

Qing Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

218
papers

12,342
citations

51
h-index

107
g-index

225
ext. papers

13,557
ext. citations

6.9
avg, IF

6.18
L-index

#	Paper	IF	Citations
218	Efficient and Dense Electron Emission from a SiO Tunneling Diode with Low Poisoning Sensitivity.. <i>Nano Letters</i> , 2022 ,	11.5	1
217	Dynamical diffraction of high-energy electrons investigated by focal series momentum-resolved scanning transmission electron microscopy at atomic resolution. <i>Ultramicroscopy</i> , 2021 , 233, 113425	3.1	0
216	Epitaxial Growth of Step-Like Cr S Lateral Homojunctions Towards Versatile Conduction Polarities and Enhanced Transistor Performances. <i>Small</i> , 2021 , e2105744	11	3
215	Contact Properties of Two-Dimensional Ferroelectric Hn2Se3. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 4604-4610	4	1
214	The studies on wet chemical etching via in situ liquid cell TEM. <i>Ultramicroscopy</i> , 2021 , 231, 113271	3.1	1
213	Ultrafast Growth of Large-Area Uniform, Millimeter-Size MoSe2 Single Crystals on Low-Cost Soda-Lime Glass. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100415	4.6	5
212	High-Performance Room-Temperature UV-IR Photodetector Based on the InAs Nanosheet and Its Wavelength- and Intensity-Dependent Negative Photoconductivity. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 26187-26195	9.5	2
211	Large-Size Monolayer MoSe2 Single Crystals: Ultrafast Growth of Large-Area Uniform, Millimeter-Size MoSe2 Single Crystals on Low-Cost Soda-Lime Glass (Adv. Mater. Interfaces 12/2021). <i>Advanced Materials Interfaces</i> , 2021 , 8, 2170069	4.6	1
210	Live Processing of Momentum-Resolved STEM Data for First Moment Imaging and Ptychography. <i>Microscopy and Microanalysis</i> , 2021 , 27, 1078-1092	0.5	3
209	Novel Type of Synaptic Transistors Based on a Ferroelectric Semiconductor Channel. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24920-24928	9.5	14
208	Controlling the Facet of ZnO during Wet Chemical Etching Its (000) O-Terminated Surface. <i>Small</i> , 2020 , 16, e1906435	11	3
207	Epitaxial Growth of Centimeter-Scale Single-Crystal MoS Monolayer on Au(111). <i>ACS Nano</i> , 2020 , 14, 5036-5045	16.7	107
206	Raman Spectroscopy of Dispersive Two-Dimensional Materials: A Systematic Study on MoS2 Solution. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 11092-11099	3.8	3
205	Photodetector based on heterostructure of two-dimensional WSe/InSe. <i>Nanotechnology</i> , 2020 , 31, 065203	9.4	14
204	Controlled Growth and Thickness-Dependent Conduction-Type Transition of 2D Ferrimagnetic Cr S Semiconductors. <i>Advanced Materials</i> , 2020 , 32, e1905896	24	58
203	Interlayer Binding Energy of Hexagonal MoS2 as Determined by an In Situ Peeling-to-Fracture Method. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 23419-23425	3.8	8
202	Thickness-dependent band gap of HnSe: from electron energy loss spectroscopy to density functional theory calculations. <i>Nanotechnology</i> , 2020 , 31, 315711	3.4	5

