

Satish Kumar

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4030934/satish-kumar-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Crystallization and orientation studies in polypropylene/single wall carbon nanotube composite. <i>Polymer</i> , 2003 , 44, 2373-2377	3.9	638
207	Poly(vinyl alcohol)/SWNT Composite Film. <i>Nano Letters</i> , 2003 , 3, 1285-1288	11.5	421
206	Synthesis, Structure, and Properties of PBO/SWNT Composites. <i>Macromolecules</i> , 2002 , 35, 9039-9043	5.5	415
205	Polymer/carbon nanotube nano composite fibers--a review. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6069-87	9.5	390
204	The role of aligned polymer fiber-based constructs in the bridging of long peripheral nerve gaps. <i>Biomaterials</i> , 2008 , 29, 3117-27	15.6	348
203	Fibers from polypropylene/nano carbon fiber composites. <i>Polymer</i> , 2002 , 43, 1701-1703	3.9	310
202	Rigid-rod polymeric fibers. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 791-802	2.9	256
201	Recent Progress in Fabrication, Structure, and Properties of Carbon Fibers. <i>Polymer Reviews</i> , 2012 , 52, 234-258	14	250
200	Single-Wall Carbon Nanotube Films. <i>Chemistry of Materials</i> , 2003 , 15, 175-178	9.6	235
199	The processing, properties, and structure of carbon fibers. <i>Jom</i> , 2005 , 57, 52-58	2.1	232
198	Materials science. Making strong fibers. <i>Science</i> , 2008 , 319, 908-9	33.3	225
197	Properties and Structure of Nitric Acid Oxidized Single Wall Carbon Nanotube Films. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 16435-16440	3.4	224
196	A comparison of reinforcement efficiency of various types of carbon nanotubes in polyacrylonitrile fiber. <i>Polymer</i> , 2005 , 46, 10925-10935	3.9	221
195	Oriented and exfoliated single wall carbon nanotubes in polyacrylonitrile. <i>Polymer</i> , 2006 , 47, 3494-3504	3.9	185
194	Stabilization and carbonization of gel spun polyacrylonitrile/single wall carbon nanotube composite fibers. <i>Polymer</i> , 2007 , 48, 3781-3789	3.9	181
193	Single wall carbon nanotube templated oriented crystallization of poly(vinyl alcohol). <i>Polymer</i> , 2006 , 47, 3705-3710	3.9	181
192	Polymer transcrystallinity induced by carbon nanotubes. <i>Polymer</i> , 2008 , 49, 1356-1364	3.9	180

191	Functionalized Single Wall Carbon Nanotubes Treated with Pyrrole for Electrochemical Supercapacitor Membranes. <i>Chemistry of Materials</i> , 2005 , 17, 1997-2002	9.6	167
190	Experimental and Theoretical Investigations of Porous Structure Formation in Electrospun Fibers. <i>Macromolecules</i> , 2007 , 40, 7689-7694	5.5	158
189	Electrospinning of polyacrylonitrile nanofibers. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 1023-1029	9.9	152
188	Processing and properties of poly(methyl methacrylate)/carbon nano fiber composites. <i>Composites Part B: Engineering</i> , 2004 , 35, 173-178	10	145
187	Rigid-Rod Polymers: Synthesis, Processing, Simulation, Structure, and Properties. <i>Macromolecular Materials and Engineering</i> , 2003 , 288, 823-843	3.9	142
186	High strength and high modulus carbon fibers. <i>Carbon</i> , 2015 , 93, 81-87	10.4	135
185	Gel spinning of PVA/SWNT composite fiber. <i>Polymer</i> , 2004 , 45, 8801-8807	3.9	135
184	Melt processing of SWCNT-polyimide nanocomposite fibers. <i>Composites Part B: Engineering</i> , 2004 , 35, 439-446	10	135
183	Carbon nanotube dispersion and exfoliation in polypropylene and structure and properties of the resulting composites. <i>Polymer</i> , 2008 , 49, 1831-1840	3.9	130
182	Carbon nanotube reinforced small diameter polyacrylonitrile based carbon fiber. <i>Composites Science and Technology</i> , 2009 , 69, 406-413	8.6	122
181	Written-in conductive patterns on robust graphene oxide biopaper by electrochemical microstamping. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 13784-8	16.4	116
