Petra PÃ¶tschke

List of Publications by Year
in descending order

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331 papers	23,942 citations	4955 84 h-index	9090 144 g-index
336 all docs	336 docs citations	336 times ranked	14131 citing authors

#	Article	IF	Citations
1	Rheological behavior of multiwalled carbon nanotube/polycarbonate composites. Polymer, 2002, 43, 3247-3255.	1.8	1,181
2	Polyethylene multiwalled carbon nanotube composites. Polymer, 2005, 46, 8222-8232.	1.8	753
3	Rheological and dielectrical characterization of melt mixed polycarbonate-multiwalled carbon nanotube composites. Polymer, 2004, 45, 8863-8870.	1.8	625
4	Electrically conductive thermoplastic elastomer nanocomposites at ultralow graphene loading levels for strain sensor applications. Journal of Materials Chemistry C, 2016, 4, 157-166.	2.7	484
5	Carbon nanofibers for composite applications. Carbon, 2004, 42, 1153-1158.	5.4	468
6	Establishment, morphology and properties of carbon nanotube networks in polymer melts. Polymer, 2012, 53, 4-28.	1.8	468
7	Dielectric spectroscopy on melt processed polycarbonateâ€"multiwalled carbon nanotube composites. Polymer, 2003, 44, 5023-5030.	1.8	424
8	Influence of twin-screw extrusion conditions on the dispersion of multi-walled carbon nanotubes in a poly(lactic acid) matrix. Polymer, 2008, 49, 3500-3509.	1.8	378
9	Polypropylene/carbon nanotube nano/microcellular structures with high dielectric permittivity, low dielectric loss, and low percolation threshold. Carbon, 2014, 71, 206-217.	5.4	361
10	Formation of Co-continuous Structures in Melt-Mixed Immiscible Polymer Blends. Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics, 2003, 43, 87-141.	2.2	356
11	3D printed highly elastic strain sensors of multiwalled carbon nanotube/thermoplastic polyurethane nanocomposites. Materials and Design, 2017, 131, 394-401.	3.3	352
12	Dispersion, agglomeration, and network formation of multiwalled carbon nanotubes in polycarbonate melts. Polymer, 2008, 49, 974-984.	1.8	344
13	Morphology and electrical resistivity of melt mixed blends of polyethylene and carbon nanotube filled polycarbonate. Polymer, 2003, 44, 8061-8069.	1.8	315
14	Selective Localization and Migration of Multiwalled Carbon Nanotubes in Blends of Polycarbonate and Poly(styreneâ€acrylonitrile). Macromolecular Rapid Communications, 2009, 30, 423-429.	2.0	312
15	The effect of filler dimensionality on the electromechanical performance of polydimethylsiloxane based conductive nanocomposites for flexible strain sensors. Composites Science and Technology, 2017, 139, 64-73.	3.8	300
16	Fire behaviour of polyamide 6/multiwall carbon nanotube nanocomposites. European Polymer Journal, 2005, 41, 1061-1070.	2.6	287
17	Carbon nanotube-filled polycarbonate composites produced by melt mixing and their use in blends with polyethylene. Carbon, 2004, 42, 965-969.	5.4	277
18	A highly stretchable and stable strain sensor based on hybrid carbon nanofillers/polydimethylsiloxane conductive composites for large human motions monitoring. Composites Science and Technology, 2018, 156, 276-286.	3.8	276

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19	Shape-Dependent Localization of Carbon Nanotubes and Carbon Black in an Immiscible Polymer Blend during Melt Mixing. Macromolecules, 2011, 44, 6094-6102.	2.2	263
20	Melt mixing of polycarbonate with multiwalled carbon nanotubes: microscopic studies on the state of dispersion. European Polymer Journal, 2004, 40, 137-148.	2.6	262
21	Destruction and formation of a carbon nanotube network in polymer melts: Rheology and conductivity spectroscopy. Polymer, 2008, 49, 3524-3532.	1.8	230
