Jinquan Wei

List of Publications by Year in Descending Order

247 papers	14,356 citations	60 h-index	114 g-index
252 ext. papers	15,569 ext. citations	7.1 avg, IF	6.12 L-index

#	Paper	IF	Citations
247	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	1
246	Local large temperature difference and ultra-wideband photothermoelectric response of the silver nanostructure film/carbon nanotube film heterostructure.. *Nature Communications*, **2022**, 13, 1835	17.4	2
245	All green solvent engineering of organic□inorganic hybrid perovskite layer for high-performance solar cells. *Chemical Engineering Journal*, **2022**, 437, 135458	14.7	8
244	Achieving One-step Solution Deposition of High Quality CsPbBr3 Films for Efficient Solar Cells Through Halide Ion Exchange. *Journal of Alloys and Compounds*, **2022**, 165722	5.7	
243	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	3.7	1
242	Ultrafast, Kinetically Limited, Ambient Synthesis of Vanadium Dioxides through Laser Direct Writing on Ultrathin Chalcogenide Matrix. *ACS Nano*, **2021**, 15, 10502-10513	16.7	6
241	Preparation of CsPbBr3 Films for Efficient Perovskite Solar Cells from Aqueous Solutions. *ACS Applied Energy Materials*, **2021**, 4, 5504-5510	6.1	7
240	A sustainable solvent system for processing CsPbBr3 films for solar cells via an anomalous sequential deposition route. *Green Chemistry*, **2021**, 23, 470-478	10	9
239	Achieving environment-friendly production of CsPbBr3 films for efficient solar cells via precursor engineering. *Green Chemistry*, **2021**, 23, 2104-2112	10	9
238	A novel aluminum-carbon nanotubes nanocomposite with doubled strength and preserved electrical conductivity. *Nano Research*, **2021**, 14, 2776-2782	10	5
237	Surface modifications of CIGS absorbers and their effects on performances of CIGS solar cells. *Ceramics International*, **2021**,	5.1	1
236	Electrically driven transport of photoinduced hot carriers in carbon nanotube fibers. *Optics Letters*, **2021**, 46, 5228-5231	3	0
235	Optimization of CuInGaSSe properties and CuInGaSSe/CdS interface quality for efficient solar cells processed with CuInGa precursors. *Journal of Power Sources*, **2020**, 479, 229105	8.9	4
234	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	6.7	13
233	Facile fabrication of eutectic gallium-indium alloy nanostructure and application in photodetection. *Nanotechnology*, **2020**, 31, 145703	3.4	3
232	All Green Solvents for Fabrication of CsPbBr3 Films for Efficient Solar Cells Guided by the Hansen Solubility Theory. *Solar Rrl*, **2020**, 4, 2000008	7.1	20
231	Accurate generation of attolitre droplets for directly printing gold nanoparticles from solution through confined reaction. *Nano Express*, **2020**, 1, 030008	2	

230	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	3.5	4
229	Water, a Green Solvent for Fabrication of High-Quality CsPbBr Films for Efficient Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 5925-5931	9.5	34
228	Porous Single-Wall Carbon Nanotube Templates Decorated with All-inorganic Perovskite Nanocrystals for Ultraflexible Photodetectors. *ACS Applied Nano Materials*, **2020**, 3, 459-467	5.6	14
227	Influences of Cu concentration on electrical properties of CZTSSe absorbers and their device performances. *Vacuum*, **2020**, 173, 109121	3.7	11
226	Efficient Cu2ZnSn(Se,S)4 solar cells with 79% fill factor using two-step annealing. *Solar Energy Materials and Solar Cells*, **2020**, 215, 110682	6.4	3
