

Qing Zhang

List of Publications by Year in descending order

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papers

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times ranked

26160
citing authors

#	ARTICLE	IF	CITATIONS
1	From Bulk to Monolayer MoS ₂ : Evolution of Raman Scattering. <i>Advanced Functional Materials</i> , 2012, 22, 1385-1390.	7.8	3,354
2	Single-Layer MoS ₂ Phototransistors. <i>ACS Nano</i> , 2012, 6, 74-80.	7.3	3,103
3	Fabrication of Single- and Multilayer MoS ₂ Film-Based Field-Effect Transistors for Sensing NO at Room Temperature. <i>Small</i> , 2012, 8, 63-67.	5.2	1,346
4	Direct laser writing of micro-supercapacitors on hydrated graphite oxide films. <i>Nature Nanotechnology</i> , 2011, 6, 496-500.	15.6	1,322
5	Few-Layer MoS ₂ : A Promising Layered Semiconductor. <i>ACS Nano</i> , 2014, 8, 4074-4099.	7.3	1,181
6	High phase-purity 1T ⁻² -MoS ₂ - and 1T ⁻² -MoSe ₂ -layered crystals. <i>Nature Chemistry</i> , 2018, 10, 638-643.	6.6	757
7	MoS ₂ /Si Heterojunction with Vertically Standing Layered Structure for Ultrafast, High-Detectivity, Self-Driven Visible-Near Infrared Photodetectors. <i>Advanced Functional Materials</i> , 2015, 25, 2910-2919.	7.8	554
8	High-Quality Whispering-Gallery-Mode Lasing from Cesium Lead Halide Perovskite Nanoplatelets. <i>Advanced Functional Materials</i> , 2016, 26, 6238-6245.	7.8	529
9	Optical Identification of Single- and Few-Layer MoS ₂ Sheets. <i>Small</i> , 2012, 8, 682-686.	5.2	290
10	Highly Stable and Reversible Lithium Storage in SnO ₂ Nanowires Surface Coated with a Uniform Hollow Shell by Atomic Layer Deposition. <i>Nano Letters</i> , 2014, 14, 4852-4858.	4.5	269
11	Mesoporous NiO nanosheet networks as high performance anodes for Li ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4173.	5.2	259
12	Ultraviolet Photodetectors Based on Anodic TiO ₂ Nanotube Arrays. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10725-10729.	1.5	230
13	Layer Thinning and Etching of Mechanically Exfoliated MoS ₂ Nanosheets by Thermal Annealing in Air. <i>Small</i> , 2013, 9, 3314-3319.	5.2	229
14	Sensing Mechanisms for Carbon Nanotube Based NH ₃ Gas Detection. <i>Nano Letters</i> , 2009, 9, 1626-1630.	4.5	223
15	3R MoS ₂ with Broken Inversion Symmetry: A Promising Ultrathin Nonlinear Optical Device. <i>Advanced Materials</i> , 2017, 29, 1701486.	11.1	197
16	Fabrication of Graphene Nanomesh by Using an Anodic Aluminum Oxide Membrane as a Template. <i>Advanced Materials</i> , 2012, 24, 4138-4142.	11.1	183
17	Multi-walled carbon nanotubes for the immobilization of enzyme in glucose biosensors. <i>Electrochemistry Communications</i> , 2003, 5, 800-803.	2.3	178
18	Advances in Carbon-Nanotube Assembly. <i>Small</i> , 2007, 3, 24-42.	5.2	174

