

# Satish Kumar

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

208  
papers

11,290  
citations

54  
h-index

101  
g-index

213  
ext. papers

12,305  
ext. citations

6  
avg, IF

6.46  
L-index

#	Paper	IF	Citations
208	Porous carbon fibers from gel-spun polyacrylonitrile and poly(methyl methacrylate)-block-poly(acrylonitrile). <i>Carbon</i> , <b>2022</b> , 192, 332-346	10.4	1
207	Cure Behavior Changes and Compression of Carbon Nanotubes in Aerospace Grade Bismaleimide-Carbon Nanotube Sheet Nanocomposites. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 2476-2485	5.6	3
206	Investigating the efficacy of machine learning tools in modeling the continuous stabilization and carbonization process and predicting carbon fiber properties. <i>Carbon</i> , <b>2021</b> , 174, 605-616	10.4	3
205	Continuous stabilization of polyacrylonitrile (PAN) - carbon nanotube (CNT) fibers by Joule heating. <i>Chemical Engineering Science</i> , <b>2021</b> , 236, 116495	4.4	1
204	Stabilization of polyacrylonitrile fibers with carbon nanotubes. <i>Polymer Degradation and Stability</i> , <b>2021</b> , 188, 109567	4.7	1
203	Multichannel hollow carbon fibers: Processing, structure, and properties. <i>Carbon</i> , <b>2021</b> , 174, 730-740	10.4	7
202	Towards designing strong porous carbon fibers through gel spinning of polymer blends. <i>Carbon</i> , <b>2021</b> , 173, 724-735	10.4	5
201	Rheological behavior and fiber spinning of polyacrylonitrile (PAN)/Carbon nanotube (CNT) dispersions at high CNT loading. <i>Polymer</i> , <b>2021</b> , 215, 123369	3.9	4
200	Interaction of Poly(methyl acrylate) with Carbon Nanotubes as a Function of CNT Diameter, Chirality, and Temperature. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 25632-25644	3.8	0
199	Learning from Nature: Molecular Rearrangement in the Bismaleimide System Leading to Dramatic Increase in Impact Strength. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 758-767	4.3	2
198	Crosslinking Studies in Rigid and Semi-Rigid Polymers <b>2020</b> , 181-197		
197	Processing, structure and properties of polyacrylonitrile fibers with 15 weight percent single wall carbon nanotubes. <i>Polymer</i> , <b>2020</b> , 211, 123065	3.9	4
196	Structure, properties, and applications of polyacrylonitrile/carbon nanotube (CNT) fibers at low CNT loading. <i>Polymer Engineering and Science</i> , <b>2020</b> , 60, 2143-2151	2.3	5
195	PAN precursor fabrication, applications and thermal stabilization process in carbon fiber production: Experimental and mathematical modelling. <i>Progress in Materials Science</i> , <b>2020</b> , 107, 100575	42.2	88
194	Engineering the Interphase of Single Wall Carbon Nanotubes/Polyacrylonitrile Nanocomposite Fibers with Poly(methyl methacrylate) and Its Effect on Filler Dispersion, FillerMatrix Interactions, and Tensile Properties. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 4178-4186	5.6	4
193	Determining the Orientation and Interfacial Stress Transfer of Boron Nitride Nanotube Composite Fibers for Reinforced Polymeric Materials. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 6670-6676	5.6	6
192	Carbon fibers from polyacrylonitrile/cellulose nanocrystal nanocomposite fibers. <i>Carbon</i> , <b>2019</b> , 145, 764-771	10.4	23