22	The influence of matrix viscosity on MWCNT dispersion and electrical properties in different thermoplastic nanocomposites. Polymer, 2012, 53, 495-504.	1.8	227
23	Orientation of multiwalled carbon nanotubes in composites with polycarbonate by melt spinning. Polymer, 2005, 46, 10355-10363.	1.8	220
24	Dispersability and particle size distribution of CNTs in an aqueous surfactant dispersion as a function of ultrasonic treatment time. Carbon, 2010, 48, 2746-2754.	5.4	220
25	Influence of small scale melt mixing conditions on electrical resistivity of carbon nanotube-polyamide composites. Composites Science and Technology, 2009, 69, 1505-1515.	3.8	215
26	Influence of screw configuration, residence time, and specific mechanical energy in twin-screw extrusion of polycaprolactone/multi-walled carbon nanotube composites. Composites Science and Technology, 2010, 70, 2045-2055.	3.8	213
27	Conductivity spectroscopy on melt processed polypropyleneâ€“multiwalled carbon nanotube composites: Recovery after shear and crystallization. Polymer, 2007, 48, 1020-1029.	1.8	211
28	Analysis of agglomerate dispersion mechanisms of multiwalled carbon nanotubes during melt mixing in polycarbonate. Polymer, 2010, 51, 2708-2720.	1.8	209
29	Effect of synthesis catalyst on structure of nitrogen-doped carbon nanotubes and electrical conductivity and electromagnetic interference shielding of their polymeric nanocomposites. Carbon, 2016, 98, 358-372.	5.4	202
30	Melt mixing of polycarbonate/multi-wall carbon nanotube composites. Composite Interfaces, 2003, 10, 389-404.	1.3	198
31	Electrical, rheological and morphological studies in co-continuous blends of polyamide 6 and acrylonitrileâ€“butadieneâ€“styrene with multiwall carbon nanotubes prepared by melt blending. Composites Science and Technology, 2009, 69, 365-372.	3.8	193
32	Electrical and rheological percolation of PMMA/MWCNT nanocomposites as a function of CNT geometry and functionality. European Polymer Journal, 2010, 46, 854-868.	2.6	186
33	Tuning the Network Structure in Poly(vinylidene fluoride)/Carbon Nanotube Nanocomposites Using Carbon Black: Toward Improvements of Conductivity and Piezoresistive Sensitivity. ACS Applied Materials & Interfaces, 2016, 8, 14190-14199.	4.0	163
34	Influence of injection molding parameters on the electrical resistivity of polycarbonate filled with multi-walled carbon nanotubes. Composites Science and Technology, 2008, 68, 777-789.	3.8	161
35	Liquid sensing properties of fibres prepared by melt spinning from poly(lactic acid) containing multi-walled carbon nanotubes. Composites Science and Technology, 2010, 70, 343-349.	3.8	159
36	Heat transfer in microcellular polystyrene/multi-walled carbon nanotube nanocomposite foams. Carbon, 2015, 93, 819-829.	5.4	158

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37	Electrical and thermal properties of polyamide 12 composites with hybrid fillers systems of multiwalled carbon nanotubes and carbon black. Composites Science and Technology, 2011, 71, 1053-1059.	3.8	157
38	Highly sensitive and stretchable piezoresistive strain sensor based on conductive poly(styrene-butadiene-styrene)/few layer graphene composite fiber. Composites Part A: Applied Science and Manufacturing, 2018, 105, 291-299.	3.8	157
39	Electrical, mechanical, and glass transition behavior of polycarbonate-based nanocomposites with different multi-walled carbon nanotubes. Polymer, 2011, 52, 3835-3845.	1.8	156
40	A Novel Strategy to Incorporate Carbon Nanotubes into Thermoplastic Matrices. Macromolecular Rapid Communications, 2008, 29, 244-251.	2.0	155
