Li-Chyong Chen

List of Publications by Year
in descending order

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444 papers	22,057 citations	10979 71 h-index	13758 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. Nature Nanotechnology, 2007, 2, 770-774.	15.6	1,022
2	Tunable Photoluminescence from Graphene Oxide. Angewandte Chemie - International Edition, 2012, 51, 6662-6666.	7.2	584
3	Anti-reflecting and photonic nanostructures. Materials Science and Engineering Reports, 2010, 69, 1-35.	14.8	531
4	Conducting polymerâ€based flexible supercapacitor. Energy Science and Engineering, 2015, 3, 2-26.	1.9	516
5	Catalytic Growth and Characterization of Gallium Nitride Nanowires. Journal of the American Chemical Society, 2001, 123, 2791-2798.	6.6	504
6	Graphene oxide as a promising photocatalyst for CO₂to methanol conversion. Nanoscale, 2013, 5, 262-268.	2.8	424
7	DNAâ^'Gold Nanorod Conjugates for Remote Control of Localized Gene Expression by near Infrared Irradiation. Journal of the American Chemical Society, 2006, 128, 3709-3715.	6.6	411
8	Carbon-doped SnS2 nanostructure as a high-efficiency solar fuel catalyst under visible light. Nature Communications, 2018, 9, 169.	5.8	350
9	Heterostructures of ZnOâ€“Zn coaxial nanocables and ZnO nanotubes. Applied Physics Letters, 2002, 81, 1312-1314.	1.5	346
10	Controlling the Oxidation State of the Cu Electrode and Reaction Intermediates for Electrochemical CO₂ Reduction to Ethylene. Journal of the American Chemical Society, 2020, 142, 2857-2867.	6.6	342
11	Flexible supercapacitor based on polyaniline nanowires/carbon cloth with both high gravimetric and area-normalized capacitance. Journal of Power Sources, 2010, 195, 4418-4422.	4.0	312
12	Highly Efficient Visible Light Photocatalytic Reduction of CO₂ to Hydrocarbon Fuels by Cu-Nanoparticle Decorated Graphene Oxide. Nano Letters, 2014, 14, 6097-6103.	4.5	312
13	Polymer Structure and Solvent Effects on the Selective Dispersion of Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2008, 130, 3543-3553.	6.6	287
14	Elastic, mechanical, and thermal properties of nanocrystalline diamond films. Journal of Applied Physics, 2003, 93, 2164-2171.	1.1	285
15	Calorimetric evidence for the micro-quasicrystalline structure of 'amorphous' Al/transition metal alloys. Nature, 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. Progress in Materials Science, 2013, 58, 565-635.	16.0	276
17	Photosensitive gold-nanoparticle-embedded dielectric nanowires. Nature Materials, 2006, 5, 102-106.	13.3	258
18	Band Gap Engineering of Chemical Vapor Deposited Graphene by in Situ BN Doping. ACS Nano, 2013, 7, 1333-1341.	7.3	252

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19	Analysis of calorimetric measurements of grain growth. Journal of Applied Physics, 1991, 69, 679-688.	1.1	248
20	Complete Corrosion Inhibition through Graphene Defect Passivation. ACS Nano, 2014, 8, 443-448.	7.3	225
21	Highly flexible supercapacitors with manganese oxide nanosheet/carbon cloth electrode. Electrochimica Acta, 2011, 56, 7124-7130.	2.6	224
22	Ultrafine Platinum Nanoparticles Uniformly Dispersed on Arrayed CNx Nanotubes with High Electrochemical Activity. Chemistry of Materials, 2005, 17, 3749-3753.	3.2	206
23	Reversible phase transformation of MnO₂nanosheets in an electrochemical capacitor investigated by in situRaman spectroscopy. Chemical Communications, 2011, 47, 1252-1254.	2.2	196
24	Selective-area growth of indium nitride nanowires on gold-patterned Si(100) substrates. Applied Physics Letters, 2002, 81, 22-24.	1.5	195
25	Top Laminated Graphene Electrode in a Semitransparent Polymer Solar Cell by Simultaneous Thermal Annealing/Releasing Method. ACS Nano, 2011, 5, 6564-6570.	7.3	188
26	5nm ruthenium thin film as a directly plateable copper diffusion barrier. Applied Physics Letters, 2005, 86, 083104.	1.5	167
