activity of Hybrid Graphene Quantum Dots/ZnO Nanowires: A Direct Z-Scheme Mechanism. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 367-375.	3.2	109
44	Formation of crystalline silicon carbon nitride films by microwave plasma-enhanced chemical vapor deposition. <i>Diamond and Related Materials</i> , 1996, 5, 514-518.	1.8	104
45	Plasmonic Ag@Ag <sub>3</sub> (PO <sub>4</sub> ) <sub>1-x</sub> nanoparticle photosensitized ZnO nanorod-array photoanodes for water oxidation. <i>Energy and Environmental Science</i> , 2012, 5, 8917.	15.6	103
46	The affinity of Si-N and Si-C bonding in amorphous silicon carbon nitride (a-SiCN) thin film. <i>Diamond and Related Materials</i> , 2005, 14, 1126-1130.	1.8	102
47	High photocurrent gain in SnO <sub>2</sub> nanowires. <i>Applied Physics Letters</i> , 2008, 93, 112115.	1.5	101
48	Growth of Single-Crystalline Wurtzite Aluminum Nitride Nanotips with a Self-Selective Apex Angle. <i>Advanced Functional Materials</i> , 2005, 15, 781-786.	7.8	98
49	Pyrolyzed Cobalt Corrole as a Potential Non-Precious Catalyst for Fuel Cells. <i>Advanced Functional Materials</i> , 2012, 22, 3500-3508.	7.8	97
50	Atomic-Scale Deformation in N-Doped Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2006, 128, 8368-8369.	6.6	96
51	Multi-porous Co <sub>3</sub> O <sub>4</sub> nanoflakes @ sponge-like few-layer partially reduced graphene oxide hybrids: towards highly stable asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12569-12577.	5.2	96
52	Surface-Enhanced Raman Spectroscopy Using Self-Assembled Silver Nanoparticles on Silicon Nanotips. <i>Chemistry of Materials</i> , 2005, 17, 553-559.	3.2	93
53	Low methanol-permeable polyaniline/Nafion composite membrane for direct methanol fuel cells. <i>Journal of Power Sources</i> , 2009, 190, 279-284.	4.0	91
54	Birnessite-type manganese oxides nanosheets with hole acceptor assisted photoelectrochemical activity in response to visible light. <i>Journal of Materials Chemistry</i> , 2012, 22, 2733-2739.	6.7	89

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55	Beaded stream-like CoSe <sub>2</sub> nanoneedle array for efficient hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4553-4561.	5.2	89
56	SiC-capped nanotip arrays for field emission with ultralow turn-on field. <i>Applied Physics Letters</i> , 2003, 83, 1420-1422.	1.5	88
57	Growth mechanism, structure and IR photoluminescence studies of indium nitride nanorods. <i>Journal of Crystal Growth</i> , 2004, 269, 87-94.	0.7	88
58	Correlating defect density with carrier mobility in large-scaled graphene films: Raman spectral signatures for the estimation of defect density. <i>Nanotechnology</i> , 2010, 21, 465705.	1.3	86
59	Design for Approaching Cicada-Wing Reflectance in Low- and High-Index Biomimetic Nanostructures. <i>ACS Nano</i> , 2015, 9, 301-311.	7.3	86
60	Crystalline SiCN: a hard material rivals to cubic BN. <i>Thin Solid Films</i> , 1999, 355-356, 112-116.	0.8	84
61	Arrayed CNx NT@RuO <sub>2</sub> nanocomposites directly grown on Ti-buffered Si substrate for supercapacitor applications. <i>Electrochemistry Communications</i> , 2007, 9, 239-244.	2.3	84
62	Label-Free Dual Sensing of DNA Molecules Using GaN Nanowires. <i>Analytical Chemistry</i> , 2009, 81, 36-42.	3.2	84
63	Electroluminescence from ZnO/Si-Nanotips Light-Emitting Diodes. <i>Nano Letters</i> , 2009, 9, 1839-1843.	4.5	83
64	Field emission from quasi-aligned SiCN nanorods. <i>Applied Physics Letters</i> , 2000, 76, 2630-2632.	1.5	81
65	Composition of SiCN crystals consisting of a predominantly carbon-nitride network. <i>Journal of Materials Research</i> , 1997, 12, 322-325.	1.2	80
