

Qing Chen

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218
papers

12,342
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225
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13,557
ext. citations

6.9
avg, IF

6.18
L-index

#	Paper	IF	Citations
218	Microwave Absorption Enhancement and Complex Permittivity and Permeability of Fe Encapsulated within Carbon Nanotubes. <i>Advanced Materials</i> , 2004 , 16, 401-405	24	1494
217	CdS quantum dots sensitized TiO ₂ nanotube-array photoelectrodes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 1124-5	16.4	986
216	Trititanate Nanotubes Made via a Single Alkali Treatment. <i>Advanced Materials</i> , 2002 , 14, 1208-1211	24	755
215	Preparation and structure analysis of titanium oxide nanotubes. <i>Applied Physics Letters</i> , 2001 , 79, 3702-3704	3.4	508
214	The structure of trititanate nanotubes. <i>Acta Crystallographica Section B: Structural Science</i> , 2002 , 58, 587-93		401
213	CdTe Quantum Dots-Sensitized TiO ₂ Nanotube Array Photoelectrodes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 7531-7535	3.8	284
212	Adsorption behavior of methylene blue onto titanate nanotubes. <i>Chemical Engineering Journal</i> , 2010 , 156, 313-320	14.7	284
211	Doping-Free Fabrication of Carbon Nanotube Based Ballistic CMOS Devices and Circuits. <i>Nano Letters</i> , 2007 , 7, 3603-3607	11.5	278
210	A Simple and Effective Route for the Synthesis of Crystalline Silver Nanorods and Nanowires. <i>Advanced Functional Materials</i> , 2004 , 14, 183-189	15.6	273
209	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
208	Superlubricity in centimetres-long double-walled carbon nanotubes under ambient conditions. <i>Nature Nanotechnology</i> , 2013 , 8, 912-6	28.7	243
207	Current-voltage characteristics and parameter retrieval of semiconducting nanowires. <i>Applied Physics Letters</i> , 2006 , 88, 073102	3.4	234
206	Batch production of 6-inch uniform monolayer molybdenum disulfide catalyzed by sodium in glass. <i>Nature Communications</i> , 2018 , 9, 979	17.4	224
205	Construction of graphdiyne nanowires with high-conductivity and mobility. <i>Dalton Transactions</i> , 2012 , 41, 730-3	4.3	180
204	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
203	Fabrication and Electrical and Mechanical Properties of Carbon Nanotube Interconnections. <i>Advanced Functional Materials</i> , 2005 , 15, 1825-1831	15.6	151
202	Recent progress in chemical modification of starch and its applications. <i>RSC Advances</i> , 2015 , 5, 67459-67474	3.7	140

201	Structure and formation of H ₂ Ti ₃ O ₇ nanotubes in an alkali environment. <i>Physical Review B</i> , 2005 , 71,	3.3	139
200	Superlubricity between MoS Monolayers. <i>Advanced Materials</i> , 2017 , 29, 1701474	24	138
199	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
198	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
197	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
196	High-quality ultralong Bi ₂ S ₃ nanowires: structure, growth, and properties. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 18772-6	3.4	122
195	Unravelling orientation distribution and merging behavior of monolayer MoS ₂ domains on sapphire. <i>Nano Letters</i> , 2015 , 15, 198-205	11.5	110
194	Epitaxial Growth of Centimeter-Scale Single-Crystal MoS Monolayer on Au(111). <i>ACS Nano</i> , 2020 , 14, 5036-5045	16.7	107
193	High-quality ultralong Sb ₂ Se ₃ and Sb ₂ S ₃ nanoribbons on a large scale via a simple chemical route. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 13415-9	3.4	101
192	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
191	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
190	Brittle Fracture of 2D MoSe. <i>Advanced Materials</i> , 2017 , 29, 1604201	24	95
189	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
188	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
187	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
186	Chemical modification of starch and its application as an adsorbent material. <i>RSC Advances</i> , 2016 , 6, 78264-78285	9.7	87
185	The intrinsic origin of hysteresis in MoS ₂ field effect transistors. <i>Nanoscale</i> , 2016 , 8, 3049-56	7.7	85
184	Structure and applications of titanate and related nanostructures. <i>International Journal of Nanotechnology</i> , 2007 , 4, 44	1.5	84

