Jinquan Wei

List of Publications by Citations

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	Carbon nanotube sponges. *Advanced Materials*, **2010**, 22, 617-21	24	1240
246	Graphene-on-silicon Schottky junction solar cells. *Advanced Materials*, **2010**, 22, 2743-8	24	910
245	Lead adsorption on carbon nanotubes. *Chemical Physics Letters*, **2002**, 357, 263-266	2.5	583
244	Selective ion penetration of graphene oxide membranes. *ACS Nano*, **2013**, 7, 428-37	16.7	520
243	Stretchable and highly sensitive graphene-on-polymer strain sensors. *Scientific Reports*, **2012**, 2, 870	4.9	450
242	Double-walled carbon nanotube solar cells. *Nano Letters*, **2007**, 7, 2317-21	11.5	298
241	Adsorption of fluoride from water by aligned carbon nanotubes. *Materials Research Bulletin*, **2003**, 38, 469-476	5.1	283
240	Colloidal antireflection coating improves graphene-silicon solar cells. *Nano Letters*, **2013**, 13, 1776-81	11.5	277
239	Core-double-shell, carbon nanotube@polypyrrole@MnO$_2$ sponge as freestanding, compressible supercapacitor electrode. *ACS Applied Materials & Interfaces*, **2014**, 6, 5228-34	9.5	269
238	Applications of carbon materials in photovoltaic solar cells. *Solar Energy Materials and Solar Cells*, **2009**, 93, 1461-1470	6.4	269
237	Iodine doped carbon nanotube cables exceeding specific electrical conductivity of metals. *Scientific Reports*, **2011**, 1, 83	4.9	268
236	Recyclable carbon nanotube sponges for oil absorption. *Acta Materialia*, **2011**, 59, 4798-4804	8.4	255
235	Achieving high efficiency silicon-carbon nanotube heterojunction solar cells by acid doping. *Nano Letters*, **2011**, 11, 1901-5	11.5	216
234	Soft, highly conductive nanotube sponges and composites with controlled compressibility. *ACS Nano*, **2010**, 4, 2320-6	16.7	206
233	Nanotube–Silicon Heterojunction Solar Cells. *Advanced Materials*, **2008**, 20, 4594-4598	24	201
232	Graphene/silicon nanowire Schottky junction for enhanced light harvesting. *ACS Applied Materials & Interfaces*, **2011**, 3, 721-5	9.5	193
231	Tribological properties of oleic acid-modified graphene as lubricant oil additives. *Journal Physics D: Applied Physics*, **2011**, 44, 205303	3	189

230	Graphene sheets from worm-like exfoliated graphite. *Journal of Materials Chemistry*, **2009**, 19, 3367		173
229	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
228	Super-stretchable spring-like carbon nanotube ropes. *Advanced Materials*, **2012**, 24, 2896-900	24	165
227	Rapid growth of well-aligned carbon nanotube arrays. *Chemical Physics Letters*, **2002**, 362, 285-290	2.5	165
226	Graphene/polyaniline woven fabric composite films as flexible supercapacitor electrodes. *Nanoscale*, **2015**, 7, 7318-22	7.7	154
225	Carbon nanotubes filled with ferromagnetic alloy nanowires: Lightweight and wide-band microwave absorber. *Applied Physics Letters*, **2008**, 93, 223105	3.4	151
224	Boron Doping of Graphene for Graphene□Silicon p□ Junction Solar Cells. *Advanced Energy Materials*, **2012**, 2, 425-429	21.8	147
223	Flexible all solid-state supercapacitors based on chemical vapor deposition derived graphene fibers. *Physical Chemistry Chemical Physics*, **2013**, 15, 17752-7	3.6	142
222	Multifunctional graphene woven fabrics. *Scientific Reports*, **2012**, 2, 395	4.9	139
221	Formation of CuPd and CuPt Bimetallic Nanotubes by Galvanic Replacement Reaction. *Journal of Physical Chemistry C*, **2011**, 115, 9403-9409	3.8	136
220	Effect of different gel electrolytes on graphene-based solid-state supercapacitors. *RSC Advances*, **2014**, 4, 36253-36256	3.7	129
219	TiO□coated carbon nanotube-silicon solar cells with efficiency of 15%. *Scientific Reports*, **2012**, 2, 884	4.9	127
218	Ion doping of graphene for high-efficiency heterojunction solar cells. *Nanoscale*, **2013**, 5, 1945-8	7.7	119
217	Carbon nanofibers and single-walled carbon nanotubes prepared by the floating catalyst method. *Carbon*, **2001**, 39, 329-335	10.4	118
216	Graphene Nano-□atches□on a Carbon Nanotube Network for Highly Transparent/Conductive Thin Film Applications. *Journal of Physical Chemistry C*, **2010**, 114, 14008-14012	3.8	114
215	Carbon nanotube-polypyrrole core-shell sponge and its application as highly compressible supercapacitor electrode. *Nano Research*, **2014**, 7, 209-218	10	98
214	Three-dimensional porous graphene sponges assembled with the combination of surfactant and freeze-drying. *Nano Research*, **2014**, 7, 1477-1487	10	93
213	Anomalous Behaviors of Graphene Transparent Conductors in Graphene□Silicon Heterojunction Solar Cells. *Advanced Energy Materials*, **2013**, 3, 1029-1034	21.8	90