66	Probing the active site in single-atom oxygen reduction catalysts via operando X-ray and electrochemical spectroscopy. <i>Nature Communications</i> , 2020, 11, 4233.	5.8	80
67	Si-containing crystalline carbon nitride derived from microwave plasma-enhanced chemical vapor deposition. <i>Thin Solid Films</i> , 1997, 303, 66-75.	0.8	76
68	Fast growth of large-grain and continuous MoS <sub>2</sub> films through a self-capping vapor-liquid-solid method. <i>Nature Communications</i> , 2020, 11, 3682.	5.8	76
69	Nanotips: Growth, Model, and Applications. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2006, 31, 15-53.	6.8	75
70	Mechanism of luminescence in InGaN/GaN multiple quantum wells. <i>Applied Physics Letters</i> , 2000, 76, 3712-3714.	1.5	73
71	Fluorescent Organic Nanoparticles of Benzofuran~Naphthyridine Linked Molecules: Formation and Fluorescence Enhancement in Aqueous Media. <i>Organic Letters</i> , 2006, 8, 3713-3716.	2.4	73
72	Controlled platinum nanoparticles uniformly dispersed on nitrogen-doped carbon nanotubes for methanol oxidation. <i>Diamond and Related Materials</i> , 2008, 17, 535-541.	1.8	73

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73	Room-temperature negative photoconductivity in degenerate InN thin films with a supergap excitation. <i>Physical Review B</i> , 2010, 81, .	1.1	72
74	Bifacial sodium-incorporated treatments: Tailoring deep traps and enhancing carrier transport properties in Cu <sub>2</sub> ZnSnS <sub>4</sub> solar cells. <i>Nano Energy</i> , 2015, 16, 438-445.	8.2	70
75	Micro-Raman for diamond film stress analysis. <i>Diamond and Related Materials</i> , 1995, 4, 460-463.	1.8	69
76	Nanohomojunction (GaN) and Nanoheterojunction (InN) Nanorods on One-Dimensional GaN Nanowire Substrates. <i>Advanced Functional Materials</i> , 2004, 14, 233-237.	7.8	68
77	Controlling Steps During Early Stages of the Aligned Growth of Carbon Nanotubes Using Microwave Plasma Enhanced Chemical Vapor Deposition. <i>Advanced Functional Materials</i> , 2002, 12, 687-692.	7.8	67
78	Direct-growth of polyaniline nanowires for enzyme-immobilization and glucose detection. <i>Electrochemistry Communications</i> , 2009, 11, 850-853.	2.3	67
79	Eco-Friendly Plasmonic Sensors: Using the Photothermal Effect to Prepare Metal Nanoparticle-Containing Test Papers for Highly Sensitive Colorimetric Detection. <i>Analytical Chemistry</i> , 2012, 84, 5140-5145.	3.2	67
80	Stand-up structure of graphene-like carbon nanowalls on CNT directly grown on polyacrylonitrile-based carbon fiber paper as supercapacitor. <i>Diamond and Related Materials</i> , 2012, 25, 176-179.	1.8	67
81	Vertically aligned epitaxial graphene nanowalls with dominated nitrogen doping for superior supercapacitors. <i>Carbon</i> , 2015, 82, 124-134.	5.4	67
82	On-Chip Fabrication of Well-Aligned and Contact-Barrier-Free GaN Nanobridge Devices with Ultrahigh Photocurrent Responsivity. <i>Small</i> , 2008, 4, 925-929.	5.2	65
83	Growth and Optical Properties of Self-Organized Au <sub>2</sub> Si Nanospheres Pea-Podded in a Silicon Oxide Nanowire. <i>Advanced Materials</i> , 2002, 14, 1847-1850.	11.1	63
84	Enhanced dynamic annealing in Ga <sup>+</sup> ion-implanted GaN nanowires. <i>Applied Physics Letters</i> , 2003, 82, 451-453.	1.5	63
85	Nanostructured Zinc Oxide Nanorods with Copper Nanoparticles as a Microreformation Catalyst. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7586-7590.	7.2	63
86	Transport properties of InN nanowires. <i>Applied Physics Letters</i> , 2005, 87, 093112.	1.5	62
