

K-H Chen

List of Publications by Year in descending order

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508
papers

22,601
citations

9756

73
h-index

15218

126
g-index

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all docs

515
docs citations

515
times ranked

25862
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 ₂ to methanol conversion. <i>Nanoscale</i> , 2013, 5, 262-268.	2.8	424
7	Carbon-doped SnS ₂ nanostructure as a high-efficiency solar fuel catalyst under visible light. <i>Nature Communications</i> , 2018, 9, 169.	5.8	350
8	Heterostructures of ZnO/Zn coaxial nanocables and ZnO nanotubes. <i>Applied Physics Letters</i> , 2002, 81, 1312-1314.	1.5	346
9	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
10	Highly Efficient Visible Light Photocatalytic Reduction of CO ₂ to Hydrocarbon Fuels by Cu-Nanoparticle Decorated Graphene Oxide. <i>Nano Letters</i> , 2014, 14, 6097-6103.	4.5	312
11	Multi-wall carbon nanotubes coated with polyaniline. <i>Polymer</i> , 2006, 47, 5715-5723.	1.8	286
12	Elastic, mechanical, and thermal properties of nanocrystalline diamond films. <i>Journal of Applied Physics</i> , 2003, 93, 2164-2171.	1.1	285
13	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
14	Photosensitive gold-nanoparticle-embedded dielectric nanowires. <i>Nature Materials</i> , 2006, 5, 102-106.	13.3	258
15	Quantum Dot Monolayer Sensitized ZnO Nanowire Array Photoelectrodes: True Efficiency for Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5966-5969.	7.2	254
16	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
17	Highly flexible supercapacitors with manganese oxide nanosheet/carbon cloth electrode. <i>Electrochimica Acta</i> , 2011, 56, 7124-7130.	2.6	224
18	Ultrafine Platinum Nanoparticles Uniformly Dispersed on Arrayed CN _x Nanotubes with High Electrochemical Activity. <i>Chemistry of Materials</i> , 2005, 17, 3749-3753.	3.2	206

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19	Reversible phase transformation of MnO ₂ nanosheets in an electrochemical capacitor investigated by in situ Raman spectroscopy. <i>Chemical Communications</i> , 2011, 47, 1252-1254.	2.2	196
20	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
21	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
22	Replication of Mesoporous Aluminosilicate Molecular Sieves (RMMs) with Zeolite Framework from Mesoporous Carbons (CMKs). <i>Chemistry of Materials</i> , 2004, 16, 3168-3175.	3.2	175
23	5nm ruthenium thin film as a directly plateable copper diffusion barrier. <i>Applied Physics Letters</i> , 2005, 86, 083104.	1.5	167
24	Crystalline silicon carbon nitride: A wide band gap semiconductor. <i>Applied Physics Letters</i> , 1998, 72, 2463-2465.	1.5	162
25	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
26	Generally Applicable Self-Masked Dry Etching Technique for Nanotip Array Fabrication. <i>Nano Letters</i> , 2004, 4, 471-475.	4.5	147
27	Novel Iron Oxyhydroxide Lepidocrocite Nanosheet as Ultrahigh Power Density Anode Material for Asymmetric Supercapacitors. <i>Small</i> , 2014, 10, 3803-3810.	5.2	143
28	Synthesis and Characterization of Core-Shell GaP@GaN and GaN@GaP Nanowires. <i>Nano Letters</i> , 2003, 3, 537-541.	4.5	136
29	Electroluminescence from ZnO nanowire/polymer composite p-n junction. <i>Applied Physics Letters</i> , 2006, 88, 173503.	1.5	135
30	Ultrahigh photocurrent gain in m-axial GaN nanowires. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	134
31	Integration of a (Cu) _n plane in a metal-organic framework affords high electrical conductivity. <i>Nature Communications</i> , 2019, 10, 1721.	5.8	134
32	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
33	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
34	Visible-light-driven photocatalytic carbon-doped porous ZnO nanoarchitectures for solar water-splitting. <i>Nanoscale</i> , 2012, 4, 6515.	2.8	126
35	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
36	Quantum Confinement Effect in Diamond Nanocrystals Studied by X-Ray-Absorption Spectroscopy. <i>Physical Review Letters</i> , 1999, 82, 5377-5380.	2.9	118