201	Wet Etching: Controlling the Facet of ZnO during Wet Chemical Etching Its (0001) O-Terminated Surface (Small 14/2020). <i>Small</i> , 2020 , 16, 2070076	11	
200	In-Situ Transmission Electron Microscopy Investigation on the Vapor-Solid Growth of ZnO Nanowires. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1542-1543	0.5	
199	Vis-IR Wide-Spectrum Photodetector at Room Temperature Based on p-n Junction-Type GaAsSb/InAs Core-Shell Nanowire. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 38973-38981	9.5	8
198	Design and understanding of core/branch-structured VS nanosheets@CNTs as high-performance anode materials for lithium-ion batteries. <i>Nanoscale</i> , 2019 , 11, 13343-13353	7.7	32
197	UV-SWIR broad range photodetectors made from few-layer HnSe nanosheets. <i>Nanoscale</i> , 2019 , 11, 12817-12828	7.7	30
196	Crystallographic-orientation dependent Li ion migration and reactions in layered MoSe 2. <i>2D Materials</i> , 2019 , 6, 035027	5.9	12
195	On-Chip Thermionic Electron Emitter Arrays Based on Horizontally Aligned Single-Walled Carbon Nanotubes. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 1069-1074	2.9	7
194	Batch production of 6-inch uniform monolayer molybdenum disulfide catalyzed by sodium in glass. <i>Nature Communications</i> , 2018 , 9, 979	17.4	224
193	Mechanical Properties of 2D Materials Studied by In Situ Microscopy Techniques. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701246	4.6	50
192	Preparation of Large Size Monolayer MoS2 by a Two-Step Heating Process by CVD. <i>Lecture Notes in Mechanical Engineering</i> , 2018 , 777-784	0.4	
191	Synthesis of carboxymethyl starch-g-polyvinylpyrrolidones and their properties for the adsorption of Rhodamine 6G and ammonia. <i>Carbohydrate Polymers</i> , 2018 , 186, 150-158	10.3	26
190	Suppressing the excess OFF-state current of short-channel InAs nanowire field-effect transistors by nanoscale partial-gate. <i>Nanotechnology</i> , 2018 , 29, 415203	3.4	6
189	Toughening Graphene by Integrating Carbon Nanotubes. <i>ACS Nano</i> , 2018 , 12, 7901-7910	16.7	31
188	1D Piezoelectric Material Based Nanogenerators: Methods, Materials and Property Optimization. <i>Nanomaterials</i> , 2018 , 8,	5.4	33
187	All-metal electrodes vertical gate-all-around device with self-catalyzed selective grown InAs NWS array. <i>Science China Information Sciences</i> , 2018 , 61, 1	3.4	
186	Dictating anisotropic electric conductivity of a transparent copper nanowire coating by the surface structure of wood. <i>Journal of the Royal Society Interface</i> , 2018 , 15,	4.1	9
185	Constant-rate dissolution of InAs nanowires in radiolytic water observed by in situ liquid cell TEM. <i>Nanoscale</i> , 2018 , 10, 19733-19741	7.7	21
184	Improving the electrical properties of InAs nanowire field effect transistors by covering them with YO/HfO layers. <i>Nanoscale</i> , 2018 , 10, 18492-18501	7.7	6