41	Conductive thermoplastic polyurethane composites with tunable piezoresistivity by modulating the filler dimensionality for flexible strain sensors. Composites Part A: Applied Science and Manufacturing, 2017, 101, 41-49.	3.8	155
42	Rheological characterization of melt processed polycarbonate-multiwalled carbon nanotube composites. Journal of Non-Newtonian Fluid Mechanics, 2005, 128, 2-6.	1.0	151
43	Destruction and formation of a conductive carbon nanotube network in polymer melts: In-line experiments. Polymer, 2008, 49, 1902-1909.	1.8	147
44	Achieving Î²-phase poly(vinylidene fluoride) from melt cooling: Effect of surface functionalized carbon nanotubes. Polymer, 2014, 55, 611-619.	1.8	145
45	Highly conducting poly(methyl methacrylate)/carbon nanotubes composites: Investigation on their thermal, dynamic-mechanical, electrical and dielectric properties. Composites Science and Technology, 2011, 71, 854-862.	3.8	143
46	Structural interpretations of deformation and fracture behavior of polypropylene/multi-walled carbon nanotube composites. Acta Materialia, 2008, 56, 2247-2261.	3.8	142
47	Electrical/dielectric properties and conduction mechanism in melt processed polyamide/multi-walled carbon nanotubes composites. Polymer, 2009, 50, 5103-5111.	1.8	142
48	A comparative study on the electrical and mechanical behaviour of multiâ€walled carbon nanotube composites prepared by diluting a masterbatch with various types of polypropylenes. Journal of Applied Polymer Science, 2009, 113, 2536-2551.	1.3	141
49	A method for determination of length distributions of multiwalled carbon nanotubes before and after melt processing. Carbon, 2011, 49, 1243-1247.	5.4	139
50	Multifunctional Cellulose/rGO/Fe₃O₄ Composite Aerogels for Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 2020, 12, 22088-22098.	4.0	136
51	Influence of processing conditions in smallâ€scale melt mixing and compression molding on the resistivity and morphology of polycarbonateâ€“MWNT composites. Journal of Applied Polymer Science, 2009, 112, 3494-3509.	1.3	135
52	Electrical conductivity recovery in carbon nanotubeâ€“polymer composites after transient shear. Physica Status Solidi (B): Basic Research, 2007, 244, 4223-4226.	0.7	130
53	Influence of dry grinding in a ball mill on the length of multiwalled carbon nanotubes and their dispersion and percolation behaviour in melt mixed polycarbonate composites. Composites Science and Technology, 2011, 71, 1145-1153.	3.8	128
54	Kinetics of nucleation and crystallization of poly(Îµ-caprolactone) â€“ Multiwalled carbon nanotube composites. European Polymer Journal, 2014, 52, 1-11.	2.6	126

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55	Strong Strain Sensing Performance of Natural Rubber Nanocomposites. ACS Applied Materials & Interfaces, 2017, 9, 4860-4872.	4.0	125
56	High-Performance Wearable Strain Sensor Based on Graphene/Cotton Fabric with High Durability and Low Detection Limit. ACS Applied Materials & Interfaces, 2020, 12, 1474-1485.	4.0	125
57	Smart cellulose/graphene composites fabricated byin situchemical reduction of graphene oxide for multiple sensing applications. Journal of Materials Chemistry A, 2018, 6, 7777-7785.	5.2	118
58	Bidirectional and Stretchable Piezoresistive Sensors Enabled by Multimaterial 3D Printing of Carbon Nanotube/Thermoplastic Polyurethane Nanocomposites. Polymers, 2019, 11, 11.	2.0	118
59	Influences of polymer matrix melt viscosity and molecular weight on MWCNT agglomerate dispersion. Polymer, 2011, 52, 1027-1036.	1.8	117
60	Structureâ€“property relationships in polyamide 6/multiâ€walled carbon nanotubes nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 764-774.	2.4	113