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37	Ni Nanocluster Modified Black TiO ₂ with Dual Active Sites for Selective Photocatalytic CO ₂ Reduction. <i>Small</i> , 2018, 14, 1702928.	5.2	116
38	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
39	Boosting photocatalytic CO ₂ reduction in a ZnS/ZnIn ₂ S ₄ heterostructure through strain-induced direct Z-scheme and a mechanistic study of molecular CO ₂ interaction thereon. <i>Nano Energy</i> , 2022, 93, 106809.	8.2	110
40	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
41	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
42	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
43	Temperature and concentration distribution of H ₂ and H atoms in hot-filament chemical vapor deposition of diamond. <i>Journal of Applied Physics</i> , 1992, 71, 1485-1493.	1.1	103
44	Plasmonic Ag@Ag ₃ (PO ₄) ₂ nanoparticle photosensitized ZnO nanorod-array photoanodes for water oxidation. <i>Energy and Environmental Science</i> , 2012, 5, 8917.	15.6	103
45	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
46	High photocurrent gain in SnO ₂ nanowires. <i>Applied Physics Letters</i> , 2008, 93, 112115.	1.5	101
47	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
48	Pyrolyzed Cobalt Corrole as a Potential Non-Precious Catalyst for Fuel Cells. <i>Advanced Functional Materials</i> , 2012, 22, 3500-3508.	7.8	97
49	Atomic-Scale Deformation in N-Doped Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2006, 128, 8368-8369.	6.6	96
50	Multi-porous Co ₃ O ₄ 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
51	Surface-Enhanced Raman Spectroscopy Using Self-Assembled Silver Nanoparticles on Silicon Nanotips. <i>Chemistry of Materials</i> , 2005, 17, 553-559.	3.2	93
52	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
53	Near-field images of the AgOx-type super-resolution near-field structure. <i>Applied Physics Letters</i> , 2001, 78, 685-687.	1.5	90
54	Photocatalytic CdSe QDs-decorated ZnO nanotubes: an effective photoelectrode for splitting water. <i>Chemical Communications</i> , 2011, 47, 3493.	2.2	90

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55	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
56	Beaded stream-like CoSe ₂ nanoneedle array for efficient hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4553-4561.	5.2	89
57	SiC-capped nanotip arrays for field emission with ultralow turn-on field. <i>Applied Physics Letters</i> , 2003, 83, 1420-1422.	1.5	88
58	Growth mechanism, structure and IR photoluminescence studies of indium nitride nanorods. <i>Journal of Crystal Growth</i> , 2004, 269, 87-94.	0.7	88
59	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
60	A New Approach to Solar Hydrogen Production: a ZnO/ZnS Solid Solution Nanowire Array Photoanode. <i>Advanced Energy Materials</i> , 2011, 1, 742-747.	10.2	86
61	Design for Approaching Cicada-Wing Reflectance in Low- and High-Index Biomimetic Nanostructures. <i>ACS Nano</i> , 2015, 9, 301-311.	7.3	86
62	Crystalline SiCN: a hard material rivals to cubic BN. <i>Thin Solid Films</i> , 1999, 355-356, 112-116.	0.8	84
63	Arrayed CNx NT/RuO ₂ nanocomposites directly grown on Ti-buffered Si substrate for supercapacitor applications. <i>Electrochemistry Communications</i> , 2007, 9, 239-244.	2.3	84
64	Label-Free Dual Sensing of DNA Molecules Using GaN Nanowires. <i>Analytical Chemistry</i> , 2009, 81, 36-42.	3.2	84
65	Electroluminescence from ZnO/Si-Nanotips Light-Emitting Diodes. <i>Nano Letters</i> , 2009, 9, 1839-1843.	4.5	83
66	Integration of Interfacial and Alloy Effects to Modulate Catalytic Performance of Metal-Organic-Framework-Derived Cu/Pd Nanocrystals toward Hydrogenolysis of 5-Hydroxymethylfurfural. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10349-10362.	3.2	83
67	Field emission from quasi-aligned SiCN nanorods. <i>Applied Physics Letters</i> , 2000, 76, 2630-2632.	1.5	81
68	Composition of SiCN crystals consisting of a predominantly carbon-nitride network. <i>Journal of Materials Research</i> , 1997, 12, 322-325.	1.2	80
69	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
70	Raman spectroscopic studies on the sulfation of cerium oxide. <i>Applied Catalysis B: Environmental</i> , 1997, 12, 309-324.	10.8	77
71	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
72	Fast growth of large-grain and continuous MoS ₂ films through a self-capping vapor-liquid-solid method. <i>Nature Communications</i> , 2020, 11, 3682.	5.8	76