27	Crystalline silicon carbon nitride: A wide band gap semiconductor. Applied Physics Letters, 1998, 72, 2463-2465.	1.5	162
28	Anomalous blueshift in emission spectra of ZnO nanorods with sizes beyond quantum confinement regime. Applied Physics Letters, 2006, 88, 241905.	1.5	158
29	Generally Applicable Self-Masked Dry Etching Technique for Nanotip Array Fabrication. Nano Letters, 2004, 4, 471-475.	4.5	147
30	Novel Iron Oxyhydroxide Lepidocrocite Nanosheet as Ultrahigh Power Density Anode Material for Asymmetric Supercapacitors. Small, 2014, 10, 3803-3810.	5.2	143
31	Synthesis and Characterization of Coreâ^'Shell GaP@GaN and GaN@GaP Nanowires. Nano Letters, 2003, 3, 537-541.	4.5	136
32	Electroluminescence from ZnO nanowire/polymer composite p-n junction. Applied Physics Letters, 2006, 88, 173503.	1.5	135
33	Ultrahigh photocurrent gain in m-axial GaN nanowires. Applied Physics Letters, 2007, 91, .	1.5	134
34	High performance of low electrocatalysts loading on CNT directly grown on carbon cloth for DMFC. Journal of Power Sources, 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. Analytical Chemistry, 2011, 83, 1938-1943.	3.2	129
36	Visible-light-driven photocatalytic carbon-doped porous ZnO nanoarchitectures for solar water-splitting. Nanoscale, 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. Journal of Materials Chemistry, 2012, 22, 3383.	6.7	126
38	Quantum Confinement Effect in Diamond Nanocrystals Studied by X-Ray-Absorption Spectroscopy. Physical Review Letters, 1999, 82, 5377-5380.	2.9	118
39	Niâ€Nanocluster Modified Black TiO₂ with Dual Active Sites for Selective Photocatalytic CO₂ Reduction. Small, 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. Energy and Environmental Science, 2012, 5, 5305-5314.	15.6	115
41	Boosting photocatalytic CO2 reduction in a ZnS/ZnIn2S4 heterostructure through strain-induced direct Z-scheme and a mechanistic study of molecular CO2 interaction thereon. Nano Energy, 2022, 93, 106809.	8.2	110
42	Binder-free rice husk-based siliconâ€“graphene composite as energy efficient Li-ion battery anodes. Journal of Materials Chemistry A, 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. ACS Sustainable Chemistry and Engineering, 2017, 5, 367-375.	3.2	109
44	Formation of crystalline silicon carbon nitride films by microwave plasma-enhanced chemical vapor deposition. Diamond and Related Materials, 1996, 5, 514-518.	1.8	104
45	Plasmonic Ag@Ag3(PO4)1â^'x nanoparticle photosensitized ZnO nanorod-array photoanodes for water oxidation. Energy and Environmental Science, 2012, 5, 8917.	15.6	103
46	The affinity of Siâ€“N and Siâ€“C bonding in amorphous silicon carbon nitride (a-SiCN) thin film. Diamond and Related Materials, 2005, 14, 1126-1130.	1.8	102
47	High photocurrent gain in SnO2 nanowires. Applied Physics Letters, 2008, 93, 112115.	1.5	101
48	Growth of Single-Crystalline Wurtzite Aluminum Nitride Nanotips with a Self-Selective Apex Angle. Advanced Functional Materials, 2005, 15, 781-786.	7.8	98
49	Pyrolyzed Cobalt Corrole as a Potential Nonâ€Precious Catalyst for Fuel Cells. Advanced Functional Materials, 2012, 22, 3500-3508.	7.8	97
50	Atomic-Scale Deformation in N-Doped Carbon Nanotubes. Journal of the American Chemical Society, 2006, 128, 8368-8369.	6.6	96
51	Multi-porous Co₃O₄ nanoflakes @ sponge-like few-layer partially reduced graphene oxide hybrids: towards highly stable asymmetric supercapacitors. Journal of Materials Chemistry A, 2017, 5, 12569-12577.	5.2	96
52	Surface-Enhanced Raman Spectroscopy Using Self-Assembled Silver Nanoparticles on Silicon Nanotips. Chemistry of Materials, 2005, 17, 553-559.	3.2	93
53	Low methanol-permeable polyaniline/Nafion composite membrane for direct methanol fuel cells. Journal of Power Sources, 2009, 190, 279-284.	4.0	91