183	Almost perfectly symmetric SWCNT-based CMOS devices and scaling. <i>ACS Nano</i> , 2009 , 3, 3781-7	16.7	83
182	Establishing Ohmic contacts for in situ current-voltage characteristic measurements on a carbon nanotube inside the scanning electron microscope. <i>Nanotechnology</i> , 2006 , 17, 1087-98	3.4	75
181	Study on the resistance distribution at the contact between molybdenum disulfide and metals. <i>ACS Nano</i> , 2014 , 8, 7771-9	16.7	68
180	Electron field emission characteristics and field evaporation of a single carbon nanotube. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 110-3	3.4	68
179	Microscopic mechanism for unipolar resistive switching behaviour of nickel oxides. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 065303	3	61
178	Distinctive in-Plane Cleavage Behaviors of Two-Dimensional Layered Materials. <i>ACS Nano</i> , 2016 , 10, 8980-8	16.7	60
177	A Doping-Free Carbon Nanotube CMOS Inverter-Based Bipolar Diode and Ambipolar Transistor. <i>Advanced Materials</i> , 2008 , 20, 3258-3262	24	59
176	In situ fabrication and graphitization of amorphous carbon nanowires and their electrical properties. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 5423-8	3.4	58
175	Synthesis, modification and characterization of K4Nb6O17-type nanotubes. <i>Journal of Materials Chemistry</i> , 2004 , 14, 1437		58
174	Controlled Growth and Thickness-Dependent Conduction-Type Transition of 2D Ferrimagnetic Cr S Semiconductors. <i>Advanced Materials</i> , 2020 , 32, e1905896	24	58
173	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
172	Comparative fracture toughness of multilayer graphenes and boronitrenes. <i>Nano Letters</i> , 2015 , 15, 689-94.5	14.5	53
171	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
170	Electronic, optical, and magnetic properties of Fe-intercalated H2Ti3O7 nanotubes: First-principles calculations and experiments. <i>Physical Review B</i> , 2006 , 73,	3.3	53
169	High-quality ultralong Sb2S3 nanoribbons on large scale. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 2331-45	14.5	52
168	Shaping Carbon Nanotubes and the Effects on Their Electrical and Mechanical Properties. <i>Advanced Functional Materials</i> , 2006 , 16, 1462-1468	15.6	51
167	Mechanical Properties of 2D Materials Studied by In Situ Microscopy Techniques. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701246	4.6	50
166	Negative photoconductivity of InAs nanowires. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 818-26	3.6	50

165	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
164	Remarkable and Crystal-Structure-Dependent Piezoelectric and Piezoresistive Effects of InAs Nanowires. <i>Advanced Materials</i> , 2015 , 27, 2852-8	24	47
163	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
162	Field-effect characteristics and screening in double-walled carbon nanotube field-effect transistors. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 17361-5	3.4	45
161	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
160	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
159	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
158	Light coupling and modulation in coupled nanowire ring-Fabry-Pérot cavity. <i>Nano Letters</i> , 2009 , 9, 2697-703.5	3.5	38
157	Photovoltaic Effects in Asymmetrically Contacted CNT Barrier-Free Bipolar Diode. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 6891-6893	3.8	37
156	Field emission from carbon nanotube arrays fabricated by pyrolysis of iron phthalocyanine. <i>Journal Physics D: Applied Physics</i> , 2004 , 37, 5-9	3	37
155	Strain-induced formation of K ₂ Ti ₆ O ₁₃ nanowires via ion exchange. <i>Applied Physics Letters</i> , 2005 , 86, 133101	3.4	37
154	Quantitative analysis of electron field-emission characteristics of individual carbon nanotubes: the importance of the tip structure. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 9397-402	3.4	36
153	Synthesis and characterization of large scale potassium titanate nanowires with good Li-intercalation performance. <i>Chemical Physics Letters</i> , 2005 , 406, 95-100	2.5	36
152	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
151	Beam to String Transition of Vibrating Carbon Nanotubes Under Axial Tension. <i>Advanced Functional Materials</i> , 2009 , 19, 1753-1758	15.6	34
150	Tunable graphene micro-emitters with fast temporal response and controllable electron emission. <i>Nature Communications</i> , 2016 , 7, 11513	17.4	33
149	Crystal Phase- and Orientation-Dependent Electrical Transport Properties of InAs Nanowires. <i>Nano Letters</i> , 2016 , 16, 2478-84	11.5	33
148	1D Piezoelectric Material Based Nanogenerators: Methods, Materials and Property Optimization. <i>Nanomaterials</i> , 2018 , 8,	5.4	33