183	The effect of nanoscale steps on the self-catalyzed position-controlled InAs nanowire growth. <i>Journal of Micromechanics and Microengineering</i> , 2018 , 28, 014002	2	
182	(Invited) The Scaling-Down and Performance Optimization of InAs Nanowire Field Effect Transistors. <i>ECS Transactions</i> , 2018 , 86, 41-49	1	1
181	Discovering the forbidden Raman modes at the edges of layered materials. <i>Science Advances</i> , 2018 , 4, eaau6252	14.3	26
180	Controlling the Growth of Single Nanowires in a Nanowire Forest for near-Infrared Photodetection. <i>ACS Applied Nano Materials</i> , 2018 , 1, 3035-3041	5.6	2
179	Silicon Oxide Electron-Emitting Nanodiodes. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800136	6.4	8
178	Synergetic photoluminescence enhancement of monolayer MoS surface plasmon resonance and defect repair.. <i>RSC Advances</i> , 2018 , 8, 23591-23598	3.7	7
177	Interlayer electrical resistivity of rotated graphene layers studied by in-situ scanning electron microscopy. <i>Ultramicroscopy</i> , 2018 , 193, 90-96	3.1	3
176	Direct Observation of the Layer-by-Layer Growth of ZnO Nanopillar by In situ High Resolution Transmission Electron Microscopy. <i>Scientific Reports</i> , 2017 , 7, 40911	4.9	14
175	Switching from Negative to Positive Photoconductivity toward Intrinsic Photoelectric Response in InAs Nanowire. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2867-2874	9.5	42
174	Influence of water vapor on the electronic property of MoS field effect transistors. <i>Nanotechnology</i> , 2017 , 28, 204003	3.4	5
173	Superlubricity between MoS Monolayers. <i>Advanced Materials</i> , 2017 , 29, 1701474	24	138
172	Effect of nanohole size on selective area growth of InAs nanowire arrays on Si substrates. <i>Journal of Crystal Growth</i> , 2017 , 460, 1-4	1.6	3
171	Single-walled carbon nanotube thermionic electron emitters with dense, efficient and reproducible electron emission. <i>Nanoscale</i> , 2017 , 9, 17814-17820	7.7	8
170	Thermionic electron emission from single carbon nanostructures and its applications in vacuum nanoelectronics. <i>MRS Bulletin</i> , 2017 , 42, 493-499	3.2	3
169	2D Materials: Superlubricity between MoS2 Monolayers (Adv. Mater. 27/2017). <i>Advanced Materials</i> , 2017 , 29,	24	23
168	Abnormal gas-liquid-solid phase transition behaviour of water observed with in situ environmental SEM. <i>Scientific Reports</i> , 2017 , 7, 46680	4.9	8
167	Highly Enhanced Photoluminescence of Monolayer MoS2 with Self-Assembled Au Nanoparticle Arrays. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700739	4.6	30
166	Deterministic Line-Shape Programming of Silicon Nanowires for Extremely Stretchable Springs and Electronics. <i>Nano Letters</i> , 2017 , 17, 7638-7646	11.5	30

165	Brittle Fracture of 2D MoSe. <i>Advanced Materials</i> , 2017 , 29, 1604201	24	95
164	Distinctive in-Plane Cleavage Behaviors of Two-Dimensional Layered Materials. <i>ACS Nano</i> , 2016 , 10, 8980-8987	17.4	60
163	Tunable graphene micro-emitters with fast temporal response and controllable electron emission. <i>Nature Communications</i> , 2016 , 7, 11513	17.4	33
162	In-Plane Self-Turning and Twin Dynamics Renders Large Stretchability to Mono-Like Zigzag Silicon Nanowire Springs. <i>Advanced Functional Materials</i> , 2016 , 26, 5352-5359	15.6	27
161	Synthesis of a novel ferrocene-based epoxy compound and its burning rate catalytic property. <i>RSC Advances</i> , 2016 , 6, 53679-53687	3.7	26
160	Ultrafast and reversible electrochemical lithiation of InAs nanowires observed by in-situ transmission electron microscopy. <i>Nano Energy</i> , 2016 , 20, 194-201	17.1	16
159	Interwall Friction and Sliding Behavior of Centimeters Long Double-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2016 , 16, 1367-74	11.5	28
158	Negative photoconductivity of InAs nanowires. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 818-26	3.6	50
157	Crystal Phase- and Orientation-Dependent Electrical Transport Properties of InAs Nanowires. <i>Nano Letters</i> , 2016 , 16, 2478-84	11.5	33
156	Remarkable influence of slack on the vibration of a single-walled carbon nanotube resonator. <i>Nanoscale</i> , 2016 , 8, 8658-65	7.7	6
155	The intrinsic origin of hysteresis in MoS2 field effect transistors. <i>Nanoscale</i> , 2016 , 8, 3049-56	7.7	85
154	Progress on the synthesis and catalytic and anti-migration properties of ferrocene-based burning rate catalysts. <i>Applied Organometallic Chemistry</i> , 2016 , 30, 796-805	3.1	29
153	Edge-States-Induced Disruption to the Energy Band Alignment at Thickness-Modulated Molybdenum Sulfide Junctions. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600048	6.4	14
152	Whole-journey nanomaterial research in an electron microscope: from material synthesis, composition characterization, property measurements to device construction and tests. <i>Nanotechnology</i> , 2016 , 27, 485710	3.4	2
151	Recent progress on synthesis, property and application of modified chitosan: An overview. <i>International Journal of Biological Macromolecules</i> , 2016 , 88, 333-44	7.9	96
150	In-situ environmental scanning electron microscopy for probing the properties of advanced energy materials. <i>International Journal of Nanomanufacturing</i> , 2016 , 12, 264	0.7	2
149	Synthesis and characterization of amylose grafted poly(acrylic acid) and its application in ammonia adsorption. <i>Carbohydrate Polymers</i> , 2016 , 153, 429-434	10.3	25
148	Chemical modification of starch and its application as an adsorbent material. <i>RSC Advances</i> , 2016 , 6, 78264-78285	7.7	25

