Jinquan Wei

List of Publications by Year
in descending order

251 papers	16,669 citations	16451 64 h-index	17105 122 g-index
252 all docs	252 docs citations	252 times ranked	20123 citing authors

#	Article	IF	Citations
1	Carbon Nanotube Sponges. Advanced Materials, 2010, 22, 617-621.	21.0	1,380
2	Grapheneâ€Onâ€Silicon Schottky Junction Solar Cells. Advanced Materials, 2010, 22, 2743-2748.	21.0	1,042
3	Lead adsorption on carbon nanotubes. Chemical Physics Letters, 2002, 357, 263-266.	2.6	649
4	Selective Ion Penetration of Graphene Oxide Membranes. ACS Nano, 2013, 7, 428-437.	14.6	635
5	Stretchable and highly sensitive graphene-on-polymer strain sensors. Scientific Reports, 2012, 2, 870.	3.3	517
6	Double-Walled Carbon Nanotube Solar Cells. Nano Letters, 2007, 7, 2317-2321.	9.1	321
7	Applications of carbon materials in photovoltaic solar cells. Solar Energy Materials and Solar Cells, 2009, 93, 1461-1470.	6.2	318
8	Adsorption of fluoride from water by aligned carbon nanotubes. Materials Research Bulletin, 2003, 38, 469-476.	5.2	312
9	Iodine doped carbon nanotube cables exceeding specific electrical conductivity of metals. Scientific Reports, 2011, 1, 83.	3.3	305
10	Colloidal Antireflection Coating Improves Grapheneâ€“Silicon Solar Cells. Nano Letters, 2013, 13, 1776-1781.	9.1	303
11	Core-Double-Shell, Carbon Nanotube@Polypyrrole@MnO₂ Sponge as Freestanding, Compressible Supercapacitor Electrode. ACS Applied Materials & Interfaces, 2014, 6, 5228-5234.	8.0	298
12	Recyclable carbon nanotube sponges for oil absorption. Acta Materialia, 2011, 59, 4798-4804.	7.9	276
13	Tribological properties of oleic acid-modified graphene as lubricant oil additives. Journal Physics D: Applied Physics, 2011, 44, 205303.	2.8	232
14	Achieving High Efficiency Silicon-Carbon Nanotube Heterojunction Solar Cells by Acid Doping. Nano Letters, 2011, 11, 1901-1905.	9.1	230
15	Soft, Highly Conductive Nanotube Sponges and Composites with Controlled Compressibility. ACS Nano, 2010, 4, 2320-2326.	14.6	219
16	Graphene/Silicon Nanowire Schottky Junction for Enhanced Light Harvesting. ACS Applied Materials & Interfaces, 2011, 3, 721-725.	8.0	214
17	Nanotubeâ€“Silicon Heterojunction Solar Cells. Advanced Materials, 2008, 20, 4594-4598.	21.0	210
18	Superâ€Stretchable Springâ€Like Carbon Nanotube Ropes. Advanced Materials, 2012, 24, 2896-2900.	21.0	193

#	Article	IF	Citations
19	Graphene sheets from worm-like exfoliated graphite. Journal of Materials Chemistry, 2009, 19, 3367.	6.7	189
20	Directly Drawing Self-Assembled, Porous, and Monolithic Graphene Fiber from Chemical Vapor Deposition Grown Graphene Film and Its Electrochemical Properties. Langmuir, 2011, 27, 12164-12171.	3.5	179
21	Rapid growth of well-aligned carbon nanotube arrays. Chemical Physics Letters, 2002, 362, 285-290.	2.6	177
22	Graphene/polyaniline woven fabric composite films as flexible supercapacitor electrodes. Nanoscale, 2015, 7, 7318-7322.	5.6	175
23	Carbon nanotubes filled with ferromagnetic alloy nanowires: Lightweight and wide-band microwave absorber. Applied Physics Letters, 2008, 93, .	3.3	172
24	Boron Doping of Graphene for Grapheneâ€“Silicon pâ€“n Junction Solar Cells. Advanced Energy Materials, 2012, 2, 425-429.	19.5	169
25	Formation of CuPd and CuPt Bimetallic Nanotubes by Galvanic Replacement Reaction. Journal of Physical Chemistry C, 2011, 115, 9403-9409.	3.1	163
