Ning Wang

List of Publications by Year
in descending order

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333 papers	19,699 citations	11651 70 h-index	13771 129 g-index
336 all docs	336 docs citations	336 times ranked	19957 citing authors

#	Article	IF	Citations
1	Formation of ZnO nanostructures by a simple way of thermal evaporation. Applied Physics Letters, 2002, 81, 757-759.	3.3	925
2	Superconductivity in 4 Angstrom Single-Walled Carbon Nanotubes. Science, 2001, 292, 2462-2465.	12.6	778
3	Thermochromic VO2 for Energy-Efficient Smart Windows. Joule, 2018, 2, 1707-1746.	24.0	536
4	Oriented Silicon Carbide Nanowires: Synthesis and Field Emission Properties. Advanced Materials, 2000, 12, 1186-1190.	21.0	523
5	Silicon nanowires prepared by laser ablation at high temperature. Applied Physics Letters, 1998, 72, 1835-1837.	3.3	519
6	Formation mechanism of TiO2 nanotubes. Applied Physics Letters, 2003, 82, 281-283.	3.3	505
7	Growth of nanowires. Materials Science and Engineering Reports, 2008, 60, 1-51.	31.8	489
8	High-quality sandwiched black phosphorus heterostructure and its quantum oscillations. Nature Communications, 2015, 6, 7315.	12.8	423
9	Single-walled 4 Ã... carbon nanotube arrays. Nature, 2000, 408, 50-51.	27.8	383
10	Atomically Dispersed Pd on Nanodiamond/Graphene Hybrid for Selective Hydrogenation of Acetylene. Journal of the American Chemical Society, 2018, 140, 13142-13146.	13.7	342
11	Two-dimensional quasicrystal with eightfold rotational symmetry. Physical Review Letters, 1987, 59, 1010-1013.	7.8	309
12	Nucleation and growth of Si nanowires from silicon oxide. Physical Review B, 1998, 58, R16024-R16026.	3.2	309
13	Polarized Absorption Spectra of Single-Walled 4 Ã... Carbon Nanotubes Aligned in Channels of anAlPO4â^5Single Crystal. Physical Review Letters, 2001, 87, 127401.	7.8	285
14	Si nanowires grown from silicon oxide. Chemical Physics Letters, 1999, 299, 237-242.	2.6	273
15	Enhanced photocatalytic performance of TiO2-ZnO hybrid nanostructures. Scientific Reports, 2014, 4, 4181.	3.3	248
16	Achieving Ultrahigh Carrier Mobility in Two-Dimensional Hole Gas of Black Phosphorus. Nano Letters, 2016, 16, 7768-7773.	9.1	242
17	Anchoring Cu1 species over nanodiamond-graphene for semi-hydrogenation of acetylene. Nature Communications, 2019, 10, 4431.	12.8	224
18	Subnanometer Bimetallic Platinumâ€“Zinc Clusters in Zeolites for Propane Dehydrogenation. Angewandte Chemie - International Edition, 2020, 59, 19450-19459.	13.8	221

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19	Growth and Photocatalytic Activity of Dendrite-like ZnO@Ag Heterostructure Nanocrystals. Crystal Growth and Design, 2009, 9, 3278-3285.	3.0	206
20	Laser Ablation Synthesis and Optical Characterization of Silicon Carbide Nanowires. Journal of the American Ceramic Society, 2000, 83, 3228-3230.	3.8	203
21	Oxide-Assisted Semiconductor Nanowire Growth. MRS Bulletin, 1999, 24, 36-42.	3.5	198
22	SiO2-enhanced synthesis of Si nanowires by laser ablation. Applied Physics Letters, 1998, 73, 3902-3904.	3.3	196
23	Synthesis of Large Areas of Highly Oriented, Very Long Silicon Nanowires. Advanced Materials, 2000, 12, 1343-1345.	21.0	194
24	Probing the electron states and metal-insulator transition mechanisms in molybdenum disulphide vertical heterostructures. Nature Communications, 2015, 6, 6088.	12.8	181
25	The van der Waals epitaxy of Bi₂Se₃on the vicinal Si(111) surface: an approach for preparing high-quality thin films of a topological insulator. New Journal of Physics, 2010, 12, 103038.	2.9	180
26	Oxygenâ€Assisted Charge Transfer Between ZnO Quantum Dots and Graphene. Small, 2013, 9, 3031-3036.	10.0	174