147	Local Coulomb explosion of boron nitride nanotubes under electron beam irradiation. <i>ACS Nano</i> , 2013 , 7, 3491-7	16.7	33
146	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
145	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
144	Phonon-assisted electron emission from individual carbon nanotubes. <i>Nano Letters</i> , 2011 , 11, 734-9	11.5	32
143	Modification of electronic, optical, and magnetic properties of titanate nanotubes by metal intercalation. <i>Physical Review B</i> , 2007 , 75,	3.3	32
142	Prospects for Dendrite-Free Cycling of Li Metal Batteries. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A2004-A2007	3.9	31
141	Toughening Graphene by Integrating Carbon Nanotubes. <i>ACS Nano</i> , 2018 , 12, 7901-7910	16.7	31
140	UV-SWIR broad range photodetectors made from few-layer MnSe nanosheets. <i>Nanoscale</i> , 2019 , 11, 12817-12828	7.7	30
139	Highly Enhanced Photoluminescence of Monolayer MoS2 with Self-Assembled Au Nanoparticle Arrays. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700739	4.6	30
138	Deterministic Line-Shape Programming of Silicon Nanowires for Extremely Stretchable Springs and Electronics. <i>Nano Letters</i> , 2017 , 17, 7638-7646	11.5	30
137	A Graphene-Based Vacuum Transistor with a High ON/OFF Current Ratio. <i>Advanced Functional Materials</i> , 2015 , 25, 5972-5978	15.6	30
136	Synthesis and characterizations of amorphous carbon nanotubes by pyrolysis of ferrocene confined within AAM templates. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 8263-7	3.4	30
135	Thin-Film Thermocouple Array for Time-Resolved Local Temperature Mapping. <i>IEEE Electron Device Letters</i> , 2011 , 32, 1606-1608	4.4	29
134	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
133	Interwall Friction and Sliding Behavior of Centimeters Long Double-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2016 , 16, 1367-74	11.5	28
132	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
131	Cutting and sharpening carbon nanotubes using a carbon nanotube "nanoknife". <i>Nanotechnology</i> , 2007 , 18, 185503	3.4	27
130	Effect of H2 on the electrical transport properties of single Bi2S3 nanowires. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 21408-11	3.4	27

129	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
128	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
127	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
126	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
125	Preparation and characterization of Fe-incorporated titanate nanotubes. <i>Nanotechnology</i> , 2006 , 17, 5423-5427	3.4	26
124	Metastability of single-bonded cubic-gauche structure of N under ambient pressure. <i>Physical Review B</i> , 2006 , 73,	3.3	26
123	Discovering the forbidden Raman modes at the edges of layered materials. <i>Science Advances</i> , 2018 , 4, eaau6252	14.3	26
122	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
121	2D Materials: Superlubricity between MoS ₂ Monolayers (Adv. Mater. 27/2017). <i>Advanced Materials</i> , 2017 , 29,	24	23
120	Controlling electron-beam-induced carbon deposition on carbon nanotubes by Joule heating. <i>Nanotechnology</i> , 2008 , 19, 355304	3.4	23
119	Grinding a Nanotube. <i>Advanced Materials</i> , 2008 , 20, 724-728	24	23
118	Microphotoluminescence study of individual suspended ZnO nanowires. <i>Applied Physics Letters</i> , 2008 , 92, 113112	3.4	22
117	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
116	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
115	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
114	Mechanical properties of individual InAs nanowires studied by tensile tests. <i>Applied Physics Letters</i> , 2014 , 104, 103110	3.4	21
113	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
112	A nano-stripe based sensor for temperature measurement at the submicrometer and nano scales. <i>Small</i> , 2014 , 10, 3869-75	11	20

111	Electron emission from a two-dimensional crystal with atomic thickness. <i>AIP Advances</i> , 2013 , 3, 042130	1.5	20
110	Synthesis and Characterization of a Nanocomplex of ZnO Nanoparticles Attached to Carbon Nanotubes. <i>Acta Physico-chimica Sinica</i> , 2007 , 23, 145-151		20
109	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
108	Patterned close-packed nanoparticle arrays with controllable dimensions and precise locations. <i>Small</i> , 2012 , 8, 991-6	11	19
107	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
106	Structure of nanosized materials by high-energy X-ray diffraction: study of titanate nanotubes. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2007 , 222,	1	19
105	Porous crystalline iron oxide thin films templated by mesoporous silica. <i>Microporous and Mesoporous Materials</i> , 2005 , 83, 219-224	5.3	19
104	The fabrication of nanoelectrodes based on a single carbon nanotube. <i>Nanotechnology</i> , 2009 , 20, 245307	3.4	18
103	In situ growth and characterization of Ag and Cu nanowires. <i>Nanotechnology</i> , 2006 , 17, S376-S380	3.4	18
102	High-resolution transmission electron microscopy study on the anomalous structure of lead nanoparticles with UHV-MBE-TEM system. <i>Surface Science</i> , 2000 , 462, 203-210	1.8	18
101	Unusual crystallographic structure and its fluctuation of indium nanoparticles as-deposited and observed with HRTEM using the UHV-DC-TEM system. <i>Surface Science</i> , 1999 , 440, 398-406	1.8	18
100	Fabrication of high performance top-gate complementary inverter using a single carbon nanotube and via a simple process. <i>Applied Physics Letters</i> , 2007 , 90, 223116	3.4	17
99	The effects of Ti ₃ Ni ₄ precipitates on the R-phase transformation. <i>Scripta Metallurgica Et Materialia</i> , 1993 , 29, 49-53		17
98	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
97	Switching electron current in a semiconductor nanowire via controlling the carrier injection from the electrode. <i>Applied Physics Letters</i> , 2006 , 89, 213108	3.4	15
96	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
95	Contact properties of field-effect transistors based on indium arsenide nanowires thinner than 16 nm. <i>Nanotechnology</i> , 2015 , 26, 175202	3.4	14
94	Novel Type of Synaptic Transistors Based on a Ferroelectric Semiconductor Channel. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24920-24928	9.5	14