61	Deformation processes of ultrahigh porous multiwalled carbon nanotubes/polycarbonate composite fibers prepared by electrospinning. Polymer, 2005, 46, 7346-7351.	1.8	112
62	Correlation of carbon nanotube dispersability in aqueous surfactant solutions and polymers. Carbon, 2009, 47, 602-612.	5.4	111
63	Melt Mixing of Polycarbonate with Multi-Walled Carbon Nanotubes in Miniature Mixers. Macromolecular Materials and Engineering, 2006, 291, 227-238.	1.7	110
64	Liquid sensing: smart polymer/CNT composites. Materials Today, 2011, 14, 340-345.	8.3	110
65	Strain sensing, electrical and mechanical properties of polycarbonate/multiwall carbon nanotube monofilament fibers fabricated by melt spinning. Polymer, 2016, 82, 181-189.	1.8	110
66	The kinetics of CNT transfer between immiscible blend phases during melt mixing. Polymer, 2012, 53, 411-421.	1.8	109
67	Piezoresistive natural rubber-multiwall carbon nanotube nanocomposite for sensor applications. Sensors and Actuators A: Physical, 2016, 239, 102-113.	2.0	109
68	A facile method to increase the charge storage capability of polymer nanocomposites. Nano Energy, 2015, 15, 54-65.	8.2	108
69	Multicomponent blends based on polyamide 6 and styrenic polymers: morphology and melt rheology. Polymer, 2002, 43, 6985-6992.	1.8	107
70	Rheology, electrical conductivity, and the phase behavior of cocontinuous PA6/ABS blends with MWNT: Correlating the aspect ratio of MWNT with the percolation threshold. Journal of Polymer Science, Part B: Polymer Physics, 2008, 46, 1619-1631.	2.4	107
71	Use of carbon nanotube filled polycarbonate in blends with montmorillonite filled polypropylene. Composites Science and Technology, 2007, 67, 855-860.	3.8	103
72	Influence of the viscosity ratio in PC/SAN blends filled with MWCNTs on the morphological, electrical, and melt rheological properties. Polymer, 2013, 54, 6801-6808.	1.8	102

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73	Tough-to-brittle transition in multiwalled carbon nanotube (MWNT)/polycarbonate nanocomposites. Composites Science and Technology, 2007, 67, 867-879.	3.8	101
74	Aspect ratio effects of multiâ€walled carbon nanotubes on electrical, mechanical, and thermal properties of polycarbonate/MWCNT composites. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 73-83.	2.4	101
75	Liquid sensing of melt-processed poly(lactic acid)/multi-walled carbon nanotube composite films. Sensors and Actuators B: Chemical, 2008, 134, 787-795.	4.0	99
76	Low electrical percolation threshold in poly(ethylene terephthalate)/multi-walled carbon nanotube nanocomposites. European Polymer Journal, 2010, 46, 928-936.	2.6	99
77	Effects of synthesis catalyst and temperature on broadband dielectric properties of nitrogen-doped carbon nanotube/polyvinylidene fluoride nanocomposites. Carbon, 2016, 106, 260-278.	5.4	99
78	Melt Mixing as Method to Disperse Carbon Nanotubes into Thermoplastic Polymers. Fullerenes Nanotubes and Carbon Nanostructures, 2005, 13, 211-224.	1.0	96
79	Carbon nanotubeâ€“cellulose composite aerogels for vapour sensing. Sensors and Actuators B: Chemical, 2015, 213, 20-26.	4.0	95
80	Influence of the MWCNT surface functionalization on the thermoelectric properties of melt-mixed polycarbonate composites. Composites Science and Technology, 2014, 101, 133-138.	3.8	94
81	Mechanical, thermal, and fire behavior of bisphenol a polycarbonate/multiwall carbon nanotube nanocomposites. Polymer Engineering and Science, 2008, 48, 149-158.	1.5	93