54	Birnessite-type manganese oxides nanosheets with hole acceptor assisted photoelectrochemical activity in response to visible light. Journal of Materials Chemistry, 2012, 22, 2733-2739.	6.7	89

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55	Beaded stream-like CoSe₂ nanoneedle array for efficient hydrogen evolution electrocatalysis. Journal of Materials Chemistry A, 2016, 4, 4553-4561.	5.2	89
56	SiC-capped nanotip arrays for field emission with ultralow turn-on field. Applied Physics Letters, 2003, 83, 1420-1422.	1.5	88
57	Growth mechanism, structure and IR photoluminescence studies of indium nitride nanorods. Journal of Crystal Growth, 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. Nanotechnology, 2010, 21, 465705.	1.3	86
59	Design for Approaching Cicada-Wing Reflectance in Low- and High-Index Biomimetic Nanostructures. ACS Nano, 2015, 9, 301-311.	7.3	86
60	Crystalline SiCN: a hard material rivals to cubic BN. Thin Solid Films, 1999, 355-356, 112-116.	0.8	84
61	Arrayed CNx NTâ€“RuO2 nanocomposites directly grown on Ti-buffered Si substrate for supercapacitor applications. Electrochemistry Communications, 2007, 9, 239-244.	2.3	84
62	Label-Free Dual Sensing of DNA Molecules Using GaN Nanowires. Analytical Chemistry, 2009, 81, 36-42.	3.2	84
63	Electroluminescence from ZnO/Si-Nanotips Light-Emitting Diodes. Nano Letters, 2009, 9, 1839-1843.	4.5	83
64	Field emission from quasi-aligned SiCN nanorods. Applied Physics Letters, 2000, 76, 2630-2632.	1.5	81
65	Composition of SiCN crystals consisting of a predominantly carbon-nitride network. Journal of Materials Research, 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. Nature Communications, 2020, 11, 4233.	5.8	80
67	Si-containing crystalline carbon nitride derived from microwave plasma-enhanced chemical vapor deposition. Thin Solid Films, 1997, 303, 66-75.	0.8	76
68	Fast growth of large-grain and continuous MoS2 films through a self-capping vapor-liquid-solid method. Nature Communications, 2020, 11, 3682.	5.8	76
69	Nanotips: Growth, Model, and Applications. Critical Reviews in Solid State and Materials Sciences, 2006, 31, 15-53.	6.8	75
70	Mechanism of luminescence in InGaN/GaN multiple quantum wells. Applied Physics Letters, 2000, 76, 3712-3714.	1.5	73
71	Fluorescent Organic Nanoparticles of Benzofuranâ^'Naphthyridine Linked Molecules:â€‰ Formation and Fluorescence Enhancement in Aqueous Media. Organic Letters, 2006, 8, 3713-3716.	2.4	73
72	Controlled platinum nanoparticles uniformly dispersed on nitrogen-doped carbon nanotubes for methanol oxidation. Diamond and Related Materials, 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. Physical Review B, 2010, 81, .	1.1	72
74	Bifacial sodium-incorporated treatments: Tailoring deep traps and enhancing carrier transport properties in Cu2ZnSnS4 solar cells. Nano Energy, 2015, 16, 438-445.	8.2	70
75	Micro-Raman for diamond film stress analysis. Diamond and Related Materials, 1995, 4, 460-463.	1.8	69
76	Nanohomojunction (GaN) and Nanoheterojunction (InN) Nanorods on One-Dimensional GaN Nanowire Substrates. Advanced Functional Materials, 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. Advanced Functional Materials, 2002, 12, 687-692.	7.8	67
78	Direct-growth of polyaniline nanowires for enzyme-immobilization and glucose detection. Electrochemistry Communications, 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. Analytical Chemistry, 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. Diamond and Related Materials, 2012, 25, 176-179.	1.8	67
81	Vertically aligned epitaxial graphene nanowalls with dominated nitrogen doping for superior supercapacitors. Carbon, 2015, 82, 124-134.	5.4	67
82	Onâ€Chip Fabrication of Wellâ€Aligned and Contactâ€Barrierâ€Free GaN Nanobridge Devices with Ultrahigh Photocurrent Responsivity. Small, 2008, 4, 925-929.	5.2	65
