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A fullerenesingle wall carbon nanotube complex for polymer bulk heterojunction photovoltaic cells

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#	Paper	IF	Citations
188	Polymer Solar Cells Using Single-Wall Carbon Nanotubes Modified with Thiophene Pedant Groups. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 18431-18438	3.8	66
187	Elaboration of P3HT/CNT/PCBM Composites for Organic Photovoltaic Cells. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 3363-3370	15.6	214
186	Photovoltaics literature survey (No. 58). <b>2007</b> , 15, 749-754		
185	Photovoltaics literature survey (No. 60). <b>2008</b> , 16, 181-185		
184	Clusterization, electrophoretic deposition, and photoelectrochemical properties of fullerene-functionalized carbon nanotube composites. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 4875-85 <sup>4.8</sup>		53
183	Enhanced Performance of Bulk Heterojunction Solar Cells Fabricated by Polymer:Fullerene:Carbon-Nanotube Composites. <b>2008</b> ,		1
182	Carbon nanotubes: a multi-functional material for organic optoelectronics. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 1183		117
181	Hydrothermal treatment to prepare hydroxyl group modified multi-walled carbon nanotubes. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 350-354		82
180	Fullerene (C60) decoration in oxygen plasma treated multiwalled carbon nanotubes for photovoltaic application. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 063508	3.4	40
179	Carbon nanotube-modified electrodes for solar energy conversion. <b>2008</b> , 1, 120		170
178	A facile nanotemplate preparation method for [60]fullerene nanofibres: surface-wetting. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 4318		10
177	Carbon nanotube doping of P3HT : PCBM photovoltaic devices. <b>2008</b> , 41, 165110		74
176	Device optimization for organic photovoltaics with CNT networks as transparent electrode. <b>2008</b> ,		3
175	P3HT/PCBM/SWNTs photovoltaic devices. <b>2008</b> ,		
174	Effects of semiconducting and metallic single-walled carbon nanotubes on performance of bulk heterojunction organic solar cells. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 233309	3.4	46
173	NanotubePolymer Composites for Ultrafast Photonics. <b>2009</b> , 21, 3874-3899		659
172	Synthesis of poly(3-hexylthiophene)-graft-poly(t-butyl acrylate-co-acrylic acid) and its role of compatibilizer for enhancement of mechanical and electrical properties of Nylon 66/multi-walled carbon nanotube composites. <b>2009</b> , 69, 2205-2211		13

171	Enhancing light absorption and carrier transport of P3HT by doping multi-wall carbon nanotubes. <i>Chemical Physics Letters</i> , <b>2009</b> , 468, 64-68	2.5	85
170	The applicability of SWCNT on the counter electrode for the dye-sensitized solar cell. <b>2009</b> , 20, 310-317		17
169	Carbon nanotubes--electronic/electrochemical properties and application for nanoelectronics and photonics. <b>2009</b> , 38, 165-84		456
168	Improving photovoltaic properties by incorporating both single walled carbon nanotubes and functionalized multiwalled carbon nanotubes. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 093509	3.4	51
167	Performance analysis of bulk heterojunction solar cells fabricated by polymer:fullerene:carbon-nanotube composites. <b>2009</b> ,		
166	Colloidal properties of aqueous fullerenes: isoelectric points and aggregation kinetics of C60 and C60 derivatives. <b>2009</b> , 43, 6597-603		71
165	Self-assembly and its impact on interfacial charge transfer in carbon nanotube/P3HT solar cells. <b>2010</b> , 4, 6599-606		84
164	Carbon nanotubes for photoconversion and electrical energy storage. <i>Chemical Reviews</i> , <b>2010</b> , 110, 6856-6872	6.8	244
163	Enhanced $\pi$ - $\pi$ interactions between a C60 fullerene and a buckle bend on a double-walled carbon nanotube. <b>2010</b> , 3, 92-97		14