180	Carbon nanotubes as liquid crystals. <i>Small</i> , 2008 , 4, 1270-83	11	116
179	Compressive behavior of materials: Part II. High performance fibers. <i>Journal of Materials Research</i> , 1995 , 10, 1044-1061	2.5	106
178	Processing, Structure, and Properties of Lignin- and CNT-Incorporated Polyacrylonitrile-Based Carbon Fibers. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 1943-1954	8.3	104
177	Graphene nanoribbons as an advanced precursor for making carbon fiber. <i>ACS Nano</i> , 2013 , 7, 1628-37	16.7	104
176	Solution spinning of cellulose carbon nanotube composites using room temperature ionic liquids. <i>Polymer</i> , 2009 , 50, 4577-4583	3.9	102
175	Structure and properties of polyacrylonitrile/single wall carbon nanotube composite films. <i>Polymer</i> , 2005 , 46, 3001-3005	3.9	101
174	Quantitative characterization of SWNT orientation by polarized Raman spectroscopy. <i>Chemical Physics Letters</i> , 2003 , 378, 257-262	2.5	92

173	Effect of Orientation on the Modulus of SWNT Films and Fibers. <i>Nano Letters</i> , 2003 , 3, 647-650	11.5	92
172	Carbon Nanotube Dispersion in Solvents and Polymer Solutions: Mechanisms, Assembly, and Preferences. <i>ACS Nano</i> , 2017 , 11, 12805-12816	16.7	91
171	Crystallization and morphology of poly(aryl-ether-ether-ketone). <i>Polymer</i> , 1986 , 27, 329-336	3.9	90
170	PAN precursor fabrication, applications and thermal stabilization process in carbon fiber production: Experimental and mathematical modelling. <i>Progress in Materials Science</i> , 2020 , 107, 100575	42.2	88
169	Single wall carbon nanotube dispersion and exfoliation in polymers. <i>Journal of Applied Polymer Science</i> , 2005 , 98, 985-989	2.9	86
168	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> , 2008 , 43, 4356-4362	4.3	85
167	Interfacial Crystallization in Gel-Spun Poly(vinyl alcohol)/Single-Wall Carbon Nanotube Composite Fibers. <i>Macromolecular Chemistry and Physics</i> , 2009 , 210, 1799-1808	2.6	84
166	Gel-spun carbon nanotubes/polyacrylonitrile composite fibers. Part I: Effect of carbon nanotubes on stabilization. <i>Carbon</i> , 2011 , 49, 4466-4476	10.4	83
165	Nanocomposites of carbon nanotube fibers prepared by polymer crystallization. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1642-7	9.5	77
164	Electron beam damage in high temperature polymers. <i>Polymer</i> , 1990 , 31, 15-19	3.9	74
163	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> , 2015 , 93, 502-514	10.4	70
162	SWNT/PAN composite film-based supercapacitors. <i>Carbon</i> , 2003 , 41, 2440-2442	10.4	70
161	High Charge Carrier Mobility, Low Band Gap Donor-Acceptor Benzothiadiazole-oligothiophene Based Polymeric Semiconductors. <i>Chemistry of Materials</i> , 2012 , 24, 4123-4133	9.6	69
160	Gel-spun carbon nanotubes/polyacrylonitrile composite fibers. Part II: Stabilization reaction kinetics and effect of gas environment. <i>Carbon</i> , 2011 , 49, 4477-4486	10.4	61
159	Microscopic polymer cups by electrospinning. <i>Polymer</i> , 2005 , 46, 3211-3214	3.9	60
158	Stabilization kinetics of gel spun polyacrylonitrile/lignin blend fiber. <i>Carbon</i> , 2016 , 101, 382-389	10.4	57
157	Polyethylene crystallization nucleated by carbon nanotubes under shear. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 326-30	9.5	56
156	Effect of solvent solubility parameter on SWNT dispersion in PMMA. <i>Polymer</i> , 2005 , 46, 3419-3424	3.9	56

155	Electrical conductivity and Joule heating of polyacrylonitrile/carbon nanotube composite fibers. <i>Polymer</i> , 2014 , 55, 6896-6905	3.9	54
154	Fibers from soybean protein and poly(vinyl alcohol). <i>Journal of Applied Polymer Science</i> , 1999 , 71, 11-19	2.9	53
153	Gel-spun carbon nanotubes/polyacrylonitrile composite fibers. Part III: Effect of stabilization conditions on carbon fiber properties. <i>Carbon</i> , 2011 , 49, 4487-4496	10.4	52