82	Dynamic mechanical behavior of high-density polyethylene/ethylene vinyl acetate copolymer blends: The effects of the blend ratio, reactive compatibilization, and dynamic vulcanization. Journal of Applied Polymer Science, 2003, 87, 2083-2099.	1.3	91
83	Blends of Amphiphilic, Hyperbranched Polyesters and Different Polyolefins. Macromolecules, 1999, 32, 6333-6339.	2.2	90
84	Influence of feeding conditions in twin-screw extrusion of PP/MWCNT composites on electrical and mechanical properties. Composites Science and Technology, 2011, 71, 1535-1542.	3.8	87
85	Percolation behaviour of multiwalled carbon nanotubes of altered length and primary agglomerate morphology in melt mixed isotactic polypropylene-based composites. Composites Science and Technology, 2011, 71, 1936-1943.	3.8	83
86	Crack Toughness Behaviour of Multiwalled Carbon Nanotube (MWNT)/Polycarbonate Nanocomposites. Macromolecular Rapid Communications, 2005, 26, 1246-1252.	2.0	82
87	The Static and Dynamic Mechanical Properties of Banana and Glass Fiber Woven Fabric-Reinforced Polyester Composite. Journal of Composite Materials, 2005, 39, 1007-1025.	1.2	82
88	Nanoporous Cathodes for High-Energy Liâ€“S Batteries from Gyroid Block Copolymer Templates. ACS Nano, 2015, 9, 6147-6157.	7.3	82
89	Melt mixed PCL/MWCNT composites prepared at different rotation speeds: Characterization of rheological, thermal, and electrical properties, molecular weight, MWCNT macrodispersion, and MWCNT length distribution. Polymer, 2013, 54, 3071-3078.	1.8	80
90	Crystallization of poly(Îµ-caprolactone)/MWCNT composites: A combined SAXS/WAXS, electrical and thermal conductivity study. Polymer, 2014, 55, 2220-2232.	1.8	80

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91	Process-microstructure-electrical conductivity relationships in injection-molded polypropylene/carbon nanotube nanocomposite foams. Composites Part A: Applied Science and Manufacturing, 2017, 96, 28-36.	3.8	80
92	Spatial statistics of carbon nanotube polymer composites. Polymer, 2009, 50, 2123-2132.	1.8	78
93	Antistatic Epoxy Coatings With Carbon Nanotubes Obtained by Cationic Photopolymerization. Macromolecular Rapid Communications, 2008, 29, 396-400.	2.0	77
94	Melt mixed nano composites of PA12 with MWNTs: Influence of MWNT and matrix properties on macrodispersion and electrical properties. Composites Science and Technology, 2011, 71, 306-314.	3.8	77
95	Influence of processing conditions on the multiphase structure of segmented polyurethane. Polymer, 1998, 39, 5147-5153.	1.8	75
96	Effect of encapsulated SWNT on the mechanical properties of melt mixed PA12/SWNT composites. Chemical Physics Letters, 2004, 392, 28-33.	1.2	75
97	Temperature Dependence of Creep Behavior of PPâ€“MWNT Nanocomposites. Macromolecular Rapid Communications, 2007, 28, 1624-1633.	2.0	75
98	Reactive Compatibilization of Melt Mixed PA6/SWNT Composites: Mechanical Properties and Morphology. Macromolecular Chemistry and Physics, 2005, 206, 2084-2095.	1.1	72
99	Cellulose-carbon nanotube composite aerogels as novel thermoelectric materials. Composites Science and Technology, 2018, 163, 133-140.	3.8	72
100	Vapor sensing properties of thermoplastic polyurethane multifilament covered with carbon nanotube networks. Sensors and Actuators B: Chemical, 2011, 156, 63-70.	4.0	71
101	Ultralow percolation threshold in polyamide 6.6/MWCNT composites. Composites Science and Technology, 2015, 114, 119-125.	3.8	71
102	Electrically Conductive Polyetheretherketone Nanocomposite Filaments: From Production to Fused Deposition Modeling. Polymers, 2018, 10, 925.	2.0	71
103	Tuning the localization of functionalized MWCNTs in SAN/PC blends by a reactive component. Composites Science and Technology, 2011, 72, 41-48.	3.8	69