225	Ultra-black and self-cleaning all carbon nanotube hybrid films for efficient water desalination and purification. *Carbon*, **2020**, 169, 134-141	10.4	22
224	Preparation and Testing of Anisotropic MAPbI3 Perovskite Photoelectric Sensors. *ACS Applied Materials & Interfaces*, **2020**, 12, 44248-44255	9.5	10
223	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	2.2	3
222	A Review of the Role of Solvents in Formation of High-Quality Solution-Processed Perovskite Films. *ACS Applied Materials & Interfaces*, **2019**, 11, 7639-7654	9.5	75
221	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	5.7	17
220	The effect of Rb doping on CZTSSe solar cells. *Solar Energy*, **2019**, 187, 269-273	6.8	11
219	Influences of Ga concentration on performances of CuInGaSe2 cells fabricated by sputtering-based method with ceramic quaternary target. *Ceramics International*, **2019**, 45, 16405-16410	5.1	9
218	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	1.3	1
217	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	5.7	4
216	Bolometric terahertz detection based on suspended carbon nanotube fibers. *Applied Physics Express*, **2019**, 12, 096505	2.4	3
215	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	3.7	11
214	The effects of preheating temperature on CuInGaSe2/CdS interface and the device performances. *Solar Energy*, **2019**, 194, 11-17	6.8	9
213	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	6.1	3

212	Investigation on Crystallization of CH3NH3PbI3 Perovskite and Its Intermediate Phase from Polar Aprotic Solvents. *Crystal Growth and Design*, **2019**, 19, 959-965	3.5	17
211	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	6.7	7
210	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	5.7	18
209	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	8
208	Enhanced efficiency of perovskite solar cells by introducing controlled chloride incorporation into MAPbI3 perovskite films. *Electrochimica Acta*, **2018**, 275, 1-7	6.7	22
207	Crystallization of CH3NH3PbI3−xBrx perovskite from micro-droplets of lead acetate precursor solution. *CrystEngComm*, **2018**, 20, 3058-3065	3.3	4
206	In Situ Investigation of the Growth of Methylammonium Lead Halide (MAPbI3−xBrx) Perovskite from Microdroplets. *Crystal Growth and Design*, **2018**, 18, 3458-3464	3.5	4
205	High annealing temperature induced rapid grain coarsening for efficient perovskite solar cells. *Journal of Colloid and Interface Science*, **2018**, 524, 483-489	9.3	25
204	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	6.1	38
203	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	5.7	13
202	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	3.3	7
201	Pre-deposition of CdS layers to improve the diode quality of CZTSSe solar cells. *Materials Letters*, **2018**, 229, 372-374	3.3	3
200	Templated direct growth of ultra-thin double-walled carbon nanotubes. *Nanoscale*, **2018**, 10, 21254-21261	7.7	12
199	High-Performance, Ultra-Broadband, Ultraviolet to Terahertz Photodetectors Based on Suspended Carbon Nanotube Films. *ACS Applied Materials & Interfaces*, **2018**, 10, 36304-36311	9.5	38
198	Strong and super-hydrophobic hybrid carbon nanotube films with superior loading capacity. *Carbon*, **2018**, 137, 88-92	10.4	11
197	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	7.1	47
196	In Situ Observation of Crystallization of Methylammonium Lead Iodide Perovskite from Microdroplets. *Small*, **2017**, 13, 1604125	11	33
195	Fabrication of high quality perovskite films by modulating the Pb–O bonds in Lewis acid–base adducts. *Journal of Materials Chemistry A*, **2017**, 5, 8416-8422	13	55