152	Dispersion of nitric acid-treated SWNTs in organic solvents and solvent mixtures. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 17128-33	3.4	52
151	Morphology and modulus of vapor grown carbon nano fibers. <i>Journal of Materials Science</i> , 2006 , 41, 5851-5856	4.5	52
150	Highly conducting and flexible few-walled carbon nanotube thin film. <i>ACS Nano</i> , 2011 , 5, 2324-31	16.7	51
149	Oxidative stabilization of PAN/SWNT composite fiber. <i>Carbon</i> , 2005 , 43, 599-604	10.4	51
148	Stress transfer in polyacrylonitrile/carbon nanotube composite fibers. <i>Polymer</i> , 2014 , 55, 2734-2743	3.9	47
147	Solution spinning and characterization of poly(vinyl alcohol)/soybean protein blend fibers. <i>Journal of Applied Polymer Science</i> , 2003 , 90, 716-721	2.9	47
146	Interpretation of small-angle x-ray and neutron scattering data for perfluorosulfonated ionomer membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1986 , 24, 1767-1782	2.6	47
145	Structural and Functional Fibers. <i>Annual Review of Materials Research</i> , 2017 , 47, 331-359	12.8	46
144	Polymer nanotube nanocomposites: Correlating intermolecular interaction to ultimate properties. <i>Polymer</i> , 2006 , 47, 4734-4741	3.9	46
143	On the small-angle X-ray scattering of rigid-rod polymer fibres. <i>Polymer</i> , 1994 , 35, 5408-5412	3.9	46
142	High strength micron size carbon fibers from polyacrylonitrile/carbon nanotube precursors. <i>Carbon</i> , 2014 , 77, 442-453	10.4	45
141	Polyacrylonitrile/carbon nanotube composite films. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1331-42	3.4	44
140	Polypropylene nanocomposites with polymer coated multiwall carbon nanotubes. <i>Polymer</i> , 2016 , 100, 244-258	3.9	42
139	Gel Spinning of Polyacrylonitrile/Cellulose Nanocrystal Composite Fibers. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 610-616	5.5	41
138	Processing and properties of carbon nanotube/poly(methyl methacrylate) composite films. <i>Journal of Applied Polymer Science</i> , 2009 , 112, 142-156	2.9	41

137	A comparative guide to controlled hydrophobization of cellulose nanocrystals via surface esterification. <i>Cellulose</i> , 2016 , 23, 1825-1846	5.5	41
136	Molecular engineering of interphases in polymer/carbon nanotube composites to reach the limits of mechanical performance. <i>Composites Science and Technology</i> , 2018 , 166, 86-94	8.6	39
135	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> , 2015 , 55, 2603-2614	2.3	38
134	Processing and properties of poly(methyl methacrylate)/carbon nanofiber composites. <i>Composites Part B: Engineering</i> , 2004 , 35, 245-249	10	38
133	High impact strength polypropylene containing carbon nanotubes. <i>Polymer</i> , 2016 , 100, 259-274	3.9	37
132	Processing, Structure, and Properties of PAN/MWNT Composite Fibers. <i>Macromolecular Materials and Engineering</i> , 2010 , 295, 742-749	3.9	36
131	Carbon nanotube core-polymer shell nanofibers. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 1992-1995	2.9	36
130	Low-density and high-modulus carbon fibers from polyacrylonitrile with honeycomb structure. <i>Carbon</i> , 2015 , 95, 710-714	10.4	35
129	Polyacrylonitrile fibers containing graphene oxide nanoribbons. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 5281-8	9.5	35
128	Post-sulfonation of cellulose nanofibrils with a one-step reaction to improve dispersibility. <i>Carbohydrate Polymers</i> , 2018 , 181, 247-255	10.3	32
127	Chemistry of Carbon Nanotubes for Everyone. <i>Journal of Chemical Education</i> , 2012 , 89, 221-229	2.4	32
126	Structure and electrochemical properties of activated polyacrylonitrile based carbon fibers containing carbon nanotubes. <i>Journal of Power Sources</i> , 2008 , 185, 676-684	8.9	32