87	Transparent, Broadband, Flexible, and Bifacial-Operable Photodetectors Containing a Large-Area Graphene-Gold Oxide Heterojunction. <i>ACS Nano</i> , 2015, 9, 5093-5103.	7.3	62
88	Wide band gap silicon carbon nitride films deposited by electron cyclotron resonance plasma chemical vapor deposition. <i>Thin Solid Films</i> , 1999, 355-356, 205-209.	0.8	61
89	Field emission from quasi-aligned aluminum nitride nanotips. <i>Applied Physics Letters</i> , 2005, 87, 073109.	1.5	61
90	Electrical transport properties of single GaN and InN nanowires. <i>Journal of Electronic Materials</i> , 2006, 35, 738-743.	1.0	61

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91	Sharp Infrared Emission from Single-Crystalline Indium Nitride Nanobelts Prepared Using Guided-Stream Thermal Chemical Vapor Deposition. <i>Advanced Functional Materials</i> , 2006, 16, 537-541.	7.8	61
92	Prestrained effect on the emission properties of InGaN/GaN quantum-well structures. <i>Applied Physics Letters</i> , 2006, 89, 051913.	1.5	60
93	Direct-growth of poly(3,4-ethylenedioxythiophene) nanowires/carbon cloth as hierarchical supercapacitor electrode in neutral aqueous solution. <i>Journal of Power Sources</i> , 2013, 242, 718-724.	4.0	60
94	Nanostructures and carrier localization behaviors of green-luminescence InGaN/GaN quantum-well structures of various silicon-doping conditions. <i>Applied Physics Letters</i> , 2004, 84, 2506-2508.	1.5	59
95	One-Dimensional Group III-Nitrides: Growth, Properties, and Applications in Nanosensing and Nano-Optoelectronics. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2009, 34, 224-279.	6.8	59
96	Integrated nano-architected photocatalysts for photochemical CO <sub>2</sub> reduction. <i>Nanoscale</i> , 2020, 12, 23301-23332.	2.8	59
97	Effects of cathode buffer layers on the efficiency of bulk-heterojunction solar cells. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	58
98	Optical properties and photoconductivity of amorphous silicon carbon nitride thin film and its application for UV detection. <i>Diamond and Related Materials</i> , 2005, 14, 1010-1013.	1.8	57
99	High methanol oxidation activity of electrocatalysts supported by directly grown nitrogen-containing carbon nanotubes on carbon cloth. <i>Electrochimica Acta</i> , 2006, 52, 1612-1617.	2.6	57
100	Direct voltammetric sensing of L-Cysteine at pristine GaN nanowires electrode. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1688-1691.	5.3	57
101	Enhanced thermoelectric performance of GeTe through <i>in situ</i> microdomain and Ge-vacancy control. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15181-15189.	5.2	56
102	A mechanistic study of molecular CO <sub>2</sub> interaction and adsorption on carbon implanted SnS <sub>2</sub> thin film for photocatalytic CO <sub>2</sub> reduction activity. <i>Nano Energy</i> , 2020, 72, 104717.	8.2	55
103	Structure and elastic properties of amorphous silicon carbon nitride films. <i>Physical Review B</i> , 2001, 64, .	1.1	54
104	Electronic structure of the carbon nanotube tips studied by x-ray-absorption spectroscopy and scanning photoelectron microscopy. <i>Applied Physics Letters</i> , 2002, 81, 4189-4191.	1.5	54
105	Substitutional nitrogen incorporation through rf glow discharge treatment and subsequent oxygen uptake on vertically aligned carbon nanotubes. <i>Physical Review B</i> , 2007, 75, .	1.1	54
106	KSCN-induced Interfacial Dipole in Black TiO <sub>2</sub> for Enhanced Photocatalytic CO <sub>2</sub> Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 25186-25194.	4.0	54
107	High-gain photoconductivity in semiconducting InN nanowires. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	52