191	Effect of interfacial chemistry on crystallization of polypropylene/multiwall carbon nanotube nanocomposites. <i>Polymer Engineering and Science</i> , <b>2019</b> , 59, 1570-1584	2.3	5
190	High-Performance Electrodes for a Hybrid Supercapacitor Derived from a MetalOrganic Framework/Graphene Composite. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 5029-5038	6.1	24
189	Polyacrylonitrile/boron nitride nanotubes composite precursor and carbon fibers. <i>Carbon</i> , <b>2019</b> , 147, 419-426	10.4	12
188	Stabilization Study of Polyacrylonitrile/Cellulose Nanocrystals Composite Fibers. <i>ACS Applied Polymer Materials</i> , <b>2019</b> , 1, 1015-1021	4.3	10
187	Polyacrylonitrile sheath and polyacrylonitrile/lignin core bi-component carbon fibers. <i>Carbon</i> , <b>2019</b> , 149, 165-172	10.4	17
186	Rheological behavior of polypropylene nanocomposites with tailored polymer/multiwall carbon nanotubes interface. <i>Polymer Engineering and Science</i> , <b>2019</b> , 59, 1763-1777	2.3	7
185	Microwave dielectric properties and Targeted heating of polypropylene nano-composites containing carbon nanotubes and carbon black. <i>Polymer</i> , <b>2019</b> , 179, 121658	3.9	6
184	Polyacrylonitrile Interactions with Carbon Nanotubes in Solution: Conformations and Binding as a Function of Solvent, Temperature, and Concentration. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1905247 <sup>15.6</sup>	15.6	12
183	High Interfacial Shear Strain in PolyureaCarbon Nanotube Composite Sheets. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 6849-6857	5.6	4
182	Correlation between inhomogeneity in polyacrylonitrile spinning dopes and carbon fiber tensile strength. <i>Polymer Engineering and Science</i> , <b>2019</b> , 59, 478-482	2.3	3
181	Molecular engineering of interphases in polymer/carbon nanotube composites to reach the limits of mechanical performance. <i>Composites Science and Technology</i> , <b>2018</b> , 166, 86-94	8.6	39
180	Carbon Fibers: Origin and Control of Polyacrylonitrile Alignments on Carbon Nanotubes and Graphene Nanoribbons (Adv. Funct. Mater. 15/2018). <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1870099 <sup>15.6</sup>	15.6	1
179	Origin and Control of Polyacrylonitrile Alignments on Carbon Nanotubes and Graphene Nanoribbons. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706970	15.6	15
178	Cellulose nanocrystals effect on the stabilization of polyacrylonitrile composite films. <i>Carbon</i> , <b>2018</b> , 134, 92-102	10.4	13
177	Post-sulfonation of cellulose nanofibrils with a one-step reaction to improve dispersibility. <i>Carbohydrate Polymers</i> , <b>2018</b> , 181, 247-255	10.3	32
176	Fracture mechanism of high impact strength polypropylene containing carbon nanotubes. <i>Polymer</i> , <b>2018</b> , 151, 287-298	3.9	17
175	Structure and rheological behavior of polypropylene interphase at high carbon nanotube concentration. <i>Polymer</i> , <b>2018</b> , 150, 10-25	3.9	28
174	Nanoscale Structure-Property Relationships of Polyacrylonitrile/CNT Composites as a Function of Polymer Crystallinity and CNT Diameter. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 1017-1027	9.5	28