125	Individually Dispersed Wood-Based Cellulose Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5768-71	9.5	31
124	PAN/SAN/SWNT ternary composite: Pore size control and electrochemical supercapacitor behavior. <i>Polymer</i> , 2006 , 47, 5831-5837	3.9	31
123	Structural changes during deformation in carbon nanotube-reinforced polyacrylonitrile fibers. <i>Polymer</i> , 2008 , 49, 2133-2145	3.9	29
122	The effect of hydrogen bonding on the physical and mechanical properties of rigid-rod polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000 , 38, 3053-3061	2.6	29
121	Structure and rheological behavior of polypropylene interphase at high carbon nanotube concentration. <i>Polymer</i> , 2018 , 150, 10-25	3.9	28
120	Structure-property relationship studies in amine functionalized multiwall carbon nanotubes filled polypropylene composite fiber. <i>Polymer Engineering and Science</i> , 2012 , 52, 1183-1194	2.3	28

119	Nanoscale Structure-Property Relationships of Polyacrylonitrile/CNT Composites as a Function of Polymer Crystallinity and CNT Diameter. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1017-1027	9.5	28
118	Orientation and interfacial stress transfer of cellulose nanocrystal nanocomposite fibers. <i>Polymer</i> , 2017 , 110, 228-234	3.9	27
117	Functional polymer/polymer/carbon nanotube bi-component fibers. <i>Polymer</i> , 2013 , 54, 6210-6217	3.9	26
116	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> , 2012 , 83, 016103	1.7	26
115	Observations on Solution Crystallization of Poly(vinyl alcohol) in the Presence of Single-Wall Carbon Nanotubes. <i>Macromolecular Rapid Communications</i> , 2010 , 31, 310-6	4.8	26
114	Uniaxial Compressive Strength of High Modulus Fibers for Composites. <i>Journal of Reinforced Plastics and Composites</i> , 1988 , 7, 108-119	2.9	26
113	Rheological behavior of polyacrylonitrile and polyacrylonitrile/lignin blends. <i>Polymer</i> , 2017 , 111, 177-182	3.9	25
112	High-Performance Electrodes for a Hybrid Supercapacitor Derived from a Metal-Organic Framework/Graphene Composite. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5029-5038	6.1	24
111	Ordered wrapping of poly(methyl methacrylate) on single wall carbon nanotubes. <i>Polymer</i> , 2015 , 70, 278-281	3.9	24
110	Fiber Spinning, Structure, and Properties of Poly(ethylene terephthalate-co-4,4'-biphenylene dicarboxylate) Copolyesters. <i>Macromolecules</i> , 2002 , 35, 5123-5130	5.5	24
109	Compression behavior of materials: Part I. Glassy polymers. <i>Journal of Materials Research</i> , 1994 , 9, 2717-2726	3.9	24
108	Carbon fibers from polyacrylonitrile/cellulose nanocrystal nanocomposite fibers. <i>Carbon</i> , 2019 , 145, 764-774	3.9	23
107	Temperature dependent tensile behavior of gel-spun polyacrylonitrile and polyacrylonitrile/carbon nanotube composite fibers. <i>Polymer</i> , 2013 , 54, 4003-4009	3.9	23
106	Pore size control and electrochemical capacitor behavior of chemically activated polyacrylonitrile / Carbon nanotube composite films. <i>Composites Science and Technology</i> , 2010 , 70, 593-598	8.6	23
105	Structure, Morphology, and Properties of Methyl-Pendant Poly(p-phenylene benzobisimidazole) and Methyl-Pendant Poly(p-phenylene benzobisthiazole). <i>Macromolecules</i> , 2000 , 33, 8731-8738	5.5	23
104	Preparation of porous carbon nanofibers derived from graphene oxide/polyacrylonitrile composites as electrochemical electrode materials. <i>Carbon</i> , 2014 , 70, 308-312	10.4	22
103	Electrospun Micro- and Nanostructured Polymer Particles. <i>Macromolecular Chemistry and Physics</i> , 2008 , 209, 2390-2398	2.6	22
102	Processing, structure and properties of poly(ether ketone) grafted few wall carbon nanotube composite fibers. <i>Polymer</i> , 2010 , 51, 3940-3947	3.9	21

101	High surface area carbon from polyacrylonitrile for high-performance electrochemical capacitive energy storage. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18294-18299	13	20