108	Coalescence overgrowth of GaN nanocolumns on sapphire with patterned metal organic vapor phase epitaxy. <i>Journal of Applied Physics</i> , 2009, 105, 023501.	1.1	52

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109	Photoconductivity in single AlN nanowires by subband gap excitation. Applied Physics Letters, 2010, 96, .	1.5	52
110	A nontoxic solvent based sol-gel Cu <sub>2</sub> ZnSnS <sub>4</sub> thin film for high efficiency and scalable low-cost photovoltaic cells. Journal of Materials Chemistry A, 2015, 3, 15324-15330.	5.2	52
111	Directly-Grown Hierarchical Carbon Nanotube@Polypyrrole Core-Shell Hybrid for High-Performance Flexible Supercapacitors. ChemSusChem, 2016, 9, 370-378.	3.6	52
112	Nitrogen-Functionalized Graphene Nanoflakes (GNFs:N): Tunable Photoluminescence and Electronic Structures. Journal of Physical Chemistry C, 2012, 116, 16251-16258.	1.5	51
113	Thickness-Dependent Binding Energy Shift in Few-Layer MoS <sub>2</sub> Grown by Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2016, 8, 22637-22646.	4.0	51
114	Strong luminescence from strain relaxed InGaN/GaN nanotips for highly efficient light emitters. Optics Express, 2007, 15, 9357.	1.7	50
115	Size-dependent persistent photocurrent and surface band bending in axial GaN nanowires. Physical Review B, 2011, 84, .	1.1	50
116	A stable silicon/graphene composite using solvent exchange method as anode material for lithium ion batteries. Carbon, 2013, 63, 397-403.	5.4	50
117	Multiphonon Raman scattering in GaN nanowires. Applied Physics Letters, 2007, 90, 213104.	1.5	49
118	Functionalized GaN nanowire-based electrode for direct label-free voltammetric detection of DNA hybridization. Journal of Materials Chemistry, 2009, 19, 928.	6.7	48
119	Imaging layer number and stacking order through formulating Raman fingerprints obtained from hexagonal single crystals of few layer graphene. Nanotechnology, 2013, 24, 015702.	1.3	48
120	Flexible sensor for dopamine detection fabricated by the direct growth of Fe <sub>3</sub> O <sub>4</sub> nanoparticles on carbon cloth. Applied Surface Science, 2018, 427, 387-395.	3.1	47
121	Infrared lasing in InN nanobelts. Applied Physics Letters, 2007, 90, 123109.	1.5	46
122	Microwave-activated CuO nanotip/ZnO nanorod nanoarchitectures for efficient hydrogen production. Journal of Materials Chemistry, 2011, 21, 324-326.	6.7	46
123	Ultrasensitive Gas Sensors Based on Vertical Graphene Nanowalls/SiC/Si Heterostructure. ACS Sensors, 2019, 4, 406-412.	4.0	46
124	Controlled growth of silicon carbide nanorods by rapid thermal process and their field emission properties. Chemical Physics Letters, 2003, 379, 155-161.	1.2	45
125	Luminescence properties of wurtzite AlN nanotips. Applied Physics Letters, 2006, 89, 163127.	1.5	45
126	Molecule-modulated photoconductivity and gain-amplified selective gas sensing in polar GaN nanowires. Applied Physics Letters, 2009, 95, 233119.	1.5	45



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127	Deposition of silicon carbon nitride films by ion beam sputtering. <i>Thin Solid Films</i> , 1999, 355-356, 417-422.	0.8	44
128	Structural evolution of AlN nano-structures: Nanotips and nanorods. <i>Chemical Physics Letters</i> , 2006, 418, 152-157.	1.2	44
129	Metal-free four-in-one modification of g-C <sub>3</sub> N <sub>4</sub> for superior photocatalytic CO <sub>2</sub> reduction and H <sub>2</sub> evolution. <i>Chemical Engineering Journal</i> , 2022, 430, 132853.	6.6	44
130	Growth of highly transparent nanocrystalline diamond films and a spectroscopic study of the growth. <i>Journal of Applied Physics</i> , 2001, 89, 753-759.	1.1	43