26	Effect of different gel electrolytes on graphene-based solid-state supercapacitors. RSC Advances, 2014, 4, 36253-36256.	3.6	163
27	Multifunctional graphene woven fabrics. Scientific Reports, 2012, 2, 395.	3.3	156
28	Flexible all solid-state supercapacitors based on chemical vapor deposition derived graphene fibers. Physical Chemistry Chemical Physics, 2013, 15, 17752.	2.8	156
29	TiO2-Coated Carbon Nanotube-Silicon Solar Cells with Efficiency of 15%. Scientific Reports, 2012, 2, 884.	3.3	141
30	Ion doping of graphene for high-efficiency heterojunction solar cells. Nanoscale, 2013, 5, 1945.	5.6	136
31	Carbon nanofibers and single-walled carbon nanotubes prepared by the floating catalyst method. Carbon, 2001, 39, 329-335.	10.3	133
32	Graphene Nano-â€œpatchesâ€•on a Carbon Nanotube Network for Highly Transparent/Conductive Thin Film Applications. Journal of Physical Chemistry C, 2010, 114, 14008-14012.	3.1	125
33	Carbon nanotube-polypyrrole core-shell sponge and its application as highly compressible supercapacitor electrode. Nano Research, 2014, 7, 209-218.	10.4	115
34	A Review of the Role of Solvents in Formation of High-Quality Solution-Processed Perovskite Films. ACS Applied Materials & Interfaces, 2019, 11, 7639-7654.	8.0	113
35	Three-dimensional porous graphene sponges assembled with the combination of surfactant and freeze-drying. Nano Research, 2014, 7, 1477-1487.	10.4	111
36	Carbon nanotube filaments in household light bulbs. Applied Physics Letters, 2004, 84, 4869-4871.	3.3	105

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37	Anomalous Behaviors of Graphene Transparent Conductors in Grapheneâ€“Silicon Heterojunction Solar Cells. Advanced Energy Materials, 2013, 3, 1029-1034.	19.5	102
38	Highly deformation-tolerant carbon nanotube sponges as supercapacitor electrodes. Nanoscale, 2013, 5, 8472.	5.6	101
39	High performance of stretchable carbon nanotubeâ€“polypyrrole fiber supercapacitors under dynamic deformation and temperature variation. Journal of Materials Chemistry A, 2016, 4, 9311-9318.	10.3	99
40	Hybrid Heterojunction and Photoelectrochemistry Solar Cell Based on Silicon Nanowires and Double-Walled Carbon Nanotubes. Nano Letters, 2009, 9, 4338-4342.	9.1	98
41	Encapsulated carbon nanotube-oxide-silicon solar cells with stable 10% efficiency. Applied Physics Letters, 2011, 98, .	3.3	98
42	Carbon nanotube sponge filters for trapping nanoparticles and dye molecules from water. Chemical Communications, 2010, 46, 7966.	4.1	95
43	Highly efficient quasi-static water desalination using monolayer graphene oxide/titania hybrid laminates. NPG Asia Materials, 2015, 7, e162-e162.	7.9	94
44	Determination of band gaps of self-assembled carbon nanotube films using Tauc/Davisâ€“Mott model. Applied Physics A: Materials Science and Processing, 2009, 97, 341-344.	2.3	92
45	High performance carbon nanotube based fiber-shaped supercapacitors using redox additives of polypyrrole and hydroquinone. Journal of Materials Chemistry A, 2015, 3, 22353-22360.	10.3	91
46	Carbon Nanotube and CdSe Nanobelt Schottky Junction Solar Cells. Nano Letters, 2010, 10, 3583-3589.	9.1	90
47	Highly Twisted Double-Helix Carbon Nanotube Yarns. ACS Nano, 2013, 7, 1446-1453.	14.6	88
48	Tensile properties of long aligned double-walled carbon nanotube strands. Carbon, 2005, 43, 31-35.	10.3	86