147	Prospects for Dendrite-Free Cycling of Li Metal Batteries. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A2004-A2007	3.9	31
146	Contact properties of field-effect transistors based on indium arsenide nanowires thinner than 16 nm. <i>Nanotechnology</i> , 2015 , 26, 175202	3.4	14
145	Recent progress in chemical modification of starch and its applications. <i>RSC Advances</i> , 2015 , 5, 67459-67474	3.74	140
144	Nanoscale opening fabrication on Si (111) surface from SiO ₂ barrier for vertical growth of III-V nanowire arrays. <i>Nanotechnology</i> , 2015 , 26, 265302	3.4	3
143	Study on the response of InAs nanowire transistors to H ₂ O and NO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2015 , 209, 456-461	8.5	13
142	Unravelling orientation distribution and merging behavior of monolayer MoS ₂ domains on sapphire. <i>Nano Letters</i> , 2015 , 15, 198-205	11.5	110
141	A Graphene-Based Vacuum Transistor with a High ON/OFF Current Ratio. <i>Advanced Functional Materials</i> , 2015 , 25, 5972-5978	15.6	30
140	Remarkable and Crystal-Structure-Dependent Piezoelectric and Piezoresistive Effects of InAs Nanowires. <i>Advanced Materials</i> , 2015 , 27, 2852-8	24	47
139	Charge trapping at the MoS ₂ -SiO ₂ interface and its effects on the characteristics of MoS ₂ metal-oxide-semiconductor field effect transistors. <i>Applied Physics Letters</i> , 2015 , 106, 103109	3.4	138
138	Directly correlating the strain-induced electronic property change to the chirality of individual single-walled and few-walled carbon nanotubes. <i>Nanoscale</i> , 2015 , 7, 13116-24	7.7	4
137	Comparative fracture toughness of multilayer graphenes and boronitrenes. <i>Nano Letters</i> , 2015 , 15, 689-94.5	94.5	53
136	Controlled synthesis of phase-pure InAs nanowires on Si(111) by diminishing the diameter to 10 nm. <i>Nano Letters</i> , 2014 , 14, 1214-20	11.5	100
135	Study on the resistance distribution at the contact between molybdenum disulfide and metals. <i>ACS Nano</i> , 2014 , 8, 7771-9	16.7	68
134	Transversally and axially tunable carbon nanotube resonators in situ fabricated and studied inside a scanning electron microscope. <i>Nano Letters</i> , 2014 , 14, 1221-7	11.5	26
133	New insight in understanding oxygen reduction and evolution in solid-state lithium-oxygen batteries using an in situ environmental scanning electron microscope. <i>Nano Letters</i> , 2014 , 14, 4245-9	11.5	91
132	A platform for in-situ multi-probe electronic measurements and modification of nanodevices inside a transmission electron microscope. <i>Nanotechnology</i> , 2014 , 25, 225702	3.4	6
131	Breakdown of Richardson's law in electron emission from individual self-Joule-heated carbon nanotubes. <i>Scientific Reports</i> , 2014 , 4, 5102	4.9	21
130	Electrical characteristics of field-effect transistors based on indium arsenide nanowire thinner than 10 nm. <i>Applied Physics Letters</i> , 2014 , 105, 143101	3.4	19

