Petra Ptschke

List of Publications by Citations

323 papers	20,341 citations	80 h-index	133 g-index
336 ext. papers	22,177 ext. citations	4.7 avg, IF	7.06 L-index

#	Paper	IF	Citations
323	Rheological behavior of multiwalled carbon nanotube/polycarbonate composites. *Polymer*, **2002**, 43, 3247-3255	3.9	1084
322	Polyethylene multiwalled carbon nanotube composites. *Polymer*, **2005**, 46, 8222-8232	3.9	702
321	Rheological and dielectrical characterization of melt mixed polycarbonate-multiwalled carbon nanotube composites. *Polymer*, **2004**, 45, 8863-8870	3.9	592
320	Electrically conductive thermoplastic elastomer nanocomposites at ultralow graphene loading levels for strain sensor applications. *Journal of Materials Chemistry C*, **2016**, 4, 157-166	7.1	413
319	Establishment, morphology and properties of carbon nanotube networks in polymer melts. *Polymer* , **2012**, 53, 4-28	3.9	412
318	Carbon nanofibers for composite applications. *Carbon*, **2004**, 42, 1153-1158	10.4	410
317	Dielectric spectroscopy on melt processed polycarbonate multiwalled carbon nanotube composites. *Polymer*, **2003**, 44, 5023-5030	3.9	395
316	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	3.9	345
315	Dispersion, agglomeration, and network formation of multiwalled carbon nanotubes in polycarbonate melts. *Polymer*, **2008**, 49, 974-984	3.9	314
314	Morphology and electrical resistivity of melt mixed blends of polyethylene and carbon nanotube filled polycarbonate. *Polymer*, **2003**, 44, 8061-8069	3.9	299
313	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		299
312	Polypropylene/carbon nanotube nano/microcellular structures with high dielectric permittivity, low dielectric loss, and low percolation threshold. *Carbon*, **2014**, 71, 206-217	10.4	290
311	Selective Localization and Migration of Multiwalled Carbon Nanotubes in Blends of Polycarbonate and Poly(styrene-acrylonitrile). *Macromolecular Rapid Communications*, **2009**, 30, 423-9	4.8	285
310	Fire behaviour of polyamide 6/multiwall carbon nanotube nanocomposites. *European Polymer Journal*, **2005**, 41, 1061-1070	5.2	267
309	Carbon nanotube-filled polycarbonate composites produced by melt mixing and their use in blends with polyethylene. *Carbon*, **2004**, 42, 965-969	10.4	257
308	Melt mixing of polycarbonate with multiwalled carbon nanotubes: microscopic studies on the state of dispersion. *European Polymer Journal*, **2004**, 40, 137-148	5.2	252
307	3D printed highly elastic strain sensors of multiwalled carbon nanotube/thermoplastic polyurethane nanocomposites. *Materials and Design*, **2017**, 131, 394-401	8.1	247

306	Shape-Dependent Localization of Carbon Nanotubes and Carbon Black in an Immiscible Polymer Blend during Melt Mixing. *Macromolecules*, **2011**, 44, 6094-6102	5.5	233
305	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	8.6	222
304	Destruction and formation of a carbon nanotube network in polymer melts: Rheology and conductivity spectroscopy. *Polymer*, **2008**, 49, 3524-3532	3.9	217
303	Orientation of multiwalled carbon nanotubes in composites with polycarbonate by melt spinning. *Polymer*, **2005**, 46, 10355-10363	3.9	203
302	Dispersability and particle size distribution of CNTs in an aqueous surfactant dispersion as a function of ultrasonic treatment time. *Carbon*, **2010**, 48, 2746-2754	10.4	200
301	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	8.6	199
300	Conductivity spectroscopy on melt processed polypropylene–multiwalled carbon nanotube composites: Recovery after shear and crystallization. *Polymer*, **2007**, 48, 1020-1029	3.9	199
299	Influence of small scale melt mixing conditions on electrical resistivity of carbon nanotube-polyamide composites. *Composites Science and Technology*, **2009**, 69, 1505-1515	8.6	195
298	The influence of matrix viscosity on MWCNT dispersion and electrical properties in different thermoplastic nanocomposites. *Polymer*, **2012**, 53, 495-504	3.9	187
297	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	8.6	184
296	Electrical, rheological and morphological studies in co-continuous blends of polyamide 6 and acrylonitrile–butadiene–styrene with multiwall carbon nanotubes prepared by melt blending. *Composites Science and Technology*, **2009**, 69, 365-372	8.6	182
295	Analysis of agglomerate dispersion mechanisms of multiwalled carbon nanotubes during melt mixing in polycarbonate. *Polymer*, **2010**, 51, 2708-2720	3.9	181
294	Melt mixing of polycarbonate/multi-wall carbon nanotube composites. *Composite Interfaces*, **2003**, 10, 389-404	2.3	176
293	Electrical and rheological percolation of PMMA/MWCNT nanocomposites as a function of CNT geometry and functionality. *European Polymer Journal*, **2010**, 46, 854-868	5.2	168
292	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	10.4	166
291	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	8.6	147
290	A Novel Strategy to Incorporate Carbon Nanotubes into Thermoplastic Matrices. *Macromolecular Rapid Communications*, **2008**, 29, 244-251	4.8	146
289	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	8.6	145

