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	High-efficiency CNT-Si solar cells based on a collaborative system enabled by oxide penetration. Nano Research, 2022, 15, 2497-2504.	10.4	4
2	Effects of silver-doping on properties of Cu(In,Ga)Se2 films prepared by CuInGa precursors. Journal of Energy Chemistry, 2022, 66, 218-225.	12.9	10
3	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
4	All green solvent engineering of organicâ€“inorganic hybrid perovskite layer for high-performance solar cells. Chemical Engineering Journal, 2022, 437, 135458.	12.7	28
5	Achieving one-step solution deposition of high quality CsPbBr3 films for efficient solar cells through halide ion exchange. Journal of Alloys and Compounds, 2022, 919, 165722.	5.5	3
6	High-Performance Ultrabroadband Photodetector Based on Photothermoelectric Effect. ACS Applied Materials & Interfaces, 2022, 14, 29077-29086.	8.0	6
7	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
8	Achieving environment-friendly production of CsPbBr₃ films for efficient solar cells via precursor engineering. Green Chemistry, 2021, 23, 2104-2112.	9.0	28
9	A novel aluminum-carbon nanotubes nanocomposite with doubled strength and preserved electrical conductivity. Nano Research, 2021, 14, 2776-2782.	10.4	21
10	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
11	Preparation of CsPbBr₃ Films for Efficient Perovskite Solar Cells from Aqueous Solutions. ACS Applied Energy Materials, 2021, 4, 5504-5510.	5.1	16
12	Surface modifications of CIGS absorbers and their effects on performances of CIGS solar cells. Ceramics International, 2021, 47, 34508-34513.	4.8	7
13	Electrically driven transport of photoinduced hot carriers in carbon nanotube fibers. Optics Letters, 2021, 46, 5228-5231.	3.3	1
14	Significantly enhanced photoresponse of carbon nanotube films modified with cesium tungsten bronze nanoclusters in the visible to short-wave infrared range. RSC Advances, 2021, 11, 39646-39656.	3.6	2
15	Preparation of Ordered MAPbI₃ Perovskite Needle-Like Crystal Films by Electric Field and Microdroplet Jetting 3D Printing. Crystal Growth and Design, 2020, 20, 1405-1414.	3.0	7
16	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
17	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
18	Influences of Cu concentration on electrical properties of CZTSSe absorbers and their device performances. Vacuum, 2020, 173, 109121.	3.5	14

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19	Efficient Cu2ZnSn(Se,S)4 solar cells with 79% fill factor using two-step annealing. Solar Energy Materials and Solar Cells, 2020, 215, 110682.	6.2	7
20	Ultra-black and self-cleaning all carbon nanotube hybrid films for efficient water desalination and purification. Carbon, 2020, 169, 134-141.	10.3	52
21	Preparation and Testing of Anisotropic MAPbI3 Perovskite Photoelectric Sensors. ACS Applied Materials & Interfaces, 2020, 12, 44248-44255.	8.0	26
22	Optimization of CuInGaSSe properties and CuInGaSSe/CdS interface quality for efficient solar cells processed with CuInGa precursors. Journal of Power Sources, 2020, 479, 229105.	7.8	8
23	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
24	Facile fabrication of eutectic gallium-indium alloy nanostructure and application in photodetection. Nanotechnology, 2020, 31, 145703.	2.6	8
25	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
26	Accurate generation of attolitre droplets for directly printing gold nanoparticles from solution through confined reaction. Nano Express, 2020, 1, 030008.	2.4	0
27	Bolometric terahertz detection based on suspended carbon nanotube fibers. Applied Physics Express, 2019, 12, 096505.	2.4	5
28	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