129	Mechanical properties of individual InAs nanowires studied by tensile tests. <i>Applied Physics Letters</i> , 2014 , 104, 103110	3.4	21
128	A nano-stripe based sensor for temperature measurement at the submicrometer and nano scales. <i>Small</i> , 2014 , 10, 3869-75	11	20
127	In situ multiproperty measurements of individual nanomaterials in SEM and correlation with their atomic structures. <i>Nanotechnology</i> , 2014 , 25, 275703	3.4	5
126	Effect of electrochemical dissolution and deposition order on lithium dendrite formation: a top view investigation. <i>Faraday Discussions</i> , 2014 , 176, 109-24	3.6	39
125	Facile manipulation of individual carbon nanotubes assisted by inorganic nanoparticles. <i>Nanoscale</i> , 2013 , 5, 6584-8	7.7	11
124	Superlubricity in centimetres-long double-walled carbon nanotubes under ambient conditions. <i>Nature Nanotechnology</i> , 2013 , 8, 912-6	28.7	243
123	Local Coulomb explosion of boron nitride nanotubes under electron beam irradiation. <i>ACS Nano</i> , 2013 , 7, 3491-7	16.7	33
122	Transmission electron microscopy assisted in-situ joule heat dissipation study of individual InAs nanowires. <i>Applied Physics Letters</i> , 2013 , 103, 193112	3.4	8
121	Electron emission from a two-dimensional crystal with atomic thickness. <i>AIP Advances</i> , 2013 , 3, 042130	1.5	20
120	Optical and electrical performance of HfO ₂ coated ZnO nanorod arrays. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 1082-6	1.3	2
119	Self-healing of bended WS ₂ nanotubes and its effect on the nanotube's properties. <i>Nanoscale</i> , 2012 , 4, 7825-31	7.7	9
118	Electrons for single molecule diffraction and imaging. <i>Ultramicroscopy</i> , 2012 , 119, 72-7	3.1	1
117	Microscopic mechanism for unipolar resistive switching behaviour of nickel oxides. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 065303	3	61
116	Template-assisted synthesis of ordered single crystal InN nanowires. <i>RSC Advances</i> , 2012 , 2, 6806	3.7	4
115	Towards on-chip time-resolved thermal mapping with micro-/nanosensor arrays. <i>Nanoscale Research Letters</i> , 2012 , 7, 484	5	13
114	Molecular packing of fullerenes inside single-walled carbon nanotubes. <i>Carbon</i> , 2012 , 50, 5450-5457	10.4	10
113	High-performance photodetectors for visible and near-infrared lights based on individual WS ₂ nanotubes. <i>Applied Physics Letters</i> , 2012 , 100, 243101	3.4	89
112	Construction of graphdiyne nanowires with high-conductivity and mobility. <i>Dalton Transactions</i> , 2012 , 41, 730-3	4.3	180