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19	A multilayer Si/CNT coaxial nanofiber LIB anode with a high areal capacity. Energy and Environmental Science, 2014, 7, 655-661.	15.6	174
20	A novel multi-walled carbon nanotube-based biosensor for glucose detection. Biochemical and Biophysical Research Communications, 2003, 311, 572-576.	1.0	164
21	Roles of carbon nanotubes in novel energy storage devices. Carbon, 2017, 122, 462-474.	5.4	157
22	Fabrication of carbon nanotube field effect transistors by AC dielectrophoresis method. Carbon, 2004, 42, 2263-2267.	5.4	138
23	Ultrahigh Oxygen Evolution Reaction Activity Achieved Using Ir Single Atoms on Amorphous CoO Nanosheets. ACS Catalysis, 2021, 11, 123-130.	5.5	138
24	Multi-walled carbon nanotube-based gas sensors for NH ₃ detection. Diamond and Related Materials, 2004, 13, 1327-1332.	1.8	136
25	Low-Temperature H ₂ S Detection with Hierarchical Cr-Doped WO ₃ Microspheres. ACS Applied Materials & Interfaces, 2016, 8, 9674-9683.	4.0	136
26	Manipulation of carbon nanotubes using AC dielectrophoresis. Applied Physics Letters, 2005, 86, 1531-16.	1.5	127
27	Ultraviolet photoconductance of a single hexagonal WO ₃ nanowire. Nano Research, 2010, 3, 281-287.	5.8	127
28	DNA biosensors based on self-assembled carbon nanotubes. Biochemical and Biophysical Research Communications, 2004, 325, 1433-1437.	1.0	119
29	High areal capacity Li ion battery anode based on thick mesoporous Co ₃ O ₄ nanosheet networks. Nano Energy, 2014, 5, 91-96.	8.2	112
30	Atomically Dispersed Co ^{II} P ₃ on CdS Nanorods with Electron-Rich Feature Boosts Photocatalysis. Advanced Materials, 2020, 32, e1904249.	11.1	105
31	High performance lithium ion battery anodes based on carbon nanotube-silicon core-shell nanowires with controlled morphology. Carbon, 2013, 59, 264-269.	5.4	103
32	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
33	Direct current triboelectric cell by sliding an n-type semiconductor on a p-type semiconductor. Nano Energy, 2019, 66, 104185.	8.2	98
34	Ultrahigh volumetric capacity lithium ion battery anodes with CNT-Si film. Nano Energy, 2014, 8, 71-77.	8.2	95
35	Direct Chemical Vapor Deposition Growth and Band-Gap Characterization of MoS ₂ /h-BN van der Waals Heterostructures on Au Foils. ACS Nano, 2017, 11, 4328-4336.	7.3	87
36	Atomic layer deposition of Co ₃ O ₄ on carbon nanotubes/carbon cloth for high-capacitance and ultrastable supercapacitor electrode. Nanotechnology, 2015, 26, 094001.	1.3	84

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37	Progress towards high-power Li/CF _x batteries: electrode architectures using carbon nanotubes with CF _x . Physical Chemistry Chemical Physics, 2015, 17, 22504-22518.	1.3	76
38	Soft silicon anodes for lithium ion batteries. Energy and Environmental Science, 2014, 7, 2261.	15.6	70
39	Excitronics of semiconductor quantum dots and wires for lighting and displays. Laser and Photonics Reviews, 2014, 8, 73-93.	4.4	67
40	Edge-oriented and steerable hyperbolic polaritons in anisotropic van der Waals nanocavities. Nature Communications, 2020, 11, 6086.	5.8	67
41	High performance carbon nanotube@Si core-shell wires with a rationally structured core for lithium ion battery anodes. Nanoscale, 2013, 5, 1503.	2.8	66
42	Highly stable and flexible Li-ion battery anodes based on TiO ₂ coated 3D carbon nanostructures. Journal of Materials Chemistry A, 2015, 3, 15394-15398.	5.2	65
43	High performance binder-free Sn coated carbon nanotube array anode. Carbon, 2015, 82, 282-287.	5.4	65
44	Metal-free SWNT/carbon/MnO ₂ hybrid electrode for high performance coplanar micro-supercapacitors. Nano Energy, 2016, 22, 11-18.	8.2	64
45	Vertically Aligned CNT-Supported Thick Ge Films as High-Performance 3D Anodes for Lithium Ion Batteries. Small, 2014, 10, 2826-2829.	5.2	61
46	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
47	Ambipolar to Unipolar Conversion in Graphene Field-Effect Transistors. ACS Nano, 2011, 5, 3198-3203.	7.3	60
48	Binder-free Si nanoparticles@carbon nanofiber fabric as energy storage material. Electrochimica Acta, 2013, 102, 246-251.	2.6	60
49	Flexible, High Temperature, Planar Lighting with Large Scale Printable Nanocarbon Paper. Advanced Materials, 2016, 28, 4684-4691.	11.1	59
50	Full-color enhanced second harmonic generation using rainbow trapping in ultrathin hyperbolic metamaterials. Nature Communications, 2021, 12, 6425.	5.8	58
51	Electron field emission enhancement effects of nano-diamond films. Surface and Coatings Technology, 2003, 167, 143-147.	2.2	57
52	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
53	Semiconductor-based dynamic heterojunctions as an emerging strategy for high direct-current mechanical energy harvesting. Nano Energy, 2021, 83, 105849.	8.2	56
54	In-plane Anisotropic Properties of 1Tâ€²â€²MoS ₂ Layers. Advanced Materials, 2019, 31, e1807764.	11.1	55