27	Dense Network of One-Dimensional Midgap Metallic Modes in Monolayer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MoSe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> Their Spatial Undulations. Physical Review Letters, 2014, 113, 066105.	7.8	172
28	Germanium nanowires sheathed with an oxide layer. Physical Review B, 2000, 61, 4518-4521.	3.2	171
29	Î²-SiC nanorods synthesized by hot filament chemical vapor deposition. Applied Physics Letters, 1999, 74, 3942-3944.	3.3	169
30	A General Synthetic Route to IIIâ€“V Compound Semiconductor Nanowires. Advanced Materials, 2001, 13, 591-594.	21.0	158
31	Tin-Assisted Fully Exposed Platinum Clusters Stabilized on Defect-Rich Graphene for Dehydrogenation Reaction. ACS Catalysis, 2019, 9, 5998-6005.	11.2	150
32	Free-standing Single Crystal Silicon Nanoribbons. Journal of the American Chemical Society, 2001, 123, 11095-11096.	13.7	148
33	Semiconductor nanowires from oxides. Journal of Materials Research, 1999, 14, 4503-4507.	2.6	145
34	Electronic and Mechanical Coupling in Bent ZnO Nanowires. Advanced Materials, 2009, 21, 4937-4941.	21.0	137
35	Bulk-quantity GaN nanowires synthesized from hot filament chemical vapor deposition. Chemical Physics Letters, 2000, 327, 263-270.	2.6	133
36	3D heterostructured pure and N-Doped Ni3S2/VS2 nanosheets for high efficient overall water splitting. Electrochimica Acta, 2018, 269, 55-61.	5.2	132

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37	Semiconductor nanowires: synthesis, structure and properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 286, 16-23.	5.6	128
38	A Nucleation Site and Mechanism Leading to Epitaxial Growth of Diamond Films. Science, 2000, 287, 104-106.	12.6	125
39	Ultrarapid Sonochemical Synthesis of ZnO Hierarchical Structures: From Fundamental Research to High Efficiencies up to 6.42% for Quasi-Solid Dye-Sensitized Solar Cells. Chemistry of Materials, 2013, 25, 1000-1012.	6.7	124
40	Fabrication and magnetic properties of ultrathin Fe nanowire arrays. Applied Physics Letters, 2003, 83, 3341-3343.	3.3	122
41	The Size-Dependent Growth Direction of ZnSe Nanowires. Advanced Materials, 2006, 18, 109-114.	21.0	116
42	Thin Î²-SiC nanorods and their field emission properties. Chemical Physics Letters, 2000, 318, 58-62.	2.6	114
43	CdSe Nano-tetrapods:â€‰ Controllable Synthesis, Structure Analysis, and Electronic and Optical Properties. Chemistry of Materials, 2005, 17, 5263-5267.	6.7	114
44	Temperature Dependence of Si Nanowire Morphology. Advanced Materials, 2001, 13, 317-320.	21.0	113
45	Regulating coordination number in atomically dispersed Pt species on defect-rich graphene for n-butane dehydrogenation reaction. Nature Communications, 2021, 12, 2664.	12.8	111
46	Transmission electron microscopy evidence of the defect structure in Si nanowires synthesized by laser ablation. Chemical Physics Letters, 1998, 283, 368-372.	2.6	110
47	One-dimensional growth mechanism of crystalline silicon nanowires. Journal of Crystal Growth, 1999, 197, 136-140.	1.5	104
48	ZnSe nanowires epitaxially grown on GaP(111) substrates by molecular-beam epitaxy. Applied Physics Letters, 2003, 83, 2665-2667.	3.3	104
49	Universal low-temperature Ohmic contacts for quantum transport in transition metal dichalcogenides. 2D Materials, 2016, 3, 021007.	4.4	102
50	Growth Direction and Cross-Sectional Study of Silicon Nanowires. Advanced Materials, 2003, 15, 607-609.	21.0	99
51	Isolation and Characterization of Few-Layer Manganese Thiophosphite. ACS Nano, 2017, 11, 11330-11336.	14.6	98
52	Morphology of Si nanowires synthesized by high-temperature laser ablation. Journal of Applied Physics, 1999, 85, 7981-7983.	2.5	97