29	The effects of preheating temperature on CuInGaSe2/CdS interface and the device performances. Solar Energy, 2019, 194, 11-17.	6.1	13
30	Phases formation of Cu2ZnSnS4 thin films by sulfurizing stacked precursors by sputtering from Cu Zn and Cu Sn targets. Thin Solid Films, 2019, 690, 137561.	1.8	3
31	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
32	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
33	The effect of Rb doping on CZTSSe solar cells. Solar Energy, 2019, 187, 269-273.	6.1	17
34	Influences of Ga concentration on performances of CuInGaSe2 cells fabricated by sputtering-based method with ceramic quaternary target. Ceramics International, 2019, 45, 16405-16410.	4.8	11
35	Generation of Ultrafine Droplets in Femtoliter Scale from a Large Needle with Diameter of 200 Microns. Journal of Nanoscience and Nanotechnology, 2019, 19, 4244-4248.	0.9	1
36	Influences of sulfurization on performances of Cu(In,Ga)(Se,S)2 cells fabricated based on the method of sputtering CIGSe quaternary target. Journal of Alloys and Compounds, 2019, 791, 1193-1199.	5.5	7

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37	Fabrication of Perovskite Films with Long Carrier Lifetime for Efficient Perovskite Solar Cells from Low-Toxicity 1-Ethyl-2-Pyrrolidone. ACS Applied Energy Materials, 2019, 2, 320-327.	5.1	4
38	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
39	The effects of annealing temperature on CIGSeS solar cells by sputtering from quaternary target with H2S post annealing. Applied Surface Science, 2019, 473, 848-854.	6.1	8
40	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
41	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
42	Enhanced efficiency of perovskite solar cells by introducing controlled chloride incorporation into MAPbI3 perovskite films. Electrochimica Acta, 2018, 275, 1-7.	5.2	25
43	Crystallization of CH₃NH₃PbI_{3â"x}Br_x perovskite from micro-droplets of lead acetate precursor solution. CrystEngComm, 2018, 20, 3058-3065.	2.6	5
44	In Situ Investigation of the Growth of Methylammonium Lead Halide (MAPbI_{3â€“x}Br_x) Perovskite from Microdroplets. Crystal Growth and Design, 2018, 18, 3458-3464.	3.0	8
45	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
46	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
47	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
48	Templated direct growth of ultra-thin double-walled carbon nanotubes. Nanoscale, 2018, 10, 21254-21261.	5.6	16
49	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
50	Strong and super-hydrophobic hybrid carbon nanotube films with superior loading capacity. Carbon, 2018, 137, 88-92.	10.3	17
51	Fabrication of wide band-gap CuGaSe2 solar cells for tandem device applications by sputtering from a ternary target and post selenization treatment. Materials Letters, 2018, 230, 128-131.	2.6	8
52	Pre-deposition of CdS layers to improve the diode quality of CZTSSe solar cells. Materials Letters, 2018, 229, 372-374.	2.6	3
53	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
54	In Situ Observation of Crystallization of Methylammonium Lead Iodide Perovskite from Microdroplets. Small, 2017, 13, 1604125.	10.0	39

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55	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
56	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
57	Enhanced performance of perovskite solar cells by strengthening a self-embedded solvent annealing effect in perovskite precursor films. RSC Advances, 2017, 7, 49144-49150.	3.6	11
58	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
59	Size effect in Pd77.5Cu6Si16.5 metallic glass micro-wires: More scattered strength with decreasing diameter. Applied Physics Letters, 2017, 111, .	3.3	7