194	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	2.8	10
193	Enhanced performance of perovskite solar cells by strengthening a self-embedded solvent annealing effect in perovskite precursor films. *RSC Advances*, **2017**, 7, 49144-49150	3.7	10
192	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	15
191	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	9.5	38
190	Size effect in Pd77.5Cu6Si16.5 metallic glass micro-wires: More scattered strength with decreasing diameter. *Applied Physics Letters*, **2017**, 111, 011905	3.4	7
189	High quality perovskite films fabricated from Lewis acid–base adduct through molecular exchange. *RSC Advances*, **2016**, 6, 70925-70931	3.7	39
188	Enhanced performance of perovskite solar cells by modulating the Lewis acid-base reaction. *Nanoscale*, **2016**, 8, 19804-19810	7.7	56
187	Stretchable and compressible strain sensors based on carbon nanotube meshes. *Nanoscale*, **2016**, 8, 19352-19358	7.7	58
186	High-Efficiency Large-Area Carbon Nanotube-Silicon Solar Cells. *Advanced Energy Materials*, **2016**, 6, 1600095	21.5	25
185	High performance of stretchable carbon nanotube–polypyrrole fiber supercapacitors under dynamic deformation and temperature variation. *Journal of Materials Chemistry A*, **2016**, 4, 9311-9318	13	76
184	Polymer-Coated Graphene Aerogel Beads and Supercapacitor Application. *ACS Applied Materials & Interfaces*, **2016**, 8, 11179-87	9.5	54
183	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	5.7	6
182	Modulating Hysteresis of Perovskite Solar Cells by a Poling Voltage. *Journal of Physical Chemistry C*, **2016**, 120, 22784-22792	3.8	25
181	In-situ synthesis of carbon nanotube/graphene composite sponge and its application as compressible supercapacitor electrode. *Electrochimica Acta*, **2015**, 157, 134-141	6.7	64
180	Highly efficient quasi-static water desalination using monolayer graphene oxide/titania hybrid laminates. *NPG Asia Materials*, **2015**, 7, e162-e162	10.3	78
179	Comparison of Nanocarbon-Silicon Solar Cells with Nanotube-Si or Graphene-Si Contact. *ACS Applied Materials & Interfaces*, **2015**, 7, 17088-94	9.5	16
178	Perovskite solar cell using a two-dimensional titania nanosheet thin film as the compact layer. *ACS Applied Materials & Interfaces*, **2015**, 7, 15117-22	9.5	17
177	Graphene/polyaniline woven fabric composite films as flexible supercapacitor electrodes. *Nanoscale*, **2015**, 7, 7318-22	7.7	154

176	Terahertz photodetector based on double-walled carbon nanotube macrobundle-metal contacts. *Optics Express*, **2015**, 23, 13348-57	3.3	16
175	High performance carbon nanotube based fiber-shaped supercapacitors using redox additives of polypyrrole and hydroquinone. *Journal of Materials Chemistry A*, **2015**, 3, 22353-22360	13	64
174	Highly flexible, tailorable and all-solid-state supercapacitors from carbon nanotube□MnOx composite films. *RSC Advances*, **2015**, 5, 89188-89194	3.7	9
173	Performance Enhancement of FET-Based Photodetector by Blending P3HT With PMMA. *IEEE Photonics Technology Letters*, **2015**, 27, 1535-1538	2.2	12
172	Improvement of graphene□Si solar cells by embroidering graphene with a carbon nanotube spider-web. *Nano Energy*, **2015**, 17, 216-223	17.1	27
171	Photo-induced selective gas detection based on reduced graphene oxide/Si Schottky diode. *Carbon*, **2015**, 84, 138-145	10.4	46
170	Polyaniline/graphene/carbon fiber ternary composites as supercapacitor electrodes. *Materials Letters*, **2015**, 140, 43-47	3.3	39