162	Selective formation and efficient photocurrent generation of [70]fullerene-single-walled carbon nanotube composites. <b>2010</b> , 22, 1767-70		43
161	The effect of SWCNT with the functional group deposited on the counter electrode on the dye-sensitized solar cell. <b>2010</b> , 21, 542-550		22
160	A facile, covalent modification of single-wall carbon nanotubes by thiophene for use in organic photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2010</b> , 94, 267-274	6.4	65
159	Solution-processable functionalized graphene in donor/acceptor-type organic photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2010</b> , 94, 1196-1200	6.4	70
158	Improving photovoltaic properties by incorporating both SPFGraphene and functionalized multiwalled carbon nanotubes. <i>Solar Energy Materials and Solar Cells</i> , <b>2010</b> , 94, 2148-2153	6.4	38
157	Bionic photovoltaic panels bio-inspired by green leaves. <b>2010</b> , 7, 284-293		11
156	Ground and Excited State Charge Transfer and its Implications. 233-289		1
155	Carbon Nanotubes Towards Polymer Solar Cell. <b>2010</b> , 101-123		3
154	Comparison of Cluster Formation, Film Structure, Microwave Conductivity, and Photoelectrochemical Properties of Composites Consisting of Single-Walled Carbon Nanotubes with C60, C70, and C84. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 3235-3247	3.8	30

153	A new model for quantifying the extent of interaction between soluble polyphenylene-vinylenes and single-walled carbon nanotubes in solvent dispersions. <b>2010</b> , 114, 11002-9		14
152	Influence of electrostatic interactions on spin-assembled single-walled carbon nanotube networks on amine-functionalized surfaces. <b>2010</b> , 4, 1167-77		48
151	Polymer and Hybrid Electron Accepting Materials Based on a Semiconducting Perfluorophenylquinoline. <i>Macromolecules</i> , <b>2010</b> , 43, 4827-4828	5.5	21
150	Graphene doping of P3HT:PCBM photovoltaic devices. <b>2010</b> , 160, 1036-1039		76
149	Effects of n-type perylene derivative as an additive on the power conversion efficiencies of polymer solar cells. <b>2010</b> , 160, 2109-2115		14
148	Fullerene-multiwalled carbon nanotube complexes for bulk heterojunction photovoltaic cells. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 143303	3.4	27
147	Organic photovoltaics: a chemical approach. <b>2010</b> , 46, 4853-65		336
146	Soluble P3HT-grafted graphene for efficient bilayer-heterojunction photovoltaic devices. <b>2010</b> , 4, 5633-40		415
145	Conjugated Polymer Poly(2-methoxy-5-(3,7-dimethyloctyloxy)-1,4-phenylenevinylene) Modification on Carbon Nanotubes with Assistance of Supercritical Carbon Dioxide: Chemical Interaction, Solubility, and Light Emission. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 10119-10125	3.8	11
144	Photothermovoltaic effect in carbon nanotubes: En route toward junctionless infrared photocells and light sensors. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 243113	3.4	16
143	Mechanism of Li adsorption on carbon nanotube-fullerene hybrid system: a first-principles study. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 1186-94	9.5	26
142	Stretchable, elastic materials and devices for solar energy conversion. <b>2011</b> , 4, 3314		322
141	Assembly of carbon nanotubes and alkylated fullerenes: nanocarbon hybrid towards photovoltaic applications. <b>2011</b> , 2, 2243		45
140	C60-based composites in view of topochemical reactions. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 17128		16
139	Molecular- and Nano-Tubes. <b>2011</b> ,		8
138	ESR and LESR X-band study of morphology and charge carrier interaction in blended P3HT/BWCNT and P3HT/PCBM/BWCNT solid thin films. <b>2011</b> , 161, 2241-2248		11
137	Fullerene-Grafted Graphene for Efficient Bulk Heterojunction Polymer Photovoltaic Devices. <b>2011</b> , 2, 1113-8		195
136	Immobilization of Carbon Nanotubes on Au(111) via Self-assembled Monolayers. <b>2011</b> , 40, 1217-1219		

135	. <b>2011</b> , 5, 18-24		11
