

# Ning Wang

## List of Publications by Citations

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324  
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336  
ext. papers

17,802  
ext. citations

7.2  
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6.28  
L-index

#	Paper	IF	Citations
324	Formation of ZnO nanostructures by a simple way of thermal evaporation. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 757-759	3.4	837
323	Superconductivity in 4 angstrom single-walled carbon nanotubes. <i>Science</i> , <b>2001</b> , 292, 2462-5	33.3	673
322	Silicon nanowires prepared by laser ablation at high temperature. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 1835-1837	3.37	473
321	Formation mechanism of TiO <sub>2</sub> nanotubes. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 281-283	3.4	470
320	Oriented Silicon Carbide Nanowires: Synthesis and Field Emission Properties. <i>Advanced Materials</i> , <b>2000</b> , 12, 1186-1190	24	456
319	Growth of nanowires. <i>Materials Science and Engineering Reports</i> , <b>2008</b> , 60, 1-51	30.9	433
318	High-quality sandwiched black phosphorus heterostructure and its quantum oscillations. <i>Nature Communications</i> , <b>2015</b> , 6, 7315	17.4	369
317	Single-walled 4 A carbon nanotube arrays. <i>Nature</i> , <b>2000</b> , 408, 50-1	50.4	284
316	Nucleation and growth of Si nanowires from silicon oxide. <i>Physical Review B</i> , <b>1998</b> , 58, R16024-R16026	3.3	282
315	Two-dimensional quasicrystal with eightfold rotational symmetry. <i>Physical Review Letters</i> , <b>1987</b> , 59, 1010-1013	10.278	
314	Thermochromic VO <sub>2</sub> for Energy-Efficient Smart Windows. <i>Joule</i> , <b>2018</b> , 2, 1707-1746	27.8	274
313	Polarized absorption spectra of single-walled 4 A carbon nanotubes aligned in channels of an AlPO <sub>4</sub> (4)-5 single crystal. <i>Physical Review Letters</i> , <b>2001</b> , 87, 127401	7.4	263
312	Si nanowires grown from silicon oxide. <i>Chemical Physics Letters</i> , <b>1999</b> , 299, 237-242	2.5	246
311	Atomically Dispersed Pd on Nanodiamond/Graphene Hybrid for Selective Hydrogenation of Acetylene. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 13142-13146	16.4	222
310	Enhanced photocatalytic performance of TiO <sub>2</sub> -ZnO hybrid nanostructures. <i>Scientific Reports</i> , <b>2014</b> , 4, 4181	4.9	194
309	Growth and Photocatalytic Activity of Dendrite-like [email protected] Heterostructure Nanocrystals. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 3278-3285	3.5	194
308	Oxide-Assisted Semiconductor Nanowire Growth. <i>MRS Bulletin</i> , <b>1999</b> , 24, 36-42	3.2	191