169	Anti-reflection graphene coating on metal surface. *Surface and Coatings Technology*, **2015**, 261, 327-330	4.4	16
168	Carbon Nanotubes and Graphene for Silicon-Based Solar Cells **2015**, 233-248		1
167	Highly conductive, twistable and bendable polypyrrole□carbon nanotube fiber for efficient supercapacitor electrodes. *RSC Advances*, **2015**, 5, 22015-22021	3.7	52
166	Efficient photovoltaic conversion of graphene□carbon nanotube hybrid films grown from solid precursors. *2D Materials*, **2015**, 2, 034003	5.9	27
165	Fabrication of highly conductive carbon nanotube fibers for electrical application. *Materials Research Express*, **2015**, 2, 095604	1.7	15
164	All carbon coaxial supercapacitors based on hollow carbon nanotube sleeve structure. *Nanotechnology*, **2015**, 26, 045401	3.4	11
163	Carbon nanotube-polypyrrole core-shell sponge and its application as highly compressible supercapacitor electrode. *Nano Research*, **2014**, 7, 209-218	10	98
162	Photocurrent response of carbon nanotube-metal heterojunctions in the terahertz range. *Optics Express*, **2014**, 22, 5895-903	3.3	13
161	Core-double-shell, carbon nanotube@polypyrrole@MnO□sponge as freestanding, compressible supercapacitor electrode. *ACS Applied Materials & Interfaces*, **2014**, 6, 5228-34	9.5	269
160	Hybrid Heterojunction and Solid-State Photoelectrochemical Solar Cells. *Advanced Energy Materials* , **2014**, 4, 1400224	21.8	39
159	Enhancement of the power conversion efficiency of polymer solar cells by functionalized single-walled carbon nanotubes decorated with CdSe/ZnS core□shell colloidal quantum dots. *Journal of Materials Science*, **2014**, 49, 2571-2577	4.3	9

158	Magnetic transitions in graphene derivatives. *Nano Research*, **2014**, 7, 1507-1518	10	33
157	Effective recovery of acids from iron-based electrolytes using graphene oxide membrane filters. *Journal of Materials Chemistry A*, **2014**, 2, 7734-7737	13	35
156	Effect of microwave irradiation on carbon nanotube fibers: exfoliation, structural change and strong light emission. *RSC Advances*, **2014**, 4, 15502-15506	3.7	1
155	Effect of different gel electrolytes on graphene-based solid-state supercapacitors. *RSC Advances*, **2014**, 4, 36253-36256	3.7	129
154	Three-dimensional porous graphene sponges assembled with the combination of surfactant and freeze-drying. *Nano Research*, **2014**, 7, 1477-1487	10	93
153	Correlation between nanoparticle location and graphene nucleation in chemical vapour deposition of graphene. *Journal of Materials Chemistry A*, **2014**, 2, 13123-13128	13	14
152	Interconnected graphene/polymer micro-tube piping composites for liquid sensing. *Nano Research*, **2014**, 7, 869-876	10	18
151	A large area, flexible polyaniline/buckypaper composite with a core–shell structure for efficient supercapacitors. *Journal of Materials Chemistry A*, **2014**, 2, 5898-5902	13	37
150	Evaluation of layer-by-layer graphene structures as supercapacitor electrode materials. *Journal of Applied Physics*, **2014**, 115, 024305	2.5	24
149	Flexible carbon nanotube/mono-crystalline Si thin-film solar cells. *Nanoscale Research Letters*, **2014**, 9, 514	5	13
148	Fabrication and oil adsorption of carbon nanotube/polyvinylpyrrolidone surface composite. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 6461-5	1.3	5
147	Electron transport in carbon nanotube/RbAg4I5 film composite nanostructures modulated by optical field. *Applied Physics Letters*, **2014**, 104, 243111	3.4	9