100	Polymer-Infiltrated Aligned Carbon Nanotube Fibers by in situ Polymerization. <i>Macromolecular Rapid Communications</i> , 2009 , 30, 1936-9	4.8	20
99	The effect of heat setting on the structure and mechanical properties of poly(ethylene terephthalate) fiber. III. Anelastic properties and their dependence on structure. <i>Journal of Applied Polymer Science</i> , 1981 , 26, 1885-1895	2.9	20
98	Influence of high loading of cellulose nanocrystals in polyacrylonitrile composite films. <i>Cellulose</i> , 2017 , 24, 1745-1758	5.5	19
97	Structural changes in trisilanol POSS during nanocomposite melt processing. <i>Composite Interfaces</i> , 2005 , 11, 673-685	2.3	19
96	Polyacrylonitrile solution homogeneity study by dynamic shear rheology and the effect on the carbon fiber tensile strength. <i>Polymer Engineering and Science</i> , 2016 , 56, 361-370	2.3	19
95	Development of single filament testing procedure for polyacrylonitrile precursor and polyacrylonitrile-based carbon fibers. <i>Journal of Composite Materials</i> , 2015 , 49, 2231-2240	2.7	18
94	Ductile polyacrylonitrile fibers with high cellulose nanocrystals loading. <i>Polymer</i> , 2017 , 122, 332-339	3.9	18
93	Oxidative stabilization of polyacrylonitrile in the presence of functionalized carbon nanotubes. <i>Carbon</i> , 2007 , 45, 1114-1116	10.4	18
92	Polyacrylonitrile sheath and polyacrylonitrile/lignin core bi-component carbon fibers. <i>Carbon</i> , 2019 , 149, 165-172	10.4	17
91	Fracture mechanism of high impact strength polypropylene containing carbon nanotubes. <i>Polymer</i> , 2018 , 151, 287-298	3.9	17
90	Small-angle X-ray scattering investigation of carbon nanotube-reinforced polyacrylonitrile fibers during deformation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009 , 47, 2394-2409	2.6	17
89	Polyacrylonitrile/vapor grown carbon nanofiber composite films. <i>Journal of Materials Science</i> , 2008 , 43, 4363-4369	4.3	17
88	Shaping Polymer Particles by Carbon Nanotubes. <i>Macromolecular Rapid Communications</i> , 2008 , 29, 557-568	4.8	17
87	Structural studies of epoxy resins, acetylene terminated resins and polycarbonate. <i>Polymer</i> , 1987 , 28, 1497-1504	3.9	17
86	Preparation of low density hollow carbon fibers by bi-component gel-spinning method. <i>Journal of Materials Science</i> , 2015 , 50, 3614-3621	4.3	15
85	Origin and Control of Polyacrylonitrile Alignments on Carbon Nanotubes and Graphene Nanoribbons. <i>Advanced Functional Materials</i> , 2018 , 28, 1706970	15.6	15
84	Polyacrylonitrile/carbon nanofiber nanocomposite fibers. <i>Composites Science and Technology</i> , 2013 , 88, 134-141	8.6	15

83	Double-sided tin nanowire arrays for advanced thermal interface materials. <i>Applied Physics Letters</i> , 2013 , 102, 093105	3.4	15
82	Hydrothermally Oxidized Single-Walled Carbon Nanotube Networks for High Volumetric Electrochemical Energy Storage. <i>Small</i> , 2016 , 12, 3423-31	11	14
81	Revival of nitrogen-containing bisphosphonate-induced inhibition of osteoclastogenesis and osteoclast function by water-soluble microfibrinous borate glass. <i>Acta Biomaterialia</i> , 2016 , 31, 312-325	10.8	14
80	Written-in Conductive Patterns on Robust Graphene Oxide Biopaper by Electrochemical Microstamping. <i>Angewandte Chemie</i> , 2013 , 125, 14029-14033	3.6	14
79	Cellulose nanocrystals effect on the stabilization of polyacrylonitrile composite films. <i>Carbon</i> , 2018 , 134, 92-102	10.4	13
78	High-strength superparamagnetic composite fibers. <i>Polymer</i> , 2014 , 55, 4116-4124	3.9	13
77	Compressive Strength of high Performance Fibers. <i>Materials Research Society Symposia Proceedings</i> , 1988 , 134, 363		13
76	Third phase in poly(ethylene terephthalate). <i>Polymer</i> , 1978 , 19, 953-955	3.9	13