111	Patterned close-packed nanoparticle arrays with controllable dimensions and precise locations. <i>Small</i> , 2012 , 8, 991-6	11	19
110	Electrical transport properties of individual WS ₂ nanotubes and their dependence on water and oxygen absorption. <i>Applied Physics Letters</i> , 2012 , 101, 113112	3.4	35
109	Fabrication and Structure Characterization of Quasi-2-Dimensional Amorphous Carbon Structures. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2012 , 28, 1551-1555	3.8	3
108	Electron beam stimulated molecular motions. <i>ACS Nano</i> , 2011 , 5, 3367-72	16.7	13
107	Hysteresis-free HfO ₂ film grown by atomic layer deposition at low temperature. <i>Thin Solid Films</i> , 2011 , 519, 7723-7726	2.2	4
106	Electric-field-direction dependent spatial distribution of electron emission along electrically biased carbon nanotubes. <i>Physical Review B</i> , 2011 , 84,	3.3	7
105	Resistive switching of crossbar memories with carbon nanotube electrodes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 205-207	2.5	3
104	Thin-Film Thermocouple Array for Time-Resolved Local Temperature Mapping. <i>IEEE Electron Device Letters</i> , 2011 , 32, 1606-1608	4.4	29
103	Phonon-assisted electron emission from individual carbon nanotubes. <i>Nano Letters</i> , 2011 , 11, 734-9	11.5	32
102	Adsorption of Pb(II) and Cd(II) from aqueous solutions using titanate nanotubes prepared via hydrothermal method. <i>Journal of Hazardous Materials</i> , 2011 , 189, 741-8	12.8	170
101	Fabrication and electric measurements of nanostructures inside transmission electron microscope. <i>Ultramicroscopy</i> , 2011 , 111, 948-54	3.1	7
100	Large-Scale and Rapid Synthesis of Ultralong ZnO Nanowire Films via Anodization. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 881-889	3.8	48
99	Evolution of Catalyst Droplets during VLS Growth and Cooling Process: A Case of Ge/ZnO Nanomatchsticks. <i>Crystal Growth and Design</i> , 2010 , 10, 122-127	3.5	10
98	Spatially and angularly resolved cathodoluminescence study of single ZnO nanorods. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 7158-61	1.3	1
97	Oriented Bi ₂ Se ₃ nanoribbons film: Structure, growth, and photoelectric properties. <i>Materials Chemistry and Physics</i> , 2010 , 124, 865-869	4.4	19
96	The temperature dependence of 1D germanium nanostructures grown in a small-diameter quartz tube cavity by vapor deposition. <i>Journal of Crystal Growth</i> , 2010 , 312, 2315-2319	1.6	0
95	Three-dimensional Bi ₂ Se ₃ nanopattern films self-assembled with ultrathin nanosheets on the surface of Se nanotubes. <i>Journal of Crystal Growth</i> , 2010 , 312, 3455-3460	1.6	2
94	In situ measurements on individual thin carbon nanotubes using nanomanipulators inside a scanning electron microscope. <i>Ultramicroscopy</i> , 2010 , 110, 182-9	3.1	33

93	Adsorption behavior of methylene blue onto titanate nanotubes. <i>Chemical Engineering Journal</i> , 2010 , 156, 313-320	14.7	284
92	The fabrication of nanoelectrodes based on a single carbon nanotube. <i>Nanotechnology</i> , 2009 , 20, 245307	3.4	18
91	Y-contacted high-performance n-type single-walled carbon nanotube field-effect transistors: scaling and comparison with Sc-contacted devices. <i>Nano Letters</i> , 2009 , 9, 4209-14	11.5	133
90	Room temperature synthesis of K ₂ Mo ₃ O ₁₀ ·3H ₂ O nanowires in minutes. <i>Nanotechnology</i> , 2009 , 20, 215603	3.4	3
89	Beam to String Transition of Vibrating Carbon Nanotubes Under Axial Tension. <i>Advanced Functional Materials</i> , 2009 , 19, 1753-1758	15.6	34
88	Towards Entire-Carbon-Nanotube Circuits: The Fabrication of Single-Walled-Carbon-Nanotube Field-Effect Transistors with Local Multiwalled-Carbon-Nanotube Interconnects. <i>Advanced Materials</i> , 2009 , 21, 1339-1343	24	26
87	Strength analysis of clamping in micro/nano scale experiments. <i>Acta Mechanica Solida Sinica</i> , 2009 , 22, 584-592	2	5
86	CdTe Quantum Dots-Sensitized TiO ₂ Nanotube Array Photoelectrodes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 7531-7535	3.8	284
85	Almost perfectly symmetric SWCNT-based CMOS devices and scaling. <i>ACS Nano</i> , 2009 , 3, 3781-7	16.7	83
84	Light coupling and modulation in coupled nanowire ring-Fabry-Pérot cavity. <i>Nano Letters</i> , 2009 , 9, 2697-703	13.5	38
83	Tensile Loading of Double-Walled and Triple-Walled Carbon Nanotubes and their Mechanical Properties. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 17002-17005	3.8	41
82	Tunable resonant frequencies for determining Young's moduli of nanowires. <i>Journal of Applied Physics</i> , 2009 , 105, 114311	2.5	10
81	In situ comprehensive characterization of optoelectronic nanomaterials for device purposes. <i>Nanotechnology</i> , 2009 , 20, 175703	3.4	14
80	Photovoltaic Effects in Asymmetrically Contacted CNT Barrier-Free Bipolar Diode. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 6891-6893	3.8	37
79	Length control and sharpening of carbon nanotube scanning probe microscope tips using carbon nanotube "nanoknife". <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 1258-62	1.3	
78	Controlling electron-beam-induced carbon deposition on carbon nanotubes by Joule heating. <i>Nanotechnology</i> , 2008 , 19, 355304	3.4	23
77	Microphotoluminescence study of individual suspended ZnO nanowires. <i>Applied Physics Letters</i> , 2008 , 92, 113112	3.4	22
76	Self-aligned ballistic n-type single-walled carbon nanotube field-effect transistors with adjustable threshold voltage. <i>Nano Letters</i> , 2008 , 8, 3696-701	11.5	132