134	The effect of amine protonation on the electrical properties of spin-assembled single-walled carbon nanotube networks. <i>Nanotechnology</i> , <b>2011</b> , 22, 125201	3-4	9
133	Nanotube and Graphene Polymer Composites for Photonics and Optoelectronics. <b>2011</b> , 279-354		5
132	Chapter 1:Carbon Nanotubes. <i>RSC Nanoscience and Nanotechnology</i> , <b>2011</b> , 1-242		2
131	Organic photovoltaic devices based on graphene as an electron-acceptor material and P3OT as a donor material. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2011</b> , 208, 2339-2343	1.6	11
130	Electrospun fibers of functional nanocomposites composed of single-walled carbon nanotubes, fullerene derivatives, and poly(3-hexylthiophene). <b>2011</b> , 49, 1263-1268		16
129	Carbon Nanotube Alignment via Electrohydrodynamic Patterning of Nanocomposites. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 1895-1901	15.6	15
128	Multifunctional SWCNT-ZnO nanocomposites for enhancing performance and stability of organic solar cells. <b>2011</b> , 23, 519-22		32
127	Photoluminescence quenching in carbon nanotube-polymer/fullerene films: carbon nanotubes as exciton dissociation centres in organic photovoltaics. <b>2011</b> , 23, 3796-800		61
126	Flexible, Light-Weight, Ultrastrong, and Semiconductive Carbon Nanotube Fibers for a Highly Efficient Solar Cell. <b>2011</b> , 123, 1855-1859		27
125	Flexible, light-weight, ultrastrong, and semiconductive carbon nanotube fibers for a highly efficient solar cell. <b>2011</b> , 50, 1815-9		173
124	Fullerene-functionalized carbon nanotubes as improved optical limiting devices. <b>2011</b> , 49, 3998-4003		39
123	Photocatalytic reduction of bromate at C60 modified Bi2MoO6 under visible light irradiation. <b>2011</b> ,		10
122	Influence of surface roughness of aluminum-doped zinc oxide buffer layers on the performance of inverted organic solar cells. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 023102	3-4	34
121	Increasing the efficiency of charge extraction limited poly-(3-hexylthiophene):[6,6] phenyl C61 butyric acid methyl ester solar cells using single walled carbon nanotubes with metallic characteristics. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 124908	2.5	20
120	The incorporation of mono- and bi-functionalized multiwall carbon nanotubes in organic photovoltaic cells. <i>Nanotechnology</i> , <b>2011</b> , 22, 265607	3-4	21
119	INVESTIGATION OF TIME-RATED DEFECT FORMATION, INFRARED ABSORPTION AND TRANSPORT CHARACTERISTICS OF SINGLE-WALLED CARBON NANOTUBES WET-PROCESSED IN PHOSPHORIC ACID. <b>2012</b> , 07, 1250026		0
118	Organic Solar Cells Enhanced by Carbon Nanotubes. <b>2012</b> , 183-198		3

117	Using nitrile functional groups to replace amines for solution-deposited single-walled carbon nanotube network films. <b>2012</b> , 6, 4845-53		13
116	All carbon nanotube fiber electrode-based dye-sensitized photovoltaic wire. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14856		45
115	Treatment of acute thromboembolism in mice using heparin-conjugated carbon nanocapsules. <b>2012</b> , 6, 6099-107		16
114	Effect of carbon nanotube-fullerene hybrid additive on P3HT:PCBM bulk-heterojunction organic photovoltaics. <b>2012</b> , 162, 95-101		38
113	Transport behavior of functionalized multi-wall carbon nanotubes in water-saturated quartz sand as a function of tube length. <b>2012</b> , 46, 4521-31		54
112	Evaluation of solution-processable carbon-based electrodes for all-carbon solar cells. <b>2012</b> , 6, 10384-95		142
111	Carbon nanotubes and organic solar cells. <b>2012</b> , 5, 5919-5940		138
110	Light Energy Conversion at Carbon Nanotubes - Organic and Inorganic Interfaces: Photovoltaics, Photodetectors and Bolometers. <b>2012</b> , 1-68		2
109	Prospects and challenges of organic/group IV nanomaterial solar cells. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 4216		41
108	Efficiency enhancement of organic photovoltaics by addition of carbon nanotubes into both active and hole transport layer. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 093301	3.4	26