75	A Nonlinear Viscoelastic Model for Textile Fibers. <i>Textile Reseach Journal</i> , 1978 , 48, 429-431	1.7	13
74	Stress transfer in nanocomposites enabled by poly(methyl methacrylate) wrapping of carbon nanotubes. <i>Polymer</i> , 2017 , 130, 191-198	3.9	13
73	Polyacrylonitrile/boron nitride nanotubes composite precursor and carbon fibers. <i>Carbon</i> , 2019 , 147, 419-426	10.4	12
72	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> , 2015 , 55, 457-465	2.3	12
71	Polyacrylonitrile Interactions with Carbon Nanotubes in Solution: Conformations and Binding as a Function of Solvent, Temperature, and Concentration. <i>Advanced Functional Materials</i> , 2019 , 29, 1905247 ^{-15.6}		12
70	Effect of carbon nanotubes on sintering behavior of alumina prepared by sol-gel method. <i>Ceramics International</i> , 2014 , 40, 6579-6587	5.1	12
69	Influence of SWNTs on the Preferential Alignment of Molecular Moieties in PVA Fibers. <i>Macromolecular Chemistry and Physics</i> , 2012 , 213, 617-626	2.6	12
68	Processing, structure, and properties of carbon nano fiber filled PBZT composite fiber. <i>Composites Part B: Engineering</i> , 2005 , 36, 183-187	10	12
67	On the evidence of crosslinking in methyl pendent PBZT fiber. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1996 , 34, 1881-1891	2.6	12
66	Tensile and compressive behavior of poly(p-phenylene benzobisthiazole) fibers. <i>Journal of Applied Polymer Science</i> , 1995 , 56, 517-526	2.9	12

65	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> , 2017 , 147, 116-125	8.6	11
64	Development of a gel spinning process for high-strength poly(ethylene oxide) fibers. <i>Polymer Engineering and Science</i> , 2014 , 54, 2839-2847	2.3	11
63	A Liquid Crystalline Elastomer with a p-Pentaphenyl Transverse Rod Laterally Attached to the Main Chain. <i>Macromolecular Chemistry and Physics</i> , 2008 , 209, 272-278	2.6	11
62	A Model for Nonlinear Creep of Textile Fibers. <i>Textile Research Journal</i> , 1977 , 47, 647-649	1.7	11
61	Stabilization Study of Polyacrylonitrile/Cellulose Nanocrystals Composite Fibers. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 1015-1021	4.3	10
60	Carbon nanotube-enabled materials 2006 , 213-274		10
59	Orientation distribution of crystallites in polyethylene terephthalate fibers. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1979 , 17, 179-181		10
58	Investigation of phonon transport and thermal boundary conductance at the interface of functionalized SWCNT and poly (ether-ketone). <i>Journal of Applied Physics</i> , 2016 , 120, 095102	2.5	10
57	Lysozyme coated DNA and DNA/SWNT fibers by solution spinning. <i>Macromolecular Bioscience</i> , 2011 , 11, 875-81	5.5	9
56	Modeling the effect of crosslinking in methyl-pendant poly(p-phenylene benzobisthiazole). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1998 , 36, 3057-3064	2.6	9
55	Morphology and properties of polyacrylonitrile/single wall carbon nanotube composite films. <i>Fibers and Polymers</i> , 2004 , 5, 198-203	2	9
54	A Tetramethylbiphenyl Poly(benzobisthiazole): Synthesis, Characterization, Fiber Spinning, and Properties. <i>Macromolecules</i> , 2000 , 33, 3342-3348	5.5	9
53	Structure, morphology, and properties of PBZT and methyl pendant PBZT fibers. <i>Journal of Applied Polymer Science</i> , 1999 , 73, 305-314	2.9	9
52	Structure and dynamic mechanical properties of poly(ethylene terephthalate-co-4,4'-bibenzoate) fibers. <i>Polymer</i> , 2007 , 48, 1651-1658	3.9	8
51	Synthesis of copolyamides containing octadecanedioic acid: An investigation of nylon 6/6,18 in various ratios. <i>Journal of Applied Polymer Science</i> , 2006 , 99, 2062-2067	2.9	8
50	Rheological behavior of polypropylene nanocomposites with tailored polymer/multiwall carbon nanotubes interface. <i>Polymer Engineering and Science</i> , 2019 , 59, 1763-1777	2.3	7
