Qing Zhang

List of Publications by Year
in descending order

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212 papers	20,471 citations	34016 52 h-index	10127 140 g-index
213 all docs	213 docs citations	213 times ranked	26160 citing authors

#	Article	IF	Citations
1	Edge Raman enhancement at layered PbI₂ platelets induced by laser waveguide effect. Nanotechnology, 2022, 33, 035203.	1.3	2
2	Homologous Bromides Treatment for Improving the Openâ€Circuit Voltage of Perovskite Solar Cells. Advanced Materials, 2022, 34, e2106280.	11.1	26
3	Current degradation mechanism of tip contact metal-silicon Schottky nanogenerator. Nano Energy, 2022, 94, 106888.	8.2	15
4	Strong Piezoelectricity in 3Râ€MoS₂ Flakes. Advanced Electronic Materials, 2022, 8, .	2.6	20
5	Pattern-Selective Molecular Epitaxial Growth of Single-Crystalline Perovskite Arrays toward Ultrasensitive and Ultrafast Photodetector. Nano Letters, 2022, 22, 2948-2955.	4.5	8
6	Tunable Multiâ€Bit Nonvolatile Memory Based on Ferroelectric Fieldâ€Effect Transistors. Advanced Electronic Materials, 2022, 8, .	2.6	7
7	Room-temperature Near-infrared Excitonic Lasing from Mechanically Exfoliated InSe Microflake. ACS Nano, 2022, 16, 1477-1485.	7.3	11
8	Ultrafast Antisolvent Growth of Single-Crystalline CsPbCl₃ Microcavity for Low-Threshold Room Temperature Blue Lasing. ACS Applied Materials & Interfaces, 2022, 14, 21356-21362.	4.0	6
9	Engineering Near-Infrared Light Emission in Mechanically Exfoliated InSe Platelets through Hydrostatic Pressure for Multicolor Microlasing. Nano Letters, 2022, 22, 3840-3847.	4.5	11
10	Enabling Ultrastable Alkali Metal Anodes by Artificial Solid Electrolyte Interphase Fluorination. Nano Letters, 2022, 22, 4347-4353.	4.5	24
11	Ultrahigh Oxygen Evolution Reaction Activity Achieved Using Ir Single Atoms on Amorphous CoO_x Nanosheets. ACS Catalysis, 2021, 11, 123-130.	5.5	138
12	Unravelling high volumetric capacity of Co₃O₄ nanograin-interconnected secondary particles for lithium-ion battery anodes. Journal of Materials Chemistry A, 2021, 9, 6242-6251.	5.2	18
13	Strain-Modulated Photoelectric Responses from a Flexible Î±-In2Se3/3R MoS2 Heterojunction. Nano-Micro Letters, 2021, 13, 74.	14.4	31
14	Semiconductor-based dynamic heterojunctions as an emerging strategy for high direct-current mechanical energy harvesting. Nano Energy, 2021, 83, 105849.	8.2	56
15	Advances of Nonlinear Photonics in Lowâ€Dimensional Halide Perovskites. Small, 2021, 17, e2100809.	5.2	39
16	Matrix Manipulation of Directlyâ€Synthesized PbS Quantum Dot Inks Enabled by Coordination Engineering. Advanced Functional Materials, 2021, 31, 2104457.	7.8	24
17	Solvent Recrystallizationâ€Enabled Green Amplified Spontaneous Emissions with an Ultraâ€Low Threshold from Pinholeâ€Free Perovskite Films. Advanced Functional Materials, 2021, 31, 2106108.	7.8	31
18	Enabling Atomicâ€Scale Imaging of Sensitive Potassium Metal and Related Solid Electrolyte Interphases Using Ultralowâ€Dose Cryoâ€TEM. Advanced Materials, 2021, 33, e2102666.	11.1	19

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19	Synergistic effect of solvent and solid additives on morphology optimization for high-performance organic solar cells. Science China Chemistry, 2021, 64, 2017-2024.	4.2	16