83	Growth and Optical Properties of Self-Organized Au2Si Nanospheres Pea-Podded in a Silicon Oxide Nanowire. Advanced Materials, 2002, 14, 1847-1850.	11.1	63
84	Enhanced dynamic annealing in Ga+ ion-implanted GaN nanowires. Applied Physics Letters, 2003, 82, 451-453.	1.5	63
85	Nanostructured Zinc Oxide Nanorods with Copper Nanoparticles as a Microreformation Catalyst. Angewandte Chemie - International Edition, 2009, 48, 7586-7590.	7.2	63
86	Transport properties of InN nanowires. Applied Physics Letters, 2005, 87, 093112.	1.5	62
87	Transparent, Broadband, Flexible, and Bifacial-Operable Photodetectors Containing a Large-Area Grapheneâ€“Gold Oxide Heterojunction. ACS Nano, 2015, 9, 5093-5103.	7.3	62
88	Wide band gap silicon carbon nitride films deposited by electron cyclotron resonance plasma chemical vapor deposition. Thin Solid Films, 1999, 355-356, 205-209.	0.8	61
89	Field emission from quasi-aligned aluminum nitride nanotips. Applied Physics Letters, 2005, 87, 073109.	1.5	61
90	Electrical transport properties of single GaN and InN nanowires. Journal of Electronic Materials, 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. Advanced Functional Materials, 2006, 16, 537-541.	7.8	61
92	Prestrained effect on the emission properties of InGaNâˆ•GaN quantum-well structures. Applied Physics Letters, 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. Journal of Power Sources, 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. Applied Physics Letters, 2004, 84, 2506-2508.	1.5	59
95	One-Dimensional Group III-Nitrides: Growth, Properties, and Applications in Nanosensing and Nano-Optoelectronics. Critical Reviews in Solid State and Materials Sciences, 2009, 34, 224-279.	6.8	59
96	Integrated nano-architectured photocatalysts for photochemical CO₂ reduction. Nanoscale, 2020, 12, 23301-23332.	2.8	59
97	Effects of cathode buffer layers on the efficiency of bulk-heterojunction solar cells. Applied Physics Letters, 2010, 96, .	1.5	58
98	Optical properties and photoconductivity of amorphous silicon carbon nitride thin film and its application for UV detection. Diamond and Related Materials, 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. Electrochimica Acta, 2006, 52, 1612-1617.	2.6	57
100	Direct voltammetric sensing of l-Cysteine at pristine GaN nanowires electrode. Biosensors and Bioelectronics, 2010, 26, 1688-1691.	5.3	57
101	Enhanced thermoelectric performance of GeTe through in situ microdomain and Ge-vacancy control. Journal of Materials Chemistry A, 2019, 7, 15181-15189.	5.2	56
102	A mechanistic study of molecular CO2 interaction and adsorption on carbon implanted SnS2 thin film for photocatalytic CO2 reduction activity. Nano Energy, 2020, 72, 104717.	8.2	55
103	Structure and elastic properties of amorphous silicon carbon nitride films. Physical Review B, 2001, 64, .	1.1	54
104	Electronic structure of the carbon nanotube tips studied by x-ray-absorption spectroscopy and scanning photoelectron microscopy. Applied Physics Letters, 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. Physical Review B, 2007, 75, .	1.1	54
106	KSCN-induced Interfacial Dipole in Black TiO₂ for Enhanced Photocatalytic CO₂ Reduction. ACS Applied Materials & Interfaces, 2019, 11, 25186-25194.	4.0	54
107	High-gain photoconductivity in semiconducting InN nanowires. Applied Physics Letters, 2009, 95, .	1.5	52
108	Coalescence overgrowth of GaN nanocolumns on sapphire with patterned metal organic vapor phase epitaxy. Journal of Applied Physics, 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 solâ€“gel Cu₂ZnSnS₄ thin film for high efficiency and scalable low-cost photovoltaic cells. Journal of Materials Chemistry A, 2015, 3, 15324-15330.	5.2	52