288	Electrical, mechanical, and glass transition behavior of polycarbonate-based nanocomposites with different multi-walled carbon nanotubes. *Polymer*, **2011**, 52, 3835-3845	3.9	142
287	Rheological characterization of melt processed polycarbonate-multiwalled carbon nanotube composites. *Journal of Non-Newtonian Fluid Mechanics*, **2005**, 128, 2-6	2.7	139
286	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	8.6	134
285	Destruction and formation of a conductive carbon nanotube network in polymer melts: In-line experiments. *Polymer*, **2008**, 49, 1902-1909	3.9	134
284	Structural interpretations of deformation and fracture behavior of polypropylene/multi-walled carbon nanotube composites. *Acta Materialia*, **2008**, 56, 2247-2261	8.4	134
283	A comparative study on the electrical and mechanical behaviour of multi-walled carbon nanotube composites prepared by diluting a masterbatch with various types of polypropylenes. *Journal of Applied Polymer Science*, **2009**, 113, 2536-2551	2.9	129
282	Electrical/dielectric properties and conduction mechanism in melt processed polyamide/multi-walled carbon nanotubes composites. *Polymer*, **2009**, 50, 5103-5111	3.9	129
281	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	8.6	128
280	A method for determination of length distributions of multiwalled carbon nanotubes before and after melt processing. *Carbon*, **2011**, 49, 1243-1247	10.4	125
279	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, 14190-9	9.5	125
278	Influence of processing conditions in small-scale melt mixing and compression molding on the resistivity and morphology of polycarbonate/MWNT composites. *Journal of Applied Polymer Science* , **2009**, 112, 3494-3509	2.9	121
277	Heat transfer in microcellular polystyrene/multi-walled carbon nanotube nanocomposite foams. *Carbon*, **2015**, 93, 819-829	10.4	118
276	Achieving β-phase poly(vinylidene fluoride) from melt cooling: Effect of surface functionalized carbon nanotubes. *Polymer*, **2014**, 55, 611-619	3.9	116
275	Kinetics of nucleation and crystallization of poly(ε-caprolactone)/Multiwalled carbon nanotube composites. *European Polymer Journal*, **2014**, 52, 1-11	5.2	114
274	Electrical conductivity recovery in carbon nanotube–polymer composites after transient shear. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 4223-4226	1.3	114
273	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	8.4	110
272	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	8.4	110
271	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	8.6	109

270	Correlation of carbon nanotube dispersability in aqueous surfactant solutions and polymers. *Carbon*, **2009**, 47, 602-612	10.4	103
269	Structure–property relationships in polyamide 6/multi-walled carbon nanotubes nanocomposites. *Journal of Polymer Science, Part B: Polymer Physics*, **2009**, 47, 764-774	2.6	101
268	Melt Mixing of Polycarbonate with Multi-Walled Carbon Nanotubes in Miniature Mixers. *Macromolecular Materials and Engineering*, **2006**, 291, 227-238	3.9	101
267	Influences of polymer matrix melt viscosity and molecular weight on MWCNT agglomerate dispersion. *Polymer*, **2011**, 52, 1027-1036	3.9	100
266	Multicomponent blends based on polyamide 6 and styrenic polymers: morphology and melt rheology. *Polymer*, **2002**, 43, 6985-6992	3.9	98
265	Deformation processes of ultrahigh porous multiwalled carbon nanotubes/polycarbonate composite fibers prepared by electrospinning. *Polymer*, **2005**, 46, 7346-7351	3.9	98
264	The kinetics of CNT transfer between immiscible blend phases during melt mixing. *Polymer*, **2012**, 53, 411-421	3.9	95
263	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	2.6	95
262	A facile method to increase the charge storage capability of polymer nanocomposites. *Nano Energy*, **2015**, 15, 54-65	17.1	94
261	Use of carbon nanotube filled polycarbonate in blends with montmorillonite filled polypropylene. *Composites Science and Technology*, **2007**, 67, 855-860	8.6	94
260	Aspect ratio effects of multi-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	2.6	91
259	Low electrical percolation threshold in poly(ethylene terephthalate)/multi-walled carbon nanotube nanocomposites. *European Polymer Journal*, **2010**, 46, 928-936	5.2	91
258	Liquid sensing of melt-processed poly(lactic acid)/multi-walled carbon nanotube composite films. *Sensors and Actuators B: Chemical*, **2008**, 134, 787-795	8.5	91
257	Strong Strain Sensing Performance of Natural Rubber Nanocomposites. *ACS Applied Materials & Interfaces*, **2017**, 9, 4860-4872	9.5	90
256	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	3.9	89
255	Liquid sensing: smart polymer/CNT composites. *Materials Today*, **2011**, 14, 340-345	21.8	89
254	Tough-to-brittle transition in multiwalled carbon nanotube (MWNT)/polycarbonate nanocomposites. *Composites Science and Technology*, **2007**, 67, 867-879	8.6	89
253	Mechanical, thermal, and fire behavior of bisphenol a polycarbonate/multiwall carbon nanotube nanocomposites. *Polymer Engineering and Science*, **2008**, 48, 149-158	2.3	87

252	Smart cellulose/graphene composites fabricated by in situ chemical reduction of graphene oxide for multiple sensing applications. *Journal of Materials Chemistry A*, **2018**, 6, 7777-7785	13	84
251	Effects of synthesis catalyst and temperature on broadband dielectric properties of nitrogen-doped carbon nanotube/polyvinylidene fluoride nanocomposites. *Carbon*, **2016**, 106, 260-278	10.4	84
250	Melt Mixing as Method to Disperse Carbon Nanotubes into Thermoplastic Polymers. *Fullerenes Nanotubes and Carbon Nanostructures*, **2005**, 13, 211-224	1.8	83
249	Influence of the MWCNT surface functionalization on the thermoelectric properties of melt-mixed polycarbonate composites. *Composites Science and Technology*, **2014**, 101, 133-138	8.6	82
248	Strain sensing, electrical and mechanical properties of polycarbonate/multiwall carbon nanotube monofilament fibers fabricated by melt spinning. *Polymer*, **2016**, 82, 181-189	3.9	81
247	Carbon nanotube□ellulose composite aerogels for vapour sensing. *Sensors and Actuators B: Chemical*, **2015**, 213, 20-26	8.5	80
246	Piezoresistive natural rubber-multiwall carbon nanotube nanocomposite for sensor applications. *Sensors and Actuators A: Physical*, **2016**, 239, 102-113	3.9	80
245	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	2.9	80
244	Blends of Amphiphilic, Hyperbranched Polyesters and Different Polyolefins. *Macromolecules*, **1999**, 32, 6333-6339	5.5	80
243	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	8.6	77
242	Crack Toughness Behaviour of Multiwalled Carbon Nanotube (MWNT)/Polycarbonate Nanocomposites. *Macromolecular Rapid Communications*, **2005**, 26, 1246-1252	4.8	75
241	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	8.6	73
240	Spatial statistics of carbon nanotube polymer composites. *Polymer*, **2009**, 50, 2123-2132	3.9	73
239	Effect of encapsulated SWNT on the mechanical properties of melt mixed PA12/SWNT composites. *Chemical Physics Letters*, **2004**, 392, 28-33	2.5	73
238	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	3.9	72
237	The Static and Dynamic Mechanical Properties of Banana and Glass Fiber Woven Fabric-Reinforced Polyester Composite. *Journal of Composite Materials*, **2005**, 39, 1007-1025	2.7	71
236	Influence of processing conditions on the multiphase structure of segmented polyurethane. *Polymer*, **1998**, 39, 5147-5153	3.9	70
235	Nanoporous Cathodes for High-Energy Li-S Batteries from Gyroid Block Copolymer Templates. *ACS Nano*, **2015**, 9, 6147-57	16.7	69