93	In situ comprehensive characterization of optoelectronic nanomaterials for device purposes. <i>Nanotechnology</i> , 2009 , 20, 175703	3.4	14
92	Photodetector based on heterostructure of two-dimensional WSe/InSe. <i>Nanotechnology</i> , 2020 , 31, 065203	3.4	14
91	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
90	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
89	Towards on-chip time-resolved thermal mapping with micro-/nanosensor arrays. <i>Nanoscale Research Letters</i> , 2012 , 7, 484	5	13
88	Electron beam stimulated molecular motions. <i>ACS Nano</i> , 2011 , 5, 3367-72	16.7	13
87	Transmission Electron Diffraction at 200 eV and Damage Thresholds below the Carbon K Edge. <i>Microscopy and Microanalysis</i> , 2000 , 6, 368-379	0.5	13
86	Crystallographic-orientation dependent Li ion migration and reactions in layered MoSe ₂ . <i>2D Materials</i> , 2019 , 6, 035027	5.9	12
85	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
84	Electrical characteristics of amorphous carbon nanotube and effects of contacts. <i>Applied Physics Letters</i> , 2006 , 88, 063113	3.4	12
83	Facile manipulation of individual carbon nanotubes assisted by inorganic nanoparticles. <i>Nanoscale</i> , 2013 , 5, 6584-8	7.7	11
82	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
81	Metal-Catalyzed CVD Method to Synthesize Silicon Nanobelts. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 15129-15133	3.8	11
80	Molecular packing of fullerenes inside single-walled carbon nanotubes. <i>Carbon</i> , 2012 , 50, 5450-5457	10.4	10
79	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
78	Tunable resonant frequencies for determining Young's moduli of nanowires. <i>Journal of Applied Physics</i> , 2009 , 105, 114311	2.5	10
77	Buffer-Enhanced Electrical-Pulse-Induced Resistive Memory Effect in Thin Film Perovskites. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 1602-1606	1.4	10
76	Defects and their movement in Pb and Ge nanocrystals characterized by ultra-high vacuum high resolution transmission electron microscope. <i>Applied Surface Science</i> , 2000 , 159-160, 486-491	6.7	10

75	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
74	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
73	Orbital ordering in LaMnO ₃ : estimates of structure factors and comparison of measurement methods. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2002 , 58, 4-11		9
72	Single-walled carbon nanotube thermionic electron emitters with dense, efficient and reproducible electron emission. <i>Nanoscale</i> , 2017 , 9, 17814-17820	7.7	8
71	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
70	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
69	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
68	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
67	Interlayer Binding Energy of Hexagonal MoS ₂ as Determined by an In Situ Peeling-to-Fracture Method. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 23419-23425	3.8	8
66	Silicon Oxide Electron-Emitting Nanodiodes. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800136	6.4	8
65	Electric-field-direction dependent spatial distribution of electron emission along electrically biased carbon nanotubes. <i>Physical Review B</i> , 2011 , 84,	3.3	7
64	Fabrication and electric measurements of nanostructures inside transmission electron microscope. <i>Ultramicroscopy</i> , 2011 , 111, 948-54	3.1	7
63	Defects and domain structures in SBA-16 mesoporous films with 3D cubic structure. <i>Chemical Physics Letters</i> , 2005 , 411, 463-467	2.5	7
62	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
61	Synergetic photoluminescence enhancement of monolayer MoS surface plasmon resonance and defect repair.. <i>RSC Advances</i> , 2018 , 8, 23591-23598	3.7	7
60	Remarkable influence of slack on the vibration of a single-walled carbon nanotube resonator. <i>Nanoscale</i> , 2016 , 8, 8658-65	7.7	6
59	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
58	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

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