307	Achieving Ultrahigh Carrier Mobility in Two-Dimensional Hole Gas of Black Phosphorus. <i>Nano Letters</i> , <b>2016</b> , 16, 7768-7773	11.5	185
306	Laser Ablation Synthesis and Optical Characterization of Silicon Carbide Nanowires. <i>Journal of the American Ceramic Society</i> , <b>2000</b> , 83, 3228-3230	3.8	181
305	SiO <sub>2</sub> -enhanced synthesis of Si nanowires by laser ablation. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 3902-3904	3.4	181
304	Synthesis of Large Areas of Highly Oriented, Very Long Silicon Nanowires. <i>Advanced Materials</i> , <b>2000</b> , 12, 1343-1345	24	175
303	The van der Waals epitaxy of Bi <sub>2</sub> Se <sub>3</sub> on the vicinal Si(111) surface: an approach for preparing high-quality thin films of a topological insulator. <i>New Journal of Physics</i> , <b>2010</b> , 12, 103038	2.9	167
302	Germanium nanowires sheathed with an oxide layer. <i>Physical Review B</i> , <b>2000</b> , 61, 4518-4521	3.3	162
301	SiC nanorods synthesized by hot filament chemical vapor deposition. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 3942-3944	3.4	156
300	Oxygen-assisted charge transfer between ZnO quantum dots and graphene. <i>Small</i> , <b>2013</b> , 9, 3031-6	11	154
299	Probing the electron states and metal-insulator transition mechanisms in molybdenum disulfide vertical heterostructures. <i>Nature Communications</i> , <b>2015</b> , 6, 6088	17.4	151
298	A General Synthetic Route to III-V Compound Semiconductor Nanowires. <i>Advanced Materials</i> , <b>2001</b> , 13, 591-594	24	140
297	Free-standing single crystal silicon nanoribbons. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 11095-6	16.4	137
296	Dense network of one-dimensional midgap metallic modes in monolayer MoSe <sub>2</sub> and their spatial undulations. <i>Physical Review Letters</i> , <b>2014</b> , 113, 066105	7.4	135
295	Electronic and Mechanical Coupling in Bent ZnO Nanowires. <i>Advanced Materials</i> , <b>2009</b> , 21, 4937-4941	24	128
294	Semiconductor nanowires from oxides. <i>Journal of Materials Research</i> , <b>1999</b> , 14, 4503-4507	2.5	128
293	Anchoring Cu species over nanodiamond-graphene for semi-hydrogenation of acetylene. <i>Nature Communications</i> , <b>2019</b> , 10, 4431	17.4	118
292	Ultrarapid Sonochemical Synthesis of ZnO Hierarchical Structures: From Fundamental Research to High Efficiencies up to 6.42% for Quasi-Solid Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 1000-1012	9.6	117
291	Bulk-quantity GaN nanowires synthesized from hot filament chemical vapor deposition. <i>Chemical Physics Letters</i> , <b>2000</b> , 327, 263-270	2.5	117
290	Fabrication and magnetic properties of ultrathin Fe nanowire arrays. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 3341-3343	3.4	116

289	Semiconductor nanowires: synthesis, structure and properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2000</b> , 286, 16-23	5.3	113
288	A nucleation site and mechanism leading to epitaxial growth of diamond films. <i>Science</i> , <b>2000</b> , 287, 104-633.3	33.3	113
287	The Size-Dependent Growth Direction of ZnSe Nanowires. <i>Advanced Materials</i> , <b>2006</b> , 18, 109-114	24	107
286	CdSe Nano-tetrapods: Controllable Synthesis, Structure Analysis, and Electronic and Optical Properties. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 5263-5267	9.6	106
285	Thin SiC nanorods and their field emission properties. <i>Chemical Physics Letters</i> , <b>2000</b> , 318, 58-62	2.5	105
284	Transmission electron microscopy evidence of the defect structure in Si nanowires synthesized by laser ablation. <i>Chemical Physics Letters</i> , <b>1998</b> , 283, 368-372	2.5	100
283	Temperature Dependence of Si Nanowire Morphology. <i>Advanced Materials</i> , <b>2001</b> , 13, 317-320	24	99
282	ZnSe nanowires epitaxially grown on GaP(111) substrates by molecular-beam epitaxy. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 2665-2667	3.4	97
281	One-dimensional growth mechanism of crystalline silicon nanowires. <i>Journal of Crystal Growth</i> , <b>1999</b> , 197, 136-140	1.6	97
280	Tin-Assisted Fully Exposed Platinum Clusters Stabilized on Defect-Rich Graphene for Dehydrogenation Reaction. <i>ACS Catalysis</i> , <b>2019</b> , 9, 5998-6005	13.1	92
279	Growth Direction and Cross-Sectional Study of Silicon Nanowires. <i>Advanced Materials</i> , <b>2003</b> , 15, 607-609	24	92
278	3D heterostructured pure and N-Doped Ni <sub>3</sub> S <sub>2</sub> /VS <sub>2</sub> nanosheets for high efficient overall water splitting. <i>Electrochimica Acta</i> , <b>2018</b> , 269, 55-61	6.7	91
277	Morphology of Si nanowires synthesized by high-temperature laser ablation. <i>Journal of Applied Physics</i> , <b>1999</b> , 85, 7981-7983	2.5	91
276	Direct electrochemistry and electrocatalysis of hemoglobin immobilized in TiO <sub>2</sub> nanotube films. <i>Talanta</i> , <b>2008</b> , 74, 1414-9	6.2	86
275	Subnanometer Bimetallic Platinum-Zinc Clusters in Zeolites for Propane Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 19450-19459	16.4	85
274	Electrical and photoresponse properties of an intramolecular p-n homojunction in single phosphorus-doped ZnO nanowires. <i>Nano Letters</i> , <b>2009</b> , 9, 2513-8	11.5	85
273	Diameter modification of silicon nanowires by ambient gas. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 1842-1844	3.4	80
272	Universal low-temperature Ohmic contacts for quantum transport in transition metal dichalcogenides. <i>2D Materials</i> , <b>2016</b> , 3, 021007	5.9	78