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73	Nanotips: Growth, Model, and Applications. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2006, 31, 15-53.	6.8	75
74	Mechanism of luminescence in InGaN/GaN multiple quantum wells. <i>Applied Physics Letters</i> , 2000, 76, 3712-3714.	1.5	73
75	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
76	Room-temperature negative photoconductivity in degenerate InN thin films with a supergap excitation. <i>Physical Review B</i> , 2010, 81, .	1.1	72
77	Bifacial sodium-incorporated treatments: Tailoring deep traps and enhancing carrier transport properties in Cu ₂ ZnSnS ₄ solar cells. <i>Nano Energy</i> , 2015, 16, 438-445.	8.2	70
78	Micro-Raman for diamond film stress analysis. <i>Diamond and Related Materials</i> , 1995, 4, 460-463.	1.8	69
79	Thermoelectric Properties of Indium and Gallium Dually Doped ZnO Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33916-33923.	4.0	69
80	Nanohomojunction (GaN) and Nanoheterojunction (InN) Nanorods on One-Dimensional GaN Nanowire Substrates. <i>Advanced Functional Materials</i> , 2004, 14, 233-237.	7.8	68
81	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
82	Direct-growth of polyaniline nanowires for enzyme-immobilization and glucose detection. <i>Electrochemistry Communications</i> , 2009, 11, 850-853.	2.3	67
83	Multi-Bandgap-Sensitized ZnO Nanorod Photoelectrode Arrays for Water Splitting: An X-ray Absorption Spectroscopy Approach for the Electronic Evolution under Solar Illumination. <i>Journal of Physical Chemistry C</i> , 2011, 115, 21971-21980.	1.5	67
84	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
85	Vertically aligned epitaxial graphene nanowalls with dominated nitrogen doping for superior supercapacitors. <i>Carbon</i> , 2015, 82, 124-134.	5.4	67
86	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
87	Infrared spectroscopy and vibrational relaxation of CH _x and CD _x stretches on synthetic diamond nanocrystal surfaces. <i>The Journal of Physical Chemistry</i> , 1995, 99, 11081-11088.	2.9	64
88	Growth and Optical Properties of Self-Organized Au ₂ Si Nanospheres Pea-Podded in a Silicon Oxide Nanowire. <i>Advanced Materials</i> , 2002, 14, 1847-1850.	11.1	63
89	Enhanced dynamic annealing in Ga ⁺ ion-implanted GaN nanowires. <i>Applied Physics Letters</i> , 2003, 82, 451-453.	1.5	63
90	Nanostructured Zinc Oxide Nanorods with Copper Nanoparticles as a Microreformation Catalyst. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7586-7590.	7.2	63