20	Optically Modulated HfS₂-Based Synapses for Artificial Vision Systems. ACS Applied Materials & Interfaces, 2021, 13, 50132-50140.	4.0	17
21	Advances and Frontiers in Singleâ€Walled Carbon Nanotube Electronics. Advanced Science, 2021, 8, e2102860.	5.6	9
22	Probing atomic structure of beam-sensitive energy materials in their native states using cryogenic transmission electron microscopes. IScience, 2021, 24, 103385.	1.9	5
23	Full-color enhanced second harmonic generation using rainbow trapping in ultrathin hyperbolic metamaterials. Nature Communications, 2021, 12, 6425.	5.8	58
24	Atomically Dispersed Coâ€“P₃ on CdS Nanorods with Electronâ€Rich Feature Boosts Photocatalysis. Advanced Materials, 2020, 32, e1904249.	11.1	105
25	Trapped Excitonâ€“Polariton Condensate by Spatial Confinement in a Perovskite Microcavity. ACS Photonics, 2020, 7, 327-337.	3.2	36
26	Influences of surface charges and gap width between p-type and n-type semiconductors on charge pumping. Nano Energy, 2020, 78, 105287.	8.2	11
27	Edge-oriented and steerable hyperbolic polaritons in anisotropic van der Waals nanocavities. Nature Communications, 2020, 11, 6086.	5.8	67
28	Roles of Semiconductor Junctions in Mechanical-Electrical Power Conversion. , 2020, , .		2
29	In-situ Functionalization of Metal Electrodes for Advanced Asymmetric Supercapacitors. Frontiers in Chemistry, 2019, 7, 512.	1.8	12
30	Direct current triboelectric cell by sliding an n-type semiconductor on a p-type semiconductor. Nano Energy, 2019, 66, 104185.	8.2	98
31	Scalable Production of Two-Dimensional Metallic Transition Metal Dichalcogenide Nanosheet Powders Using NaCl Templates toward Electrocatalytic Applications. Journal of the American Chemical Society, 2019, 141, 18694-18703.	6.6	56
32	Enhanced Performance of an Electric Double Layer Microsupercapacitor Based on Novel Carbon-Encapsulated Cu Nanowire Network Structure As the Electrode. ACS Applied Materials & Interfaces, 2019, 11, 40481-40489.	4.0	40
33	Analysis of photoluminescence behavior of high-quality single-layer MoS2. Nano Research, 2019, 12, 1619-1624.	5.8	30
34	Inâ€Plane Anisotropic Properties of 1Tâ€²â€MoS₂ Layers. Advanced Materials, 2019, 31, e1807764.	11.1	55
35	Sonochemistry-enabled uniform coupling of SnO₂ nanocrystals with graphene sheets as anode materials for lithium-ion batteries. RSC Advances, 2019, 9, 5942-5947.	1.7	24
36	Boosting the electrocatalytic activity of amorphous molybdenum sulfide nanoflakes via nickel sulfide decoration. Nanoscale, 2019, 11, 22971-22979.	2.8	19

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37	Photoconductive Micro/Nanoscale Interfaces of a Semiconducting Polymer for Wireless Stimulation of Neuron-Like Cells. ACS Applied Materials & Interfaces, 2019, 11, 4833-4841.	4.0	37
38	High-Resolution Inkjet-Printed Oxide Thin-Film Transistors with a Self-Aligned Fine Channel Bank Structure. ACS Applied Materials & Interfaces, 2018, 10, 15847-15854.	4.0	14
39	High phase-purity 1Tâ€²-MoS2- and 1Tâ€²-MoSe2-layered crystals. Nature Chemistry, 2018, 10, 638-643.	6.6	757
40	The Importance of Combined Spatio-Temporal Characterization: From in situ to operando Diffraction Measurements of Li/Li1.1V3O8 Batteries. Microscopy and Microanalysis, 2018, 24, 1478-1479.	0.2	0