212	Carbon nanotube sponge filters for trapping nanoparticles and dye molecules from water. *Chemical Communications*, **2010**, 46, 7966-8	5.8	90
211	Encapsulated carbon nanotube-oxide-silicon solar cells with stable 10% efficiency. *Applied Physics Letters*, **2011**, 98, 133115	3.4	89
210	Hybrid heterojunction and photoelectrochemistry solar cell based on silicon nanowires and double-walled carbon nanotubes. *Nano Letters*, **2009**, 9, 4338-42	11.5	88
209	Highly deformation-tolerant carbon nanotube sponges as supercapacitor electrodes. *Nanoscale*, **2013**, 5, 8472-9	7.7	86
208	Carbon nanotube and CdSe nanobelt Schottky junction solar cells. *Nano Letters*, **2010**, 10, 3583-9	11.5	84
207	Carbon nanotube filaments in household light bulbs. *Applied Physics Letters*, **2004**, 84, 4869-4871	3.4	84
206	Highly efficient quasi-static water desalination using monolayer graphene oxide/titania hybrid laminates. *NPG Asia Materials*, **2015**, 7, e162-e162	10.3	78
205	Single-Crystalline Permalloy Nanowires in Carbon Nanotubes: Enhanced Encapsulation and Magnetization. *Journal of Physical Chemistry C*, **2007**, 111, 11475-11479	3.8	78
204	Effect of using chlorine-containing precursors in the synthesis of FeNi-filled carbon nanotubes. *Carbon*, **2007**, 45, 1433-1438	10.4	76
203	Large-Scale Synthesis of Long Double-Walled Carbon Nanotubes. *Journal of Physical Chemistry B*, **2004**, 108, 8844-8847	3.4	76
202	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
201	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
200	Tensile properties of long aligned double-walled carbon nanotube strands. *Carbon*, **2005**, 43, 31-35	10.4	75
199	Highly twisted double-helix carbon nanotube yarns. *ACS Nano*, **2013**, 7, 1446-53	16.7	73
198	Determination of band gaps of self-assembled carbon nanotube films using Tauc/Davis-Mott model. *Applied Physics A: Materials Science and Processing*, **2009**, 97, 341-344	2.6	70
197	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
196	In situ synthesis and magnetic anisotropy of ferromagnetic buckypaper. *Carbon*, **2009**, 47, 1141-1145	10.4	67
195	Preparation of highly pure double-walled carbon nanotubes. *Journal of Materials Chemistry*, **2003**, 13, 1340		67