146	Ion-modulated nonlinear electronic transport in carbon nanotube bundle/RbAg4I5 thin film composite nanostructures. *Journal of Applied Physics*, **2014**, 115, 044302	2.5	7
145	Solution synthesis of Cu2O/Si radial nanowire array heterojunctions for broadband photodetectors. *Materials Research Express*, **2014**, 1, 015002	1.7	10
144	Highly deformation-tolerant carbon nanotube sponges as supercapacitor electrodes. *Nanoscale*, **2013**, 5, 8472-9	7.7	86
143	Fabrication of large area hexagonal boron nitride thin films for bendable capacitors. *Nano Research*, **2013**, 6, 602-610	10	42
142	Flexible all solid-state supercapacitors based on chemical vapor deposition derived graphene fibers. *Physical Chemistry Chemical Physics*, **2013**, 15, 17752-7	3.6	142
141	Small temperature coefficient of resistivity of graphene/graphene oxide hybrid membranes. *ACS Applied Materials & Interfaces*, **2013**, 5, 9563-71	9.5	46

140	Significantly enhanced photoresponse in carbon nanotube film/TiO2 nanotube array heterojunctions by pre-electroforming. *Nanotechnology*, **2013**, 24, 465203	3.4	4
139	Suppression of the coffee-ring effect by self-assembling graphene oxide and monolayer titania. *Nanotechnology*, **2013**, 24, 075601	3.4	30
138	Stable superhydrophobic surface of hierarchical carbon nanotubes on Si micropillar arrays. *Nanoscale Research Letters*, **2013**, 8, 412	5	10
137	Ion doping of graphene for high-efficiency heterojunction solar cells. *Nanoscale*, **2013**, 5, 1945-8	7.7	119
136	Colloidal antireflection coating improves graphene-silicon solar cells. *Nano Letters*, **2013**, 13, 1776-81	11.5	277
135	Anomalous Behaviors of Graphene Transparent Conductors in Graphene–Silicon Heterojunction Solar Cells. *Advanced Energy Materials*, **2013**, 3, 1029-1034	21.8	90
134	Flexible graphene woven fabrics for touch sensing. *Applied Physics Letters*, **2013**, 102, 163117	3.4	39
133	Selective ion penetration of graphene oxide membranes. *ACS Nano*, **2013**, 7, 428-37	16.7	520
132	Direct Synthesis of Graphene Quantum Dots by Chemical Vapor Deposition. *Particle and Particle Systems Characterization*, **2013**, 30, 764-769	3.1	56
131	Oil spill cleanup from sea water by carbon nanotube sponges. *Frontiers of Materials Science*, **2013**, 7, 170-176	2.5	57
130	Highly twisted double-helix carbon nanotube yarns. *ACS Nano*, **2013**, 7, 1446-53	16.7	73
129	Significantly enhanced thermoelectric properties of ultralong double-walled carbon nanotube bundle. *Applied Physics Letters*, **2013**, 102, 053105	3.4	22
128	The influence of gas absorption on the efficiency of carbon nanotube/Si solar cells. *Applied Physics Letters*, **2013**, 102, 143105	3.4	8
127	Carbon nanotube–silicon hybrid solar cells with hydrogen peroxide doping. *Chemical Physics Letters*, **2012**, 533, 70-73	2.5	20
126	Improve photocurrent quantum efficiency of carbon nanotube by chemical treatment. *Materials Chemistry and Physics*, **2012**, 131, 680-685	4.4	1
125	Preparation of CuI particles and their applications in carbon nanotube-Si heterojunction solar cells. *Materials Letters*, **2012**, 79, 106-108	3.3	8
124	Strong, conductive carbon nanotube fibers as efficient hole collectors. *Nanoscale Research Letters*, **2012**, 7, 137	5	8
123	TiO_2-coated carbon nanotube-silicon solar cells with efficiency of 15%. *Scientific Reports*, **2012**, 2, 884	4.9	127

122	Light-Induced Modulation in Resistance Switching of Carbon Nanotube/ BiFeO3/Pt Heterostructure. *Integrated Ferroelectrics*, **2012**, 132, 53-60	0.8	