111	Directlyâ€Grown Hierarchical Carbon Nanotube@Polypyrrole Coreâ€“Shell Hybrid for Highâ€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 MoS₂ 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 inm-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 Î±-Fe2O3 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. Thin Solid Films, 1999, 355-356, 417-422.	0.8	44
128	Structural evolution of AlN nano-structures: Nanotips and nanorods. Chemical Physics Letters, 2006, 418, 152-157.	1.2	44
129	Metal-free four-in-one modification of g-C3N4 for superior photocatalytic CO2 reduction and H2 evolution. Chemical Engineering Journal, 2022, 430, 132853.	6.6	44
130	Growth of highly transparent nanocrystalline diamond films and a spectroscopic study of the growth. Journal of Applied Physics, 2001, 89, 753-759.	1.1	43
131	Laser irradiation of carbon nanotubes. Materials Chemistry and Physics, 2001, 72, 218-222.	2.0	42
132	Spectroscopic studies of nitrogenated amorphous carbon films prepared by ion beam sputtering. Journal of Applied Physics, 2002, 91, 4944-4955.	1.1	42
133	Mechanism of enhanced luminescence in InxAlyGa1â^'xâ^'yN quaternary epilayers. Applied Physics Letters, 2004, 84, 1480-1482.	1.5	42
134	Effects of nitrogen-doping on the microstructure, bonding and electrochemical activity of carbon nanotubes. Diamond and Related Materials, 2009, 18, 433-437.	1.8	42
135	Synergistic optimization of thermoelectric performance of Sb doped GeTe with a strained domain and domain boundaries. Journal of Materials Chemistry A, 2020, 8, 5332-5341.	5.2	42
136	Co3V2O8 hollow spheres with mesoporous walls as high-capacitance electrode for hybrid supercapacitor device. Chemical Engineering Journal, 2022, 436, 135225.	6.6	42
137	High current density field emission from arrays of carbon nanotubes and diamond-clad Si tips. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 1207.	1.6	41
138	A first principles study of the optical properties of BxCy single wall nanotubes. Carbon, 2007, 45, 1482-1491.	5.4	41
139	Surface optical Raman modes in InN nanostructures. Applied Physics Letters, 2008, 93, .	1.5	41
140	First principles calculations of the optical properties of CxNysingle walled nanotubes. Nanotechnology, 2009, 20, 175701.	1.3	41
141	Highly efficient nitrogen and carbon coordinated Nâ€“Coâ€“C electrocatalysts on reduced graphene oxide derived from vitamin-B12 for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 7179-7185.	5.2	41
142	Band-gap dependence of field emission from one-dimensional nanostructures grown onn-type andp-type silicon substrates. Physical Review B, 2003, 68, .	1.1	40
143	Edge promoted ultrasensitive electrochemical detection of organic bio-molecules on epitaxial graphene nanowalls. Biosensors and Bioelectronics, 2015, 70, 137-144.	5.3	40
144	Electronic structure of GaN nanowire studied by x-ray-absorption spectroscopy and scanning photoelectron microscopy. Applied Physics Letters, 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. Journal of Power Sources, 2006, 160, 1506-1510.	4.0	39
146	Structural and optical properties of single crystal Zn1â^'xMgxO nanorodsâ€"Experimental and theoretical studies. Journal of Applied Physics, 2007, 101, 033502.	1.1	39
147	Enhanced Charge Separation by Sieveâ€Layer Mediation in Highâ€Efficiency Inorganicâ€Organic Solar Cells. Advanced Materials, 2009, 21, 759-763.	11.1	39
148	Hexagonal-to-cubic phase transformation in GaN nanowires by Ga+ implantation. Applied Physics Letters, 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. Journal of Applied Physics, 2004, 95, 5388-5396.	1.1	37
150	Electronic structure modulation of isolated Co-N4 electrocatalyst by sulfur for improved pH-universal hydrogen evolution reaction. Nano Energy, 2021, 80, 105544.	8.2	37