49	Single-Crystalline Permalloy Nanowires in Carbon Nanotubes:â€‰ Enhanced Encapsulation and Magnetization. Journal of Physical Chemistry C, 2007, 111, 11475-11479.	3.1	84
50	Large-Scale Synthesis of Long Double-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2004, 108, 8844-8847.	2.6	81
51	Controllable growth of triangular hexagonal boron nitride domains on copper foils by an improved low-pressure chemical vapor deposition method. Nanotechnology, 2012, 23, 415605.	2.6	78
52	Effect of using chlorine-containing precursors in the synthesis of FeNi-filled carbon nanotubes. Carbon, 2007, 45, 1433-1438.	10.3	77
53	Large area, highly transparent carbon nanotube spiderwebs for energy harvesting. Journal of Materials Chemistry, 2010, 20, 7236.	6.7	76
54	Fabrication of high quality perovskite films by modulating the Pbâ€“O bonds in Lewis acidâ€“base adducts. Journal of Materials Chemistry A, 2017, 5, 8416-8422.	10.3	73

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55	In-situ synthesis of carbon nanotube/graphene composite sponge and its application as compressible supercapacitor electrode. Electrochimica Acta, 2015, 157, 134-141.	5.2	72
56	Preparation of highly pure double-walled carbon nanotubes. Journal of Materials Chemistry, 2003, 13, 1340.	6.7	70
57	In situ synthesis and magnetic anisotropy of ferromagnetic buckypaper. Carbon, 2009, 47, 1141-1145.	10.3	69
58	Direct Synthesis of Graphene Quantum Dots by Chemical Vapor Deposition. Particle and Particle Systems Characterization, 2013, 30, 764-769.	2.3	69
59	Oil spill cleanup from sea water by carbon nanotube sponges. Frontiers of Materials Science, 2013, 7, 170-176.	2.2	69
60	The effect of sulfur on the number of layers in a carbon nanotube. Carbon, 2007, 45, 2152-2158.	10.3	68
61	Strong and reversible modulation of carbon nanotubeâ€“silicon heterojunction solar cells by an interfacial oxide layer. Physical Chemistry Chemical Physics, 2012, 14, 8391.	2.8	68
62	Flame synthesis of few-layered graphene/graphite films. Chemical Communications, 2011, 47, 3520.	4.1	67
63	Graphene-CdSe nanobelt solar cells with tunable configurations. Nano Research, 2011, 4, 891-900.	10.4	67
64	Water, a Green Solvent for Fabrication of High-Quality CsPbBr₃ Films for Efficient Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 5925-5931.	8.0	67
65	A strategy to control the chirality of single-walled carbon nanotubes. Journal of Crystal Growth, 2008, 310, 5473-5476.	1.5	65
66	Polymer-Coated Graphene Aerogel Beads and Supercapacitor Application. ACS Applied Materials & Interfaces, 2016, 8, 11179-11187.	8.0	65
67	High-Performance, Ultra-Broadband, Ultraviolet to Terahertz Photodetectors Based on Suspended Carbon Nanotube Films. ACS Applied Materials & Interfaces, 2018, 10, 36304-36311.	8.0	64
68	Highly conductive, twistable and bendable polypyrroleâ€“carbon nanotube fiber for efficient supercapacitor electrodes. RSC Advances, 2015, 5, 22015-22021.	3.6	63
69	Small Temperature Coefficient of Resistivity of Graphene/Graphene Oxide Hybrid Membranes. ACS Applied Materials & Interfaces, 2013, 5, 9563-9571.	8.0	62
70	Enhanced performance of perovskite solar cells by modulating the Lewis acidâ€“base reaction. Nanoscale, 2016, 8, 19804-19810.	5.6	62
71	Fabrication of large area hexagonal boron nitride thin films for bendable capacitors. Nano Research, 2013, 6, 602-610.	10.4	61
72	Raman study on double-walled carbon nanotubes. Chemical Physics Letters, 2003, 376, 753-757.	2.6	58