121	Graphene oxide/titania hybrid films with dual-UV-responsive surfaces of tunable wettability. *RSC Advances*, **2012**, 2, 10829	3.7	14
120	Bubble-promoted assembly of hierarchical, porous Ag2S nanoparticle membranes. *Journal of Materials Chemistry*, **2012**, 22, 24721		5
119	Hybrid effect of gas flow and light excitation in carbon/silicon Schottky solar cells. *Journal of Materials Chemistry*, **2012**, 22, 3330		12
118	Wire-supported CdSe nanowire array photoelectrochemical solar cells. *Physical Chemistry Chemical Physics*, **2012**, 14, 3583-8	3.6	20
117	Stretchable and highly sensitive graphene-on-polymer strain sensors. *Scientific Reports*, **2012**, 2, 870	4.9	450
116	Solution-processed bulk heterojunction solar cells based on interpenetrating CdS nanowires and carbon nanotubes. *Nano Research*, **2012**, 5, 595-604	10	7
115	Nanobelt–carbon nanotube cross-junction solar cells. *Energy and Environmental Science*, **2012**, 5, 6119	35.4	11
114	Fabrication of double-walled carbon nanotube film/Cu2O nanoparticle film/TiO2 nanotube array heterojunctions for photosensors. *Applied Physics Letters*, **2012**, 100, 253113	3.4	21
113	Strong and reversible modulation of carbon nanotube-silicon heterojunction solar cells by an interfacial oxide layer. *Physical Chemistry Chemical Physics*, **2012**, 14, 8391-6	3.6	63
112	Multifunctional graphene woven fabrics. *Scientific Reports*, **2012**, 2, 395	4.9	139
111	Electrical and thermal properties of a carbon nanotube/polycrystalline BiFeO3/Pt photovoltaic heterojunction with CdSe quantum dots sensitization. *Nanoscale*, **2012**, 4, 2926-30	7.7	25
110	Super-stretchable spring-like carbon nanotube ropes. *Advanced Materials*, **2012**, 24, 2896-900	24	165
109	Carbon Nanotubes: Super-Stretchable Spring-Like Carbon Nanotube Ropes (Adv. Mater. 21/2012). *Advanced Materials*, **2012**, 24, 2935-2935	24	3
108	Boron Doping of Graphene for Graphene–Silicon p–n Junction Solar Cells. *Advanced Energy Materials*, **2012**, 2, 425-429	21.8	147
107	Transformation of Round-shaped Graphene Disks into Hexagonal Domains in CVD. *Chemical Vapor Deposition*, **2012**, 18, 185-190		1
106	Fiber and fabric solar cells by directly weaving carbon nanotube yarns with CdSe nanowire-based electrodes. *Nanoscale*, **2012**, 4, 4954-9	7.7	33
105	Photocatalytic, recyclable CdS nanoparticle-carbon nanotube hybrid sponges. *Nano Research*, **2012**, 5, 265-271	10	36

104	High-efficiency core–shell solar cell array from Si wafer. *Applied Physics A: Materials Science and Processing*, **2012**, 107, 911-917	2.6	7
103	The formation of graphene–titania hybrid films and their resistance change under ultraviolet irradiation. *Carbon*, **2012**, 50, 4518-4523	10.4	14
102	Controllable growth of triangular hexagonal boron nitride domains on copper foils by an improved low-pressure chemical vapor deposition method. *Nanotechnology*, **2012**, 23, 415605	3.4	69
101	Topology evolution of graphene in chemical vapor deposition, a combined theoretical/experimental approach toward shape control of graphene domains. *Nanotechnology*, **2012**, 23, 115605	3.4	39
100	Sharp burnout failure observed in high current-carrying double-walled carbon nanotube fibers. *Nanotechnology*, **2012**, 23, 015703	3.4	9
99	Photoinduced molecular desorption from graphene films. *Applied Physics Letters*, **2012**, 101, 053107	3.4	31
98	Negative and positive photoconductivity modulated by light wavelengths in carbon nanotube film. *Applied Physics Letters*, **2012**, 101, 123117	3.4	22
97	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	3.4	12