271	Coaxial Three-Layer Nanocables Synthesized by Combining Laser Ablation and Thermal Evaporation. <i>Advanced Materials</i> , <b>2000</b> , 12, 1927-1930	24	78
270	Bulk-quantity Si nanowires synthesized by SiO sublimation. <i>Journal of Crystal Growth</i> , <b>2000</b> , 212, 115-118.	6	78
269	Hydrothermal synthesis of oriented ZnO nanobelts and their temperature dependent photoluminescence. <i>Chemical Physics Letters</i> , <b>2004</b> , 393, 17-21	2.5	75
268	Field Induced Structural Transition in Mesocrystallites. <i>Physical Review Letters</i> , <b>1999</b> , 82, 4248-4251	7.4	75
267	Oxide-assisted growth and optical characterization of gallium-arsenide nanowires. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 3304-3306	3.4	74
266	In situ TEM examinations of octacalcium phosphate to hydroxyapatite transformation. <i>Journal of Crystal Growth</i> , <b>2006</b> , 289, 339-344	1.6	72
265	Isolation and Characterization of Few-Layer Manganese Thiophosphate. <i>ACS Nano</i> , <b>2017</b> , 11, 11330-11336.	6.7	70
264	Solid-state synthesis of ZnO nanostructures for quasi-solid dye-sensitized solar cells with high efficiencies up to 6.46%. <i>Advanced Materials</i> , <b>2013</b> , 25, 4413-9	24	69
263	Synthesis and microstructure of gallium phosphide nanowires. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2001</b> , 19, 1115		68
262	Molecular-beam epitaxy of monolayer MoSe <sub>2</sub> : growth characteristics and domain boundary formation. <i>New Journal of Physics</i> , <b>2015</b> , 17, 053023	2.9	66
261	High-quality ZnO nanowire arrays directly fabricated from photoresists. <i>ACS Nano</i> , <b>2009</b> , 3, 53-8	16.7	66
260	Control of growth orientation of GaN nanowires. <i>Chemical Physics Letters</i> , <b>2002</b> , 359, 241-245	2.5	65
259	Germanium dioxide whiskers synthesized by laser ablation. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 3824-3826	3.4	65
258	Deep Eutectic Solvent-Assisted Preparation of Nitrogen/Chloride-Doped Carbon Dots for Intracellular Biological Sensing and Live Cell Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 7901-7909	9.5	64
257	Even-odd layer-dependent magnetotransport of high-mobility Q-valley electrons in transition metal disulfides. <i>Nature Communications</i> , <b>2016</b> , 7, 12955	17.4	64
256	Twin Defect Derived Growth of Atomically Thin MoS Dendrites. <i>ACS Nano</i> , <b>2018</b> , 12, 635-643	16.7	63
255	Piezotronic effects on the optical properties of ZnO nanowires. <i>Nano Letters</i> , <b>2012</b> , 12, 5802-7	11.5	63
254	Synthesis and characterization of amorphous carbon nanowires. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 2921-2923	2.3	61