104	Influence of a cyclic butylene terephthalate oligomer on the processability and thermoelectric properties of polycarbonate/MWCNT nanocomposites. Polymer, 2014, 55, 5381-5388.	1.8	68
105	Rheology, morphology, and crystallization behavior of meltâ€mixed blends of polyamide6 and acrylonitrileâ€butadieneâ€styrene: Influence of reactive compatibilizer premixed with multiwall carbon nanotubes. Journal of Applied Polymer Science, 2007, 106, 3394-3408.	1.3	67
106	Dispersion of pristine single-walled carbon nanotubes using pyrene-capped polystyrene and its application for preparation of polystyrene matrix composites. Carbon, 2010, 48, 2603-2612.	5.4	67
107	Enhancing the electrical conductivity of PP/CNT nanocomposites through crystal-induced volume exclusion effect with a slow cooling rate. Composites Part B: Engineering, 2020, 183, 107663.	5.9	67
108	Influence of Screw Speed on Electrical and Rheological Percolation of Meltâ€Mixed Highâ€Impact Polystyrene/MWCNT Nanocomposites. Macromolecular Materials and Engineering, 2011, 296, 59-69.	1.7	66

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109	A morphological study on the dispersion and selective localization behavior of graphene nanoplatelets in immiscible polymer blends ofÂPC and SAN. Polymer, 2013, 54, 5875-5882.	1.8	66
110	Tuning of vapor sensing behaviors of eco-friendly conductive polymer composites utilizing ramie fiber. Sensors and Actuators B: Chemical, 2015, 221, 1279-1289.	4.0	64
111	Single-walled carbon nanotubes/polycarbonate composites: basic electrical and mechanical properties. Physica Status Solidi (B): Basic Research, 2006, 243, 3445-3451.	0.7	63
112	Polypropylene-based melt mixed composites with singlewalled carbon nanotubes for thermoelectric applications: Switching from p-type to n-type by the addition of polyethylene glycol. Polymer, 2017, 108, 513-520.	1.8	62
113	Morphology and properties of blends with different thermoplastic polyurethanes and polyolefines. Journal of Applied Polymer Science, 1997, 64, 749-762.	1.3	60
114	Melt mixed SWCNT-polypropylene composites with very low electrical percolation. Polymer, 2016, 98, 45-50.	1.8	59
115	Polymer/carbon nanotube composites for liquid sensing: Model for electrical response characteristics. Polymer, 2011, 52, 2276-2285.	1.8	58
116	Does the Processing Method Resulting in Different States of an Interconnected Network of Multiwalled Carbon Nanotubes in Polymeric Blend Nanocomposites Affect EMI Shielding Properties?. ACS Omega, 2018, 3, 5771-5782.	1.6	58
117	Modification with alkyl chains and the influence on thermal and mechanical properties of aromatic hyperbranched polyesters. Macromolecular Chemistry and Physics, 2000, 201, 49-57.	1.1	55
118	Surface tension, interfacial tension, and morphology in blends of thermoplastic polyurethanes and polyolefins. Part I. Surface tension of melts of TPU model substances and polyolefins. Polymer, 2002, 43, 6965-6972.	1.8	55
119	Investigation of liquid sensing mechanism of poly(lactic acid)/multi-walled carbon nanotube composite films. Smart Materials and Structures, 2009, 18, 035008.	1.8	55
120	Comparison of nanotubes produced by fixed bed and aerosol-CVD methods and their electrical percolation behaviour in melt mixed polyamide 6.6 composites. Composites Science and Technology, 2010, 70, 151-160.	3.8	55
121	All-aromatic SWCNT-Polyetherimide nanocomposites for thermal energy harvesting applications. Composites Science and Technology, 2018, 156, 158-165.	3.8	55