234	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	8.6	69
233	Crystallization of poly(ε-caprolactone)/MWCNT composites: A combined SAXS/WAXS, electrical and thermal conductivity study. *Polymer*, **2014**, 55, 2220-2232	3.9	68
232	Antistatic Epoxy Coatings With Carbon Nanotubes Obtained by Cationic Photopolymerization. *Macromolecular Rapid Communications*, **2008**, 29, 396-400	4.8	68
231	Temperature Dependence of Creep Behavior of PP/MWNT Nanocomposites. *Macromolecular Rapid Communications*, **2007**, 28, 1624-1633	4.8	67
230	Process-microstructure-electrical conductivity relationships in injection-molded polypropylene/carbon nanotube nanocomposite foams. *Composites Part A: Applied Science and Manufacturing*, **2017**, 96, 28-36	8.4	66
229	Tuning the localization of functionalized MWCNTs in SAN/PC blends by a reactive component. *Composites Science and Technology*, **2011**, 72, 41-48	8.6	66
228	Reactive Compatibilization of Melt Mixed PA6/SWNT Composites: Mechanical Properties and Morphology. *Macromolecular Chemistry and Physics*, **2005**, 206, 2084-2095	2.6	66
227	Vapor sensing properties of thermoplastic polyurethane multifilament covered with carbon nanotube networks. *Sensors and Actuators B: Chemical*, **2011**, 156, 63-70	8.5	65
226	Rheology, morphology, and crystallization behavior of melt-mixed blends of polyamide6 and acrylonitrile-butadiene-styrene: Influence of reactive compatibilizer premixed with multiwall carbon nanotubes. *Journal of Applied Polymer Science*, **2007**, 106, 3394-3408	2.9	65
225	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	10.4	63
224	Bidirectional and Stretchable Piezoresistive Sensors Enabled by Multimaterial 3D Printing of Carbon Nanotube/Thermoplastic Polyurethane Nanocomposites. *Polymers*, **2018**, 11,	4.5	63
223	Multifunctional Cellulose/rGO/FeO Composite Aerogels for Electromagnetic Interference Shielding. *ACS Applied Materials & Interfaces*, **2020**, 12, 22088-22098	9.5	63
222	Influence of a cyclic butylene terephthalate oligomer on the processability and thermoelectric properties of polycarbonate/MWCNT nanocomposites. *Polymer*, **2014**, 55, 5381-5388	3.9	62
221	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	9.5	61
220	A morphological study on the dispersion and selective localization behavior of graphene nanoplatelets in immiscible polymer blends of PC and SAN. *Polymer*, **2013**, 54, 5875-5882	3.9	57
219	Single-walled carbon nanotubes/polycarbonate composites: basic electrical and mechanical properties. *Physica Status Solidi (B): Basic Research*, **2006**, 243, 3445-3451	1.3	57
218	Tuning of vapor sensing behaviors of eco-friendly conductive polymer composites utilizing ramie fiber. *Sensors and Actuators B: Chemical*, **2015**, 221, 1279-1289	8.5	56
217	Morphology and properties of blends with different thermoplastic polyurethanes and polyolefines. *Journal of Applied Polymer Science*, **1997**, 64, 749-762	2.9	56

216	Ultralow percolation threshold in polyamide 6.6/MWCNT composites. *Composites Science and Technology*, **2015**, 114, 119-125	8.6	55
215	Influence of Screw Speed on Electrical and Rheological Percolation of Melt-Mixed High-Impact Polystyrene/MWCNT Nanocomposites. *Macromolecular Materials and Engineering*, **2011**, 296, 59-69	3.9	55
214	Modification with alkyl chains and the influence on thermal and mechanical properties of aromatic hyperbranched polyesters. *Macromolecular Chemistry and Physics*, **2000**, 201, 49-57	2.6	53
213	Polymer/carbon nanotube composites for liquid sensing: Model for electrical response characteristics. *Polymer*, **2011**, 52, 2276-2285	3.9	52
212	Investigation of liquid sensing mechanism of poly(lactic acid)/multi-walled carbon nanotube composite films. *Smart Materials and Structures*, **2009**, 18, 035008	3.4	51
211	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	8.6	51
210	Cellulose-carbon nanotube composite aerogels as novel thermoelectric materials. *Composites Science and Technology*, **2018**, 163, 133-140	8.6	50
209	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	3.9	49
208	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	2.2	49
207	Structural analysis of multicomponent nanoclay-containing polymer blends through simple model systems. *Polymer*, **2008**, 49, 2119-2126	3.9	49
206	Melt mixed SWCNT-polypropylene composites with very low electrical percolation. *Polymer*, **2016**, 98, 45-50	3.9	48
205	Preparation and Rheological Characterization of Polymer Nanocomposites Based on Expanded Graphite. *Journal of Macromolecular Science - Pure and Applied Chemistry*, **2007**, 44, 591-598	2.2	48
204	A successful approach to disperse MWCNTs in polyethylene by melt mixing using polyethylene glycol as additive. *Polymer*, **2012**, 53, 3079-3083	3.9	47
203	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	3.9	47
202	Deformation and orientation during shear and elongation of a polycarbonate/carbon nanotubes composite in the melt. *Rheologica Acta*, **2007**, 46, 889-898	2.3	44
201	Liquid sensing properties of melt processed polypropylene/poly(ε-caprolactone) blends containing multiwalled carbon nanotubes. *Composites Science and Technology*, **2011**, 71, 1451-1460	8.6	43
200	All-aromatic SWCNT-Polyetherimide nanocomposites for thermal energy harvesting applications. *Composites Science and Technology*, **2018**, 156, 158-165	8.6	42
199	Influence of multiwall carbon nanotubes on the mechanical properties and unusual crystallization behavior in melt-mixed co-continuous blends of polyamide6 and acrylonitrile butadiene styrene. *Polymer Engineering and Science*, **2009**, 49, 1533-1543	2.3	42