60	Pb-free silver pastes with SnO-B<inf>2</inf>O<inf>3</inf> glass frits for crystalline silicon solar cells. , 2017, , .		0
61	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
62	Highâ€Efficiency Largeâ€Area Carbon Nanotubeâ€Silicon Solar Cells. Advanced Energy Materials, 2016, 6, 1600095.	19.5	32
63	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
64	Polymer-Coated Graphene Aerogel Beads and Supercapacitor Application. ACS Applied Materials & Interfaces, 2016, 8, 11179-11187.	8.0	65
65	Pb-free front-contact silver pastes with SnO P2O5 glass frit for crystalline silicon solar cells. Journal of Alloys and Compounds, 2016, 689, 662-668.	5.5	8
66	Modulating Hysteresis of Perovskite Solar Cells by a Poling Voltage. Journal of Physical Chemistry C, 2016, 120, 22784-22792.	3.1	28
67	High quality perovskite films fabricated from Lewis acidâ€“base adduct through molecular exchange. RSC Advances, 2016, 6, 70925-70931.	3.6	45
68	Enhanced performance of perovskite solar cells by modulating the Lewis acidâ€“base reaction. Nanoscale, 2016, 8, 19804-19810.	5.6	62
69	Stretchable and compressible strain sensors based on carbon nanotube meshes. Nanoscale, 2016, 8, 19352-19358.	5.6	54
70	Highly conductive, twistable and bendable polypyrroleâ€“carbon nanotube fiber for efficient supercapacitor electrodes. RSC Advances, 2015, 5, 22015-22021.	3.6	63
71	Efficient photovoltaic conversion of grapheneâ€“carbon nanotube hybrid films grown from solid precursors. 2D Materials, 2015, 2, 034003.	4.4	38
72	Fabrication of highly conductive carbon nanotube fibers for electrical application. Materials Research Express, 2015, 2, 095604.	1.6	24

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73	All carbon coaxial supercapacitors based on hollow carbon nanotube sleeve structure. Nanotechnology, 2015, 26, 045401.	2.6	14
74	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
75	Highly efficient quasi-static water desalination using monolayer graphene oxide/titania hybrid laminates. NPG Asia Materials, 2015, 7, e162-e162.	7.9	94
76	Comparison of Nanocarbonâ€“Silicon Solar Cells with Nanotubeâ€“Si or Grapheneâ€“Si Contact. ACS Applied Materials & Interfaces, 2015, 7, 17088-17094.	8.0	17
77	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
78	Graphene/polyaniline woven fabric composite films as flexible supercapacitor electrodes. Nanoscale, 2015, 7, 7318-7322.	5.6	175
79	Terahertz photodetector based on double-walled carbon nanotube macrobundleâ€“metal contacts. Optics Express, 2015, 23, 13348.	3.4	24
80	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
81	Highly flexible, tailorable and all-solid-state supercapacitors from carbon nanotubeâ€“MnO_x composite films. RSC Advances, 2015, 5, 89188-89194.	3.6	10
82	Performance Enhancement of FET-Based Photodetector by Blending P3HT With PMMA. IEEE Photonics Technology Letters, 2015, 27, 1535-1538.	2.5	17
83	Improvement of grapheneâ€“Si solar cells by embroidering graphene with a carbon nanotube spider-web. Nano Energy, 2015, 17, 216-223.	16.0	30
84	Photo-induced selective gas detection based on reduced graphene oxide/Si Schottky diode. Carbon, 2015, 84, 138-145.	10.3	53
85	Polyaniline/graphene/carbon fiber ternary composites as supercapacitor electrodes. Materials Letters, 2015, 140, 43-47.	2.6	48
86	Anti-reflection graphene coating on metal surface. Surface and Coatings Technology, 2015, 261, 327-330.	4.8	17
87	Evaluation of layer-by-layer graphene structures as supercapacitor electrode materials. Journal of Applied Physics, 2014, 115, 024305.	2.5	28
88	Flexible carbon nanotube/mono-crystalline Si thin-film solar cells. Nanoscale Research Letters, 2014, 9, 514.	5.7	14
89	Fabrication and Oil Adsorption of Carbon Nanotube/Polyvinylpyrrolidone Surface Composite. Journal of Nanoscience and Nanotechnology, 2014, 14, 6461-6465.	0.9	7