131	Laser irradiation of carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2001, 72, 218-222.	2.0	42
132	Spectroscopic studies of nitrogenated amorphous carbon films prepared by ion beam sputtering. <i>Journal of Applied Physics</i> , 2002, 91, 4944-4955.	1.1	42
133	Mechanism of enhanced luminescence in In <sub>x</sub> Al <sub>y</sub> Ga <sub>1-x-y</sub> N quaternary epilayers. <i>Applied Physics Letters</i> , 2004, 84, 1480-1482.	1.5	42
134	Effects of nitrogen-doping on the microstructure, bonding and electrochemical activity of carbon nanotubes. <i>Diamond and Related Materials</i> , 2009, 18, 433-437.	1.8	42
135	Synergistic optimization of thermoelectric performance of Sb doped GeTe with a strained domain and domain boundaries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5332-5341.	5.2	42
136	Co <sub>3</sub> V <sub>2</sub> O <sub>8</sub> hollow spheres with mesoporous walls as high-capacitance electrode for hybrid supercapacitor device. <i>Chemical Engineering Journal</i> , 2022, 436, 135225.	6.6	42
137	High current density field emission from arrays of carbon nanotubes and diamond-clad Si tips. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000, 18, 1207.	1.6	41
138	A first principles study of the optical properties of B <sub>x</sub> C <sub>y</sub> single wall nanotubes. <i>Carbon</i> , 2007, 45, 1482-1491.	5.4	41
139	Surface optical Raman modes in InN nanostructures. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	41
140	First principles calculations of the optical properties of C <sub>x</sub> N <sub>y</sub> single walled nanotubes. <i>Nanotechnology</i> , 2009, 20, 175701.	1.3	41
141	Highly efficient nitrogen and carbon coordinated Ni-Co electrocatalysts on reduced graphene oxide derived from vitamin-B12 for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7179-7185.	5.2	41
142	Band-gap dependence of field emission from one-dimensional nanostructures grown on n-type and p-type silicon substrates. <i>Physical Review B</i> , 2003, 68, .	1.1	40
143	Edge promoted ultrasensitive electrochemical detection of organic bio-molecules on epitaxial graphene nanowalls. <i>Biosensors and Bioelectronics</i> , 2015, 70, 137-144.	5.3	40
144	Electronic structure of GaN nanowire studied by x-ray-absorption spectroscopy and scanning photoelectron microscopy. <i>Applied Physics Letters</i> , 2003, 82, 3949-3951.	1.5	39

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145	Effect of temperature annealing on capacitive and structural properties of hydrous ruthenium oxides. <i>Journal of Power Sources</i> , 2006, 160, 1506-1510.	4.0	39
146	Structural and optical properties of single crystal Zn <sub>1-x</sub> Mg <sub>x</sub> O nanorods. Experimental and theoretical studies. <i>Journal of Applied Physics</i> , 2007, 101, 033502.	1.1	39
147	Enhanced Charge Separation by Sieve Layer Mediation in High Efficiency Inorganic-Organic Solar Cells. <i>Advanced Materials</i> , 2009, 21, 759-763.	11.1	39
148	Hexagonal-to-cubic phase transformation in GaN nanowires by Ga <sup>+</sup> implantation. <i>Applied Physics Letters</i> , 2004, 84, 5473-5475.	1.5	38
149	Cluster size and composition variations in yellow and red light-emitting InGaN thin films upon thermal annealing. <i>Journal of Applied Physics</i> , 2004, 95, 5388-5396.	1.1	37
150	Electronic structure modulation of isolated Co-N <sub>4</sub> electrocatalyst by sulfur for improved pH-universal hydrogen evolution reaction. <i>Nano Energy</i> , 2021, 80, 105544.	8.2	37
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