53	Diameter modification of silicon nanowires by ambient gas. Applied Physics Letters, 1999, 75, 1842-1844.	3.3	93
54	Recent advances in fabrication strategies, phase transition modulation, and advanced applications of vanadium dioxide. Applied Physics Reviews, 2019, 6, .	11.3	93

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55	Direct electrochemistry and electrocatalysis of hemoglobin immobilized in TiO2 nanotube films. Talanta, 2008, 74, 1414-1419.	5.5	92
56	Twin Defect Derived Growth of Atomically Thin MoS₂ Dendrites. ACS Nano, 2018, 12, 635-643.	14.6	92
57	Electrical and Photoresponse Properties of an Intramolecular p-n Homojunction in Single Phosphorus-Doped ZnO Nanowires. Nano Letters, 2009, 9, 2513-2518.	9.1	91
58	Deep Eutectic Solvent-Assisted Preparation of Nitrogen/Chloride-Doped Carbon Dots for Intracellular Biological Sensing and Live Cell Imaging. ACS Applied Materials & Interfaces, 2018, 10, 7901-7909.	8.0	91
59	Vanadium disulfide decorated graphitic carbon nitride for super-efficient solar-driven hydrogen evolution. Applied Catalysis B: Environmental, 2018, 237, 295-301.	20.2	89
60	Coaxial Three-Layer Nanocables Synthesized by Combining Laser Ablation and Thermal Evaporation. Advanced Materials, 2000, 12, 1927-1930.	21.0	86
61	Bulk-quantity Si nanowires synthesized by SiO sublimation. Journal of Crystal Growth, 2000, 212, 115-118.	1.5	86
62	Oxide-assisted growth and optical characterization of gallium-arsenide nanowires. Applied Physics Letters, 2001, 78, 3304-3306.	3.3	84
63	Evenâ€“odd layer-dependent magnetotransport of high-mobility Q-valley electrons in transition metal disulfides. Nature Communications, 2016, 7, 12955.	12.8	82
64	In situ TEM examinations of octacalcium phosphate to hydroxyapatite transformation. Journal of Crystal Growth, 2006, 289, 339-344.	1.5	81
65	Molecular-beam epitaxy of monolayer MoSe₂: growth characteristics and domain boundary formation. New Journal of Physics, 2015, 17, 053023.	2.9	80
66	Synthesis and microstructure of gallium phosphide nanowires. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2001, 19, 1115.	1.6	79
67	Hydrothermal synthesis of oriented ZnO nanobelts and their temperature dependent photoluminescence. Chemical Physics Letters, 2004, 393, 17-21.	2.6	79
68	Field Induced Structural Transition in Mesocrystallites. Physical Review Letters, 1999, 82, 4248-4251.	7.8	77
69	Intrinsic valley Hall transport in atomically thin MoS2. Nature Communications, 2019, 10, 611.	12.8	77
70	Palladium Nanoparticles Embedded in the Inner Surfaces of Carbon Nanotubes: Synthesis, Catalytic Activity, and Sinter Resistance. Angewandte Chemie - International Edition, 2014, 53, 12634-12638.	13.8	76
71	High-Quality ZnO Nanowire Arrays Directly Fabricated from Photoresists. ACS Nano, 2009, 3, 53-58.	14.6	74
72	Piezotronic Effects on the Optical Properties of ZnO Nanowires. Nano Letters, 2012, 12, 5802-5807.	9.1	73

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73	Control of growth orientation of GaN nanowires. Chemical Physics Letters, 2002, 359, 241-245.	2.6	72
74	Solidâ€State Synthesis of ZnO Nanostructures for Quasiâ€Solid Dyeâ€Sensitized Solar Cells with High Efficiencies up to 6.46%. Advanced Materials, 2013, 25, 4413-4419.	21.0	72
75	Few-Atom Pt Ensembles Enable Efficient Catalytic Cyclohexane Dehydrogenation for Hydrogen Production. Journal of the American Chemical Society, 2022, 144, 3535-3542.	13.7	72
76	Ti1â€“graphene single-atom material for improved energy level alignment in perovskite solar cells. Nature Energy, 2021, 6, 1154-1163.	39.5	72
77	Germanium dioxide whiskers synthesized by laser ablation. Applied Physics Letters, 1999, 74, 3824-3826.	3.3	70