173	Effect of high-shear mixing by twin-screw extruder on the dispersion and homogeneity of polyacrylonitrile/carbon nanotube composite solution. <i>Polymer Composites</i> , <b>2017</b> , 38, 719-726	3	6
172	Orientation and interfacial stress transfer of cellulose nanocrystal nanocomposite fibers. <i>Polymer</i> , <b>2017</b> , 110, 228-234	3.9	27
171	Rheological behavior of polyacrylonitrile and polyacrylonitrile/lignin blends. <i>Polymer</i> , <b>2017</b> , 111, 177-182	3.9	25
170	Influence of high loading of cellulose nanocrystals in polyacrylonitrile composite films. <i>Cellulose</i> , <b>2017</b> , 24, 1745-1758	5.5	19
169	Structural and Functional Fibers. <i>Annual Review of Materials Research</i> , <b>2017</b> , 47, 331-359	12.8	46
168	Reinforcement efficiency of carbon nanotubes and their effect on crystal-crystal slip in poly(ether ketone)/carbon nanotube composite fibers. <i>Composites Science and Technology</i> , <b>2017</b> , 147, 116-125	8.6	11
167	Carbon Nanotube Dispersion in Solvents and Polymer Solutions: Mechanisms, Assembly, and Preferences. <i>ACS Nano</i> , <b>2017</b> , 11, 12805-12816	16.7	91
166	Ductile polyacrylonitrile fibers with high cellulose nanocrystals loading. <i>Polymer</i> , <b>2017</b> , 122, 332-339	3.9	18
165	Stress transfer in nanocomposites enabled by poly(methyl methacrylate) wrapping of carbon nanotubes. <i>Polymer</i> , <b>2017</b> , 130, 191-198	3.9	13
164	High impact strength polypropylene containing carbon nanotubes. <i>Polymer</i> , <b>2016</b> , 100, 259-274	3.9	37
163	High Surface Area Electrodes Derived from Polymer Wrapped Carbon Nanotubes for Enhanced Energy Storage Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 24918-23	9.5	6
162	High surface area carbon from polyacrylonitrile for high-performance electrochemical capacitive energy storage. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 18294-18299	13	20
161	Hydrothermally Oxidized Single-Walled Carbon Nanotube Networks for High Volumetric Electrochemical Energy Storage. <i>Small</i> , <b>2016</b> , 12, 3423-31	11	14
160	Revival of nitrogen-containing bisphosphonate-induced inhibition of osteoclastogenesis and osteoclast function by water-soluble microfibrinous borate glass. <i>Acta Biomaterialia</i> , <b>2016</b> , 31, 312-325	10.8	14
159	A mechanistic study of the interaction of water-soluble borate glass with apatite-bound heterocyclic nitrogen-containing bisphosphonates. <i>Acta Biomaterialia</i> , <b>2016</b> , 31, 339-347	10.8	5
158	Stabilization kinetics of gel spun polyacrylonitrile/lignin blend fiber. <i>Carbon</i> , <b>2016</b> , 101, 382-389	10.4	57
157	Individually Dispersed Wood-Based Cellulose Nanocrystals. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 5768-71	9.5	31
156	Polyacrylonitrile solution homogeneity study by dynamic shear rheology and the effect on the carbon fiber tensile strength. <i>Polymer Engineering and Science</i> , <b>2016</b> , 56, 361-370	2.3	19