49	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> , 2012 , 53, 5069-5077	3.9	7
48	Synthesis and characterization of poly(benzobisthiazole) with tetramethylbiphenyl moiety in the main chain. <i>Journal of Polymer Science Part A</i> , 1998 , 36, 1407-1416	2.5	7

47	Structure of the Soluble Lewis Acid Poly(p-phenylenebenzobisthiazole) and Poly(p-phenylenebenzobisoxazole) Complexes. <i>Chemistry of Materials</i> , 1996 , 8, 54-59	9.6	7
46	Multichannel hollow carbon fibers: Processing, structure, and properties. <i>Carbon</i> , 2021 , 174, 730-740	10.4	7
45	Effect of high-shear mixing by twin-screw extruder on the dispersion and homogeneity of polyacrylonitrile/carbon nanotube composite solution. <i>Polymer Composites</i> , 2017 , 38, 719-726	3	6
44	Determining the Orientation and Interfacial Stress Transfer of Boron Nitride Nanotube Composite Fibers for Reinforced Polymeric Materials. <i>ACS Applied Nano Materials</i> , 2019 , 2, 6670-6676	5.6	6
43	High Surface Area Electrodes Derived from Polymer Wrapped Carbon Nanotubes for Enhanced Energy Storage Devices. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24918-23	9.5	6
42	Microwave dielectric properties and Targeted heating of polypropylene nano-composites containing carbon nanotubes and carbon black. <i>Polymer</i> , 2019 , 179, 121658	3.9	6
41	Sponge Behaviors of Functionalized Few-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 14868-14875	3.8	6
40	Crystal Structure and Composition of Poly(ethylene terephthalate-co-4,4'-bibenzoate). <i>Macromolecules</i> , 2004 , 37, 7643-7648	5.5	6
39	Morphology of gel-spun polyethylene fibers. <i>Journal of Applied Polymer Science</i> , 1995 , 57, 781-787	2.9	6
38	Effect of interfacial chemistry on crystallization of polypropylene/multiwall carbon nanotube nanocomposites. <i>Polymer Engineering and Science</i> , 2019 , 59, 1570-1584	2.3	5
37	A mechanistic study of the interaction of water-soluble borate glass with apatite-bound heterocyclic nitrogen-containing bisphosphonates. <i>Acta Biomaterialia</i> , 2016 , 31, 339-347	10.8	5
36	Microfibrous borate bioactive glass dressing sequesters bone-bound bisphosphonate in the presence of simulated body fluid. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 959-963	7.3	5
35	Crosslinking studies on poly(ethylene terephthalate-co-1,4-phenylene bisacrylate). <i>Journal of Applied Polymer Science</i> , 2004 , 91, 1698-1702	2.9	5
34	Structural investigations on lewis acid mediated solubilization of poly(p-phenylenebenzobisthiazole) in an aprotic solvent. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1993 , 31, 1965-1973	2.6	5
33	A fourier analysis dynamic birefringence apparatus. <i>Journal of Applied Polymer Science</i> , 1987 , 34, 1693-1701	2.9	5
32	Structure, properties, and applications of polyacrylonitrile/carbon nanotube (CNT) fibers at low CNT loading. <i>Polymer Engineering and Science</i> , 2020 , 60, 2143-2151	2.3	5
31	Towards designing strong porous carbon fibers through gel spinning of polymer blends. <i>Carbon</i> , 2021 , 173, 724-735	10.4	5
30	High Interfacial Shear Strain in PolyureaCarbon Nanotube Composite Sheets. <i>ACS Applied Nano Materials</i> , 2019 , 2, 6849-6857	5.6	4

29	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> , 2014 , 131, n/a-n/a	2.9	4
28	Investigation of polyacrylonitrile solution inhomogeneity by dynamic light scattering. <i>Polymer Engineering and Science</i> , 2015 , 55, 1403-1407	2.3	4
27	Synthesis of 2,2',6,6'-Tetramethylbiphenyl-4,4'-Dibenzthiazole. <i>Synthetic Communications</i> , 1998 , 28, 2049-2055	2.7	4
26	Synthesis and Characterization of a Poly(benzobisthiazole) with a Substituted Biphenyl Moiety in the Main Chain. <i>Macromolecules</i> , 1996 , 29, 3787-3792	5.5	4