194	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
193	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
192	The effect of sulfur on the number of layers in a carbon nanotube. *Carbon*, **2007**, 45, 2152-2158	10.4	64
191	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
190	Large area, highly transparent carbon nanotube spiderwebs for energy harvesting. *Journal of Materials Chemistry*, **2010**, 20, 7236		62
189	A strategy to control the chirality of single-walled carbon nanotubes. *Journal of Crystal Growth*, **2008**, 310, 5473-5476	1.6	62
188	Flame synthesis of few-layered graphene/graphite films. *Chemical Communications*, **2011**, 47, 3520-2	5.8	60
187	Oil spill cleanup from sea water by carbon nanotube sponges. *Frontiers of Materials Science*, **2013**, 7, 170-176	2.5	57
186	Enhanced performance of perovskite solar cells by modulating the Lewis acid-base reaction. *Nanoscale*, **2016**, 8, 19804-19810	7.7	56
185	Direct Synthesis of Graphene Quantum Dots by Chemical Vapor Deposition. *Particle and Particle Systems Characterization*, **2013**, 30, 764-769	3.1	56
184	Graphene-CdSe nanobelt solar cells with tunable configurations. *Nano Research*, **2011**, 4, 891-900	10	56
183	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
182	Raman study on double-walled carbon nanotubes. *Chemical Physics Letters*, **2003**, 376, 753-757	2.5	54
181	Polymer-Coated Graphene Aerogel Beads and Supercapacitor Application. *ACS Applied Materials & Interfaces*, **2016**, 8, 11179-87	9.5	54
180	Highly conductive, twistable and bendable polypyrrole–carbon nanotube fiber for efficient supercapacitor electrodes. *RSC Advances*, **2015**, 5, 22015-22021	3.7	52
179	A facile route to isotropic conductive nanocomposites by direct polymer infiltration of carbon nanotube sponges. *ACS Nano*, **2011**, 5, 4276-83	16.7	51
178	Ultrathin Single-Layered Membranes from Double-Walled Carbon Nanotubes. *Advanced Materials*, **2006**, 18, 1695-1700	24	51
177	Stretchable and compressible strain sensors based on carbon nanotube meshes. *Nanoscale*, **2016**, 8, 19352-19358	7.7	48

176	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
175	Carbon nanotube films by filtration for nanotube-silicon heterojunction solar cells. *Materials Research Bulletin*, **2010**, 45, 1401-1405	5.1	47
174	Photo-induced selective gas detection based on reduced graphene oxide/Si Schottky diode. *Carbon*, **2015**, 84, 138-145	10.4	46
173	Small temperature coefficient of resistivity of graphene/graphene oxide hybrid membranes. *ACS Applied Materials & Interfaces*, **2013**, 5, 9563-71	9.5	46
172	Straight boron carbide nanorods prepared from carbon nanotubes. *Journal of Materials Chemistry*, **2002**, 12, 3121-3124		45
171	Solar cells and light sensors based on nanoparticle-grafted carbon nanotube films. *ACS Nano*, **2010**, 4, 2142-8	16.7	44
170	Synthesis of Fe-filled thin-walled carbon nanotubes with high filling ratio by using dichlorobenzene as precursor. *Carbon*, **2007**, 45, 1127-1129	10.4	44
169	Fabrication of large area hexagonal boron nitride thin films for bendable capacitors. *Nano Research*, **2013**, 6, 602-610	10	42
168	Carbon nanotube macrobundles for light sensing. *Small*, **2006**, 2, 988-93	11	41
167	Polyaniline/graphene/carbon fiber ternary composites as supercapacitor electrodes. *Materials Letters*, **2015**, 140, 43-47	3.3	39
166	High quality perovskite films fabricated from Lewis acid–base adduct through molecular exchange. *RSC Advances*, **2016**, 6, 70925-70931	3.7	39
165	Hybrid Heterojunction and Solid-State Photoelectrochemical Solar Cells. *Advanced Energy Materials* , **2014**, 4, 1400224	21.8	39
164	Flexible graphene woven fabrics for touch sensing. *Applied Physics Letters*, **2013**, 102, 163117	3.4	39
163	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
162	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
161	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
160	Photoinduced currents in carbon nanotube/metal heterojunctions. *Applied Physics Letters*, **2006**, 88, 131107	3.4	38
159	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