151	Temperature dependence of the direct band gap of Si-containing carbon nitride crystalline films. Physical Review B, 1997, 56, 6498-6501.	1.1	36
152	Structure and properties of C60â€"Pd films formed by electroreduction of C60 and palladium(ii) acetate trimer: evidence for the presence of palladium nanoparticles. Journal of Materials Chemistry, 2003, 13, 518-525.	6.7	36
153	Molecular Sensing with Ultrafine Silver Crystals on Hexagonal Aluminum Nitride Nanorod Templates. Journal of the American Chemical Society, 2005, 127, 2820-2821.	6.6	36
154	Hydrogen in InN: A ubiquitous phenomenon in molecular beam epitaxy grown material. Applied Physics Letters, 2010, 96, .	1.5	36
155	Label free sub-picomole level DNA detection with Ag nanoparticle decorated Au nanotip arrays as surface enhanced Raman spectroscopy platform. Biosensors and Bioelectronics, 2011, 26, 2413-2418.	5.3	36
156	Effect of Copper Oxide Oxidation State on the Polymer-Based Solar Cell Buffer Layers. ACS Applied Materials & Interfaces, 2014, 6, 22445-22450.	4.0	36
157	How to use calorimetry to distinguish a microcrystalline structure from an amorphous structure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 133, 342-345.	2.6	35
158	The use of a biomolecular target for crystalline carbon nitride film deposition by Ar ion-beam sputtering without any other source of nitrogen. Applied Physics Letters, 1998, 72, 3449-3451.	1.5	35
159	Selective-hydrogen sensing at room temperature with Pt-coated InN nanobelts. Applied Physics Letters, 2008, 93, .	1.5	35
160	Atomistic nucleation sites of Pt nanoparticles on N-doped carbon nanotubes. Nanoscale, 2013, 5, 6812.	2.8	35
161	Multicolor Ultralowâ€Threshold Random Laser Assisted by Verticalâ€Graphene Network. Advanced Optical Materials, 2018, 6, 1800382.	3.6	35
162	Atomistic insights into highly active reconstructed edges of monolayer 2H-WSe2 photocatalyst. Nature Communications, 2022, 13, 1256.	5.8	35

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163	Electronic and atomic structures of the Si-C-N thin film by x-ray-absorption spectroscopy and theoretical calculations. Physical Review B, 1998, 58, 9018-9024.	1.1	34
164	Size-dependent photoconductivity and dark conductivity of m-axial GaN nanowires with small critical diameter. Applied Physics Letters, 2009, 95, .	1.5	34
165	High performance of catalysts supported by directly grown PTFE-free micro-porous CNT layer in a proton exchange membrane fuel cell. Journal of Materials Chemistry, 2011, 21, 2512.	6.7	34
166	Graphene nanosheetâ€“CNT hybrid nanostructure electrode for a proton exchange membrane fuel cell. International Journal of Hydrogen Energy, 2012, 37, 18989-18995.	3.8	34
167	Blueshift of yellow luminescence band in self-ion-implanted n-GaN nanowire. Applied Physics Letters, 2004, 84, 3486-3488.	1.5	33
168	Chloroboron subphthalocyanine/C60 planar heterojunction organic solar cell with N,N-dicarbazolyl-3,5-benzene blocking layer. Solar Energy Materials and Solar Cells, 2014, 122, 264-270.	3.0	33
169	Near infrared photodetector based on polymer and indium nitride nanorod organic/inorganic hybrids. Scripta Materialia, 2010, 63, 653-656.	2.6	31
170	The production of SiC nanowalls sheathed with a few layers of strained graphene and their use in heterogeneous catalysis and sensing applications. Carbon, 2011, 49, 4911-4919.	5.4	31
171	Traveling wave method for measurement of thermal conductivity of thin films. Review of Scientific Instruments, 1997, 68, 4180-4183.	0.6	30
172	Highly transparent nano-crystalline diamond films via substrate pretreatment and methane fraction optimization. Thin Solid Films, 1998, 332, 34-39.	0.8	30
173	Quasiquenching size effects in gold nanoclusters embedded in silica matrix. Chemical Physics Letters, 2003, 370, 254-260.	1.2	30
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