107	Recent advances in photoinduced electron transfer processes of fullerene-based molecular assemblies and nanocomposites. <b>2012</b> , 17, 5816-35		101
106	Utilizing photocurrent transients for dithiolene-based photodetection: stepwise improvements at communications relevant wavelengths. <b>2012</b> , 134, 12742-50		41
105	Organic solar cell materials and active layer designs—Improvements with carbon nanotubes: a review. <b>2012</b> , 61, 342-354		60
104	Carbon nanomaterials for advanced energy conversion and storage. <i>Small</i> , <b>2012</b> , 8, 1130-66	11	1149
103	Intertwined aligned carbon nanotube fiber based dye-sensitized solar cells. <i>Nano Letters</i> , <b>2012</b> , 12, 2568-725		231
102	Conjugated polymers - carbon nanotubes-based functional materials for organic photovoltaics: a critical review. <b>2012</b> , 23, 1129-1140		51
101	Towards solution processed all-carbon solar cells: a perspective. <b>2012</b> , 5, 7810		81
100	CNTs in Optoelectronic Devices: New Structural and Photophysical Insights on Porphyrin-DWCNTs Hybrid Materials. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 3209-3222	15.6	26

99	Designing aligned inorganic nanotubes at the electrode interface: towards highly efficient photovoltaic wires. <b>2012</b> , 24, 4623-8		107
98	Carbon Nanotube-Silicon Solar Cells. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 1043-1055	21.8	137
97	Effect of annealing treatment on the performance of organic photovoltaic devices using SPFGraphene as electron-accepter material. <b>2012</b> , 55, 1356-1361		3
96	Electrochemical utilisation of chemical vapour deposition grown carbon nanotubes as sensors. <b>2012</b> , 86, 507-519		16
95	Capacitance-voltage characteristics of P3HT:PCBM bulk heterojunction solar cells with ohmic contacts and the impact of single walled carbon nanotubes on them. <i>Organic Electronics</i> , <b>2012</b> , 13, 1158-1165	3.5	14
94	Low dimensional nanocarbons chemistry and energy/electron transfer reactions. <b>2013</b> , 4, 4335		93
93	Functionalized nanodiamond as a charge transporter in organic solar cells. <b>2013</b> , 91, 204-211		29
92	The structural and electronic properties of (10,0) zigzag Single-Wall Carbon Nanotubes modified by thiophene groups. <i>Chemical Physics Letters</i> , <b>2013</b> , 584, 177-181	2.5	2
91	Low-temperature plasmas in carbon nanostructure synthesis. <b>2013</b> , 31, 050801		60
90	Carbon nanotube solar cells. <b>2013</b> , 241-269		8
89	Conjugated polymer-functionalized graphite oxide sheets thin films for enhanced photovoltaic properties of polymer solar cells. <b>2013</b> , 51, 137-148		21
88	Comparison of nanotube-protein corona composition in cell culture media. <i>Small</i> , <b>2013</b> , 9, 2171-81	11	109
87	Charge transport in polythiophene:fullerene:nanotube bulk heterojunction photovoltaic devices investigated by impedance spectroscopy. <i>Current Applied Physics</i> , <b>2013</b> , 13, 677-683	2.6	14
86	Entropic effects in carbon nanotubes-templated crystallization of Poly(3-alkyl thiophenes, P3HT, P3OT). <i>Polymer</i> , <b>2013</b> , 54, 6399-6405	3.9	28
85	Single-walled carbon nanotube/polyaniline/n-silicon solar cells: fabrication, characterization, and performance measurements. <i>ChemSusChem</i> , <b>2013</b> , 6, 320-7	8.3	32
84	Electronic Properties of Semiconducting Polymer-Functionalized Single Wall Carbon Nanotubes. <i>Macromolecules</i> , <b>2013</b> , 46, 2590-2598	5.5	18
83	Direct observation of hole transfer from semiconducting polymer to carbon nanotubes. <i>Nano Letters</i> , <b>2013</b> , 13, 2086-91	11.5	37
82	Quasi-one-dimensional fullerene-nanotube composites: Structure, formation energetics, and electronic properties. <i>JETP Letters</i> , <b>2013</b> , 97, 113-119	1.2	6

81	The role of N-doped multiwall carbon nanotubes in achieving highly efficient polymer bulk heterojunction solar cells. <i>Nano Letters</i> , <b>2013</b> , 13, 2365-9	11.5	175