90	Electron transport in carbon nanotube/RbAg4I5 film composite nanostructures modulated by optical field. Applied Physics Letters, 2014, 104, 243111.	3.3	10

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91	Ion-modulated nonlinear electronic transport in carbon nanotube bundle/RbAg4I5 thin film composite nanostructures. Journal of Applied Physics, 2014, 115, 044302.	2.5	7
92	Room-temperature terahertz detection by carbon nanotube/metal heterostructures. , 2014, , .		0
93	Solution synthesis of Cu₂O/Si radial nanowire array heterojunctions for broadband photodetectors. Materials Research Express, 2014, 1, 015002.	1.6	13
94	Carbon nanotube-polypyrrole core-shell sponge and its application as highly compressible supercapacitor electrode. Nano Research, 2014, 7, 209-218.	10.4	115
95	Photocurrent response of carbon nanotubeâ€“metal heterojunctions in the terahertz range. Optics Express, 2014, 22, 5895.	3.4	15
96	Core-Double-Shell, Carbon Nanotube@Polypyrrole@MnO₂ Sponge as Freestanding, Compressible Supercapacitor Electrode. ACS Applied Materials & Interfaces, 2014, 6, 5228-5234.	8.0	298
97	Hybrid Heterojunction and Solidâ€State Photoelectrochemical Solar Cells. Advanced Energy Materials, 2014, 4, 1400224.	19.5	43
98	Enhancement of the power conversion efficiency of polymer solar cells by functionalized single-walled carbon nanotubes decorated with CdSe/ZnS coreâ€“shell colloidal quantum dots. Journal of Materials Science, 2014, 49, 2571-2577.	3.7	9
99	Magnetic transitions in graphene derivatives. Nano Research, 2014, 7, 1507-1518.	10.4	39
100	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
101	Effect of microwave irradiation on carbon nanotube fibers: exfoliation, structural change and strong light emission. RSC Advances, 2014, 4, 15502-15506.	3.6	3
102	Effect of different gel electrolytes on graphene-based solid-state supercapacitors. RSC Advances, 2014, 4, 36253-36256.	3.6	163
103	Three-dimensional porous graphene sponges assembled with the combination of surfactant and freeze-drying. Nano Research, 2014, 7, 1477-1487.	10.4	111
104	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
105	Interconnected graphene/polymer micro-tube piping composites for liquid sensing. Nano Research, 2014, 7, 869-876.	10.4	21
106	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
107	Fabrication and Electrical Properties of Semi-Conductive <I>h</I>-BNC<I>_x</I> Thin Films. Science of Advanced Materials, 2014, 6, 550-557.	0.7	1
108	Highly deformation-tolerant carbon nanotube sponges as supercapacitor electrodes. Nanoscale, 2013, 5, 8472.	5.6	101

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109	Fabrication of large area hexagonal boron nitride thin films for bendable capacitors. Nano Research, 2013, 6, 602-610.	10.4	61
110	Flexible all solid-state supercapacitors based on chemical vapor deposition derived graphene fibers. Physical Chemistry Chemical Physics, 2013, 15, 17752.	2.8	156
111	Small Temperature Coefficient of Resistivity of Graphene/Graphene Oxide Hybrid Membranes. ACS Applied Materials & Interfaces, 2013, 5, 9563-9571.	8.0	62
112	Significantly enhanced photoresponse in carbon nanotube film/TiO₂nanotube array heterojunctions by pre-electroforming. Nanotechnology, 2013, 24, 465203.	2.6	7
113	Suppression of the coffee-ring effect by self-assembling graphene oxide and monolayer titania. Nanotechnology, 2013, 24, 075601.	2.6	32
114	Stable superhydrophobic surface of hierarchical carbon nanotubes on Si micropillar arrays. Nanoscale Research Letters, 2013, 8, 412.	5.7	12
115	Ion doping of graphene for high-efficiency heterojunction solar cells. Nanoscale, 2013, 5, 1945.	5.6	136