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55	Ni@Si nanosheet network as high performance anode for Li ion batteries. <i>Journal of Power Sources</i> , 2015, 280, 393-396.	4.0	51
56	Graphene/mica based ammonia gas sensors. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	50
57	Deposition of hydrogenated diamond-like carbon films under the impact of energetic hydrocarbon ions. <i>Journal of Applied Physics</i> , 1998, 84, 5538-5542.	1.1	48
58	Microbial detection in microfluidic devices through dual staining of quantum dots-labeled immunoassay and RNA hybridization. <i>Analytica Chimica Acta</i> , 2006, 556, 171-177.	2.6	48
59	Copper@silicon core-shell nanotube arrays for free-standing lithium ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15294.	5.2	48
60	Electron field emission from carbon nanotubes and undoped nano-diamond. <i>Diamond and Related Materials</i> , 2003, 12, 8-14.	1.8	46
61	Sputtered nickel oxide on vertically-aligned multiwall carbon nanotube arrays for lithium-ion batteries. <i>Carbon</i> , 2014, 68, 619-627.	5.4	46
62	A hierarchical 3D carbon nanostructure for high areal capacity and flexible lithium ion batteries. <i>Carbon</i> , 2016, 98, 504-509.	5.4	45
63	Three-dimensional network current collectors supported Si nanowires for lithium-ion battery applications. <i>Electrochimica Acta</i> , 2013, 88, 766-771.	2.6	44
64	Gate modulation in carbon nanotube field effect transistors-based NH ₃ gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2008, 132, 191-195.	4.0	43
65	Core-shell CNT@Ni@Si nanowires as a high performance anode material for lithium ion batteries. <i>Carbon</i> , 2013, 63, 54-60.	5.4	41
66	Enhanced Performance of an Electric Double Layer Microsupercapacitor Based on Novel Carbon-Encapsulated Cu Nanowire Network Structure As the Electrode. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40481-40489.	4.0	40
67	Advances of Nonlinear Photonics in Low-Dimensional Halide Perovskites. <i>Small</i> , 2021, 17, e2100809.	5.2	39
68	Single-Walled Carbon Nanotube Based Real-Time Organophosphate Detector. <i>Electroanalysis</i> , 2007, 19, 616-619.	1.5	38
69	Rechargeable lithium battery based on a single hexagonal tungsten trioxide nanowire. <i>Nano Energy</i> , 2012, 1, 172-175.	8.2	38
70	Carbon Nanotube Driver Circuit for 6 Å— 6 Organic Light Emitting Diode Display. <i>Scientific Reports</i> , 2015, 5, 11755.	1.6	38
71	A highly sensitive, highly transparent, gel-gated MoS ₂ phototransistor on biodegradable nanopaper. <i>Nanoscale</i> , 2016, 8, 14237-14242.	2.8	38
72	Pumping electrons from chemical potential difference. <i>Nano Energy</i> , 2018, 51, 698-703.	8.2	38