198	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	3.9	41
197	Melt dispersion and electrospinning of non-functionalized multiwalled carbon nanotubes in thermoplastic polyurethane. *Macromolecular Rapid Communications*, **2009**, 30, 2102-6	4.8	41
196	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	3.9	41
195	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	9.5	40
194	Creep-resistant behavior of MWCNT-polycarbonate melt spun nanocomposite fibers at elevated temperature. *Polymer*, **2013**, 54, 3723-3729	3.9	40
193	Conductive network formation and destruction in polypropylene/carbon nanotube composites via crystal control using supercritical carbon dioxide. *Polymer*, **2017**, 129, 179-188	3.9	39
192	Electrically Conductive Polyetheretherketone Nanocomposite Filaments: From Production to Fused Deposition Modeling. *Polymers*, **2018**, 10,	4.5	39
191	Polymer□arbon nanotube composites **2011**,		39
190	Nucleation efficiency of fillers in polymer crystallization studied by fast scanning calorimetry: Carbon nanotubes in polypropylene. *Polymer*, **2017**, 116, 160-172	3.9	38
189	Coalescence in blends of thermoplastic polyurethane with polyolefins. *Polymer Engineering and Science*, **1999**, 39, 1022-1034	2.3	38
188	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	10	37
187	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	3.6	36
186	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	8.5	36
185	Improvement of carbon nanotube dispersion in thermoplastic composites using a three roll mill at elevated temperatures. *Composites Science and Technology*, **2013**, 74, 78-84	8.6	36
184	Polymer/carbon nanotube composites for liquid sensing: Selectivity against different solvents. *Polymer*, **2012**, 53, 2908-2918	3.9	36
183	MWNT-filled PC/ABS blends: Correlation of morphology with rheological and electrical response. *Journal of Applied Polymer Science*, **2013**, 130, 739-748	2.9	36
182	Relationships between phase morphology and deformation mechanisms in polymer nanocomposite nanofibres prepared by an electrospinning process. *Nanotechnology*, **2006**, 17, 963-72	3.4	36
181	Blends of hyperbranched poly(ether amide)s and polyamide-6. *Macromolecular Materials and Engineering*, **2000**, 280-281, 33-40	3.9	36

180	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	8.5	35
179	Experimental investigation of the morphology development of polyblends in corotating twin-screw extruders. *Journal of Applied Polymer Science*, **2000**, 76, 708-721	2.9	35
178	Blends of thermoplastic polyurethane and maleic-anhydride grafted polyethylene. I: Morphology and mechanical properties. *Polymer Engineering and Science*, **1999**, 39, 1035-1048	2.3	35
177	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	3.9	34
176	Styrene maleic anhydride copolymer mediated dispersion of single wall carbon nanotubes in polyamide 12: Crystallization behavior and morphology. *Journal of Applied Polymer Science*, **2007**, 106, 345-353	2.9	32
175	Thermal behavior and morphology of polyamide 6 based multicomponent blends. *Journal of Applied Polymer Science*, **2002**, 84, 2753-2759	2.9	31
174	Comparative study of singlewalled, multiwalled, and branched carbon nanotubes melt mixed in different thermoplastic matrices. *Polymer*, **2018**, 159, 75-85	3.9	31
173	Specific Interactions and Reactive Coupling Induced Dispersion of Multiwall Carbon Nanotubes in Co continuous Polyamide6/Ionomer Blends. *Macromolecular Symposia*, **2008**, 263, 11-20	0.8	30
172	Mechanical properties of triple composites of polycarbonate, single-walled carbon nanotubes and carbon fibres. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 40, 2434-2439	3	30
171	Preparation of PA6/nano titanium dioxide (TiO2) composites and their spinnability. *Macromolecular Symposia*, **2004**, 210, 251-261	0.8	30
170	Characterization of Highly Filled PP/Graphite Composites for Adhesive Joining in Fuel Cell Applications. *Polymers*, **2019**, 11,	4.5	29
169	Poly(lactic acid) composites with poly(lactic acid)-modified carbon nanotubes. *Journal of Polymer Science Part A*, **2013**, 51, 3740-3750	2.5	29
168	Ductile-to-Semiductile Transition in PP-MWNT Nanocomposites. *Macromolecular Rapid Communications*, **2007**, 28, 834-841	4.8	29
167	Investigation of the Orientation in Composite Fibers of Polycarbonate with Multiwalled Carbon Nanotubes by Raman Microscopy. *Macromolecular Symposia*, **2005**, 230, 167-172	0.8	29
166	Interplay of rheology and morphology in melt elongation and subsequent recovery of polystyrene/poly(methyl methacrylate) blends. *Journal of Rheology*, **2004**, 48, 1103-1122	4.1	29
165	Detection of co-continuous structures in SAN/PA6 blends by different methods. *Macromolecular Symposia*, **2003**, 198, 69-82	0.8	28
164	Binary and ternary blends of polyethylene, polypropylene, and polyamide 6,6: The effect of compatibilization on the morphology and rheology. *Journal of Applied Polymer Science*, **2004**, 94, 1976-1985	2.9	28
163	Multifilament fibres of poly(e-caprolactone)/poly(lactic acid) blends with multiwalled carbon nanotubes as sensor materials for ethyl acetate and acetone. *Sensors and Actuators B: Chemical*, **2011**, 160, 22-31	8.5	27