122	Selective localization of carbon nanotubes and its effect on the structure and properties of polymer blends. Progress in Polymer Science, 2021, 123, 101471.	11.8	55
123	Comparisons Among Electrical and Rheological Properties of Melt-Mixed Composites Containing Various Carbon Nanostructures. Journal of Macromolecular Science - Pure and Applied Chemistry, 2009, 47, 12-19.	1.2	54
124	3D printed conductive thermoplastic polyurethane/carbon nanotube composites for capacitive and piezoresistive sensing in soft pneumatic actuators. Additive Manufacturing, 2020, 34, 101281.	1.7	54
125	Conductive network formation and destruction in polypropylene/carbon nanotube composites via crystal control using supercritical carbon dioxide. Polymer, 2017, 129, 179-188.	1.8	53
126	Structural analysis of multicomponent nanoclay-containing polymer blends through simple model systems. Polymer, 2008, 49, 2119-2126.	1.8	52

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127	A successful approach to disperse MWCNTs in polyethylene by melt mixing using polyethylene glycol as additive. Polymer, 2012, 53, 3079-3083.	1.8	52
128	An Ionic Liquid as Interface Linker for Tuning Piezoresistive Sensitivity and Toughness in Poly(vinylidene fluoride)/Carbon Nanotube Composites. ACS Applied Materials & Interfaces, 2017, 9, 5437-5446.	4.0	52
129	Deformation and orientation during shear and elongation of a polycarbonate/carbon nanotubes composite in the melt. Rheologica Acta, 2007, 46, 889-898.	1.1	51
130	Preparation and Rheological Characterization of Polymer Nanocomposites Based on Expanded Graphite. Journal of Macromolecular Science - Pure and Applied Chemistry, 2007, 44, 591-598.	1.2	50
131	Liquid sensing properties of melt processed polypropylene/poly(Îµ-caprolactone) blends containing multiwalled carbon nanotubes. Composites Science and Technology, 2011, 71, 1451-1460.	3.8	50
132	Polymerâ€“carbon nanotube composites. , 2011, , .		50
133	Influence of multiwall carbon nanotubes on the mechanical properties and unusual crystallization behavior in meltâ€mixed coâ€continuous blends of polyamide6 and acrylonitrile butadiene styrene. Polymer Engineering and Science, 2009, 49, 1533-1543.	1.5	49
134	Single Polymer Composites of Poly(Butylene Terephthalate) Microfibrils Loaded with Carbon Nanotubes Exhibiting Electrical Conductivity and Improved Mechanical Properties. Macromolecular Materials and Engineering, 2014, 299, 799-806.	1.7	49
135	High-Power All-Carbon Fully Printed and Wearable SWCNT-Based Organic Thermoelectric Generator. ACS Applied Materials & Interfaces, 2021, 13, 11151-11165.	4.0	49
136	Nucleation efficiency of fillers in polymer crystallization studied by fast scanning calorimetry: Carbon nanotubes in polypropylene. Polymer, 2017, 116, 160-172.	1.8	48
137	Comparative study of singlewalled, multiwalled, and branched carbon nanotubes melt mixed in different thermoplastic matrices. Polymer, 2018, 159, 75-85.	1.8	47
138	Characterization of Highly Filled PP/Graphite Composites for Adhesive Joining in Fuel Cell Applications. Polymers, 2019, 11, 462.	2.0	46
139	Relationships between phase morphology and deformation mechanisms in polymer nanocomposite nanofibres prepared by an electrospinning process. Nanotechnology, 2006, 17, 963-972.	1.3	45
140	Polymer/carbon nanotube composites for liquid sensing: Selectivity against different solvents. Polymer, 2012, 53, 2908-2918.	1.8	45
141	Influence of shear deformation on the electrical and rheological properties of combined filler networks in polymer melts: Carbon nanotubes and carbon black in polycarbonate. Polymer, 2013, 54, 5865-5874.	1.8	45