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73	Photoconductive Micro/Nanoscale Interfaces of a Semiconducting Polymer for Wireless Stimulation of Neuron-Like Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4833-4841.	4.0	37
74	Scalable and Effective Enrichment of Semiconducting Single-Walled Carbon Nanotubes by a Dual Selective Naphthalene-Based Azo Dispersant. <i>Journal of the American Chemical Society</i> , 2013, 135, 5569-5581.	6.6	36
75	Inkjet printing of oxide thin film transistor arrays with small spacing with polymer-doped metal nitrate aqueous ink. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7495-7503.	2.7	36
76	Trapped Excitonâ€Polariton Condensate by Spatial Confinement in a Perovskite Microcavity. <i>ACS Photonics</i> , 2020, 7, 327-337.	3.2	36
77	Functionalized horizontally aligned CNT array and random CNT network for CO2 sensing. <i>Carbon</i> , 2017, 117, 263-270.	5.4	35
78	Unique Carbon-Nanotube Field-Effect Transistors with Asymmetric Source and Drain Contacts. <i>Nano Letters</i> , 2008, 8, 64-68.	4.5	33
79	Germanium coated vertically-aligned multiwall carbon nanotubes as lithium-ion battery anodes. <i>Carbon</i> , 2014, 77, 551-559.	5.4	33
80	Ultraâ€Thin and Flat Mica as Gate Dielectric Layers. <i>Small</i> , 2012, 8, 2178-2183.	5.2	31
81	Strain-Modulated Photoelectric Responses from a Flexible $\text{In}_2\text{Se}_3/3\text{R MoS}_2$ Heterojunction. <i>Nano-Micro Letters</i> , 2021, 13, 74.	14.4	31
82	Solvent Recrystallizationâ€Enabled Green Amplified Spontaneous Emissions with an Ultraâ€Low Threshold from Pinholeâ€Free Perovskite Films. <i>Advanced Functional Materials</i> , 2021, 31, 2106108.	7.8	31
83	Influence of oxygen on the thermal stability of amorphous hydrogenated carbon films. <i>Journal of Applied Physics</i> , 1998, 83, 1349-1353.	1.1	30
84	Large-scale submicron horizontally aligned single-walled carbon nanotube surface arrays on various substrates produced by a fluidic assembly method. <i>Nanotechnology</i> , 2006, 17, 5696-5701.	1.3	30
85	Analysis of photoluminescence behavior of high-quality single-layer MoS_2 . <i>Nano Research</i> , 2019, 12, 1619-1624.	5.8	30
86	Study of hydrogenated diamond-like carbon films using x-ray reflectivity. <i>Journal of Applied Physics</i> , 1999, 86, 289-296.	1.1	29
87	Aligned single-walled carbon nanotube patterns with nanoscale width, micron-scale length and controllable pitch. <i>Nanotechnology</i> , 2007, 18, 455302.	1.3	29
88	Enhancement of humidity sensitivity of graphene through functionalization with polyethylenimine. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	28
89	Transfer Printing of Submicrometer Patterns of Aligned Carbon Nanotubes onto Functionalized Electrodes. <i>Small</i> , 2007, 3, 616-621.	5.2	27
90	Superâ€Clear Nanopaper from Agroâ€Industrial Waste for Green Electronics. <i>Advanced Electronic Materials</i> , 2017, 3, 1600539.	2.6	27