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73	A Facile Route to Isotropic Conductive Nanocomposites by Direct Polymer Infiltration of Carbon Nanotube Sponges. ACS Nano, 2011, 5, 4276-4283.	14.6	58
74	Fabrication of Perovskite Films with Large Columnar Grains via Solvent-Mediated Ostwald Ripening for Efficient Inverted Perovskite Solar Cells. ACS Applied Energy Materials, 2018, 1, 868-875.	5.1	58
75	Ultrathin Singleâ€“Layered Membranes from Doubleâ€“Walled Carbon Nanotubes. Advanced Materials, 2006, 18, 1695-1700.	21.0	57
76	Control of the morphology of PbI₂ films for efficient perovskite solar cells by strong Lewis base additives. Journal of Materials Chemistry C, 2017, 5, 7458-7464.	5.5	57
77	Stretchable and compressible strain sensors based on carbon nanotube meshes. Nanoscale, 2016, 8, 19352-19358.	5.6	54
78	Straight boron carbide nanorods prepared from carbon nanotubes. Journal of Materials Chemistry, 2002, 12, 3121-3124.	6.7	53
79	Photo-induced selective gas detection based on reduced graphene oxide/Si Schottky diode. Carbon, 2015, 84, 138-145.	10.3	53
80	Carbon nanotube films by filtration for nanotube-silicon heterojunction solar cells. Materials Research Bulletin, 2010, 45, 1401-1405.	5.2	52
81	Ultra-black and self-cleaning all carbon nanotube hybrid films for efficient water desalination and purification. Carbon, 2020, 169, 134-141.	10.3	52
82	Polyaniline/graphene/carbon fiber ternary composites as supercapacitor electrodes. Materials Letters, 2015, 140, 43-47.	2.6	48
83	Solar Cells and Light Sensors Based on Nanoparticle-Grafted Carbon Nanotube Films. ACS Nano, 2010, 4, 2142-2148.	14.6	47
84	Elucidating the Key Role of a Lewis Base Solvent in the Formation of Perovskite Films Fabricated from the Lewis Adduct Approach. ACS Applied Materials & Interfaces, 2017, 9, 32868-32875.	8.0	47
85	Synthesis of Fe-filled thin-walled carbon nanotubes with high filling ratio by using dichlorobenzene as precursor. Carbon, 2007, 45, 1127-1129.	10.3	46
86	Carbon Nanotube Macrobundles for Light Sensing. Small, 2006, 2, 988-993.	10.0	45
87	Flexible graphene woven fabrics for touch sensing. Applied Physics Letters, 2013, 102, .	3.3	45
88	High quality perovskite films fabricated from Lewis acidâ€“base adduct through molecular exchange. RSC Advances, 2016, 6, 70925-70931.	3.6	45
89	Hybrid Heterojunction and Solidâ€State Photoelectrochemical Solar Cells. Advanced Energy Materials, 2014, 4, 1400224.	19.5	43
90	A large area, flexible polyaniline/buckypaper composite with a coreâ€“shell structure for efficient supercapacitors. Journal of Materials Chemistry A, 2014, 2, 5898-5902.	10.3	43

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91	Topology evolution of graphene in chemical vapor deposition, a combined theoretical/experimental approach toward shape control of graphene domains. Nanotechnology, 2012, 23, 115605.	2.6	42
92	Photoinduced currents in carbon nanotube/metal heterojunctions. Applied Physics Letters, 2006, 88, 131107.	3.3	40
93	Optimization of electromagnetic matching of Fe-filled carbon nanotubes/ferrite composites for microwave absorption. Journal Physics D: Applied Physics, 2009, 42, 075002.	2.8	40
94	Doped carbon nanotube array with a gradient of nitrogen concentration. Carbon, 2010, 48, 3097-3102.	10.3	40