162	3D printed conductive thermoplastic polyurethane/carbon nanotube composites for capacitive and piezoresistive sensing in soft pneumatic actuators. *Additive Manufacturing*, **2020**, 34, 101281	6.1	26
161	Plasma functionalization of multiwalled carbon nanotube bucky papers and the effect on properties of melt-mixed composites with polycarbonate. *Macromolecular Rapid Communications*, **2009**, 30, 1828-33	4.8	26
160	Elongational Viscosity and Foaming Behavior of PP Modified by Electron Irradiation or Nanotube Addition. *Macromolecular Symposia*, **2007**, 254, 400-408	0.8	26
159	On Blends of Polyamide 6 and a Hyperbranched Aramid. *Macromolecular Materials and Engineering*, **2003**, 288, 318-325	3.9	26
158	Hyperbranched Poly(Ether Amide)s via Nucleophilic Ring Opening Reaction of Oxazolines. *High Performance Polymers*, **2001**, 13, S21-S31	1.6	26
157	Hybrid conductive filler/polycarbonate composites with enhanced electrical and thermal conductivities for bipolar plate applications. *Polymer Composites*, **2019**, 40, 3189-3198	3	26
156	Thermal Conductivity and Electrical Resistivity of Melt-Mixed Polypropylene Composites Containing Mixtures of Carbon-Based Fillers. *Polymers*, **2019**, 11,	4.5	25
155	Influence of hybrid nano-filler on the crystallization behaviour and interfacial interaction in polyamide 6 based hybrid nano-composites. *Physical Chemistry Chemical Physics*, **2015**, 17, 9410-9	3.6	25
154	Electromagnetic interference shielding effectiveness of MWCNT filled poly(ether sulfone) and poly(ether imide) nanocomposites. *Polymer Engineering and Science*, **2014**, 54, 2560-2570	2.3	24
153	Poly(propylene)/montmorillonite/polypyrrole composites: structure and conductivity. *Polymers for Advanced Technologies*, **2006**, 17, 715-726	3.2	24
152	FeO Nanoparticles Grown on Cellulose/GO Hydrogels as Advanced Catalytic Materials for the Heterogeneous Fenton-like Reaction. *ACS Omega*, **2019**, 4, 5117-5125	3.9	23
151	Synthesis of pyrene-capped polystyrene for dispersion of pristine single-walled carbon nanotubes. *Polymer International*, **2011**, 60, 1425-1433	3.3	23
150	Attenuation of electromagnetic waves by carbon nanotube composites. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 40, 2425-2429	3	23
149	Reactive melt blending of modified polyamide and polypropylene: Assessment of compatibilization by fractionated crystallization and blend morphology. *Journal of Applied Polymer Science*, **2002**, 86, 3445-3453	2.9	23
148	Investigation of the melting behavior and morphology development of polymer blends in the melting zone of twin-screw extruders. *Journal of Applied Polymer Science*, **2001**, 82, 1986-2002	2.9	23
147	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	10	22
146	Melt-Mixed PP/MWCNT Composites: Influence of CNT Incorporation Strategy and Matrix Viscosity on Filler Dispersion and Electrical Resistivity. *Polymers*, **2019**, 11,	4.5	22
145	Electrical and melt rheological characterization of PC and co-continuous PC/SAN blends filled with CNTs: Relationship between melt-mixing parameters, filler dispersion, and filler aspect ratio. *Journal of Polymer Science, Part B: Polymer Physics*, **2018**, 56, 79-88	2.6	22

144	Dispersion of carbon nanotubes into polyethylene by an additive assisted one-step melt mixing approach. *Polymer*, **2015**, 66, 210-221	3.9	22
143	High-Power All-Carbon Fully Printed and Wearable SWCNT-Based Organic Thermoelectric Generator. *ACS Applied Materials & Interfaces*, **2021**, 13, 11151-11165	9.5	22
142	Effect of Graphite Nanoplate Morphology on the Dispersion and Physical Properties of Polycarbonate Based Composites. *Materials*, **2017**, 10,	3.5	21
141	Influence of material and processing parameters on carbon nanotube dispersion in polymer melts **2011**, 92-132		21
140	Melt-mixed thermoplastic composites containing carbon nanotubes for thermoelectric applications. *AIMS Materials Science*, **2016**, 3, 1107-1116	1.9	21
139	Properties of thin layers of electrically conductive polymer/MWCNT composites prepared by spray coating. *Composites Science and Technology*, **2017**, 138, 134-143	8.6	20
138	Electrical, Morphological and Rheological Study of Melt-Mixed Polystyrene/Copper Nanowire Nanocomposites. *Macromolecular Materials and Engineering*, **2008**, 293, 631-640	3.9	20
137	Crosslinkable coupling agents: Synthesis and use for modification of interfaces in polymer blends. *Polymer*, **2005**, 46, 6563-6574	3.9	20
136	Elucidating the Chemistry behind the Reduction of Graphene Oxide Using a Green Approach with Polydopamine. *Nanomaterials*, **2019**, 9,	5.4	19
135	Percolation behavior and mehanical properties of polycarbonate composites filled with carbon black/carbon nanotube systems. *Polimery*, **2012**, 57, 204-211	3.4	19
134	Electrical conductivity of melt-spun thermoplastic poly(hydroxy ether of bisphenol A) fibres containing multi-wall carbon nanotubes. *Polymer*, **2016**, 97, 80-94	3.9	19
133	Effects of Particle Size and Surface Chemistry on the Dispersion of Graphite Nanoplates in Polypropylene Composites. *Polymers*, **2018**, 10,	4.5	18
132	Use of Single-Walled Carbon Nanotubes as Reinforcing Fillers in UV-Curable Epoxy Systems. *Macromolecular Materials and Engineering*, **2008**, 293, 708-713	3.9	18
131	Mechanical Properties and Morphology of Melt-mixed PA6/SWNT Composites: Effect of Reactive Coupling. *Macromolecular Symposia*, **2006**, 233, 161-169	0.8	17
130	Reactive polytetrafluoroethylene/polyamide compounds. I. Characterization of the compound morphology with respect to the functionality of the polytetrafluoroethylene component by microscopic and differential scanning calorimetry studies. *Journal of Applied Polymer Science*, **2005**, 98, 1308-1316	2.9	17
129	Surface modification of MWCNT and its influence on properties of paraffin/MWCNT nanocomposites as phase change material. *Journal of Applied Polymer Science*, **2020**, 137, 48428	2.9	17
128	A promising approach to low electrical percolation threshold in PMMA nanocomposites by using MWCNT-PEO predispersions. *Materials and Design*, **2016**, 111, 253-262	8.1	17
127	Thermal energy harvesting for large-scale applications using MWCNT-grafted glass fibers and polycarbonate-MWCNT nanocomposites **2015**,		16