41	Chemical sensor based on a novel capacitive microwave flexible transducer with polymer nanocomposite-carbon nanotube sensitive film. Microsystem Technologies, 2018, , 1.	1.2	4
42	A Nano-Filter-Integrated CMOS Image Sensor for Fluorescent Biomedical Imaging. , 2018, , .		1
43	Pumping electrons from chemical potential difference. Nano Energy, 2018, 51, 698-703.	8.2	38
44	The Auger process in multilayer WSe₂ crystals. Nanoscale, 2018, 10, 17585-17592.	2.8	20
45	Low excitation of Raman D-band in [2+1] cycloaddition functionalized single-walled carbon nanotubes. Carbon, 2018, 138, 188-196.	5.4	14
46	Optical-reconfigurable carbon nanotube and indium-tin-oxide complementary thin-film transistor logic gates. Nanoscale, 2018, 10, 13122-13129.	2.8	17
47	Visualization of structural evolution and phase distribution of a lithium vanadium oxide (Li_{1.1}V₃O₈) electrode via an operando and in situ energy dispersive X-ray diffraction technique. Physical Chemistry Chemical Physics, 2017, 19, 14160-14169.	1.3	25
48	3R MoS₂ with Broken Inversion Symmetry: A Promising Ultrathin Nonlinear Optical Device. Advanced Materials, 2017, 29, 1701486.	11.1	197
49	Superâ€Clear Nanopaper from Agroâ€Industrial Waste for Green Electronics. Advanced Electronic Materials, 2017, 3, 1600539.	2.6	27
50	Direct Chemical Vapor Deposition Growth and Band-Gap Characterization of MoS₂/h-BN van der Waals Heterostructures on Au Foils. ACS Nano, 2017, 11, 4328-4336.	7.3	87
51	Functionalized horizontally aligned CNT array and random CNT network for CO2 sensing. Carbon, 2017, 117, 263-270.	5.4	35
52	Influences of water molecules on the electronic properties of atomically thin molybdenum disulfide. Applied Physics Letters, 2017, 111, .	1.5	7
53	Controlled Gas Molecules Doping of Monolayer MoS₂ via Atomic-Layer-Deposited Al₂O₃ Films. ACS Applied Materials & Interfaces, 2017, 9, 27402-27408.	4.0	23
54	Inkjet printing of oxide thin film transistor arrays with small spacing with polymer-doped metal nitrate aqueous ink. Journal of Materials Chemistry C, 2017, 5, 7495-7503.	2.7	36

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55	Roles of carbon nanotubes in novel energy storage devices. Carbon, 2017, 122, 462-474.	5.4	157
56	Chemical Gas Sensor Based on a Flexible Capacitive Microwave Transducer Associated with a Sensitive Carbon Composite Polymer Film. Proceedings (mdpi), 2017, 1, 439.	0.2	6
57	Nanocarbon Paper: Flexible, High Temperature, Planar Lighting with Large Scale Printable Nanocarbon Paper (Adv. Mater. 23/2016). Advanced Materials, 2016, 28, 4566-4566.	11.1	3
58	Flexible, High Temperature, Planar Lighting with Large Scale Printable Nanocarbon Paper. Advanced Materials, 2016, 28, 4684-4691.	11.1	59
59	Single-Walled Carbon Nanotubes based sensors and amplifier circuit integrated on flexible substrates. , 2016, , .		0
60	Advanced vertically aligned carbon nanotube based energy storage devices. , 2016, , .		0
61	Low-Temperature H₂S Detection with Hierarchical Cr-Doped WO₃ Microspheres. ACS Applied Materials & Interfaces, 2016, 8, 9674-9683.	4.0	136
62	Applications of Carbon Nanotubes in CFx Electrodes for High-power Li/CFx Batteries. MRS Advances, 2016, 1, 403-408.	0.5	5
63	Giant Humidity Response Using a Chitosan-Based Protonic Conductive Sensor. IEEE Sensors Journal, 2016, 16, 8884-8889.	2.4	15