78	Smallest diameter carbon nanotubes. Applied Physics Letters, 2000, 77, 2831-2833.	3.3	68
79	Interaction effects and superconductivity signatures in twisted double-bilayer WSe₂. Nanoscale Horizons, 2020, 5, 1309-1316.	8.0	68
80	Normally-Off LPCVD-SiN<italic> _x </italic>/GaN MIS-FET With Crystalline Oxidation Interlayer. IEEE Electron Device Letters, 2017, 38, 929-932.	3.9	67
81	Synthesis and characterization of amorphous carbon nanowires. Applied Physics Letters, 1999, 75, 2921-2923.	3.3	66
82	Template-Free Electrochemical Synthesis of Single-Crystal CuTe Nanoribbons. Crystal Growth and Design, 2008, 8, 1789-1791.	3.0	65
83	Straight Î²-SiC nanorods synthesized by using Câ€“Siâ€“SiO2. Applied Physics Letters, 2000, 76, 294-296.	3.3	63
84	Electron-Beam-Induced Elasticâ€“Plastic Transition in Si Nanowires. Nano Letters, 2012, 12, 2379-2385.	9.1	63
85	Enhanced Photothermal Effect in Si Nanowires. Nano Letters, 2003, 3, 475-477.	9.1	61
86	An Ultralight Graphene Honeycomb Sandwich for Stretchable Lightâ€Emitting Displays. Advanced Functional Materials, 2018, 28, 1707043.	14.9	61
87	Highly efficient and stable photoluminescence from silicon nanowires coated with SiC. Chemical Physics Letters, 2000, 332, 215-218.	2.6	59
88	Superconducting characteristics of 4-â„« carbon nanotubeâ€“zeolite composite. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7299-7303.	7.1	58
89	Interlaced W₁₈O₄₉ nanofibers as a superior catalyst for the counter electrode of highly efficient dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 4347-4354.	10.3	58
90	Structure and migration of (112) step on (111) twin boundaries in nanocrystalline copper. Journal of Applied Physics, 2008, 104, .	2.5	57

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91	Effect of annealing on the giant Hall effect. Physical Review B, 1996, 53, 14032-14035.	3.2	56
92	Nucleation and growth of well-aligned, uniform-sized carbon nanotubes by microwave plasma chemical vapor depositon. Applied Physics Letters, 2001, 78, 4028-4030.	3.3	54
93	High reactivity of silicon suboxide clusters. Physical Review B, 2001, 64, .	3.2	54
94	van der Waals Epitaxial Growth of Atomically Thin Bi₂Se₃ and Thickness-Dependent Topological Phase Transition. Nano Letters, 2015, 15, 2645-2651.	9.1	54
95	Growth and emission properties of Î²-SiC nanorods. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 286, 119-124.	5.6	52
96	Controllable Fabrication of Three-Dimensional Radial ZnO Nanowire/Silicon Microrod Hybrid Architectures. Crystal Growth and Design, 2011, 11, 147-153.	3.0	52
97	Cost-effective and morphology-controllable niobium diselenides for highly efficient counter electrodes of dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 11874.	10.3	52
98	Mechanism of oxide-assisted nucleation and growth of silicon nanostructures. Materials Science and Engineering C, 2001, 16, 31-35.	7.3	51
99	Cooperative Sites in Fully Exposed Pd Clusters for Low-Temperature Direct Dehydrogenation Reaction. ACS Catalysis, 2021, 11, 11469-11477.	11.2	51
100	Tuning the selectivity of catalytic nitriles hydrogenation by structure regulation in atomically dispersed Pd catalysts. Nature Communications, 2021, 12, 6194.	12.8	51
101	Defect-rich graphene stabilized atomically dispersed Cu3 clusters with enhanced oxidase-like activity for antibacterial applications. Applied Catalysis B: Environmental, 2022, 301, 120826.	20.2	51
102	Bulk-quantity Si nanosphere chains prepared from semi-infinite length Si nanowires. Journal of Applied Physics, 2001, 89, 727-731.	2.5	49