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91	Novel silicon-nickel core arrays for high performance LIB anodes. Journal of Materials Chemistry, 2012, 22, 20870.	6.7	26
92	Homologous Bromides Treatment for Improving the Open-Circuit Voltage of Perovskite Solar Cells. Advanced Materials, 2022, 34, e2106280.	11.1	26
93	Study of diamond-like carbon films on LiNbO ₃ . Thin Solid Films, 2000, 360, 274-277.	0.8	25
94	Optical properties of nano-crystalline diamond films deposited by MPECVD. Optical Materials, 2003, 24, 509-514.	1.7	25
95	Complementary Logic Gate Arrays Based on Carbon Nanotube Network Transistors. Small, 2013, 9, 813-819.	5.2	25
96	Visualization of structural evolution and phase distribution of a lithium vanadium oxide (Li _{1.1} V ₃ O ₈) electrode via an operando and in situ energy dispersive X-ray diffraction technique. Physical Chemistry Chemical Physics, 2017, 19, 14160-14169.	1.3	25
97	Real-Time Nitrophenol Detection Using Single-Walled Carbon Nanotube Based Devices. Electroanalysis, 2008, 20, 558-562.	1.5	24
98	Kinetics Studies of Ultralong Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2009, 113, 10896-10900.	1.5	24
99	Carbene-Functionalized Single-Walled Carbon Nanotubes and Their Electrical Properties. Small, 2011, 7, 1257-1263.	5.2	24
100	Graphene Field Effect Transistors with Mica as Gate Dielectric Layers. Small, 2014, 10, 4213-4218.	5.2	24
101	Sonochemistry-enabled uniform coupling of SnO ₂ nanocrystals with graphene sheets as anode materials for lithium-ion batteries. RSC Advances, 2019, 9, 5942-5947.	1.7	24
102	Matrix Manipulation of Directly-Synthesized PbS Quantum Dot Inks Enabled by Coordination Engineering. Advanced Functional Materials, 2021, 31, 2104457.	7.8	24
103	Enabling Ultrastable Alkali Metal Anodes by Artificial Solid Electrolyte Interphase Fluorination. Nano Letters, 2022, 22, 4347-4353.	4.5	24
104	Carbon-nanotube-based single-electron/hole transistors. Applied Physics Letters, 2006, 88, 013508.	1.5	23
105	Controlled Gas Molecules Doping of Monolayer MoS ₂ via Atomic-Layer-Deposited Al ₂ O ₃ Films. ACS Applied Materials & Interfaces, 2017, 9, 27402-27408.	4.0	23
106	Fabrication of Carbon Nanotube Field-Effect Transistors by Fluidic Alignment Technique. IEEE Nanotechnology Magazine, 2007, 6, 481-484.	1.1	22
107	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
108	Optimization of coplanar high rate supercapacitors. Journal of Power Sources, 2016, 315, 1-8.	4.0	22

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109	Light Soaking of a-Si:H at 77 K. Japanese Journal of Applied Physics, 1993, 32, L371-L374.	0.8	21
110	Metastable-defect generation in hydrogenated amorphous silicon. Physical Review B, 1994, 50, 1551-1556.	1.1	21
111	Influence of Triton X-100 on the characteristics of carbon nanotube field-effect transistors. Nanotechnology, 2006, 17, 668-673.	1.3	20
112	The Auger process in multilayer WSe ₂ crystals. Nanoscale, 2018, 10, 17585-17592.	2.8	20
113	Strong Piezoelectricity in 3R-MoS ₂ Flakes. Advanced Electronic Materials, 2022, 8, .	2.6	20
114	Recovery Process for Light-Soaked A-Si:H. Materials Research Society Symposia Proceedings, 1994, 336, 269.	0.1	19
115	Simulation of carbon nanotube based p-n junction diodes. Carbon, 2006, 44, 3087-3090.	5.4	19
116	Boosting the electrocatalytic activity of amorphous molybdenum sulfide nanoflakes <i>via</i> nickel sulfide decoration. Nanoscale, 2019, 11, 22971-22979.	2.8	19
117	Enabling Atomic-Scale Imaging of Sensitive Potassium Metal and Related Solid Electrolyte Interphases Using Ultralow-Dose Cryo-TEM. Advanced Materials, 2021, 33, e2102666.	11.1	19
118	Memory effects of carbon nanotube-based field effect transistors. Diamond and Related Materials, 2004, 13, 1967-1970.	1.8	18
119	Simulation of ambipolar-to-unipolar conversion of carbon nanotube based field effect transistors. Nanotechnology, 2005, 16, 1415-1418.	1.3	18
120	Large scale low cost fabrication of diameter controllable silicon nanowire arrays. Nanotechnology, 2014, 25, 255302.	1.3	18
121	Bi-functional electrode for UV detector and supercapacitor. Nano Energy, 2015, 15, 445-452.	8.2	18
122	Unravelling high volumetric capacity of Co ₃ O ₄ nanograin-interconnected secondary particles for lithium-ion battery anodes. Journal of Materials Chemistry A, 2021, 9, 6242-6251.	5.2	18
123	The effects of nitrogen flow on the Raman spectra of polycrystalline diamond films. Microelectronics Journal, 1998, 29, 875-879.	1.1	17
124	Room-temperature negative differential conductance in carbon nanotubes. Carbon, 2005, 43, 667-670.	5.4	17
125	Giant Persistent Photoconductivity of the WO ₃ Nanowires in Vacuum Condition. Nanoscale Research Letters, 2011, 6, 52.	3.1	17
126	Physical device modeling of carbon nanotube/GaAs photovoltaic cells. Applied Physics Letters, 2010, 96, 043501.	1.5	17