126	Compatibilization of polymer blends with high-molecular-weight peroxides. *Journal of Applied Polymer Science*, **2005**, 96, 232-242	2.9	16
125	2-Oxazoline-Terminated Polystyrene by Atom-Transfer Radical Polymerization. *Macromolecular Chemistry and Physics*, **2001**, 202, 2148-2154	2.6	16
124	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	3	16
123	Conductivity of microfibrillar polymer-polymer composites with CNT-loaded microfibrils or compatibilizer: A comparative study. *EXPRESS Polymer Letters*, **2013**, 7, 607-620	3.4	15
122	Charakterisierung der Dispersionsgüte von Carbon Nanotubes in Polymer-Nanokompositen. *Chemie-Ingenieur-Technik*, **2011**, 83, 767-781	0.8	15
121	Morphology, conductivity, and mechanical properties of polypyrrole-containing composites. *Journal of Macromolecular Science - Physics*, **1999**, 38, 737-748	1.4	14
120	Direction Dependent Electrical Conductivity of Polymer/Carbon Filler Composites. *Polymers*, **2019**, 11,	4.5	13
119	Dispersability of multiwalled carbon nanotubes in polycarbonate-chloroform solutions. *Polymer*, **2014**, 55, 6335-6344	3.9	13
118	Localization of carbon nanotubes in polyamide 6 blends with non-reactive and reactive rubber. *Polymer*, **2014**, 55, 3062-3067	3.9	13
117	Influence of talc with different particle sizes in melt-mixed LLDPE/MWCNT composites. *Journal of Polymer Science, Part B: Polymer Physics*, **2013**, 51, 1680-1691	2.6	13
116	Structure and mechanical properties of transparent ZnO/PBDMA nanocomposites. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 2739-45	1.3	13
115	Luminescence Properties of SnO2 Nanoparticles Dispersed in Eu3+ Doped SiO2 Matrix. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 1489-1493	1.3	13
114	Polymere Nanokomposite mit anorganischen Funktionsfüllstoffen. *Chemie-Ingenieur-Technik*, **2008**, 80, 1683-1699	0.8	13
113	Thermal annealing to influence the vapor sensing behavior of co-continuous poly(lactic acid)/polystyrene/multiwalled carbon nanotube composites. *Materials and Design*, **2020**, 187, 108383	8.1	13
112	The Influence of the Blend Ratio in PA6/PA66/MWCNT Blend Composites on the Electrical and Thermal Properties. *Polymers*, **2019**, 11,	4.5	12
111	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. *Polymer Engineering and Science*, **2015**, 55, 457-465	2.3	12
110	Tuneable Dielectric Properties Derived from Nitrogen-Doped Carbon Nanotubes in PVDF-Based Nanocomposites. *ACS Omega*, **2018**, 3, 9966-9980	3.9	12
109	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	3.9	12

108	Graphene Derivatives Doped with Nickel Ferrite Nanoparticles as Excellent Microwave Absorbers in Soft Nanocomposites. *ChemistrySelect*, **2017**, 2, 5984-5999	1.8	12
107	Dispersion of graphite nanoplates in melt mixed PC/SAN polymer blends and its influence on rheological and electrical properties. *Polymer*, **2020**, 200, 122577	3.9	12
106	Electrical and vapor sensing behaviors of polycarbonate composites containing hybrid carbon fillers. *European Polymer Journal*, **2018**, 108, 461-471	5.2	12
105	Chemical reactions during reactive blending of polyurethanes: Fiction or reality?. *Macromolecular Symposia*, **1996**, 112, 151-158	0.8	11
104	Tuning the Piezoresistive Behavior of Poly(Vinylidene Fluoride)/Carbon Nanotube Composites Using Poly(Methyl Methacrylate). *ACS Applied Materials & Interfaces*, **2020**, 12, 43125-43137	9.5	11
103	Boron Doping of SWCNTs as a Way to Enhance the Thermoelectric Properties of Melt-Mixed Polypropylene/SWCNT Composites. *Energies*, **2020**, 13, 394	3.1	10
102	Achieving Electrical Conductive Tracks by Laser Treatment of non-Conductive Polypropylene/Polycarbonate Blends Filled with MWCNTs. *Macromolecular Materials and Engineering*, **2014**, 299, 869-877	3.9	10
101	Influence of peroxide addition on the morphology and properties of polypropylene multiwalled carbon nanotube nanocomposites. *Composites Science and Technology*, **2013**, 84, 78-85	8.6	10
100	Localizing compatibilizers in immiscible blends by SEM. *Polymer Testing*, **1998**, 17, 247-255	4.5	10
99	Dispersion of Carbon Nanotubes into Thermoplastic Polymers using Melt Mixing. *AIP Conference Proceedings*, **2004**,	0	10
98	Nitrogen-Doped Carbon Nanotube/Polypropylene Composites with Negative Seebeck Coefficient. *Journal of Composites Science*, **2020**, 4, 14	3	10
97	Tuning the Structure and Performance of Bulk and Porous Vapor Sensors Based on Co-continuous Carbon Nanotube-Filled Blends of Poly(vinylidene fluoride) and Polycarbonates by Varying Melt Viscosity. *ACS Applied Materials & Interfaces*, **2020**, 12, 45404-45419	9.5	10
96	Filler dispersion and electrical properties of polyamide 12/MWCNT-nanocomposites produced in reactive extrusion via anionic ring-opening polymerization. *Composites Science and Technology*, **2012**, 72, 1671-1677	8.6	9
95	Rheo-optical fourier transform infrared spectroscopy of polyurethanes and their blends with polyolefins. *Macromolecular Chemistry and Physics*, **1997**, 198, 2057-2072	2.6	9
94	Properties of Segmented Block Copolymers in PEEK/PSU Blends. *High Performance Polymers*, **2008**, 20, 601-614	1.6	9
93	Multiwalled Carbon Nanotubes Produced by a Continuous CVD Method and Their Use in Melt Mixed Composites with Polycarbonate. *Macromolecular Symposia*, **2007**, 254, 392-399	0.8	9
92	Structural effects of compatibilizer localization and effectivity in thermoplastic polyurethane/polyolefin blends. *Journal of Applied Polymer Science*, **2002**, 83, 2901-2905	2.9	9
91	Preparation and Properties of Conducting Polyolefins Composites. *Journal of Macromolecular Science - Pure and Applied Chemistry*, **1998**, 35, 1117-1126	2.2	9