103	Optimizing nanosheet-based ZnO hierarchical structure through ultrasonic-assisted precipitation for remarkable photovoltaic enhancement in quasi-solid dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 13097.	6.7	48
104	Reduction of nitrobenzene catalyzed by carbon materials. Chinese Journal of Catalysis, 2014, 35, 914-921.	14.0	48
105	Lattice reconstruction induced multiple ultra-flat bands in twisted bilayer WSe2. Nature Communications, 2021, 12, 5601.	12.8	48
106	Transition between wurtzite and zinc-blende GaN: An effect of deposition condition of molecular-beam epitaxy. Applied Physics Letters, 2006, 89, 151921.	3.3	47
107	Micropumps Based on the Enhanced Electroosmotic Effect of Aluminum Oxide Membranes. Advanced Materials, 2007, 19, 4234-4237.	21.0	47
108	Template-Free Electrodeposition of One-Dimensional Nanostructures of Tellurium. Crystal Growth and Design, 2009, 9, 663-666.	3.0	47

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109	Graphene Magnetoresistance Device in van der Pauw Geometry. Nano Letters, 2011, 11, 2973-2977.	9.1	45
110	Shape-Dependent Defect Structures of Monolayer MoS₂ Crystals Grown by Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2017, 9, 763-770.	8.0	45
111	Metal Silicide/Silicon Nanowires from Metal Vapor Vacuum Arc Implantation. Advanced Materials, 2002, 14, 218-221.	21.0	44
112	A Magnetically Separable Pd Singleâ€Atom Catalyst for Efficient Selective Hydrogenation of Phenylacetylene. Advanced Materials, 2022, 34, e2110455.	21.0	44
113	Mono-sized and single-walled 4 Ã... carbon nanotubes. Chemical Physics Letters, 2001, 339, 47-52.	2.6	43
114	Superconductivity in Bundles of Double-Wall Carbon Nanotubes. Scientific Reports, 2012, 2, 625.	3.3	43
115	Si nanowires synthesized by laser ablation of mixed SiC and SiO2 powders. Chemical Physics Letters, 1999, 314, 16-20.	2.6	42
116	Structural characterization of mesoporous silica nanowire arrays grown in porous alumina templates. Chemical Physics Letters, 2005, 409, 172-176.	2.6	42
117	Temperature-Dependent Growth Direction of Ultrathin ZnSe Nanowires. Small, 2007, 3, 111-115.	10.0	42
118	Superlattices of Bi2Se3/In2Se3: Growth characteristics and structural properties. Applied Physics Letters, 2011, 99, .	3.3	42
119	Effects of Hexagonal Boron Nitride Encapsulation on the Electronic Structure of Few-Layer MoS₂. Journal of Physical Chemistry C, 2019, 123, 14797-14802.	3.1	42
120	Heteroepitaxial nucleation of diamond on Si(100) via double bias-assisted hot filament chemical vapor deposition. Diamond and Related Materials, 2000, 9, 134-139.	3.9	41
121	Carbon Nanotube Arrays Prepared by MWCVD. Journal of Physical Chemistry B, 2001, 105, 11395-11398.	2.6	40
122	ZnO hierarchical structures for efficient quasi-solid dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2011, 13, 10631.	2.8	39
123	A self-entanglement mechanism for continuous pulling of carbon nanotube yarns. Carbon, 2011, 49, 4996-5001.	10.3	39
124	Structural study of the 0.4-nm single-walled carbon nanotubes aligned in channels of AlPO4-5 crystal. Carbon, 2002, 40, 917-921.	10.3	37
125	Odd-Integer Quantum Hall States and Giant Spin Susceptibility in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math>-Type Few-Layer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>WSe</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2017, 118, 067702.	7.8	37
126	Singleâ€Crystalline Vanadium Dioxide Actuators. Advanced Functional Materials, 2019, 29, 1900527.	14.9	37

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127	Strained Epitaxy of Monolayer Transition Metal Dichalcogenides for Wrinkle Arrays. ACS Nano, 2021, 15, 6633-6644.	14.6	37
128	Electron localization in metal-decorated graphene. Physical Review B, 2011, 84, .	3.2	36