142	Creep-resistant behavior of MWCNT-polycarbonate melt spun nanocomposite fibers at elevated temperature. Polymer, 2013, 54, 3723-3729.	1.8	45
143	Impact of synthesis temperature on morphology, rheology and electromagnetic interference shielding of CVD-grown carbon nanotube/polyvinylidene fluoride nanocomposites. Synthetic Metals, 2017, 230, 39-50.	2.1	45
144	Multi-layered stack consisting of PVDF nanocomposites with flow-induced oriented MWCNT structure can supress electromagnetic radiation. Composites Part B: Engineering, 2019, 166, 749-757.	5.9	45

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145	Preparation of polystyrene nanocomposites with functionalized carbon nanotubes by melt and solution mixing: Investigation of dispersion, melt rheology, electrical and thermal properties. Polymer, 2017, 132, 325-341.	1.8	44
146	Improvement of carbon nanotube dispersion in thermoplastic composites using a three roll mill at elevated temperatures. Composites Science and Technology, 2013, 74, 78-84.	3.8	43
147	Flexible poly(styrene-butadiene-styrene)/carbon nanotube fiber based vapor sensors with high sensitivity, wide detection range, and fast response. Sensors and Actuators B: Chemical, 2018, 256, 896-904.	4.0	43
148	Hybrid conductive filler/polycarbonate composites with enhanced electrical and thermal conductivities for bipolar plate applications. Polymer Composites, 2019, 40, 3189-3198.	2.3	43
149	Melt Dispersion and Electrospinning of Nonâ€Functionalized Multiwalled Carbon Nanotubes in Thermoplastic Polyurethane. Macromolecular Rapid Communications, 2009, 30, 2102-2106.	2.0	42
150	Thermal Conductivity and Electrical Resistivity of Melt-Mixed Polypropylene Composites Containing Mixtures of Carbon-Based Fillers. Polymers, 2019, 11, 1073.	2.0	42
151	Coalescence in blends of thermoplastic polyurethane with polyolefins. Polymer Engineering and Science, 1999, 39, 1022-1034.	1.5	41
152	MWNTâ€filled PC/ABS blends: Correlation of morphology with rheological and electrical response. Journal of Applied Polymer Science, 2013, 130, 739-748.	1.3	41
153	Vapor sensing performance as a diagnosis probe to estimate the distribution of multi-walled carbon nanotubes in poly(lactic acid)/polypropylene conductive composites. Sensors and Actuators B: Chemical, 2018, 255, 2809-2819.	4.0	41
154	Blends of hyperbranched poly(ether amide)s and polyamide-6. Macromolecular Materials and Engineering, 2000, 280-281, 33-40.	1.7	40
155	Elucidating the Chemistry behind the Reduction of Graphene Oxide Using a Green Approach with Polydopamine. Nanomaterials, 2019, 9, 902.	1.9	38
156	Melt-Mixed PP/MWCNT Composites: Influence of CNT Incorporation Strategy and Matrix Viscosity on Filler Dispersion and Electrical Resistivity. Polymers, 2019, 11, 189.	2.0	38
157	Screening of Different Carbon Nanotubes in Melt-Mixed Polymer Composites with Different Polymer Matrices for Their Thermoelectrical Properties. Journal of Composites Science, 2019, 3, 106.	1.4	38
158	Blends of thermoplastic polyurethane and maleic-anhydride grafted polyethylene. I: Morphology and mechanical properties. Polymer Engineering and Science, 1999, 39, 1035-1048.	1.5	37
159	Experimental investigation of the morphology development of polyblends in corotating twin-screw extruders. Journal of Applied Polymer Science, 2000, 76, 708-721.	1.3	35
160	Ductile-to-Semiductile Transition in PP-MWNT Nanocomposites. Macromolecular Rapid Communications, 2007, 28, 834-841.	2.0	35
161	Preparation of PA6/nano titanium dioxide(TiO2) composites and their spinnability. Macromolecular Symposia, 2004, 210, 251-261.	0.4	34
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