90	Selective localization of carbon nanotubes and its effect on the structure and properties of polymer blends. *Progress in Polymer Science*, **2021**, 123, 101471	29.6	9
89	Electrical and thermal conductivity of polypropylene filled with combinations of carbon fillers **2016**,		9
88	Vanadium salt assisted solvothermal reduction of graphene oxide and the thermoelectric characterisation of the reduced graphene oxide in bulk and as composite. *Materials Chemistry and Physics*, **2019**, 229, 319-329	4.4	8
87	Looking back to interfacial tension prediction in the compatibilized polymer blends: Discrepancies between theories and experiments. *Journal of Applied Polymer Science*, **2018**, 135, 46144	2.9	8
86	Ethylene-vinyl Acetate Thermoplastic Copolymers Filled with Multiwall Carbon Nanotubes: Effect of Hydrothermal Ageing on Mechanical, Thermal, and Electrical Properties. *Macromolecular Materials and Engineering*, **2014**, 299, 41-50	3.9	8
85	Creation of crosslinkable interphases in polymer blends. *Macromolecular Symposia*, **2004**, 210, 165-174	0.8	8
84	Purification and Percolation Unexpected Phenomena in Nanotube Polymer Composites. *AIP Conference Proceedings*, **2005**,	0	8
83	Influence of interfacial reaction on morphology in modified PP/PS blends. *Macromolecular Symposia* , **2000**, 149, 231-236	0.8	8
82	Nuomici-Inspired Universal Strategy for Boosting Piezoresistive Sensitivity and Elasticity of Polymer Nanocomposite-Based Strain Sensors. *ACS Applied Materials & Interfaces*, **2019**, 11, 35362-35370	9.5	7
81	Organic vapor sensing behavior of polycarbonate/polystyrene/multi-walled carbon nanotube blend composites with different microstructures. *Materials and Design*, **2019**, 179, 107897	8.1	7
80	Liquid-sensing behaviors of carbon black/polypropylene and carbon nanotubes/polypropylene composites: A comparative study. *Polymer Composites*, **2015**, 36, 205-213	3	7
79	Influence of graphite and SEBS addition on thermal and electrical conductivity and mechanical properties of polypropylene composites **2017**,		7
78	Introduction to polymer arbon nanotube composites **2011**, xxi-xxvii		7
77	A STOCHASTIC SHAPE AND ORIENTATION MODEL FOR FIBRES WITH AN APPLICATION TO CARBON NANOTUBES. *Image Analysis and Stereology*, **2012**, 31, 17	1	7
76	The influence of segmented block copolymers in immiscible polymer blends. *Macromolecular Symposia*, **2000**, 149, 219-224	0.8	7
75	Radical processes for the creation of compatibilizing layers in polyolefin blends. *Macromolecular Symposia*, **2001**, 164, 377-388	0.8	7
74	Determination of particle size in multiphase blends by different methods. *Journal of Macromolecular Science - Physics*, **1999**, 38, 527-539	1.4	7
73	Wirkung von Diisocyanat als reaktiver Koppler in TPU/PA6-Blends. *Angewandte Makromolekulare Chemie*, **1993**, 206, 21-38		7

72	Messanlage zur Untersuchung des Seebeck-Effektes in Polymermaterialien. *TM Technisches Messen*, **2020**, 87, 495-503	0.7	7
71	TIME AND TEMPERATURE DEPENDENT PIEZORESISTIVE BEHAVIOR OF CONDUCTIVE ELASTOMERIC COMPOSITES. *Rubber Chemistry and Technology*, **2018**, 91, 651-667	1.7	7
70	Nonisothermal crystallization kinetic study and thermal stability of multiwalled carbon nanotube reinforced poly(phenylene sulfide) composites. *Polymer Composites*, **2017**, 38, 604-615	3	6
69	Hotmelts with improved properties by integration of carbon nanotubes. *International Journal of Adhesion and Adhesives*, **2015**, 62, 63-68	3.4	6
68	Does the Type of Polymer and Carbon Nanotube Structure Control the Electromagnetic Shielding in Melt-Mixed Polymer Nanocomposites?. *Journal of Composites Science*, **2020**, 4, 9	3	6
67	Comparison of quasistatic to impact mechanical properties of multiwall carbon nanotube/polycarbonate composites. *Journal of Materials Research*, **2010**, 25, 1118-1130	2.5	6
66	Morphology of reactive PP/PS blends with hyperbranched polymers. *Macromolecular Symposia*, **2003**, 198, 209-220	0.8	6
65	PVDF-MWNT interactions control process induced lamellar morphology and orientation in the nanocomposites. *Physical Chemistry Chemical Physics*, **2018**, 20, 24821-24831	3.6	6
64	3D printing of highly elastic strain sensors using polyurethane/multiwall carbon nanotube composites **2017**,		5
63	Melt mixed composites of polypropylene with singlewalled carbon nanotubes for thermoelectric applications: Switching from p- to n-type behavior by additive addition **2019**,		5
62	Synthesis and characterization of graphene derivatives for application in magnetic high-field induction heating **2019**,		5
61	Influence of a supplemental filler in twin-screw extruded PP/CNT composites using masterbatch dilution **2019**,		5
60	Competition effect of shear-induced nuclei and multiwalled carbon nanotubes (MWCNT) on isotactic polypropylene (iPP) formation in preshear injection-molded iPP/MWCNT nanocomposites. *Polymer Composites*, **2018**, 39, E1149-E1158	3	5
59	Polymer - Carbon nanotube composites for thermoelectric applications **2017**,		5
58	Influence of matrix crystallinity on electrical percolation of multiwalled carbon nanotubes in polypropylene **2017**,		5
57	Composites of Polycarbonate with Multiwalled Carbon Nanotubes Produced by Melt Mixing. *ACS Symposium Series*, **2005**, 148-163	0.4	5
56	Polarized FTIR photoacoustic spectroscopy on blends of thermoplastic poly(ether-urethanes) with modified polypropylenes. *Journal of Applied Polymer Science*, **2000**, 75, 1194-1204	2.9	5
55	Aerogels Based on Reduced Graphene Oxide/Cellulose Composites: Preparation and Vapour Sensing Abilities. *Nanomaterials*, **2020**, 10,	5.4	5