64	Highâ€Quality Whisperingâ€Galleryâ€Mode Lasing from Cesium Lead Halide Perovskite Nanoplatelets. Advanced Functional Materials, 2016, 26, 6238-6245.	7.8	529
65	A highly sensitive, highly transparent, gel-gated MoS₂ phototransistor on biodegradable nanopaper. Nanoscale, 2016, 8, 14237-14242.	2.8	38
66	A hierarchical 3D carbon nanostructure for high areal capacity and flexible lithium ion batteries. Carbon, 2016, 98, 504-509.	5.4	45
67	Optimization of coplanar high rate supercapacitors. Journal of Power Sources, 2016, 315, 1-8.	4.0	22
68	Metal-free SWNT/carbon/MnO 2 hybrid electrode for high performance coplanar micro-supercapacitors. Nano Energy, 2016, 22, 11-18.	8.2	64
69	Enhancement of humidity sensitivity of graphene through functionalization with polyethylenimine. Applied Physics Letters, 2015, 107, .	1.5	28
70	Roles of inter-SWCNT junctions in resistive humidity response. Nanotechnology, 2015, 26, 455501.	1.3	16
71	Bi-functional electrode for UV detector and supercapacitor. Nano Energy, 2015, 15, 445-452.	8.2	18
72	Influences of annealing on lithium-ion storage performance of thick germanium film anodes. Nano Energy, 2015, 12, 521-527.	8.2	16

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73	Atomic layer deposition of Co₃O₄ on carbon nanotubes/carbon cloth for high-capacitance and ultrastable supercapacitor electrode. Nanotechnology, 2015, 26, 094001.	1.3	84
74	Niâ€“Si nanosheet network as high performance anode for Li ion batteries. Journal of Power Sources, 2015, 280, 393-396.	4.0	51
75	Progress towards high-power Li/CF_xbatteries: electrode architectures using carbon nanotubes with CF_x. Physical Chemistry Chemical Physics, 2015, 17, 22504-22518.	1.3	76
76	Highly stable and flexible Li-ion battery anodes based on TiO₂ coated 3D carbon nanostructures. Journal of Materials Chemistry A, 2015, 3, 15394-15398.	5.2	65
77	Carbon Nanotube Driver Circuit for 6 Ã— 6 Organic Light Emitting Diode Display. Scientific Reports, 2015, 5, 11755.	1.6	38
78	MoS₂/Si Heterojunction with Vertically Standing Layered Structure for Ultrafast, Highâ€Detectivity, Selfâ€Driven Visibleâ€“Near Infrared Photodetectors. Advanced Functional Materials, 2015, 25, 2910-2919.	7.8	554
79	Raman Signatures of Broken Câ€“C Bonds in Single-Walled Carbon Nanotubes upon [2 + 1] Cycloaddition. Journal of Physical Chemistry C, 2015, 119, 18753-18761.	1.5	7
80	On-chip surface modified nanostructured ZnO as functional pH sensors. Nanotechnology, 2015, 26, 355202.	1.3	17
81	High performance binder-free Sn coated carbon nanotube array anode. Carbon, 2015, 82, 282-287.	5.4	65
82	Graphene/mica based ammonia gas sensors. Applied Physics Letters, 2014, 105, .	1.5	50
83	Encapsulate-and-peel: fabricating carbon nanotube CMOS integrated circuits in a flexible ultra-thin plastic film. Nanotechnology, 2014, 25, 065301.	1.3	17
84	Sputtered nickel oxide on vertically-aligned multiwall carbon nanotube arrays for lithium-ion batteries. Carbon, 2014, 68, 619-627.	5.4	46
85	Vertically Aligned CNTâ€Supported Thick Ge Films as Highâ€Performance 3D Anodes for Lithium Ion Batteries. Small, 2014, 10, 2826-2829.	5.2	61
86	High areal capacity Li ion battery anode based on thick mesoporous Co3O4 nanosheet networks. Nano Energy, 2014, 5, 91-96.	8.2	112
87	Few-Layer MoS₂: A Promising Layered Semiconductor. ACS Nano, 2014, 8, 4074-4099.	7.3	1,181