129	Tailoring the luminescence emission of ZnO nanostructures by hydrothermal post-treatment in water. Applied Physics Letters, 2010, 96, 223105.	3.3	35
130	Electrically tunable physical properties of two-dimensional materials. Nano Today, 2019, 27, 99-119.	11.9	35
131	Determining Interaction Enhanced Valley Susceptibility in Spin-Valley-Locked MoS₂. Nano Letters, 2019, 19, 1736-1742.	9.1	35
132	Chemically specific termination control of oxide interfaces via layer-by-layer mean inner potential engineering. Nature Communications, 2018, 9, 2965.	12.8	34
133	On the origin of the giant Hall effect in magnetic granular metals. Physica A: Statistical Mechanics and Its Applications, 1997, 241, 344-349.	2.6	33
134	Preparation of Palladium Catalysts Supported on Carbon Nanotubes by an Electrostatic Adsorption Method. ChemCatChem, 2014, 6, 2600-2606.	3.7	33
135	Oxide-assisted nucleation and growth of copper sulphide nanowire arrays. Journal of Crystal Growth, 2001, 233, 226-232.	1.5	32
136	Superconducting resistive transition in coupled arrays of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>4</mml:mn><mml:mspace width="0.2em" /><mml:mtext>Ã…</mml:mtext></mml:mrow></mml:math>carbon nanotubes. Physical Review B, 2010, 81, .	3.2	32
137	Symmetry study of the Mnâ€Siâ€Al octagonal quasicrystal by convergent beam electron diffraction. Applied Physics Letters, 1988, 52, 2120-2121.	3.3	31
138	Diamond nucleation enhancement by direct low-energy ion-beam deposition. Physical Review B, 2000, 61, 5579-5586.	3.2	31
139	Novel properties of 0.4 nm single-walled carbon nanotubes templated in the channels of AlPO4-5 single crystals. New Journal of Physics, 2003, 5, 146-146.	2.9	31
140	Modifying electronic transport properties of graphene by electron beam irradiation. Applied Physics Letters, 2011, 99, 033109.	3.3	31
141	V2O5-C-SnO2 Hybrid Nanobelts as High Performance Anodes for Lithium-ion Batteries. Scientific Reports, 2016, 6, 33597.	3.3	31
142	Axial Modulation of Metalâ€“Insulator Phase Transition of VO₂ Nanowires by Graded Doping Engineering for Optically Readable Thermometers. Journal of Physical Chemistry C, 2017, 121, 24877-24885.	3.1	31
143	Phase management in single-crystalline vanadium dioxide beams. Nature Communications, 2021, 12, 4214.	12.8	31
144	Effect of phason strain on the transition of an octagonal quasicrystal to aÎ²-Mn-type structure. Physical Review B, 1989, 40, 12183-12186.	3.2	30

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145	Oxide Inhibitor-Assisted Growth of Single-Layer Molybdenum Dichalcogenides (MoX₂, X =) Tj ETQq1 1 0.784314 rgBT /Ove	14.6	30
146	Growth of multilayers of Bi2Se3/ZnSe: Heteroepitaxial interface formation and strain. Applied Physics Letters, 2011, 98, 043104.	3.3	29
147	Lattice Expansion in Optimally Doped Manganese Oxide: An Effective Structural Parameter for Enhanced Thermochemical Water Splitting. ACS Catalysis, 2019, 9, 9880-9890.	11.2	29
148	The structure and growth mechanism of VO2 nanowires. Journal of Crystal Growth, 2009, 311, 1571-1575.	1.5	28
149	Controlled growth of atomically thin transition metal dichalcogenides via chemical vapor deposition method. Materials Today Advances, 2020, 8, 100098.	5.2	28
150	Long-range exchange coupling between a ferromagnet and an antiferromagnet across a nonmagnetic spacer layer. Journal of Applied Physics, 1997, 81, 4999-5001.	2.5	27
151	Two- and Three-dimensional Arrays of Magnetic Microspheres. Journal of Materials Research, 1999, 14, 1186-1189.	2.6	27
152	A Novel Carbon Nanotube Structure Formed in Ultra-Long Nanochannels of Anodic Aluminum Oxide Templates. Journal of Physical Chemistry B, 2006, 110, 2080-2083.	2.6	27