116	Colloidal Antireflection Coating Improves Grapheneâ€“Silicon Solar Cells. Nano Letters, 2013, 13, 1776-1781.	9.1	303
117	Anomalous Behaviors of Graphene Transparent Conductors in Grapheneâ€“Silicon Heterojunction Solar Cells. Advanced Energy Materials, 2013, 3, 1029-1034.	19.5	102
118	Flexible graphene woven fabrics for touch sensing. Applied Physics Letters, 2013, 102, .	3.3	45
119	Selective Ion Penetration of Graphene Oxide Membranes. ACS Nano, 2013, 7, 428-437.	14.6	635
120	Direct Synthesis of Graphene Quantum Dots by Chemical Vapor Deposition. Particle and Particle Systems Characterization, 2013, 30, 764-769.	2.3	69
121	Oil spill cleanup from sea water by carbon nanotube sponges. Frontiers of Materials Science, 2013, 7, 170-176.	2.2	69
122	Highly Twisted Double-Helix Carbon Nanotube Yarns. ACS Nano, 2013, 7, 1446-1453.	14.6	88
123	Significantly enhanced thermoelectric properties of ultralong double-walled carbon nanotube bundle. Applied Physics Letters, 2013, 102, 053105.	3.3	27
124	The influence of gas absorption on the efficiency of carbon nanotube/Si solar cells. Applied Physics Letters, 2013, 102, .	3.3	9
125	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
126	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

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127	Sharp burnout failure observed in high current-carrying double-walled carbon nanotube fibers. Nanotechnology, 2012, 23, 015703.	2.6	11
128	Photoinduced molecular desorption from graphene films. Applied Physics Letters, 2012, 101, 053107.	3.3	36
129	Negative and positive photoconductivity modulated by light wavelengths in carbon nanotube film. Applied Physics Letters, 2012, 101, 123117.	3.3	28
130	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
131	Preparation of highly oxidized nitrogen-doped carbon nanotubes. Nanotechnology, 2012, 23, 155601.	2.6	22
132	Light-Induced Modulation in Resistance Switching of Carbon Nanotube/BiFeO₃/Pt Heterostructure. Integrated Ferroelectrics, 2012, 134, 58-64.	0.7	4
133	TiO2-Coated Carbon Nanotube-Silicon Solar Cells with Efficiency of 15%. Scientific Reports, 2012, 2, 884.	3.3	141
134	Light-Induced Modulation in Resistance Switching of Carbon Nanotube/ BiFeO₃/Pt Heterostructure. Integrated Ferroelectrics, 2012, 132, 53-60.	0.7	0
135	Graphene oxide/titania hybrid films with dual-UV-responsive surfaces of tunable wettability. RSC Advances, 2012, 2, 10829.	3.6	15
136	Bubble-promoted assembly of hierarchical, porous Ag2S nanoparticle membranes. Journal of Materials Chemistry, 2012, 22, 24721.	6.7	5
137	Hybrid effect of gas flow and light excitation in carbon/silicon Schottky solar cells. Journal of Materials Chemistry, 2012, 22, 3330.	6.7	12
138	Wire-supported CdSe nanowire array photoelectrochemical solar cells. Physical Chemistry Chemical Physics, 2012, 14, 3583.	2.8	22
139	Stretchable and highly sensitive graphene-on-polymer strain sensors. Scientific Reports, 2012, 2, 870.	3.3	517
140	Field emission of graphene and carbon nanotubes. , 2012, , .		0
141	Solution-processed bulk heterojunction solar cells based on interpenetrating CdS nanowires and carbon nanotubes. Nano Research, 2012, 5, 595-604.	10.4	9
142	Nanobeltâ€“carbon nanotube cross-junction solar cells. Energy and Environmental Science, 2012, 5, 6119.	30.8	11
143	Fabrication of double-walled carbon nanotube film/Cu2O nanoparticle film/TiO2 nanotube array heterojunctions for photosensors. Applied Physics Letters, 2012, 100, .	3.3	22
144	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

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145	Multifunctional graphene woven fabrics. Scientific Reports, 2012, 2, 395.	3.3	156
146	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
147	Superâ€Stretchable Springâ€Like Carbon Nanotube Ropes. Advanced Materials, 2012, 24, 2896-2900.	21.0	193