95	Magnetic transitions in graphene derivatives. Nano Research, 2014, 7, 1507-1518.	10.4	39
96	Effective recovery of acids from iron-based electrolytes using graphene oxide membrane filters. Journal of Materials Chemistry A, 2014, 2, 7734-7737.	10.3	39
97	In Situ Observation of Crystallization of Methylammonium Lead Iodide Perovskite from Microdroplets. Small, 2017, 13, 1604125.	10.0	39
98	Efficient photovoltaic conversion of grapheneâ€“carbon nanotube hybrid films grown from solid precursors. 2D Materials, 2015, 2, 034003.	4.4	38
99	Label-Free Electronic Detection of DNA Using Simple Double-Walled Carbon Nanotube Resistors. Journal of Physical Chemistry C, 2008, 112, 9891-9895.	3.1	37
100	Enhanced field emission of open-ended, thin-walled carbon nanotubes filled with ferromagnetic nanowires. Carbon, 2009, 47, 2709-2715.	10.3	37
101	Controllable growth of shaped graphene domains by atmospheric pressure chemical vapour deposition. Nanoscale, 2011, 3, 4946.	5.6	37
102	Photocatalytic, recyclable CdS nanoparticle-carbon nanotube hybrid sponges. Nano Research, 2012, 5, 265-271.	10.4	37
103	High-yield bamboo-shaped carbon nanotubes from cresol for electrochemical application. Chemical Communications, 2008, , 2046.	4.1	36
104	Photoinduced molecular desorption from graphene films. Applied Physics Letters, 2012, 101, 053107.	3.3	36
105	Fiber and fabric solar cells by directly weaving carbon nanotube yarns with CdSe nanowire-based electrodes. Nanoscale, 2012, 4, 4954.	5.6	36
106	High annealing temperature induced rapid grain coarsening for efficient perovskite solar cells. Journal of Colloid and Interface Science, 2018, 524, 483-489.	9.4	35
107	Efficient energy conversion of nanotube/nanowire-based solar cells. Chemical Communications, 2010, 46, 5533.	4.1	34
108	Mechanical and electrical properties of carbon nanotube ribbons. Chemical Physics Letters, 2002, 365, 95-100.	2.6	33

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109	Hybrid thin films of graphene nanowhiskers and amorphous carbon as transparent conductors. Chemical Communications, 2010, 46, 3502.	4.1	33
110	All Green Solvents for Fabrication of CsPbBr₃ Films for Efficient Solar Cells Guided by the Hansen Solubility Theory. Solar Rrl, 2020, 4, 2000008.	5.8	33
111	Electronic properties of double-walled carbon nanotube films. Carbon, 2003, 41, 2495-2500.	10.3	32
112	Coated double-walled carbon nanotubes with ceria nanoparticles. Materials Letters, 2005, 59, 322-325.	2.6	32
113	Suppression of the coffee-ring effect by self-assembling graphene oxide and monolayer titania. Nanotechnology, 2013, 24, 075601.	2.6	32
114	Highâ€Efficiency Largeâ€Area Carbon Nanotubeâ€Silicon Solar Cells. Advanced Energy Materials, 2016, 6, 1600095.	19.5	32
115	Microwave absorbing properties and magnetic properties of different carbon nanotubes. Science in China Series D: Earth Sciences, 2009, 52, 227-231.	0.9	31
116	Improvement of grapheneâ€“Si solar cells by embroidering graphene with a carbon nanotube spider-web. Nano Energy, 2015, 17, 216-223.	16.0	30
117	An investigation on the relationship between open circuit voltage and grain size for CZTSSe thin film solar cells fabricated by selenization of sputtered precursors. Journal of Alloys and Compounds, 2019, 773, 689-697.	5.5	30
118	Negative and positive photoconductivity modulated by light wavelengths in carbon nanotube film. Applied Physics Letters, 2012, 101, 123117.	3.3	28