88	Soft silicon anodes for lithium ion batteries. Energy and Environmental Science, 2014, 7, 2261.	15.6	70
89	Highly Stable and Reversible Lithium Storage in SnO₂ Nanowires Surface Coated with a Uniform Hollow Shell by Atomic Layer Deposition. Nano Letters, 2014, 14, 4852-4858.	4.5	269
90	Copperâ€“silicon coreâ€“shell nanotube arrays for free-standing lithium ion battery anodes. Journal of Materials Chemistry A, 2014, 2, 15294.	5.2	48

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91	A multilayer Si/CNT coaxial nanofiber LIB anode with a high areal capacity. Energy and Environmental Science, 2014, 7, 655-661.	15.6	174
92	Graphene Field Effect Transistors with Mica as Gate Dielectric Layers. Small, 2014, 10, 4213-4218.	5.2	24
93	Stable cyclic performance of nickel oxideâ€“carbon composite anode for lithium-ion batteries. Thin Solid Films, 2014, 558, 356-364.	0.8	17
94	Large scale low cost fabrication of diameter controllable silicon nanowire arrays. Nanotechnology, 2014, 25, 255302.	1.3	18
95	Germanium coated vertically-aligned multiwall carbon nanotubes as lithium-ion battery anodes. Carbon, 2014, 77, 551-559.	5.4	33
96	Ultrahigh volumetric capacity lithium ion battery anodes with CNTâ€“Si film. Nano Energy, 2014, 8, 71-77.	8.2	95
97	Excitonics of semiconductor quantum dots and wires for lighting and displays. Laser and Photonics Reviews, 2014, 8, 73-93.	4.4	67
98	Mesoporous NiO nanosheet networks as high performance anodes for Li ion batteries. Journal of Materials Chemistry A, 2013, 1, 4173.	5.2	259
99	High performance lithium ion battery anodes based on carbon nanotubeâ€“silicon coreâ€“shell nanowires with controlled morphology. Carbon, 2013, 59, 264-269.	5.4	103
100	Layer Thinning and Etching of Mechanically Exfoliated MoS₂ Nanosheets by Thermal Annealing in Air. Small, 2013, 9, 3314-3319.	5.2	229
101	Coreâ€“shell CNTâ€“Niâ€“Si nanowires as a high performance anode material for lithium ion batteries. Carbon, 2013, 63, 54-60.	5.4	41
102	Covalently Functionalized Metallic Single-Walled Carbon Nanotubes Studied Using Electrostatic Force Microscopy and Dielectric Force Microscopy. Journal of Physical Chemistry C, 2013, 117, 24570-24578.	1.5	11
103	High performance carbon nanotubeâ€“Si coreâ€“shell wires with a rationally structured core for lithium ion battery anodes. Nanoscale, 2013, 5, 1503.	2.8	66
104	Three-dimensional network current collectors supported Si nanowires for lithium-ion battery applications. Electrochimica Acta, 2013, 88, 766-771.	2.6	44
105	Binder-free Si nanoparticles@carbon nanofiber fabric as energy storage material. Electrochimica Acta, 2013, 102, 246-251.	2.6	60
106	Scalable and Effective Enrichment of Semiconducting Single-Walled Carbon Nanotubes by a Dual Selective Naphthalene-Based Azo Dispersant. Journal of the American Chemical Society, 2013, 135, 5569-5581.	6.6	36
107	Influence of contact height on the performance of vertically aligned carbon nanotube field-effect transistors. Nanoscale, 2013, 5, 2476.	2.8	3
108	Complementary Logic Gate Arrays Based on Carbon Nanotube Network Transistors. Small, 2013, 9, 813-819.	5.2	25

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109	Transparent Junctionless Electric-Double-Layer Transistors Gated by a Reinforced Chitosan-Based Biopolymer Electrolyte. IEEE Transactions on Electron Devices, 2013, 60, 1951-1957.	1.6	22