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127	Encapsulate-and-peel: fabricating carbon nanotube CMOS integrated circuits in a flexible ultra-thin plastic film. <i>Nanotechnology</i> , 2014, 25, 065301.	1.3	17
128	Stable cyclic performance of nickel oxide-carbon composite anode for lithium-ion batteries. <i>Thin Solid Films</i> , 2014, 558, 356-364.	0.8	17
129	On-chip surface modified nanostructured ZnO as functional pH sensors. <i>Nanotechnology</i> , 2015, 26, 355202.	1.3	17
130	Optical-reconfigurable carbon nanotube and indium-tin-oxide complementary thin-film transistor logic gates. <i>Nanoscale</i> , 2018, 10, 13122-13129.	2.8	17
131	Optically Modulated HfS ₂ -Based Synapses for Artificial Vision Systems. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 50132-50140.	4.0	17
132	Study of well adherent DLC film deposited on piezoelectric LiTaO ₃ substrate. <i>Applied Surface Science</i> , 2005, 239, 255-258.	3.1	16
133	Roles of inter-SWCNT junctions in resistive humidity response. <i>Nanotechnology</i> , 2015, 26, 455501.	1.3	16
134	Influences of annealing on lithium-ion storage performance of thick germanium film anodes. <i>Nano Energy</i> , 2015, 12, 521-527.	8.2	16
135	Synergistic effect of solvent and solid additives on morphology optimization for high-performance organic solar cells. <i>Science China Chemistry</i> , 2021, 64, 2017-2024.	4.2	16
136	Correlation between adhesion of diamond-like carbon film on LiTaO ₃ substrate and SAW velocity. <i>Surface and Coatings Technology</i> , 2005, 198, 198-201.	2.2	15
137	Giant Humidity Response Using a Chitosan-Based Protonic Conductive Sensor. <i>IEEE Sensors Journal</i> , 2016, 16, 8884-8889.	2.4	15
138	Current degradation mechanism of tip contact metal-silicon Schottky nanogenerator. <i>Nano Energy</i> , 2022, 94, 106888.	8.2	15
139	High-Resolution Inkjet-Printed Oxide Thin-Film Transistors with a Self-Aligned Fine Channel Bank Structure. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15847-15854.	4.0	14
140	Low excitation of Raman D-band in [2+1] cycloaddition functionalized single-walled carbon nanotubes. <i>Carbon</i> , 2018, 138, 188-196.	5.4	14
141	Structural Stability and Amorphization Transition in the Ni-Ti System Studied by Molecular Dynamics Simulation with an n-Body Potential. <i>Journal of the Physical Society of Japan</i> , 2000, 69, 2923-2937.	0.7	13
142	Correlation between in Situ Raman Scattering and Electrical Conductance for an Individual Double-Walled Carbon Nanotube. <i>Nano Letters</i> , 2009, 9, 383-387.	4.5	13
143	Nanoscale Contacts between Carbon Nanotubes and Metallic Pads. <i>ACS Nano</i> , 2009, 3, 4117-4121.	7.3	13
144	Selective Small-Diameter Metallic Single-Walled Carbon Nanotube Removal by Mere Standing with Anthraquinone and Application to a Field-Effect Transistor. <i>Journal of Physical Chemistry C</i> , 2010, 114, 21035-21041.	1.5	13