155	Investigation of phonon transport and thermal boundary conductance at the interface of functionalized SWCNT and poly (ether-ketone). <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 095102	2.5	10
154	A comparative guide to controlled hydrophobization of cellulose nanocrystals via surface esterification. <i>Cellulose</i> , <b>2016</b> , 23, 1825-1846	5.5	41
153	Polypropylene nanocomposites with polymer coated multiwall carbon nanotubes. <i>Polymer</i> , <b>2016</b> , 100, 244-258	3.9	42
152	Development of single filament testing procedure for polyacrylonitrile precursor and polyacrylonitrile-based carbon fibers. <i>Journal of Composite Materials</i> , <b>2015</b> , 49, 2231-2240	2.7	18
151	Ordered wrapping of poly(methyl methacrylate) on single wall carbon nanotubes. <i>Polymer</i> , <b>2015</b> , 70, 278-281	3.9	24
150	Preparation of low density hollow carbon fibers by bi-component gel-spinning method. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 3614-3621	4.3	15
149	Processing, Structure, and Properties of Lignin- and CNT-Incorporated Polyacrylonitrile-Based Carbon Fibers. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 1943-1954	8.3	104
148	Low-density and high-modulus carbon fibers from polyacrylonitrile with honeycomb structure. <i>Carbon</i> , <b>2015</b> , 95, 710-714	10.4	35
147	The simultaneous addition of styrene maleic anhydride copolymer and multiwall carbon nanotubes during melt-mixing on the morphology of binary blends of polyamide6 and acrylonitrile butadiene styrene copolymer. <i>Polymer Engineering and Science</i> , <b>2015</b> , 55, 457-465	2.3	12
146	Effect of processing conditions on the dispersion of carbon nanotubes in polyacrylonitrile solutions. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	3
145	Processing, structure, and properties of gel spun PAN and PAN/CNT fibers and gel spun PAN based carbon fibers. <i>Polymer Engineering and Science</i> , <b>2015</b> , 55, 2603-2614	2.3	38
144	Investigation of polyacrylonitrile solution inhomogeneity by dynamic light scattering. <i>Polymer Engineering and Science</i> , <b>2015</b> , 55, 1403-1407	2.3	4
143	Gel Spinning of Polyacrylonitrile/Cellulose Nanocrystal Composite Fibers. <i>ACS Biomaterials Science and Engineering</i> , <b>2015</b> , 1, 610-616	5.5	41
142	High strength and high modulus carbon fibers. <i>Carbon</i> , <b>2015</b> , 93, 81-87	10.4	135
141	High resolution transmission electron microscopy study on polyacrylonitrile/carbon nanotube based carbon fibers and the effect of structure development on the thermal and electrical conductivities. <i>Carbon</i> , <b>2015</b> , 93, 502-514	10.4	70
140	Polyacrylonitrile fibers containing graphene oxide nanoribbons. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 5281-8	9.5	35
139	Microfibrous borate bioactive glass dressing sequesters bone-bound bisphosphonate in the presence of simulated body fluid. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 959-963	7.3	5
138	Effect of carbon nanotubes on sintering behavior of alumina prepared by sol-gel method. <i>Ceramics International</i> , <b>2014</b> , 40, 6579-6587	5.1	12

137	Polymer/carbon nanotube nano composite fibers--a review. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 6069-87	9.5	390
136	High-strength superparamagnetic composite fibers. <i>Polymer</i> , <b>2014</b> , 55, 4116-4124	3.9	13
135	Stress transfer in polyacrylonitrile/carbon nanotube composite fibers. <i>Polymer</i> , <b>2014</b> , 55, 2734-2743	3.9	47
134	Preparation of porous carbon nanofibers derived from graphene oxide/polyacrylonitrile composites as electrochemical electrode materials. <i>Carbon</i> , <b>2014</b> , 70, 308-312	10.4	22
133	High strength micron size carbon fibers from polyacrylonitrile-carbon nanotube precursors. <i>Carbon</i> , <b>2014</b> , 77, 442-453	10.4	45
132	Viscoelastic properties and structure of poly(acrylonitrile-co-methacrylic acid) polymer solutions for gel spinning at long aging times. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	4
131	Development of a gel spinning process for high-strength poly(ethylene oxide) fibers. <i>Polymer Engineering and Science</i> , <b>2014</b> , 54, 2839-2847	2.3	11
130	Electrical conductivity and Joule heating of polyacrylonitrile/carbon nanotube composite fibers. <i>Polymer</i> , <b>2014</b> , 55, 6896-6905	3.9	54
129	Functional polymer-polymer/carbon nanotube bi-component fibers. <i>Polymer</i> , <b>2013</b> , 54, 6210-6217	3.9	26
128	Polyacrylonitrile/carbon nanofiber nanocomposite fibers. <i>Composites Science and Technology</i> , <b>2013</b> , 88, 134-141	8.6	15
127	Temperature dependent tensile behavior of gel-spun polyacrylonitrile and polyacrylonitrile/carbon nanotube composite fibers. <i>Polymer</i> , <b>2013</b> , 54, 4003-4009	3.9	23
126	Double-sided tin nanowire arrays for advanced thermal interface materials. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 093105	3.4	15
125	Graphene nanoribbons as an advanced precursor for making carbon fiber. <i>ACS Nano</i> , <b>2013</b> , 7, 1628-37	16.7	104
124	Written-in conductive patterns on robust graphene oxide biopaper by electrochemical microstamping. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 13784-8	16.4	116
123	Written-in Conductive Patterns on Robust Graphene Oxide Biopaper by Electrochemical Microstamping. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 14029-14033	3.6	14
122	Preparation and Characterization of porous Carbon/Nickel Nanofibers for Supercapacitor. <i>Journal of Engineered Fibers and Fabrics</i> , <b>2013</b> , 8, 155892501300800	0.9	2
121	Polyethylene crystallization nucleated by carbon nanotubes under shear. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 326-30	9.5	56
120	Chemistry of Carbon Nanotubes for Everyone. <i>Journal of Chemical Education</i> , <b>2012</b> , 89, 221-229	2.4	32