158	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
157	Doped carbon nanotube array with a gradient of nitrogen concentration. *Carbon*, **2010**, 48, 3097-3102	10.4	37
156	Photocatalytic, recyclable CdS nanoparticle-carbon nanotube hybrid sponges. *Nano Research*, **2012**, 5, 265-271	10	36
155	Effective recovery of acids from iron-based electrolytes using graphene oxide membrane filters. *Journal of Materials Chemistry A*, **2014**, 2, 7734-7737	13	35
154	Optimization of electromagnetic matching of Fe-filled carbon nanotubes/ferrite composites for microwave absorption. *Journal Physics D: Applied Physics*, **2009**, 42, 075002	3	35
153	Label-Free Electronic Detection of DNA Using Simple Double-Walled Carbon Nanotube Resistors. *Journal of Physical Chemistry C*, **2008**, 112, 9891-9895	3.8	35
152	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
151	In Situ Observation of Crystallization of Methylammonium Lead Iodide Perovskite from Microdroplets. *Small*, **2017**, 13, 1604125	11	33
150	Magnetic transitions in graphene derivatives. *Nano Research*, **2014**, 7, 1507-1518	10	33
149	Fiber and fabric solar cells by directly weaving carbon nanotube yarns with CdSe nanowire-based electrodes. *Nanoscale*, **2012**, 4, 4954-9	7.7	33
148	Controllable growth of shaped graphene domains by atmospheric pressure chemical vapour deposition. *Nanoscale*, **2011**, 3, 4946	7.7	33
147	Efficient energy conversion of nanotube/nanowire-based solar cells. *Chemical Communications*, **2010**, 46, 5533-5	5.8	33
146	Enhanced field emission of open-ended, thin-walled carbon nanotubes filled with ferromagnetic nanowires. *Carbon*, **2009**, 47, 2709-2715	10.4	33
145	Hybrid thin films of graphene nanowhiskers and amorphous carbon as transparent conductors. *Chemical Communications*, **2010**, 46, 3502-4	5.8	32
144	Photoinduced molecular desorption from graphene films. *Applied Physics Letters*, **2012**, 101, 053107	3.4	31
143	High-yield bamboo-shaped carbon nanotubes from cresol for electrochemical application. *Chemical Communications*, **2008**, 2046-8	5.8	31
142	Suppression of the coffee-ring effect by self-assembling graphene oxide and monolayer titania. *Nanotechnology*, **2013**, 24, 075601	3.4	30
141	Mechanical and electrical properties of carbon nanotube ribbons. *Chemical Physics Letters*, **2002**, 365, 95-100	2.5	29

140	Electronic properties of double-walled carbon nanotube films. *Carbon*, **2003**, 41, 2495-2500	10.4	29
139	Coated double-walled carbon nanotubes with ceria nanoparticles. *Materials Letters*, **2005**, 59, 322-325	3.3	29
138	Improvement of graphene–Si solar cells by embroidering graphene with a carbon nanotube spider-web. *Nano Energy*, **2015**, 17, 216-223	17.1	27
137	Efficient photovoltaic conversion of graphene–carbon nanotube hybrid films grown from solid precursors. *2D Materials*, **2015**, 2, 034003	5.9	27
136	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	4.4	27
135	Microwave absorbing properties and magnetic properties of different carbon nanotubes. *Science in China Series D: Earth Sciences*, **2009**, 52, 227-231		26
134	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
133	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
132	Improved filling rate and enhanced magnetic properties of Fe-filled carbon nanotubes by annealing and magnetic separation. *Materials Research Bulletin*, **2008**, 43, 3441-3446	5.1	25
131	High-Efficiency Large-Area Carbon Nanotube-Silicon Solar Cells. *Advanced Energy Materials*, **2016**, 6, 1600095	21.5	25
130	Modulating Hysteresis of Perovskite Solar Cells by a Poling Voltage. *Journal of Physical Chemistry C*, **2016**, 120, 22784-22792	3.8	25
129	Evaluation of layer-by-layer graphene structures as supercapacitor electrode materials. *Journal of Applied Physics*, **2014**, 115, 024305	2.5	24
128	Macroscopic Three-Dimensional Arrays of Fe Nanoparticles Supported in Aligned Carbon Nanotubes. *Journal of Physical Chemistry B*, **2001**, 105, 11937-11940	3.4	24
127	Enhanced efficiency of perovskite solar cells by introducing controlled chloride incorporation into MAPbI3 perovskite films. *Electrochimica Acta*, **2018**, 275, 1-7	6.7	22
126	Significantly enhanced thermoelectric properties of ultralong double-walled carbon nanotube bundle. *Applied Physics Letters*, **2013**, 102, 053105	3.4	22
125	Ethanol flame synthesis of highly transparent carbon thin films. *Carbon*, **2011**, 49, 237-241	10.4	22
124	Negative and positive photoconductivity modulated by light wavelengths in carbon nanotube film. *Applied Physics Letters*, **2012**, 101, 123117	3.4	22
123	Ultra-black and self-cleaning all carbon nanotube hybrid films for efficient water desalination and purification. *Carbon*, **2020**, 169, 134-141	10.4	22