253	Straight SiC nanorods synthesized by using C <sub>60</sub> /SiO <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2000</b> , 76, 294-296	3-4	59
252	Smallest diameter carbon nanotubes. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 2831-2833	3-4	58
251	Superconducting characteristics of 4-A carbon nanotube-zeolite composite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 7299-303	11.5	57
250	Template-Free Electrochemical Synthesis of Single-Crystal CuTe Nanoribbons. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 1789-1791	3-5	57
249	Vanadium disulfide decorated graphitic carbon nitride for super-efficient solar-driven hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 237, 295-301	21.8	57
248	Enhanced Photothermal Effect in Si Nanowires. <i>Nano Letters</i> , <b>2003</b> , 3, 475-477	11.5	55
247	Highly efficient and stable photoluminescence from silicon nanowires coated with SiC. <i>Chemical Physics Letters</i> , <b>2000</b> , 332, 215-218	2-5	54
246	Interlaced W <sub>18</sub> O <sub>49</sub> nanofibers as a superior catalyst for the counter electrode of highly efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 4347-4354	13	53
245	Electron-beam-induced elastic-plastic transition in Si nanowires. <i>Nano Letters</i> , <b>2012</b> , 12, 2379-85	11.5	53
244	Effect of annealing on the giant Hall effect. <i>Physical Review B</i> , <b>1996</b> , 53, 14032-14035	3-3	53
243	Normally-Off LPCVD-SiN <sub>x</sub> /GaN MIS-FET With Crystalline Oxidation Interlayer. <i>IEEE Electron Device Letters</i> , <b>2017</b> , 38, 929-932	4-4	51
242	Recent advances in fabrication strategies, phase transition modulation, and advanced applications of vanadium dioxide. <i>Applied Physics Reviews</i> , <b>2019</b> , 6, 011312	17-3	51
241	Controllable Fabrication of Three-Dimensional Radial ZnO Nanowire/Silicon Microrod Hybrid Architectures. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 147-153	3-5	49
240	Growth and emission properties of SiC nanorods. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2000</b> , 286, 119-124	5-3	49
239	Nucleation and growth of well-aligned, uniform-sized carbon nanotubes by microwave plasma chemical vapor depositon. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 4028-4030	3-4	49
238	Cost-effective and morphology-controllable niobium diselenides for highly efficient counter electrodes of dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 11874	13	48
237	Optimizing nanosheet-based ZnO hierarchical structure through ultrasonic-assisted precipitation for remarkable photovoltaic enhancement in quasi-solid dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 13097		48
236	High reactivity of silicon suboxide clusters. <i>Physical Review B</i> , <b>2001</b> , 64,	3-3	48

235	Bulk-quantity Si nanosphere chains prepared from semi-infinite length Si nanowires. <i>Journal of Applied Physics</i> , <b>2001</b> , 89, 727-731	2.5	48
234	Intrinsic valley Hall transport in atomically thin MoS. <i>Nature Communications</i> , <b>2019</b> , 10, 611	17.4	46
233	Mechanism of oxide-assisted nucleation and growth of silicon nanostructures. <i>Materials Science and Engineering C</i> , <b>2001</b> , 16, 31-35	8.3	46
232	van der Waals epitaxial growth of atomically thin Bi <sub>2</sub> Se <sub>3</sub> and thickness-dependent topological phase transition. <i>Nano Letters</i> , <b>2015</b> , 15, 2645-51	11.5	45
231	Reduction of nitrobenzene catalyzed by carbon materials. <i>Chinese Journal of Catalysis</i> , <b>2014</b> , 35, 914-921	11.3	45
230	Regulating coordination number in atomically dispersed Pt species on defect-rich graphene for n-butane dehydrogenation reaction. <i>Nature Communications</i> , <b>2021</b> , 12, 2664	17.4	44
229	Template-Free Electrodeposition of One-Dimensional Nanostructures of Tellurium. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 663-666	3.5	43
228	Structural characterization of mesoporous silica nanowire arrays grown in porous alumina templates. <i>Chemical Physics Letters</i> , <b>2005</b> , 409, 172-176	2.5	41
227	Micropumps Based on the Enhanced Electroosmotic Effect of Aluminum Oxide Membranes. <i>Advanced Materials</i> , <b>2007</b> , 19, 4234-4237	24	40
226	Temperature-dependent growth direction of ultrathin ZnSe nanowires. <i>Small</i> , <b>2007</b> , 3, 111-5	11	40
225	Transition between wurtzite and zinc-blende GaN: An effect of deposition condition of molecular-beam epitaxy. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 151921	3.4	40
224	An Ultralight Graphene Honeycomb Sandwich for Stretchable Light-Emitting Displays. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1707043	15.6	39
223	Palladium nanoparticles embedded in the inner surfaces of carbon nanotubes: synthesis, catalytic activity, and sinter resistance. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 12634-8	16.4	39
222	Superlattices of Bi <sub>2</sub> Se <sub>3</sub> /In <sub>2</sub> Se <sub>3</sub> : Growth characteristics and structural properties. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 023112	3.4	39
221	Metal Silicide/Silicon Nanowires from Metal Vapor Vacuum Arc Implantation. <i>Advanced Materials</i> , <b>2002</b> , 14, 218-221	24	39
220	Superconductivity in bundles of double-wall carbon nanotubes. <i>Scientific Reports</i> , <b>2012</b> , 2, 625	4.9	38
219	ZnO hierarchical structures for efficient quasi-solid dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 10631-4	3.6	38
218	Graphene magnetoresistance device in van der Pauw geometry. <i>Nano Letters</i> , <b>2011</b> , 11, 2973-7	11.5	37