110	Diameter Effect on the Sidewall Functionalization of Single‐Walled Carbon Nanotubes by Addition of Dichlorocarbene. Advanced Functional Materials, 2012, 22, 5216-5223.	7.8	13
111	Novel silicon–nickel cone arrays for high performance LIB anodes. Journal of Materials Chemistry, 2012, 22, 20870.	6.7	26
112	Rechargeable lithium battery based on a single hexagonal tungsten trioxide nanowire. Nano Energy, 2012, 1, 172-175.	8.2	38
113	Fabrication of Single‐ and Multilayer MoS₂ Film‐Based Field‐Effect Transistors for Sensing NO at Room Temperature. Small, 2012, 8, 63-67.	5.2	1,346
114	Optical Identification of Single‐ and Few‐Layer MoS₂ Sheets. Small, 2012, 8, 682-686.	5.2	290
115	Layered Nanomaterials: Fabrication of Single- and Multilayer MoS2 Film-Based Field-Effect Transistors for Sensing NO at Room Temperature (Small 1/2012). Small, 2012, 8, 2-2.	5.2	4
116	Ultra‐thin and Flat Mica as Gate Dielectric Layers. Small, 2012, 8, 2178-2183.	5.2	31
117	Single-Layer MoS₂Phototransistors. ACS Nano, 2012, 6, 74-80.	7.3	3,103
118	From Bulk to Monolayer MoS₂: Evolution of Raman Scattering. Advanced Functional Materials, 2012, 22, 1385-1390.	7.8	3,354
119	Fabrication of Graphene Nanomesh by Using an Anodic Aluminum Oxide Membrane as a Template. Advanced Materials, 2012, 24, 4138-4142.	11.1	183
120	Single-Wall Carbon Nanotube-Based Transparent and Conductive Films. , 2012, , .		0
121	Giant Persistent Photoconductivity of the WO3 Nanowires in Vacuum Condition. Nanoscale Research Letters, 2011, 6, 52.	3.1	17
122	Electrical transport in carbon nanotube intermolecular p-n junctions. , 2011, , .		1
123	Ambipolar to Unipolar Conversion in Graphene Field-Effect Transistors. ACS Nano, 2011, 5, 3198-3203.	7.3	60
124	Piperidine induced polarity conversion in single-walled carbon nanotube field effect transistors. Nanotechnology, 2011, 22, 245306.	1.3	4
125	A molecular quantum wire of linear carbon chains encapsulated within single-walled carbon nanotube (Cn@SWNT). Journal of Applied Physics, 2011, 109, 016108.	1.1	5
126	Direct laser writing of micro-supercapacitors on hydrated graphite oxide films. Nature Nanotechnology, 2011, 6, 496-500.	15.6	1,322

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127	Carbeneâ€Functionalized Singleâ€Walled Carbon Nanotubes and Their Electrical Properties. Small, 2011, 7, 1257-1263.	5.2	24
128	Selfâ€Aligned Subâ€10â€nm Nanogap Electrode Array for Largeâ€Scale Integration. Small, 2011, 7, 2195-2200.	5.2	7
129	Ultraviolet photoconductance of a single hexagonal WO3 nanowire. Nano Research, 2010, 3, 281-287.	5.8	127
130	Physical device modeling of carbon nanotube/GaAs photovoltaic cells. Applied Physics Letters, 2010, 96, 043501.	1.5	17
131	FABRICATION OF CARBON NANOTUBE FIELD EFFECT TRANSISTORS WITH OCMC DISPERSED SINGLE-WALLED CARBON NANOTUBES. International Journal of Nanoscience, 2010, 09, 377-381.	0.4	0
132	Carbon nanotube field-effect transistors functionalized with self-assembly gold nanocrystals. Nanotechnology, 2010, 21, 095202.	1.3	3
133	Selective Small-Diameter Metallic Single-Walled Carbon Nanotube Removal by Mere Standing with Anthraquinone and Application to a Field-Effect Transistor. Journal of Physical Chemistry C, 2010, 114, 21035-21041.	1.5	13