80	Chapter 3:Photoelectrical Responses of Carbon NanotubePolymer Composites. <i>RSC Nanoscience and Nanotechnology</i> , <b>2013</b> , 51-71		
79	Electrohydrodynamic Patterning of Functional Materials. <i>Springer Theses</i> , <b>2013</b> ,	0.1	5
78	A C70-carbon nanotube complex for bulk heterojunction photovoltaic cells. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 243108	3.4	12
77	. <b>2013</b> ,		2
76	Carbon Nanotube IR Photothermovoltaic Devices: Power, Fill Factor, and Transient Response. <i>IEEE Electron Device Letters</i> , <b>2013</b> , 34, 924-926	4.4	
75	Improving the electrical properties of polymer solar cells using SWCNT. <b>2014</b> ,		
74	. <b>2014</b> ,		1
73	An improved polymer solar cell incorporating single-wall carbon nanotubes. <i>Journal of Modern Optics</i> , <b>2014</b> , 61, 1761-1766	1.1	2
72	In-depth analysis of solvent effects on bulk heterojunction solar cell performance. <b>2014</b> ,		1
71	Towards optimization of functionalized single-walled carbon nanotubes adhering with poly(3-hexylthiophene) for highly efficient polymer solar cells. <i>Diamond and Related Materials</i> , <b>2014</b> , 41, 79-83	3.5	18
70	Performance enhancement of bulk heterojunction solar cells with direct growth of CdS-cluster-decorated graphene nanosheets. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 6010-8	4.8	11
69	A review on carbon nanotube/polymer composites for organic solar cells. <i>International Journal of Energy Research</i> , <b>2014</b> , 38, 1635-1653	4.5	65
68	Enhanced charge-carrier transport through shorter carbon nanotubes in organic photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 1640-5	9.5	7
67	Effect of carbon nanotube incorporation into polythiophene-fullerene-based organic solar cells. <i>Canadian Journal of Chemistry</i> , <b>2014</b> , 92, 68-75	0.9	2
66	Optimizing P3HT/PCBM/MWCNT films for increased stability in polymer bulk heterojunction solar cells. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2014</b> , 378, 3046-3054	2.3	21
65	Structural and electronic properties of the P3HTPCBM dimer: A theoretical Study. <i>Chemical Physics Letters</i> , <b>2014</b> , 612, 234-239	2.5	14
64	Effect of low concentrations of carbon black in organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2014</b> , 128, 69-76	6.4	5



63	Broad family of carbon nanoallotropes: classification, chemistry, and applications of fullerenes, carbon dots, nanotubes, graphene, nanodiamonds, and combined superstructures. <i>Chemical Reviews</i> , <b>2015</b> , 115, 4744-822	68.1	1137
62	Hybrids of copolymers of fluorene and C60 -carrying-carbazole with semiconducting single-walled carbon nanotubes. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 3359-66	4.8	3
61	Surface Science Tools for Nanomaterials Characterization. <b>2015</b> ,		8
60	Kelvin Probe Force Microscopy in Nanoscience and Nanotechnology. <b>2015</b> , 117-158		3
59	Nonvolatile memories using the electrets of conjugated rod-coil block copolymer and its nanocomposite with single wall carbon nanotubes. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 551-558	7.1	20
58	Fabrication and characterization of semiconducting single-walled carbon nanotube-based bulk hetero junction organic solar cell using spin coating technique. <i>Journal of the Chinese Advanced Materials Society</i> , <b>2015</b> , 3, 161-169		3
57	Functionalized Graphene as an Electron-Cascade Acceptor for Air-Processed Organic Ternary Solar Cells. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 3870-3880	15.6	63
56	Carbon nanomaterials for photovoltaic process. <i>Nano Energy</i> , <b>2015</b> , 15, 490-522	17.1	41
55	Understanding charge transfer in carbon nanotube-fullerene bulk heterojunctions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 7428-35	9.5	20
54	Charge extracting buffer layers in bulk heterojunction organic solar cell. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 9891-9897	2.1	2