75	A Versatile Chemical Vapor Deposition Method to Synthesize One-Dimensional Silica-Sheathed Nanostructures. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 8594-8599	3.8	12
74	Individual Bi ₂ S ₃ Nanowire-Based Room-Temperature H ₂ Sensor. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 8721-8724	3.8	94
73	Amplitude Response of Multiwalled Carbon Nanotube Probe with Controlled Length during Tapping Mode Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 15631-15636	3.8	11
72	Metal-Catalyzed CVD Method to Synthesize Silicon Nanobelts. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 15129-15133	3.8	11
71	High-performance n-type carbon nanotube field-effect transistors with estimated sub-10-ps gate delay. <i>Applied Physics Letters</i> , 2008 , 92, 133117	3.4	56
70	Field-emission characteristics of individual carbon nanotubes with a conical tip: the validity of the Fowler-Nordheim theory and maximum emission current. <i>Small</i> , 2008 , 4, 1907-12	11	22
69	The Very-Low Shear Modulus of Multi-Walled Carbon Nanotubes Determined Simultaneously with the Axial Young's Modulus via in situ Experiments. <i>Advanced Functional Materials</i> , 2008 , 18, 1555-1562	15.6	45
68	Hydrothermal Reaction Mechanism and Pathway for the Formation of K ₂ Ti ₆ O ₁₃ Nanowires. <i>Advanced Functional Materials</i> , 2008 , 18, 3018-3025	15.6	21
67	Grinding a Nanotube. <i>Advanced Materials</i> , 2008 , 20, 724-728	24	23
66	A Doping-Free Carbon Nanotube CMOS Inverter-Based Bipolar Diode and Ambipolar Transistor. <i>Advanced Materials</i> , 2008 , 20, 3258-3262	24	59
65	CdS quantum dots sensitized TiO ₂ nanotube-array photoelectrodes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 1124-5	16.4	986
64	ZnSe Nanobelts and Nanowires Synthesized by a Closed Space Vapor Transport Technique. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 2987-2991	3.8	53
63	Synthesis and Characterization of a Nanocomplex of ZnO Nanoparticles Attached to Carbon Nanotubes. <i>Acta Physico-chimica Sinica</i> , 2007 , 23, 145-151		20
62	Quantitative Analysis of Current-Voltage Characteristics of Semiconducting Nanowires: Decoupling of Contact Effects. <i>Advanced Functional Materials</i> , 2007 , 17, 2478-2489	15.6	256
61	High-field electrical transport and breakdown behavior of double-walled carbon nanotube field-effect transistors. <i>Carbon</i> , 2007 , 45, 760-765	10.4	8
60	Quantitative analysis of defects and domain boundaries in mesoporous SBA-16 films. <i>Micron</i> , 2007 , 38, 362-70	2.3	5
59	REWLexit-wave reconstruction and alignments for focus-variation high-resolution transmission electron microscopy images. <i>Journal of Applied Crystallography</i> , 2007 , 40, 614-614	3.8	4
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