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145	Diameter Effect on the Sidewall Functionalization of Single-Walled Carbon Nanotubes by Addition of Dichlorocarbene. <i>Advanced Functional Materials</i> , 2012, 22, 5216-5223.	7.8	13
146	In-situ Functionalization of Metal Electrodes for Advanced Asymmetric Supercapacitors. <i>Frontiers in Chemistry</i> , 2019, 7, 512.	1.8	12
147	Photobleaching of light-induced paramagnetic defects in fast and slow processes in a-Si _{1-x} N _x :H alloys. <i>Physical Review B</i> , 1995, 51, 2137-2142.	1.1	11
148	Influence of light soaking on surface and bulk spin densities in hydrogenated amorphous silicon. <i>Journal of Applied Physics</i> , 1995, 78, 1230-1234.	1.1	11
149	Electron field emission from polycrystalline diamond films. <i>Journal of Materials Research</i> , 2000, 15, 212-217.	1.2	11
150	Speeding-up effects of hard carbon films on surface acoustic wave on crystalline quartz. <i>Thin Solid Films</i> , 2001, 397, 276-279.	0.8	11
151	Current instability of carbon nanotube field effect transistors. <i>Nanotechnology</i> , 2007, 18, 424035.	1.3	11
152	Hysteretic transfer characteristics of double-walled and single-walled carbon nanotube field-effect transistors. <i>Applied Physics Letters</i> , 2007, 91, 143118.	1.5	11
153	Covalently Functionalized Metallic Single-Walled Carbon Nanotubes Studied Using Electrostatic Force Microscopy and Dielectric Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24570-24578.	1.5	11
154	Influences of surface charges and gap width between p-type and n-type semiconductors on charge pumping. <i>Nano Energy</i> , 2020, 78, 105287.	8.2	11
155	Room-temperature Near-infrared Excitonic Lasing from Mechanically Exfoliated InSe Microflake. <i>ACS Nano</i> , 2022, 16, 1477-1485.	7.3	11
156	Engineering Near-Infrared Light Emission in Mechanically Exfoliated InSe Platelets through Hydrostatic Pressure for Multicolor Microlasing. <i>Nano Letters</i> , 2022, 22, 3840-3847.	4.5	11
157	Erosion resistance of polycrystalline diamond films to atomic oxygen. <i>Carbon</i> , 2003, 41, 1847-1850.	5.4	10
158	High aspect ratio silicon nanomoulds for UV embossing fabricated by directional thermal oxidation using an oxidation mask. <i>Nanotechnology</i> , 2007, 18, 355307.	1.3	10
159	Growth and electron field emission characteristics of nanodiamond films deposited in N ₂ /CH ₄ /H ₂ microwave plasma-enhanced chemical vapor deposition. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002, 20, 1982.	1.6	9
160	Global and local charge trapping in carbon nanotube field-effect transistors. <i>Nanotechnology</i> , 2008, 19, 175203.	1.3	9
161	Influence of Light-Soaking Temperature on the Distribution of Thermal-Annealing Activation Energies for Photocreated Dangling Bonds in Hydrogenated Amorphous Silicon. <i>Japanese Journal of Applied Physics</i> , 1995, 34, 5933-5942.	0.8	9
162	Advances and Frontiers in Single-Walled Carbon Nanotube Electronics. <i>Advanced Science</i> , 2021, 8, e2102860.	5.6	9

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163	The role of nitrogen in the deposition of polycrystalline diamond films. <i>Diamond and Related Materials</i> , 1999, 8, 215-219.	1.8	8
164	Structural modification of polymeric amorphous hydrogenated carbon films induced by high energetic He ⁺ irradiation and thermal annealing. <i>Diamond and Related Materials</i> , 2000, 9, 1758-1761.	1.8	8
165	Reaction of diamond thin films with atomic oxygen simulated as low-earth-orbit environment. <i>Journal of Applied Physics</i> , 2002, 92, 6275-6277.	1.1	8
166	Motion of Carbon Nanotubes in suspension under AC electric field. <i>International Journal of Nanomanufacturing</i> , 2008, 2, 50.	0.3	8
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