53	Improved opto-electrical behavior of ZnO/C 60 core/shell type organic/inorganic heterostructure. <i>Superlattices and Microstructures</i> , <b>2015</b> , 77, 91-100	2.8	4
52	C60 fullerene decoration of carbon nanotubes. <i>Journal of Experimental and Theoretical Physics</i> , <b>2016</b> , 123, 985-990	1	1
51	Semiconducting Carbon Nanotubes for Improved Efficiency and Thermal Stability of Polymer/Fullerene Solar Cells. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 51-65	15.6	49
50	Heterostructures based on graphene and MoS2 layers decorated by C60 fullerenes. <i>Nanotechnology</i> , <b>2016</b> , 27, 365201	3.4	9
49	2D WS2/carbon dot hybrids with enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 13563-13571	13	99
48	Inducing the trap-site in an emitting-layer for an organic upconversion device exhibiting high current-gain ratio and low turn-on voltage. <i>Organic Electronics</i> , <b>2016</b> , 30, 275-280	3.5	13
47	Bucky-corn: van der Waals composite of carbon nanotube coated by fullerenes. <i>Molecular Physics</i> , <b>2016</b> , 114, 92-101	1.7	6
46	Single-step electrospinning of multi walled carbon nanotubes [Poly(3-octylthiophene) hybrid nano-fibers. <i>Polymer</i> , <b>2016</b> , 86, 15-21	3.9	27

45	Excitation quenching in polyfluorene polymers bound to (6,5) single-wall carbon nanotubes. <i>Chemical Physics</i> , <b>2016</b> , 467, 1-5	2.3	5
44	Electronic, Optical, and Mechanical Properties of Diamond Nanowires Encapsulated in Carbon Nanotubes: A First-Principles View. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 3661-3672	3.8	2
43	Synthesis and characterization of Fullerene modified ZnAlTi-LDO in photo-degradation of Bisphenol A under simulated visible light irradiation. <i>Environmental Pollution</i> , <b>2017</b> , 228, 234-244	9.3	28
42	Charge-separation enhancement in inverted polymer solar cells by molecular-level triple heterojunction: NiO-np:P3HT:PCBM. <i>Nanotechnology</i> , <b>2017</b> , 28, 035403	3.4	2
41	Carrier photogeneration, drift and recombination in a semiconducting carbon nanotube network. <i>Nanoscale</i> , <b>2017</b> , 9, 12441-12448	7.7	5
40	First-principles design of nanostructured hybrid photovoltaics based on layered transition metal phosphates. <i>Scientific Reports</i> , <b>2017</b> , 7, 1248	4.9	1
39	Carbon Nanoforms for Photovoltaics: Myth or Reality?. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601102	21.8	34
38	Influence of MWCNT doping on performance of polymer bulk heterojunction based devices. <i>Optik</i> , <b>2018</b> , 160, 131-137	2.5	12
37	Single-Walled Carbon Nanotubes in Solar Cells. <i>Topics in Current Chemistry</i> , <b>2018</b> , 376, 4	7.2	42
36	Hybrid Carbon Nanoparticles in Polymer Matrix for Efficient Connected Networks: Self-Assembly and Continuous Pathways. <i>Macromolecules</i> , <b>2018</b> , 51, 3547-3562	5.5	14
35	Nanodiamond: a multitasking material for cutting edge solar cell application. <i>Materials Research Innovations</i> , <b>2018</b> , 22, 302-314	1.9	16
34	Comparison Studies of Planar and Bulk Hetero Junction Nano Photo Diodes using Carbon Nano Tubes (CNT) and Graphene for Sub-retinal implant. <b>2018</b> ,		2
33	Single- and multi-walled carbon nanotubes for solar cell applications. <i>International Journal of Modern Physics B</i> , <b>2018</b> , 32, 1830007	1.1	4
32	Carbon-based perovskite solar cells: From single-junction to modules. <b>2019</b> , 1, 109-123		33
31	Influence of single-walled carbon nanotubes induced exciton dissociation improvement on hybrid organic photovoltaic devices. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 113101	2.5	5
30	Single-Walled Carbon Nanotubes in Solar Cells. <i>Topics in Current Chemistry Collections</i> , <b>2019</b> , 271-298	1.8	15
29	Single-Walled Carbon Nanotubes. <i>Topics in Current Chemistry Collections</i> , <b>2019</b> ,	1.8	11
28	Aziridine-functionalized graphene: Effect of aromaticity for aryl functional groups on enhanced power conversion efficiency of organic photovoltaic cells. <i>Journal of Saudi Chemical Society</i> , <b>2019</b> , 23, 655-665	4.3	4