217	Structure and migration of (112) step on (111) twin boundaries in nanocrystalline copper. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 113717	2.5	37
216	Shape-Dependent Defect Structures of Monolayer MoS Crystals Grown by Chemical Vapor Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 763-770	9.5	36
215	Mono-sized and single-walled 4 $\mu$ carbon nanotubes. <i>Chemical Physics Letters</i> , <b>2001</b> , 339, 47-52	2.5	36
214	Carbon Nanotube Arrays Prepared by MWCVD. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 11395-11398	3.4	36
213	Si nanowires synthesized by laser ablation of mixed SiC and SiO <sub>2</sub> powders. <i>Chemical Physics Letters</i> , <b>1999</b> , 314, 16-20	2.5	36
212	Heteroepitaxial nucleation of diamond on Si(100) via double bias-assisted hot filament chemical vapor deposition. <i>Diamond and Related Materials</i> , <b>2000</b> , 9, 134-139	3.5	35
211	Electron localization in metal-decorated graphene. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	34
210	Structural study of the 0.4-nm single-walled carbon nanotubes aligned in channels of AlPO <sub>4</sub> -5 crystal. <i>Carbon</i> , <b>2002</b> , 40, 917-921	10.4	34
209	Preparation of Palladium Catalysts Supported on Carbon Nanotubes by an Electrostatic Adsorption Method. <i>ChemCatChem</i> , <b>2014</b> , 6, 2600-2606	5.2	32
208	Tailoring the luminescence emission of ZnO nanostructures by hydrothermal post-treatment in water. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 223105	3.4	32
207	On the origin of the giant Hall effect in magnetic granular metals. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1997</b> , 241, 344-349	3.3	32
206	Superconducting resistive transition in coupled arrays of 4 $\mu$ carbon nanotubes. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	31
205	Modifying electronic transport properties of graphene by electron beam irradiation. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 033109	3.4	30
204	A self-entanglement mechanism for continuous pulling of carbon nanotube yarns. <i>Carbon</i> , <b>2011</b> , 49, 4996-5001	6.4	30
203	Oxide-assisted nucleation and growth of copper sulphide nanowire arrays. <i>Journal of Crystal Growth</i> , <b>2001</b> , 233, 226-232	1.6	30
202	Symmetry study of the Mn-Si-Al octagonal quasicrystal by convergent beam electron diffraction. <i>Applied Physics Letters</i> , <b>1988</b> , 52, 2120-2121	3.4	30
201	Novel properties of 0.4 nm single-walled carbon nanotubes templated in the channels of AlPO <sub>4</sub> -5 single crystals. <i>New Journal of Physics</i> , <b>2003</b> , 5, 146-146	2.9	29
200	Diamond nucleation enhancement by direct low-energy ion-beam deposition. <i>Physical Review B</i> , <b>2000</b> , 61, 5579-5586	3.3	29