122	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
121	Graphene buffered galvanic synthesis of graphene–metal hybrids. *Journal of Materials Chemistry*, **2011**, 21, 13241		21
120	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
119	Carbon nanotube–silicon hybrid solar cells with hydrogen peroxide doping. *Chemical Physics Letters*, **2012**, 533, 70-73	2.5	20
118	Wire-supported CdSe nanowire array photoelectrochemical solar cells. *Physical Chemistry Chemical Physics*, **2012**, 14, 3583-8	3.6	20
117	Preparation of highly oxidized nitrogen-doped carbon nanotubes. *Nanotechnology*, **2012**, 23, 155601	3.4	20
116	Step driven competitive epitaxial and self-limited growth of graphene on copper surface. *AIP Advances*, **2011**, 1, 032145	1.5	19
115	Interconnected graphene/polymer micro-tube piping composites for liquid sensing. *Nano Research*, **2014**, 7, 869-876	10	18
114	CuI-Si heterojunction solar cells with carbon nanotube films as flexible top-contact electrodes. *Nano Research*, **2011**, 4, 979-986	10	18
113	Enhanced Transport of Nanoparticles Across a Porous Nanotube Sponge. *Advanced Functional Materials*, **2011**, 21, 3439-3445	15.6	18
112	Connection of macro-sized double-walled carbon nanotube strands by bandaging with double-walled carbon nanotube films. *Carbon*, **2007**, 45, 2235-2240	10.4	18
111	Structure and superconductivity of MgB2–carbon nanotube composites. *Materials Chemistry and Physics*, **2003**, 78, 785-790	4.4	18
110	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
109	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
108	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
107	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
106	Comparison of Nanocarbon-Silicon Solar Cells with Nanotube-Si or Graphene-Si Contact. *ACS Applied Materials & Interfaces*, **2015**, 7, 17088-94	9.5	16
105	Terahertz photodetector based on double-walled carbon nanotube macrobundle-metal contacts. *Optics Express*, **2015**, 23, 13348-57	3.3	16