119	Probe diffusion of single-walled carbon nanotubes in semidilute solutions of polyacrylonitrile homo- and copolymers: Effects of topological constraints and polymer/Nanorod interactions. <i>Polymer</i> , <b>2012</b> , 53, 5069-5077	3.9	7
118	High Charge Carrier Mobility, Low Band Gap Donor-Acceptor Benzothiadiazole-oligothiophene Based Polymeric Semiconductors. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 4123-4133	9.6	69
117	Recent Progress in Fabrication, Structure, and Properties of Carbon Fibers. <i>Polymer Reviews</i> , <b>2012</b> , 52, 234-258	14	250
116	Influence of SWNTs on the Preferential Alignment of Molecular Moieties in PVA Fibers. <i>Macromolecular Chemistry and Physics</i> , <b>2012</b> , 213, 617-626	2.6	12
115	Structure-property relationship studies in amine functionalized multiwall carbon nanotubes filled polypropylene composite fiber. <i>Polymer Engineering and Science</i> , <b>2012</b> , 52, 1183-1194	2.3	28
114	Note: Thermal conductivity measurement of individual poly(ether ketone)/carbon nanotube fibers using a steady-state dc thermal bridge method. <i>Review of Scientific Instruments</i> , <b>2012</b> , 83, 016103	1.7	26
113	Highly conducting and flexible few-walled carbon nanotube thin film. <i>ACS Nano</i> , <b>2011</b> , 5, 2324-31	16.7	51
112	Lysozyme coated DNA and DNA/SWNT fibers by solution spinning. <i>Macromolecular Bioscience</i> , <b>2011</b> , 11, 875-81	5.5	9
111	Gel-spun carbon nanotubes/polyacrylonitrile composite fibers. Part II: Stabilization reaction kinetics and effect of gas environment. <i>Carbon</i> , <b>2011</b> , 49, 4477-4486	10.4	61
110	Gel-spun carbon nanotubes/polyacrylonitrile composite fibers. Part I: Effect of carbon nanotubes on stabilization. <i>Carbon</i> , <b>2011</b> , 49, 4466-4476	10.4	83
109	Gel-spun carbon nanotubes/polyacrylonitrile composite fibers. Part III: Effect of stabilization conditions on carbon fiber properties. <i>Carbon</i> , <b>2011</b> , 49, 4487-4496	10.4	52
108	Nanocomposites of carbon nanotube fibers prepared by polymer crystallization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 1642-7	9.5	77
107	Sponge Behaviors of Functionalized Few-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 14868-14875	3.8	6
106	Polyacrylonitrile/carbon nanotube composite films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 1331-42	9.3	44
105	Pore size control and electrochemical capacitor behavior of chemically activated polyacrylonitrile $\square$ Carbon nanotube composite films. <i>Composites Science and Technology</i> , <b>2010</b> , 70, 593-598	8.6	23
104	Processing, Structure, and Properties of PAN/MWNT Composite Fibers. <i>Macromolecular Materials and Engineering</i> , <b>2010</b> , 295, 742-749	3.9	36
103	Observations on Solution Crystallization of Poly(vinyl alcohol) in the Presence of Single-Wall Carbon Nanotubes. <i>Macromolecular Rapid Communications</i> , <b>2010</b> , 31, 310-6	4.8	26
102	Processing, structure and properties of poly(ether ketone) grafted few wall carbon nanotube composite fibers. <i>Polymer</i> , <b>2010</b> , 51, 3940-3947	3.9	21