134	Self-Built Tensile Strain in Large Single-Walled Carbon Nanotubes. ACS Nano, 2010, 4, 992-998.	7.3	4
135	Ultraviolet Photodetectors Based on Anodic TiO₂ Nanotube Arrays. Journal of Physical Chemistry C, 2010, 114, 10725-10729.	1.5	230
136	Causes of asymmetry in graphene transfer characteristics. , 2010, , .		4
137	Simultaneous Fabrication of Very High Aspect Ratio Positive Nano- to Milliscale Structures. Small, 2009, 5, 1043-1050.	5.2	4
138	Chemically induced air- stable unipolar-to-ambipolar conversion of carbon nanotube field effect transistors. Chemical Physics Letters, 2009, 470, 95-98.	1.2	5
139	Kinetics Studies of Ultralong Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2009, 113, 10896-10900.	1.5	24
140	Tunable ambipolar Coulomb blockade characteristics in carbon nanotubes-gated carbon nanotube field-effect transistors. Applied Physics Letters, 2009, 94, 022101.	1.5	7
141	Correlation between in Situ Raman Scattering and Electrical Conductance for an Individual Double-Walled Carbon Nanotube. Nano Letters, 2009, 9, 383-387.	4.5	13
142	Sensing Mechanisms for Carbon Nanotube Based NH₃ Gas Detection. Nano Letters, 2009, 9, 1626-1630.	4.5	223
143	Nanoscale Contacts between Carbon Nanotubes and Metallic Pads. ACS Nano, 2009, 3, 4117-4121.	7.3	13
144	Carbon Nanotubes for Electrochemical and Electronic Biosensing Applications. , 2009, , 205-246.		7

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145	Realâ€Time Nitrophenol Detection Using Singleâ€Walled Carbon Nanotube Based Devices. Electroanalysis, 2008, 20, 558-562.	1.5	24
146	Theoretical study of the performance for short channel carbon nanotube transistors with asymmetric contacts. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6940-6943.	0.9	3
147	Gate modulation in carbon nanotube field effect transistors-based NH3 gas sensors. Sensors and Actuators B: Chemical, 2008, 132, 191-195.	4.0	43
148	Unique Carbon-Nanotube Field-Effect Transistors with Asymmetric Source and Drain Contacts. Nano Letters, 2008, 8, 64-68.	4.5	33
149	Global and local charge trapping in carbon nanotube field-effect transistors. Nanotechnology, 2008, 19, 175203.	1.3	9
150	Individually Dispersing Single-Walled Carbon Nanotubes with Novel Neutral pH Water-Soluble Chitosan Derivatives. Journal of Physical Chemistry C, 2008, 112, 7579-7587.	1.5	102
151	Motion of Carbon Nanotubes in suspension under AC electric field. International Journal of Nanomanufacturing, 2008, 2, 50.	0.3	8
152	Study of gaseous interactions in carbon nanotube field-effect transistors through selective Si3N4passivation. Nanotechnology, 2008, 19, 465201.	1.3	7
153	The residual pattern of double thin-film over-etching for the fabrication of continuous patterns with dimensions varying from 50 nm to millimeters over a large area. Nanotechnology, 2008, 19, 155301.	1.3	3
154	High aspect ratio silicon nanomoulds for UV embossing fabricated by directional thermal oxidation using an oxidation mask. Nanotechnology, 2007, 18, 355307.	1.3	10
155	Aligned single-walled carbon nanotube patterns with nanoscale width, micron-scale length and controllable pitch. Nanotechnology, 2007, 18, 455302.	1.3	29
156	Current instability of carbon nanotube field effect transistors. Nanotechnology, 2007, 18, 424035.	1.3	11