25	Determination of Crystallite Orientation in Polyethylene Terephthalate Fibers. <i>Textile Research Journal</i> , 1979 , 49, 405-406	1.7	4
24	Processing, structure and properties of polyacrylonitrile fibers with 15 weight percent single wall carbon nanotubes. <i>Polymer</i> , 2020 , 211, 123065	3.9	4
23	Engineering the Interphase of Single Wall Carbon Nanotubes/Polyacrylonitrile Nanocomposite Fibers with Poly(methyl methacrylate) and Its Effect on Filler Dispersion, Filler-Matrix Interactions, and Tensile Properties. <i>ACS Applied Nano Materials</i> , 2020 , 3, 4178-4186	5.6	4
22	Rheological behavior and fiber spinning of polyacrylonitrile (PAN)/Carbon nanotube (CNT) dispersions at high CNT loading. <i>Polymer</i> , 2021 , 215, 123369	3.9	4
21	Effect of processing conditions on the dispersion of carbon nanotubes in polyacrylonitrile solutions. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	3
20	Carbon Fibers 2007 ,		3
19	Sequence analysis and fiber properties of a blend of poly(ethylene terephthalate) and poly(ethylene terephthalate-co-4,4'-biphenylene tetracarboxylic diimide). <i>Journal of Applied Polymer Science</i> , 2004 , 93, 1793-1803	3.9	3
18	Microstructure analysis of high performance fibers in compression. <i>Polymer Engineering and Science</i> , 2003 , 43, 684-692	2.3	3
17	Orientation in acrylonitrile copolymers. <i>Journal of Applied Polymer Science</i> , 1982 , 27, 3407-3426	2.9	3
16	The elastic modulus of poly(ethylene terephthalate) fibers. <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , 1978 , 16, 3311-3314		3
15	Cure Behavior Changes and Compression of Carbon Nanotubes in Aerospace Grade Bismaleimide-Carbon Nanotube Sheet Nanocomposites. <i>ACS Applied Nano Materials</i> , 2021 , 4, 2476-2485	5.6	3
14	Investigating the efficacy of machine learning tools in modeling the continuous stabilization and carbonization process and predicting carbon fiber properties. <i>Carbon</i> , 2021 , 174, 605-616	10.4	3
13	Correlation between inhomogeneity in polyacrylonitrile spinning dopes and carbon fiber tensile strength. <i>Polymer Engineering and Science</i> , 2019 , 59, 478-482	2.3	3
12	Learning from Nature: Molecular Rearrangement in the Bismaleimide System Leading to Dramatic Increase in Impact Strength. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 758-767	4.3	2

11	Preparation and Characterization of porous Carbon/Nickel Nanofibers for Supercapacitor. <i>Journal of Engineered Fibers and Fabrics</i> , 2013 , 8, 155892501300800	0.9	2
10	Carbon Fibers: Origin and Control of Polyacrylonitrile Alignments on Carbon Nanotubes and Graphene Nanoribbons (Adv. Funct. Mater. 15/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870099	15.6	1
9	Reaction-Induced Strain in Rigid-Rod Polymeric Fibers. <i>Macromolecules</i> , 2000 , 33, 9060-9068	5.5	1
8	Dynamic birefringence and dynamic mechanical studies on acrylonitrile copolymers. <i>Journal of Applied Polymer Science</i> , 1987 , 34, 1703-1712	2.9	1
7	Modelling Nonlinear Creep of Textile Fibers: A Reply. <i>Textile Reseach Journal</i> , 1979 , 49, 240-241	1.7	1
6	Continuous stabilization of polyacrylonitrile (PAN) - carbon nanotube (CNT) fibers by Joule heating. <i>Chemical Engineering Science</i> , 2021 , 236, 116495	4.4	1
5	Stabilization of polyacrylonitrile fibers with carbon nanotubes. <i>Polymer Degradation and Stability</i> , 2021 , 188, 109567	4.7	1
4	Porous carbon fibers from gel-spun polyacrylonitrile and poly(methyl methacrylate)-block-poly(acrylonitrile). <i>Carbon</i> , 2022 , 192, 332-346	10.4	1
3	Interaction of Poly(methyl acrylate) with Carbon Nanotubes as a Function of CNT Diameter, Chirality, and Temperature. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 25632-25644	3.8	0
2	Alignment of SWNTs in lyotropic rigid-rod polymer compositions 2005 , 517-533		
1	Crosslinking Studies in Rigid and Semi-Rigid Polymers 2020 , 181-197		