101	Interfacial Crystallization in Gel-Spun Poly(vinyl alcohol)/Single-Wall Carbon Nanotube Composite Fibers. <i>Macromolecular Chemistry and Physics</i> , <b>2009</b> , 210, 1799-1808	2.6	84
100	Polymer-Infiltrated Aligned Carbon Nanotube Fibers by in situ Polymerization. <i>Macromolecular Rapid Communications</i> , <b>2009</b> , 30, 1936-9	4.8	20
99	Processing and properties of carbon nanotube/poly(methyl methacrylate) composite films. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 112, 142-156	2.9	41
98	Carbon nanotube reinforced small diameter polyacrylonitrile based carbon fiber. <i>Composites Science and Technology</i> , <b>2009</b> , 69, 406-413	8.6	122
97	Small-angle X-ray scattering investigation of carbon nanotube-reinforced polyacrylonitrile fibers during deformation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2009</b> , 47, 2394-2409	2.6	17
96	Solution spinning of cellulose carbon nanotube composites using room temperature ionic liquids. <i>Polymer</i> , <b>2009</b> , 50, 4577-4583	3.9	102
95	Materials science. Making strong fibers. <i>Science</i> , <b>2008</b> , 319, 908-9	33.3	225
94	Polymer transcrystallinity induced by carbon nanotubes. <i>Polymer</i> , <b>2008</b> , 49, 1356-1364	3.9	180
93	Polyacrylonitrile/vapor grown carbon nanofiber composite films. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 4363-4369	4.3	17
92	Solid-state spun fibers and yarns from 1-mm long carbon nanotube forests synthesized by water-assisted chemical vapor deposition. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 4356-4362	4.3	85
91	Carbon nanotubes as liquid crystals. <i>Small</i> , <b>2008</b> , 4, 1270-83	11	116
90	A Liquid Crystalline Elastomer with a p-Pentaphenyl Transverse Rod Laterally Attached to the Main Chain. <i>Macromolecular Chemistry and Physics</i> , <b>2008</b> , 209, 272-278	2.6	11
89	Electrospun Micro- and Nanostructured Polymer Particles. <i>Macromolecular Chemistry and Physics</i> , <b>2008</b> , 209, 2390-2398	2.6	22
88	Shaping Polymer Particles by Carbon Nanotubes. <i>Macromolecular Rapid Communications</i> , <b>2008</b> , 29, 557-568	4.8	17
87	Carbon nanotube dispersion and exfoliation in polypropylene and structure and properties of the resulting composites. <i>Polymer</i> , <b>2008</b> , 49, 1831-1840	3.9	130
86	Structural changes during deformation in carbon nanotube-reinforced polyacrylonitrile fibers. <i>Polymer</i> , <b>2008</b> , 49, 2133-2145	3.9	29
85	Structure and electrochemical properties of activated polyacrylonitrile based carbon fibers containing carbon nanotubes. <i>Journal of Power Sources</i> , <b>2008</b> , 185, 676-684	8.9	32
84	The role of aligned polymer fiber-based constructs in the bridging of long peripheral nerve gaps. <i>Biomaterials</i> , <b>2008</b> , 29, 3117-27	15.6	348