104	Anti-reflection graphene coating on metal surface. *Surface and Coatings Technology*, **2015**, 261, 327-330	4.4	16
103	Fabrication of silicon microwire arrays for photovoltaic applications. *Applied Physics A: Materials Science and Processing*, **2011**, 102, 109-114	2.6	16
102	Suspended, straightened carbon nanotube arrays by gel chapping. *ACS Nano*, **2011**, 5, 5656-61	16.7	16
101	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
100	Fabrication of highly conductive carbon nanotube fibers for electrical application. *Materials Research Express*, **2015**, 2, 095604	1.7	15
99	Photoluminescence of Fe2O3 nanoparticles prepared by laser oxidation of Fe catalysts in carbon nanotubes. *Materials Research Bulletin*, **2008**, 43, 3490-3494	5.1	15
98	Correlation between nanoparticle location and graphene nucleation in chemical vapour deposition of graphene. *Journal of Materials Chemistry A*, **2014**, 2, 13123-13128	13	14
97	Graphene oxide/titania hybrid films with dual-UV-responsive surfaces of tunable wettability. *RSC Advances*, **2012**, 2, 10829	3.7	14
96	The formation of graphene–titania hybrid films and their resistance change under ultraviolet irradiation. *Carbon*, **2012**, 50, 4518-4523	10.4	14
95	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
94	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
93	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
92	Photocurrent response of carbon nanotube-metal heterojunctions in the terahertz range. *Optics Express*, **2014**, 22, 5895-903	3.3	13
91	Flexible carbon nanotube/mono-crystalline Si thin-film solar cells. *Nanoscale Research Letters*, **2014**, 9, 514	5	13
90	Structural Changes in Double-Walled Carbon Nanotube Strands Induced by Ultraviolet Laser Irradiation. *Journal of Physical Chemistry C*, **2007**, 111, 2901-2905	3.8	13
89	Performance Enhancement of FET-Based Photodetector by Blending P3HT With PMMA. *IEEE Photonics Technology Letters*, **2015**, 27, 1535-1538	2.2	12
88	Hybrid effect of gas flow and light excitation in carbon/silicon Schottky solar cells. *Journal of Materials Chemistry*, **2012**, 22, 3330		12
87	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

86	Templated direct growth of ultra-thin double-walled carbon nanotubes. *Nanoscale*, **2018**, 10, 21254-21261	7.7	12
85	The effect of Rb doping on CZTSSe solar cells. *Solar Energy*, **2019**, 187, 269-273	6.8	11
84	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
83	All carbon coaxial supercapacitors based on hollow carbon nanotube sleeve structure. *Nanotechnology*, **2015**, 26, 045401	3.4	11
82	Nanobelt□arbon nanotube cross-junction solar cells. *Energy and Environmental Science*, **2012**, 5, 6119	35.4	11
81	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	1.6	11
80	Influences of Cu concentration on electrical properties of CZTSSe absorbers and their device performances. *Vacuum*, **2020**, 173, 109121	3.7	11
79	Strong and super-hydrophobic hybrid carbon nanotube films with superior loading capacity. *Carbon*, **2018**, 137, 88-92	10.4	11
78	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
77	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
76	Stable superhydrophobic surface of hierarchical carbon nanotubes on Si micropillar arrays. *Nanoscale Research Letters*, **2013**, 8, 412	5	10
75	Solution synthesis of Cu2O/Si radial nanowire array heterojunctions for broadband photodetectors. *Materials Research Express*, **2014**, 1, 015002	1.7	10
74	Diameter dependent growth mode of carbon nanotubes on nanoporous SiO2 substrates. *Materials Letters*, **2009**, 63, 1366-1369	3.3	10
73	Temperature dependence of field emission of single-walled carbon nanotube thin films. *Physica E: Low-Dimensional Systems and Nanostructures*, **2009**, 41, 1277-1280	3	10
72	Atom-Resolved Imaging of Carbon Hexagons of Carbon Nanotubes. *Journal of Physical Chemistry C*, **2008**, 112, 11098-11101	3.8	10
71	Preparation and Testing of Anisotropic MAPbI3 Perovskite Photoelectric Sensors. *ACS Applied Materials & Interfaces*, **2020**, 12, 44248-44255	9.5	10
70	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
69	Highly flexible, tailorable and all-solid-state supercapacitors from carbon nanotube□MnOx composite films. *RSC Advances*, **2015**, 5, 89188-89194	3.7	9

68	The effects of preheating temperature on CuInGaSe2/CdS interface and the device performances. *Solar Energy*, **2019**, 194, 11-17	6.8	9
67	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
66	Electron transport in carbon nanotube/RbAg4I5 film composite nanostructures modulated by optical field. *Applied Physics Letters*, **2014**, 104, 243111	3.4	9
65	Sharp burnout failure observed in high current-carrying double-walled carbon nanotube fibers. *Nanotechnology*, **2012**, 23, 015703	3.4	9
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