153	Bending-induced conductance increase in individual semiconductor nanowires and nanobelts. Nano Research, 2009, 2, 553-557.	10.4	27
154	Semimetallic-to-metallic transition and mobility enhancement enabled by reversible iodine doping of graphene. Nanoscale, 2014, 6, 13196-13202.	5.6	26
155	Ambipolar quantum transport in few-layer black phosphorus. Physical Review B, 2017, 96, .	3.2	26
156	Vertically aligned zinc selenide nanoribbon arrays: microstructure and field emission. Journal Physics D: Applied Physics, 2007, 40, 3587-3591.	2.8	25
157	Asymmetric ZnO Panelâ€Like Hierarchical Architectures with Highly Interconnected Pathways for Freeâ€Electron Transport and Photovoltaic Improvements. Chemistry - A European Journal, 2013, 19, 282-287.	3.3	25
158	Site-Specific Deposition of Titanium Oxide on Zinc Oxide Nanorods. Journal of Physical Chemistry C, 2007, 111, 16712-16716.	3.1	24
159	Chemical Stability of ZnO Nanostructures in Simulated Physiological Environments and Its Application in Determining Polar Directions. Inorganic Chemistry, 2008, 47, 7868-7873.	4.0	24
160	Large-scale Mesoscopic Transport in Nanostructured Graphene. Physical Review Letters, 2013, 110, 066805.	7.8	24
161	Impact of Nanoscale Roughness on Heat Transport across the Solidâ€“Solid Interface. Advanced Materials Interfaces, 2020, 7, 1901582.	3.7	24
162	Direct observation of stacking fault tetrahedra in ZnSe/GaAs(001) pseudomorphic epilayers by weak beam dark-field transmission electron microscopy. Applied Physics Letters, 1997, 71, 1225-1227.	3.3	23

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163	Crystal morphology and phase purity of diamond crystallites during bias enhanced nucleation and initial growth stages. Journal of Applied Physics, 2000, 88, 3354-3360.	2.5	23
164	Carbon monoxide-assisted growth of carbon nanotubes. Chemical Physics Letters, 2001, 342, 259-264.	2.6	23
165	Control of growth orientation for epitaxially grown ZnSe nanowires. Applied Physics Letters, 2006, 88, 013108.	3.3	23
166	Vertically aligned ZnO/amorphous-Si coreâ€“shell heterostructured nanowire arrays. Nanotechnology, 2010, 21, 475703.	2.6	23
167	Antisintering Pd₁ Catalyst for Propane Direct Dehydrogenation with In Situ Active Sites Regeneration Ability. ACS Catalysis, 2022, 12, 2244-2252.	11.2	23
168	Insight into the Activity of Atomically Dispersed Cu Catalysts for Semihydrogenation of Acetylene: Impact of Coordination Environments. ACS Catalysis, 2022, 12, 48-57.	11.2	23
169	Transformation of the octagonal quasicrystal into the Î²-Mn-type crystalline structure. Philosophical Magazine Letters, 1990, 61, 63-68.	1.2	22
170	Magnetic materials-based electrorheological fluids. Applied Physics Letters, 1997, 71, 2529-2531.	3.3	22
171	Morphology and microstructure of BaTiO3/SrTiO3 superlattices grown on SrTiO3 by laser molecular-beam epitaxy. Applied Physics Letters, 1999, 75, 3464-3466.	3.3	22
172	Si nanowires synthesized from silicon monoxide by laser ablation. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2001, 19, 317.	1.6	22
173	Detection of interlayer interaction in few-layer graphene. Physical Review B, 2015, 92, .	3.2	22
174	Controllable defect driven symmetry change and domain structure evolution in BiFeO₃with enhanced tetragonality. Nanoscale, 2019, 11, 8110-8118.	5.6	22
175	Formation and phase transformation of selenium nanowire arrays in anodic porous alumina templates. Journal of Crystal Growth, 2005, 276, 674-679.	1.5	21
176	Synthesis and characterization of single crystalline selenium nanowire arrays. Materials Research Bulletin, 2006, 41, 1729-1734.	5.2	21
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