27	Electrodeposited ZnO nanoparticles on vertically aligned carbon nanotubes (VACNTs) as promising charge extracting electrodes for halide perovskite devices. <i>Materials Advances</i> , <b>2020</b> , 1, 1232-1240	3.3	1
26	Two-step preparation of carbon nanotubes/RuO <sub>2</sub> /polyindole ternary nanocomposites and their application as high-performance supercapacitors. <i>Frontiers of Materials Science</i> , <b>2020</b> , 14, 109-119	2.5	7
25	Electronic and Ionic Electric Field Screening and Persistent Built-In Electric Field in Carbon Nanotube/PCBM Films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2020</b> , 217, 1900673	1.6	
24	State-of-the-art developments in carbon-based metal nanocomposites as a catalyst: photocatalysis. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 1887-1900	5.1	14
23	Bioinspired solar cells: contribution of biology to light harvesting systems. <b>2021</b> , 593-632		0
22	Mechanical properties of MoS <sub>2</sub> nanotubes under tension: a molecular dynamics study. <i>Molecular Simulation</i> , <b>2021</b> , 47, 471-479	2	2
21	Boosting Selectivity and Sensitivity to Biomarkers of Quantum Resistive Vapour Sensors Used for Volatolomics with Nanoarchitected Carbon Nanotubes or Graphene Platelets Connected by Fullerene Junctions. <i>Chemosensors</i> , <b>2021</b> , 9, 66	4	2
20	The Influence of Reaction Time on Non-Covalent Functionalisation of P3HT/MWCNT Nanocomposites. <i>Polymers</i> , <b>2021</b> , 13,	4.5	6
19	A review on supramolecules/nanocomposites based on carbonic precursors and dielectric/conductive polymers and their applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2021</b> , 269, 115181	3.1	2
18	CO <sub>2</sub> /CH <sub>4</sub> separation properties of PES mixed matrix membranes containing Fullerene-MWCNTs hybrids. <i>Separation and Purification Technology</i> , <b>2021</b> , 277, 119636	8.3	2
17	Topochemistry of Spatially Extended sp <sup>2</sup> Nanocarbons: Fullerenes, Nanotubes, and Graphene. <i>Carbon Materials</i> , <b>2013</b> , 137-197		4
16	Electrical and Electronic Application of Polymer-Carbon Composites. <i>Springer Series on Polymer and Composite Materials</i> , <b>2019</b> , 397-455	0.9	5
15	Biosafety of non-surface modified carbon nanocapsules as a potential alternative to carbon nanotubes for drug delivery purposes. <i>PLoS ONE</i> , <b>2012</b> , 7, e32893	3.7	19
14	Carbon nanomaterials in organic photovoltaic cells. <i>Carbon Letters</i> , <b>2011</b> , 12, 194-206	2.3	6
13	Alignment of Carbon Nanotubes via EHD-Driven Patterning of Nanocomposites. <i>Springer Theses</i> , <b>2013</b> , 63-78	0.1	
12	Carbon Nanotubes for Photovoltaics. <i>Advances in Chemical and Materials Engineering Book Series</i> , <b>2014</b> , 268-311	0.2	
11	Zastosowania nanorurek węglowych. <b>2014</b> ,		
10	High-Performance Polymer Solar Cells Containing Carbon Nanomaterials. 163-189		

9	CHAPTER 3: Properties and Applications of Carbon Nanotubes. <i>RSC Nanoscience and Nanotechnology</i> , <b>2021</b> , 164-239		
8	Carbon Nanotubes for Solar Cells and Photovoltaics. <b>2021</b> , 1-31		
7	Nanomaterials physics: A critical review. <b>2022</b> , 207-216		
6	Interfacial engineering of carbon-based materials for efficient electrocatalysis: Recent advances and future. <i>EnergyChem</i> , <b>2022</b> , 100074	36.9	3
5	A review of textile dye-sensitized solar cells for wearable electronics. <i>Ionics</i> , 1	2.7	4
4	Review Heteroatom-Doped High Porous Carbon Metal Free Nanomaterials for Energy Storage and Conversion. <b>2022</b> , 11, 091006		○
3	Carbon Nanotubes for Solar Cells and Photovoltaics. <b>2022</b> , 1419-1449		○
2	Design Optimization and Characterization with Fabrication of Nanomaterials-Based Photo Diode Cell for Subretinal Implant Application. <b>2023</b> , 13, 934		○
1	Introduction to advanced electronic materials for clean energy applications. <b>2023</b> , 3-26		○