157	Fabrication of Carbon Nanotube Field-Effect Transistors by Fluidic Alignment Technique. IEEE Nanotechnology Magazine, 2007, 6, 481-484.	1.1	22
158	Hysteretic transfer characteristics of double-walled and single-walled carbon nanotube field-effect transistors. Applied Physics Letters, 2007, 91, 143118.	1.5	11
159	Single-Walled Carbon Nanotube Based Real-Time Organophosphate Detector. Electroanalysis, 2007, 19, 616-619.	1.5	38
160	Advances in Carbon-Nanotube Assembly. Small, 2007, 3, 24-42.	5.2	174
161	Transfer Printing of Submicrometer Patterns of Aligned Carbon Nanotubes onto Functionalized Electrodes. Small, 2007, 3, 616-621.	5.2	27
162	A Comprehensive Study of Cobalt Salicide-Induced SRAM Leakage for 90-nm CMOS Technology. IEEE Transactions on Electron Devices, 2007, 54, 2730-2737.	1.6	3

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163	Influences of ac electric field on the spatial distribution of carbon nanotubes formed between electrodes. Journal of Applied Physics, 2006, 100, 024309.	1.1	60
164	Simulation of carbon nanotube based pâ€“n junction diodes. Carbon, 2006, 44, 3087-3090.	5.4	19
165	Microbial detection in microfluidic devices through dual staining of quantum dots-labeled immunoassay and RNA hybridization. Analytica Chimica Acta, 2006, 556, 171-177.	2.6	48
166	Large-scale submicron horizontally aligned single-walled carbon nanotube surface arrays on various substrates produced by a fluidic assembly method. Nanotechnology, 2006, 17, 5696-5701.	1.3	30
167	CHARGE STORAGE IN CARBON NANOTUBE FIELD-EFFECT TRANSISTORS. International Journal of Nanoscience, 2006, 05, 553-557.	0.4	2
168	Interpretation of Coulomb oscillations in carbon-nanotube-based field-effect transistors. Physical Review B, 2006, 73, .	1.1	6
169	Carbon-nanotube-based single-electron/hole transistors. Applied Physics Letters, 2006, 88, 013508.	1.5	23
170	ANNEALING EFFECTS ON ELECTRIC CONTACTS BETWEEN CARBON NANOTUBES AND ELECTRODES. International Journal of Nanoscience, 2006, 05, 401-406.	0.4	3
171	Influence of Triton X-100 on the characteristics of carbon nanotube field-effect transistors. Nanotechnology, 2006, 17, 668-673.	1.3	20
172	Correlation between adhesion of diamond-like carbon film on LiTaO3 substrate and SAW velocity. Surface and Coatings Technology, 2005, 198, 198-201.	2.2	15
173	Study of well adherent DLC film deposited on piezoelectric LiTaO3 substrate. Applied Surface Science, 2005, 239, 255-258.	3.1	16
174	Room-temperature negative differential conductance in carbon nanotubes. Carbon, 2005, 43, 667-670.	5.4	17
175	Simulation of ambipolar-to-unipolar conversion of carbon nanotube based field effect transistors. Nanotechnology, 2005, 16, 1415-1418.	1.3	18
176	Manipulation of carbon nanotubes using AC dielectrophoresis. Applied Physics Letters, 2005, 86, 153116.	1.5	127
177	Fabrication of carbon nanotube field effect transistors by AC dielectrophoresis method. Carbon, 2004, 42, 2263-2267.	5.4	138
178	Multi-walled carbon nanotube-based gas sensors for NH3 detection. Diamond and Related Materials, 2004, 13, 1327-1332.	1.8	136
179	Memory effects of carbon nanotube-based field effect transistors. Diamond and Related Materials, 2004, 13, 1967-1970.	1.8	18
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