96	Preparation of highly oxidized nitrogen-doped carbon nanotubes. *Nanotechnology*, **2012**, 23, 155601	3.4	20
95	Light-Induced Modulation in Resistance Switching of Carbon Nanotube/BiFeO3/Pt Heterostructure. *Integrated Ferroelectrics*, **2012**, 134, 58-64	0.8	3
94	Graphene/silicon nanowire Schottky junction for enhanced light harvesting. *ACS Applied Materials & Interfaces*, **2011**, 3, 721-5	9.5	193
93	Achieving high efficiency silicon-carbon nanotube heterojunction solar cells by acid doping. *Nano Letters*, **2011**, 11, 1901-5	11.5	216
92	Flame synthesis of few-layered graphene/graphite films. *Chemical Communications*, **2011**, 47, 3520-2	5.8	60
91	Formation of CuPd and CuPt Bimetallic Nanotubes by Galvanic Replacement Reaction. *Journal of Physical Chemistry C*, **2011**, 115, 9403-9409	3.8	136
90	Controllable growth of shaped graphene domains by atmospheric pressure chemical vapour deposition. *Nanoscale*, **2011**, 3, 4946	7.7	33
89	Graphene buffered galvanic synthesis of graphene–metal hybrids. *Journal of Materials Chemistry*, **2011**, 21, 13241		21
88	Tribological properties of oleic acid-modified graphene as lubricant oil additives. *Journal Physics D: Applied Physics*, **2011**, 44, 205303	3	189
87	A facile route to isotropic conductive nanocomposites by direct polymer infiltration of carbon nanotube sponges. *ACS Nano*, **2011**, 5, 4276-83	16.7	51

86	Directly drawing self-assembled, porous, and monolithic graphene fiber from chemical vapor deposition grown graphene film and its electrochemical properties. *Langmuir*, **2011**, 27, 12164-71	4	166
85	Fabrication of silicon microwire arrays for photovoltaic applications. *Applied Physics A: Materials Science and Processing*, **2011**, 102, 109-114	2.6	16
84	Graphene-CdSe nanobelt solar cells with tunable configurations. *Nano Research*, **2011**, 4, 891-900	10	56
83	CuI-Si heterojunction solar cells with carbon nanotube films as flexible top-contact electrodes. *Nano Research*, **2011**, 4, 979-986	10	18
82	Enhanced Transport of Nanoparticles Across a Porous Nanotube Sponge. *Advanced Functional Materials*, **2011**, 21, 3439-3445	15.6	18
81	Iodine doped carbon nanotube cables exceeding specific electrical conductivity of metals. *Scientific Reports*, **2011**, 1, 83	4.9	268
80	Encapsulated carbon nanotube-oxide-silicon solar cells with stable 10% efficiency. *Applied Physics Letters*, **2011**, 98, 133115	3.4	89
79	Suspended, straightened carbon nanotube arrays by gel chapping. *ACS Nano*, **2011**, 5, 5656-61	16.7	16
78	Ethanol flame synthesis of highly transparent carbon thin films. *Carbon*, **2011**, 49, 237-241	10.4	22
77	Recyclable carbon nanotube sponges for oil absorption. *Acta Materialia*, **2011**, 59, 4798-4804	8.4	255
76	Step driven competitive epitaxial and self-limited growth of graphene on copper surface. *AIP Advances*, **2011**, 1, 032145	1.5	19
75	Selective microwave absorption of iron-rich carbon nanotube composites. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 1808-13	1.3	8
74	Hybrid thin films of graphene nanowhiskers and amorphous carbon as transparent conductors. *Chemical Communications*, **2010**, 46, 3502-4	5.8	32
73	Graphene Nano-Patches on a Carbon Nanotube Network for Highly Transparent/Conductive Thin Film Applications. *Journal of Physical Chemistry C*, **2010**, 114, 14008-14012	3.8	114
72	Solar cells and light sensors based on nanoparticle-grafted carbon nanotube films. *ACS Nano*, **2010**, 4, 2142-8	16.7	44
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