83	Oxidative stabilization of polyacrylonitrile in the presence of functionalized carbon nanotubes. <i>Carbon</i> , <b>2007</b> , 45, 1114-1116	10.4	18
82	Structure and dynamic mechanical properties of poly(ethylene terephthalate-co-4,4'-biphenylene terephthalate) fibers. <i>Polymer</i> , <b>2007</b> , 48, 1651-1658	3.9	8
81	Stabilization and carbonization of gel spun polyacrylonitrile/single wall carbon nanotube composite fibers. <i>Polymer</i> , <b>2007</b> , 48, 3781-3789	3.9	181
80	Carbon Fibers <b>2007</b> ,		3
79	Experimental and Theoretical Investigations of Porous Structure Formation in Electrospun Fibers. <i>Macromolecules</i> , <b>2007</b> , 40, 7689-7694	5.5	158
78	Polymer nanotube nanocomposites: Correlating intermolecular interaction to ultimate properties. <i>Polymer</i> , <b>2006</b> , 47, 4734-4741	3.9	46
77	Synthesis of copolyamides containing octadecanedioic acid: An investigation of nylon 6/6,18 in various ratios. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 99, 2062-2067	2.9	8
76	Rigid-rod polymeric fibers. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 100, 791-802	2.9	256
75	Electrospinning of polyacrylonitrile nanofibers. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 102, 1023-1029	2.9	152
74	Carbon nanotube-enabled materials <b>2006</b> , 213-274		10
73	Oriented and exfoliated single wall carbon nanotubes in polyacrylonitrile. <i>Polymer</i> , <b>2006</b> , 47, 3494-3504	3.9	185
72	Single wall carbon nanotube templated oriented crystallization of poly(vinyl alcohol). <i>Polymer</i> , <b>2006</b> , 47, 3705-3710	3.9	181
71	PAN/SAN/SWNT ternary composite: Pore size control and electrochemical supercapacitor behavior. <i>Polymer</i> , <b>2006</b> , 47, 5831-5837	3.9	31
70	Morphology and modulus of vapor grown carbon nano fibers. <i>Journal of Materials Science</i> , <b>2006</b> , 41, 5851-5856	4.5	52
69	Functionalized Single Wall Carbon Nanotubes Treated with Pyrrole for Electrochemical Supercapacitor Membranes. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 1997-2002	9.6	167
68	Structural changes in trisilanol POSS during nanocomposite melt processing. <i>Composite Interfaces</i> , <b>2005</b> , 11, 673-685	2.3	19
67	Dispersion of nitric acid-treated SWNTs in organic solvents and solvent mixtures. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 17128-33	3.4	52
66	Microscopic polymer cups by electrospinning. <i>Polymer</i> , <b>2005</b> , 46, 3211-3214	3.9	60

65	Structure and properties of polyacrylonitrile/single wall carbon nanotube composite films. <i>Polymer</i> , <b>2005</b> , 46, 3001-3005	3.9	101
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58	The processing, properties, and structure of carbon fibers. <i>Jom</i> , <b>2005</b> , 57, 52-58	2.1	232
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46	Solution spinning and characterization of poly(vinyl alcohol)/soybean protein blend fibers. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 90, 716-721	2.9	47
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44	Quantitative characterization of SWNT orientation by polarized Raman spectroscopy. <i>Chemical Physics Letters</i> , <b>2003</b> , 378, 257-262	2.5	92
43	Crystallization and orientation studies in polypropylene/single wall carbon nanotube composite. <i>Polymer</i> , <b>2003</b> , 44, 2373-2377	3.9	638
42	Microstructure analysis of high performance fibers in compression. <i>Polymer Engineering and Science</i> , <b>2003</b> , 43, 684-692	2.3	3
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40	Single-Wall Carbon Nanotube Films. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 175-178	9.6	235
39	Poly(vinyl alcohol)/SWNT Composite Film. <i>Nano Letters</i> , <b>2003</b> , 3, 1285-1288	11.5	421
38	Fibers from polypropylene/nano carbon fiber composites. <i>Polymer</i> , <b>2002</b> , 43, 1701-1703	3.9	310
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