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91	A novel membrane reactor for separating hydrogen and oxygen in photocatalytic water splitting. <i>Journal of Membrane Science</i> , 2011, 382, 291-299.	4.1	63
92	Transport properties of InN nanowires. <i>Applied Physics Letters</i> , 2005, 87, 093112.	1.5	62
93	Formation of Pt ⁰ /Ru Nanoparticles in Ethylene Glycol Solution: An in Situ X-ray Absorption Spectroscopy Study. <i>Langmuir</i> , 2007, 23, 5802-5809.	1.6	62
94	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
95	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
96	Field emission from quasi-aligned aluminum nitride nanotips. <i>Applied Physics Letters</i> , 2005, 87, 073109.	1.5	61
97	Electrical transport properties of single GaN and InN nanowires. <i>Journal of Electronic Materials</i> , 2006, 35, 738-743.	1.0	61
98	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
99	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
100	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
101	Integrated nano-architected photocatalysts for photochemical CO ₂ reduction. <i>Nanoscale</i> , 2020, 12, 23301-23332.	2.8	59
102	S-Scheme Fe ₂ O ₃ /g-C ₃ N ₄ Nanocomposites as Heterojunction Photocatalysts for Antibiotic Degradation. <i>ACS Applied Nano Materials</i> , 2022, 5, 4506-4514.	2.4	59
103	Effects of cathode buffer layers on the efficiency of bulk-heterojunction solar cells. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	58
104	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
105	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
106	Direct voltammetric sensing of l-Cysteine at pristine GaN nanowires electrode. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1688-1691.	5.3	57
107	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
108	Polybenzimidazoles containing bulky substituents and ether linkages for high-temperature proton exchange membrane fuel cell applications. <i>Journal of Membrane Science</i> , 2016, 513, 270-279.	4.1	55

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109	A mechanistic study of molecular CO ₂ interaction and adsorption on carbon implanted SnS ₂ thin film for photocatalytic CO ₂ reduction activity. Nano Energy, 2020, 72, 104717.	8.2	55
110	Structure and elastic properties of amorphous silicon carbon nitride films. Physical Review B, 2001, 64, .	1.1	54
111	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
112	KSCN-induced Interfacial Dipole in Black TiO ₂ for Enhanced Photocatalytic CO ₂ Reduction. ACS Applied Materials & Interfaces, 2019, 11, 25186-25194.	4.0	54
113	Growth and characterization of vertically aligned self-assembled IrO ₂ nanotubes on oxide substrates. Journal of Crystal Growth, 2004, 271, 105-112.	0.7	52
114	The CH stretching features on diamonds of different origins. Diamond and Related Materials, 2005, 14, 1455-1462.	1.8	52
115	High-gain photoconductivity in semiconducting InN nanowires. Applied Physics Letters, 2009, 95, .	1.5	52
116	Photoconductivity in single AlN nanowires by subband gap excitation. Applied Physics Letters, 2010, 96, .	1.5	52
117	A nontoxic solvent based sol-gel Cu ₂ ZnSnS ₄ thin film for high efficiency and scalable low-cost photovoltaic cells. Journal of Materials Chemistry A, 2015, 3, 15324-15330.	5.2	52
118	Directly Grown Hierarchical Carbon Nanotube@Polypyrrole Core-Shell Hybrid for High Performance Flexible Supercapacitors. ChemSusChem, 2016, 9, 370-378.	3.6	52
119	Direct Synthesis of Highly Stable Mesoporous Molecular Sieves Containing Zeolite Building Units. Advanced Functional Materials, 2005, 15, 253-258.	7.8	51
120	Nitrogen-Functionalized Graphene Nanoflakes (GNFs:N): Tunable Photoluminescence and Electronic Structures. Journal of Physical Chemistry C, 2012, 116, 16251-16258.	1.5	51
121	Thickness-Dependent Binding Energy Shift in Few-Layer MoS ₂ Grown by Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2016, 8, 22637-22646.	4.0	51
122	Size-dependent persistent photocurrent and surface band bending in axial GaN nanowires. Physical Review B, 2011, 84, .	1.1	50
123	A stable silicon/graphene composite using solvent exchange method as anode material for lithium ion batteries. Carbon, 2013, 63, 397-403.	5.4	50
124	Multiphonon Raman scattering in GaN nanowires. Applied Physics Letters, 2007, 90, 213104.	1.5	49
125	Functionalized GaN nanowire-based electrode for direct label-free voltammetric detection of DNA hybridization. Journal of Materials Chemistry, 2009, 19, 928.	6.7	48
126	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