119	Evaluation of layer-by-layer graphene structures as supercapacitor electrode materials. Journal of Applied Physics, 2014, 115, 024305.	2.5	28
120	Modulating Hysteresis of Perovskite Solar Cells by a Poling Voltage. Journal of Physical Chemistry C, 2016, 120, 22784-22792.	3.1	28
121	Achieving environment-friendly production of CsPbBr₃ films for efficient solar cells via precursor engineering. Green Chemistry, 2021, 23, 2104-2112.	9.0	28
122	All green solvent engineering of organicâ€“inorganic hybrid perovskite layer for high-performance solar cells. Chemical Engineering Journal, 2022, 437, 135458.	12.7	28
123	Macroscopic Three-Dimensional Arrays of Fe Nanoparticles Supported in Aligned Carbon Nanotubes. Journal of Physical Chemistry B, 2001, 105, 11937-11940.	2.6	27
124	The decisive roles of chlorine-contained precursor and hydrogen for the filling Fe nanowires into carbon nanotubes. Materials Chemistry and Physics, 2009, 113, 634-637.	4.0	27
125	Significantly enhanced thermoelectric properties of ultralong double-walled carbon nanotube bundle. Applied Physics Letters, 2013, 102, 053105.	3.3	27
126	Effects of energy input during friction stir processing on microstructures and mechanical properties of aluminum/carbon nanotubes nanocomposites. Journal of Alloys and Compounds, 2019, 798, 523-530.	5.5	27

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127	Local large temperature difference and ultra-wideband photothermoelectric response of the silver nanostructure film/carbon nanotube film heterostructure. Nature Communications, 2022, 13, 1835.	12.8	27
128	Improved filling rate and enhanced magnetic properties of Fe-filled carbon nanotubes by annealing and magnetic separation. Materials Research Bulletin, 2008, 43, 3441-3446.	5.2	26
129	Electrical and thermal properties of a carbon nanotube/polycrystalline BiFeO3/Pt photovoltaic heterojunction with CdSe quantum dots sensitization. Nanoscale, 2012, 4, 2926.	5.6	26
130	Preparation and Testing of Anisotropic MAPbI3 Perovskite Photoelectric Sensors. ACS Applied Materials & Interfaces, 2020, 12, 44248-44255.	8.0	26
131	Enhanced efficiency of perovskite solar cells by introducing controlled chloride incorporation into MAPbI3 perovskite films. Electrochimica Acta, 2018, 275, 1-7.	5.2	25
132	Layered composites composed of multi-walled carbon nanotubes/manganese dioxide/carbon fiber cloth for microwave absorption in the X-band. RSC Advances, 2019, 9, 19217-19225.	3.6	25
133	Ethanol flame synthesis of highly transparent carbon thin films. Carbon, 2011, 49, 237-241.	10.3	24
134	Carbon nanotubeâ€“silicon hybrid solar cells with hydrogen peroxide doping. Chemical Physics Letters, 2012, 533, 70-73.	2.6	24
135	Fabrication of highly conductive carbon nanotube fibers for electrical application. Materials Research Express, 2015, 2, 095604.	1.6	24
136	Terahertz photodetector based on double-walled carbon nanotube macrobundleâ€“metal contacts. Optics Express, 2015, 23, 13348.	3.4	24
137	Graphene buffered galvanic synthesis of grapheneâ€“metal hybrids. Journal of Materials Chemistry, 2011, 21, 13241.	6.7	23
138	Photoluminescence of Fe2O3 nanoparticles prepared by laser oxidation of Fe catalysts in carbon nanotubes. Materials Research Bulletin, 2008, 43, 3490-3494.	5.2	22
139	Preparation of highly oxidized nitrogen-doped carbon nanotubes. Nanotechnology, 2012, 23, 155601.	2.6	22