199	Odd-Integer Quantum Hall States and Giant Spin Susceptibility in p-Type Few-Layer WSe <sub>2</sub> . <i>Physical Review Letters</i> , <b>2017</b> , 118, 067702	7.4	28
198	Growth of multilayers of Bi <sub>2</sub> Se <sub>3</sub> /ZnSe: Heteroepitaxial interface formation and strain. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 043104	3.4	28
197	VO-C-SnO Hybrid Nanobelts as High Performance Anodes for Lithium-ion Batteries. <i>Scientific Reports</i> , <b>2016</b> , 6, 33597	4.9	27
196	The structure and growth mechanism of VO <sub>2</sub> nanowires. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 1571-1575.6	5.6	27
195	Effect of phason strain on the transition of an octagonal quasicrystal to a beta -Mn-type structure. <i>Physical Review B</i> , <b>1989</b> , 40, 12183-12186	3.3	27
194	Bending-induced conductance increase in individual semiconductor nanowires and nanobelts. <i>Nano Research</i> , <b>2009</b> , 2, 553-557	10	26
193	Two- and Three-dimensional Arrays of Magnetic Microspheres. <i>Journal of Materials Research</i> , <b>1999</b> , 14, 1186-1189	2.5	26
192	A novel carbon nanotube structure formed in ultra-long nanochannels of anodic aluminum oxide templates. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 2080-3	3.4	25
191	Long-range exchange coupling between a ferromagnet and an antiferromagnet across a nonmagnetic spacer layer. <i>Journal of Applied Physics</i> , <b>1997</b> , 81, 4999-5001	2.5	24
190	Vertically aligned zinc selenide nanoribbon arrays: microstructure and field emission. <i>Journal Physics D: Applied Physics</i> , <b>2007</b> , 40, 3587-3591	3	24
189	Axial Modulation of Metal-Insulator Phase Transition of VO <sub>2</sub> Nanowires by Graded Doping Engineering for Optically Readable Thermometers. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 24877-24885	3.8	23
188	Semimetallic-to-metallic transition and mobility enhancement enabled by reversible iodine doping of graphene. <i>Nanoscale</i> , <b>2014</b> , 6, 13196-202	7.7	23
187	Site-Specific Deposition of Titanium Oxide on Zinc Oxide Nanorods. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 16712-16716	3.8	23
186	Electrically tunable physical properties of two-dimensional materials. <i>Nano Today</i> , <b>2019</b> , 27, 99-119	17.9	22
185	Single-Crystalline Vanadium Dioxide Actuators. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1900527	15.6	22
184	Chemically specific termination control of oxide interfaces via layer-by-layer mean inner potential engineering. <i>Nature Communications</i> , <b>2018</b> , 9, 2965	17.4	22
183	Asymmetric ZnO panel-like hierarchical architectures with highly interconnected pathways for free-electron transport and photovoltaic improvements. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 282-74.8	7.8	22
182	Interaction effects and superconductivity signatures in twisted double-bilayer WSe. <i>Nanoscale Horizons</i> , <b>2020</b> , 5, 1309-1316	10.8	22

181	Lattice Expansion in Optimally Doped Manganese Oxide: An Effective Structural Parameter for Enhanced Thermochemical Water Splitting. <i>ACS Catalysis</i> , <b>2019</b> , 9, 9880-9890	13.1	21
180	Determining Interaction Enhanced Valley Susceptibility in Spin-Valley-Locked MoS. <i>Nano Letters</i> , <b>2019</b> , 19, 1736-1742	11.5	21
179	Crystal morphology and phase purity of diamond crystallites during bias enhanced nucleation and initial growth stages. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 3354-3360	2.5	21
178	From marine plants to photovoltaic devices. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 343-346	35.4	20
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