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127	Flexible sensor for dopamine detection fabricated by the direct growth of Fe_2O_3 nanoparticles on carbon cloth. <i>Applied Surface Science</i> , 2018, 427, 387-395.	3.1	47
128	Advanced nanoporous separators for stable lithium metal electrodeposition at ultra-high current densities in liquid electrolytes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5095-5104.	5.2	47
129	The vibrational dephasing and relaxation of CH and CD stretches on diamond surfaces: An anomaly. <i>Journal of Chemical Physics</i> , 1996, 105, 3975-3983.	1.2	46
130	Infrared lasing in InN nanobelts. <i>Applied Physics Letters</i> , 2007, 90, 123109.	1.5	46
131	Microwave-activated CuO nanotip/ZnO nanorod nanoarchitectures for efficient hydrogen production. <i>Journal of Materials Chemistry</i> , 2011, 21, 324-326.	6.7	46
132	Ultrasensitive Gas Sensors Based on Vertical Graphene Nanowalls/SiC/Si Heterostructure. <i>ACS Sensors</i> , 2019, 4, 406-412.	4.0	46
133	Raman spectroscopic studies of the thermal decomposition mechanism of ammonium metavanadate. <i>Journal of Materials Chemistry</i> , 1997, 7, 2273-2277.	6.7	45
134	Controlled growth of silicon carbide nanorods by rapid thermal process and their field emission properties. <i>Chemical Physics Letters</i> , 2003, 379, 155-161.	1.2	45
135	Luminescence properties of wurtzite AlN nanotips. <i>Applied Physics Letters</i> , 2006, 89, 163127.	1.5	45
136	Molecule-modulated photoconductivity and gain-amplified selective gas sensing in polar GaN nanowires. <i>Applied Physics Letters</i> , 2009, 95, 233119.	1.5	45
137	Deposition of silicon carbon nitride films by ion beam sputtering. <i>Thin Solid Films</i> , 1999, 355-356, 417-422.	0.8	44
138	Structural evolution of AlN nano-structures: Nanotips and nanorods. <i>Chemical Physics Letters</i> , 2006, 418, 152-157.	1.2	44
139	Metal-free four-in-one modification of g-C ₃ N ₄ for superior photocatalytic CO ₂ reduction and H ₂ evolution. <i>Chemical Engineering Journal</i> , 2022, 430, 132853.	6.6	44
140	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
141	Laser irradiation of carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2001, 72, 218-222.	2.0	42
142	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
143	Mechanism of enhanced luminescence in $\text{In}_x\text{Al}_y\text{Ga}_{1-x-y}\text{N}$ quaternary epilayers. <i>Applied Physics Letters</i> , 2004, 84, 1480-1482.	1.5	42
144	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

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145	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
146	Co ₃ V ₂ O ₈ hollow spheres with mesoporous walls as high-capacitance electrode for hybrid supercapacitor device. <i>Chemical Engineering Journal</i> , 2022, 436, 135225.	6.6	42
147	High current density field emission from arrays of carbon nanotubes and diamond-clad Si tips. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000, 18, 1207.	1.6	41
148	A first principles study of the optical properties of BxCy single wall nanotubes. <i>Carbon</i> , 2007, 45, 1482-1491.	5.4	41
149	Surface optical Raman modes in InN nanostructures. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	41
150	First principles calculations of the optical properties of CxNy single walled nanotubes. <i>Nanotechnology</i> , 2009, 20, 175701.	1.3	41
151	Array of CdSe QD-Sensitized ZnO Nanorods Serves as Photoanode for Water Splitting. <i>Journal of the Electrochemical Society</i> , 2010, 157, B1430.	1.3	41
152	Highly efficient nitrogen and carbon coordinated N-Co-C 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
153	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
154	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
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