140	Wire-supported CdSe nanowire array photoelectrochemical solar cells. Physical Chemistry Chemical Physics, 2012, 14, 3583.	2.8	22
141	Fabrication of double-walled carbon nanotube film/Cu2O nanoparticle film/TiO2 nanotube array heterojunctions for photosensors. Applied Physics Letters, 2012, 100, .	3.3	22
142	Investigation on Crystallization of CH₃NH₃PbI₃ Perovskite and Its Intermediate Phase from Polar Aprotic Solvents. Crystal Growth and Design, 2019, 19, 959-965.	3.0	22
143	Enhanced performance of CsPbBr3 perovskite solar cells by reducing the conduction band offsets via a Sr-modified TiO2 layer. Applied Surface Science, 2020, 529, 147119.	6.1	22
144	Step driven competitive epitaxial and self-limited growth of graphene on copper surface. AIP Advances, 2011, 1, .	1.3	21

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145	Interconnected graphene/polymer micro-tube piping composites for liquid sensing. Nano Research, 2014, 7, 869-876.	10.4	21
146	A novel aluminum-carbon nanotubes nanocomposite with doubled strength and preserved electrical conductivity. Nano Research, 2021, 14, 2776-2782.	10.4	21
147	CuI-Si heterojunction solar cells with carbon nanotube films as flexible top-contact electrodes. Nano Research, 2011, 4, 979-986.	10.4	20
148	Perovskite Solar Cell Using a Two-Dimensional Titania Nanosheet Thin Film as the Compact Layer. ACS Applied Materials & Interfaces, 2015, 7, 15117-15122.	8.0	20
149	Structure and superconductivity of MgB2â€“carbon nanotube composites. Materials Chemistry and Physics, 2003, 78, 785-790.	4.0	19
150	Connection of macro-sized double-walled carbon nanotube strands by bandaging with double-walled carbon nanotube films. Carbon, 2007, 45, 2235-2240.	10.3	19
151	Fabrication of silicon microwire arrays forÂphotovoltaicÂapplications. Applied Physics A: Materials Science and Processing, 2011, 102, 109-114.	2.3	19
152	The formation of grapheneâ€“titania hybrid films and their resistance change under ultraviolet irradiation. Carbon, 2012, 50, 4518-4523.	10.3	19
153	Perovskite Solar Cells Fabricated by Using an Environmental Friendly Aprotic Polar Additive of 1,3-Dimethyl-2-imidazolidinone. Nanoscale Research Letters, 2017, 12, 632.	5.7	19
154	Porous Single-Wall Carbon Nanotube Templates Decorated with All-inorganic Perovskite Nanocrystals for Ultraflexible Photodetectors. ACS Applied Nano Materials, 2020, 3, 459-467.	5.0	19
155	Suspended, Straightened Carbon Nanotube Arrays by Gel Chapping. ACS Nano, 2011, 5, 5656-5661.	14.6	18
156	Enhanced Transport of Nanoparticles Across a Porous Nanotube Sponge. Advanced Functional Materials, 2011, 21, 3439-3445.	14.9	18
157	Effects of selenium atmosphere on grain growth for CZTSe absorbers fabricated by selenization of as-sputtered precursors. Journal of Alloys and Compounds, 2018, 755, 224-230.	5.5	18
158	A sustainable solvent system for processing CsPbBr₃ films for solar cells via an anomalous sequential deposition route. Green Chemistry, 2021, 23, 470-478.	9.0	18
159	Comparison of Nanocarbonâ€“Silicon Solar Cells with Nanotubeâ€“Si or Grapheneâ€“Si Contact. ACS Applied Materials & Interfaces, 2015, 7, 17088-17094.	8.0	17
160	Performance Enhancement of FET-Based Photodetector by Blending P3HT With PMMA. IEEE Photonics Technology Letters, 2015, 27, 1535-1538.	2.5	17
161	Anti-reflection graphene coating on metal surface. Surface and Coatings Technology, 2015, 261, 327-330.	4.8	17