148	Carbon Nanotubes: Superâ€Stretchable Springâ€Like Carbon Nanotube Ropes (Adv. Mater. 21/2012). Advanced Materials, 2012, 24, 2935-2935.	21.0	3
149	Boron Doping of Graphene for Grapheneâ€“Silicon pâ€“n Junction Solar Cells. Advanced Energy Materials, 2012, 2, 425-429.	19.5	169
150	Transformation of Roundâ€shaped Graphene Disks into Hexagonal Domains in CVD. Chemical Vapor Deposition, 2012, 18, 185-190.	1.3	1
151	Fiber and fabric solar cells by directly weaving carbon nanotube yarns with CdSe nanowire-based electrodes. Nanoscale, 2012, 4, 4954.	5.6	36
152	Photocatalytic, recyclable CdS nanoparticle-carbon nanotube hybrid sponges. Nano Research, 2012, 5, 265-271.	10.4	37
153	High-efficiency coreâ€“shell solar cell array from Si wafer. Applied Physics A: Materials Science and Processing, 2012, 107, 911-917.	2.3	7
154	The formation of grapheneâ€“titania hybrid films and their resistance change under ultraviolet irradiation. Carbon, 2012, 50, 4518-4523.	10.3	19
155	Carbon nanotubeâ€“silicon hybrid solar cells with hydrogen peroxide doping. Chemical Physics Letters, 2012, 533, 70-73.	2.6	24
156	Improve photocurrent quantum efficiency of carbon nanotube by chemical treatment. Materials Chemistry and Physics, 2012, 131, 680-685.	4.0	1
157	Preparation of CuI particles and their applications in carbon nanotube-Si heterojunction solar cells. Materials Letters, 2012, 79, 106-108.	2.6	11
158	Strong, conductive carbon nanotube fibers as efficient hole collectors. Nanoscale Research Letters, 2012, 7, 137.	5.7	9
159	Iodine doped carbon nanotube cables exceeding specific electrical conductivity of metals. Scientific Reports, 2011, 1, 83.	3.3	305
160	Encapsulated carbon nanotube-oxide-silicon solar cells with stable 10% efficiency. Applied Physics Letters, 2011, 98, .	3.3	98
161	Suspended, Straightened Carbon Nanotube Arrays by Gel Chapping. ACS Nano, 2011, 5, 5656-5661.	14.6	18
162	Graphene/Silicon Nanowire Schottky Junction for Enhanced Light Harvesting. ACS Applied Materials & Interfaces, 2011, 3, 721-725.	8.0	214

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163	Achieving High Efficiency Silicon-Carbon Nanotube Heterojunction Solar Cells by Acid Doping. Nano Letters, 2011, 11, 1901-1905.	9.1	230
164	Flame synthesis of few-layered graphene/graphite films. Chemical Communications, 2011, 47, 3520.	4.1	67
165	Formation of CuPd and CuPt Bimetallic Nanotubes by Galvanic Replacement Reaction. Journal of Physical Chemistry C, 2011, 115, 9403-9409.	3.1	163
166	Controllable growth of shaped graphene domains by atmospheric pressure chemical vapour deposition. Nanoscale, 2011, 3, 4946.	5.6	37
167	Graphene buffered galvanic synthesis of grapheneâ€“metal hybrids. Journal of Materials Chemistry, 2011, 21, 13241.	6.7	23
168	Tribological properties of oleic acid-modified graphene as lubricant oil additives. Journal Physics D: Applied Physics, 2011, 44, 205303.	2.8	232
169	A Facile Route to Isotropic Conductive Nanocomposites by Direct Polymer Infiltration of Carbon Nanotube Sponges. ACS Nano, 2011, 5, 4276-4283.	14.6	58
170	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
171	Fabrication of silicon microwire arrays forÂphotovoltaicÂapplications. Applied Physics A: Materials Science and Processing, 2011, 102, 109-114.	2.3	19
172	Graphene-CdSe nanobelt solar cells with tunable configurations. Nano Research, 2011, 4, 891-900.	10.4	67
173	CuI-Si heterojunction solar cells with carbon nanotube films as flexible top-contact electrodes. Nano Research, 2011, 4, 979-986.	10.4	20
174	Enhanced Transport of Nanoparticles Across a Porous Nanotube Sponge. Advanced Functional Materials, 2011, 21, 3439-3445.	14.9	18
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