162	Strong and super-hydrophobic hybrid carbon nanotube films with superior loading capacity. Carbon, 2018, 137, 88-92.	10.3	17

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163	The effect of Rb doping on CZTSSe solar cells. Solar Energy, 2019, 187, 269-273.	6.1	17
164	Ultrafast, Kinetically Limited, Ambient Synthesis of Vanadium Dioxides through Laser Direct Writing on Ultrathin Chalcogenide Matrix. ACS Nano, 2021, 15, 10502-10513.	14.6	17
165	Correlation between nanoparticle location and graphene nucleation in chemical vapour deposition of graphene. Journal of Materials Chemistry A, 2014, 2, 13123-13128.	10.3	16
166	Templated direct growth of ultra-thin double-walled carbon nanotubes. Nanoscale, 2018, 10, 21254-21261.	5.6	16
167	Dissolution and recrystallization of perovskite induced by N-methyl-2-pyrrolidone in a closed steam annealing method. Journal of Energy Chemistry, 2019, 30, 78-83.	12.9	16
168	Preparation of CsPbBr₃ Films for Efficient Perovskite Solar Cells from Aqueous Solutions. ACS Applied Energy Materials, 2021, 4, 5504-5510.	5.1	16
169	Graphene oxide/titania hybrid films with dual-UV-responsive surfaces of tunable wettability. RSC Advances, 2012, 2, 10829.	3.6	15
170	Photocurrent response of carbon nanotubeâ€“metal heterojunctions in the terahertz range. Optics Express, 2014, 22, 5895.	3.4	15
171	Flexible carbon nanotube/mono-crystalline Si thin-film solar cells. Nanoscale Research Letters, 2014, 9, 514.	5.7	14
172	All carbon coaxial supercapacitors based on hollow carbon nanotube sleeve structure. Nanotechnology, 2015, 26, 045401.	2.6	14
173	Influences of Cu concentration on electrical properties of CZTSSe absorbers and their device performances. Vacuum, 2020, 173, 109121.	3.5	14
174	Structural Changes in Double-Walled Carbon Nanotube Strands Induced by Ultraviolet Laser Irradiation. Journal of Physical Chemistry C, 2007, 111, 2901-2905.	3.1	13
175	Solution synthesis of Cu₂O/Si radial nanowire array heterojunctions for broadband photodetectors. Materials Research Express, 2014, 1, 015002.	1.6	13
176	The effects of preheating temperature on CuInGaSe2/CdS interface and the device performances. Solar Energy, 2019, 194, 11-17.	6.1	13
177	The wavelength dependent photovoltaic effects caused by two different mechanisms in carbon nanotube film/CuO nanowire array heterodimensional contacts. Applied Physics Letters, 2012, 100, 251113.	3.3	12
178	Hybrid effect of gas flow and light excitation in carbon/silicon Schottky solar cells. Journal of Materials Chemistry, 2012, 22, 3330.	6.7	12
179	Stable superhydrophobic surface of hierarchical carbon nanotubes on Si micropillar arrays. Nanoscale Research Letters, 2013, 8, 412.	5.7	12
180	Fabrication of Au nanoparticle/double-walled carbon nanotube film/TiO2 nanotube array/Ti heterojunctions with low resistance state for broadband photodetectors. Physica B: Condensed Matter, 2017, 508, 1-6.	2.7	12

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181	Soft magnetic performance improvement of Fe-filled carbon nanotubes by water-assisted pyrolysis route. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 867-873.	1.8	11
182	Atom-Resolved Imaging of Carbon Hexagons of Carbon Nanotubes. Journal of Physical Chemistry C, 2008, 112, 11098-11101.	3.1	11
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