54	Nanocomposites with p- and n-Type Conductivity Controlled by Type and Content of Nanotubes in Thermosets for Thermoelectric Applications. *Nanomaterials*, **2020**, 10,	5.4	4
53	Quantifying the synergistic effect of dispersion state and interfacial adhesion contributions on impact strength of core shell rubber-toughened glassy polymers. *RSC Advances*, **2016**, 6, 3377-3385	3.7	4
52	Carbon nanotubes in multiphase polymer blends **2011**, 587-620		4
51	Polymer-Carbon Nanotube Composites: Melt Processing, Properties and Applications **2012**, 145-191		4
50	Melt-Mixed Blends of Carbon Nanotube-Filled Polycarbonate with Polyethylene. *ACS Symposium Series*, **2005**, 164-177	0.4	4
49	High-Performance, Lightweight, and Flexible Thermoplastic Polyurethane Nanocomposites with Zn-Substituted CoFeO Nanoparticles and Reduced Graphene Oxide as Shielding Materials against Electromagnetic Pollution. *ACS Omega*, **2021**, 6, 28098-28118	3.9	4
48	Polylactic Acid/Carbon Nanoparticle Composite Filaments for Sensing. *Applied Sciences (Switzerland)*, **2021**, 11, 2580	2.6	4
47	Development of a polymer composite with high electrical conductivity and improved impact strength for the application as bipolar plate **2016**,		4
46	Three-Dimensional Printed and Biocompatible Conductive Composites Comprised of Polyhydroxybutyrate and Multiwalled Carbon Nanotubes. *Industrial & Engineering Chemistry Research*, **2021**, 60, 885-897	3.9	4
45	Ultrathin structures derived from interfacially modified polymeric nanocomposites to curb electromagnetic pollution. *Nanoscale Advances*, **2021**, 3, 2632-2648	5.1	4
44	Improvement of electrical resistivity of highly filled graphite/PP composite based bipolar plates for fuel cells by addition of carbon black **2019**,		3
43	Extruded polycarbonate/Di-Allyl phthalate composites with ternary conductive filler system for bipolar plates of polymer electrolyte membrane fuel cells. *Smart Materials and Structures*, **2019**, 28, 064004	3.4	3
42	Effect of Filler Synergy and Cast Film Extrusion Parameters on Extrudability and Direction-Dependent Conductivity of PVDF/Carbon Nanotube/Carbon Black Composites. *Polymers*, **2020**, 12,	4.5	3
41	Lightweight Polymer-Carbon Composite Current Collector for Lithium-Ion Batteries. *Batteries*, **2020**, 6, 60	5.7	3
40	Dynamic-mechanical analysis of MWNTs-filled PC/ABS blends. *Polymer Engineering and Science*, **2014**, 54, 2696-2706	2.3	3
39	Influence of mixing conditions on carbon nanotube shortening and curling in polycarbonate composites **2017**,		3
38	Methoden zur Charakterisierung der Dispergierbarkeit und L□genanalyse von Carbon Nanotubes. *Chemie-Ingenieur-Technik*, **2012**, 84, 263-271	0.8	3
37	Investigations on Polycarbonate-Nanotube Composites. *AIP Conference Proceedings*, **2004**,	0	3

36	Influence of Reactive Compatibilization on the Morphology of Polypropylene/Polystyrene Blends. *Macromolecular Symposia*, **2004**, 214, 279-288	0.8	3
35	Synthesis of Chromophore-Labeled PP by the Borane Approach and their Application in Probing Penetration of Oligomeric PP into PP Particles. *Macromolecular Chemistry and Physics*, **2001**, 202, 313-318	1.6	3
34	Modification of PP by blending with PS and reactive polymers. *Macromolecular Symposia*, **2001**, 164, 369-376	0.8	3
33	Distribution of Carbon Nanotubes in Polycarbonate-Based Blends for Electromagnetic Interference Shielding. *ACS Applied Nano Materials*, **2022**, 5, 662-677	5.6	3
32	Electrical conductivity and piezoresistive response of 3D printed thermoplastic polyurethane/multiwalled carbon nanotube composites **2018**,		3
31	Blend Structure and n-Type Thermoelectric Performance of PA6/SAN and PA6/PMMA Blends Filled with Singlewalled Carbon Nanotubes. *Nanomaterials*, **2021**, 11,	5.4	3
30	Interfacial chemistry using a bifunctional coupling agent for enhanced electrical properties of carbon nanotube based composites. *Polymer*, **2013**, 54, 5391-5398	3.9	2
29	PP/SWCNT composites modified with ionic liquid **2017**,		2
28	Thermal conductivity of hybrid filled HDPE nanocomposites **2017**,		2
27	Melt mixing functionalized graphite nanoplates into PC/SAN blends **2017**,		2
26	Chapter 7:Characterization of Dispersability of Industrial Nanotube Materials and their Length Distribution Before and After Melt Processing. *RSC Nanoscience and Nanotechnology*, **2013**, 212-233		2
25	Quantification of dispersion and distribution of carbon nanotubes in polymer composites using microscopy techniques **2011**, 265-294		2
24	Controlling the phase morphology of immiscible poly(2,6- dimethyl-1,4-phenylene ether)/poly(styrene-co-acrylonitrile) blends via addition of polystyrene. *E-Polymers*, **2008**, 8,	2.7	2
23	Peroxide-containing compatibilizer for polypropylene blends with other polymers. *Macromolecular Symposia*, **2004**, 210, 209-217	0.8	2
22	Solvent sensitivity of smart 3D-printed nanocomposite liquid sensor **2018**,		2
21	MWCNT induced negative real permittivity in a copolyester of Bisphenol-A with terephthalic and isophthalic acids. *Materials Research Express*, **2020**, 7, 015337	1.7	2
20	Mixed Carbon Nanomaterial/Epoxy Resin for Electrically Conductive Adhesives. *Journal of Composites Science*, **2020**, 4, 105	3	2
19	Thermoelectric properties of polypropylene carbon nanofiber melt-mixed composites: exploring the role of polymer on their Seebeck coefficient. *Polymer Journal*,	2.7	2

18	A high performance flexible and robust printed thermoelectric generator based on hybridized Te nanowires with PEDOT:PSS. *Applied Energy*, **2021**, 294, 117004	10.7	2
17	Development of joining methods for highly filled graphite/PP composite based bipolar plates for fuel cells: Adhesive joining and welding **2019**,		1
16	Effect of additives on MWCNT dispersion and electrical percolation in polyamide 12 composites **2017**,		1
15	Bio-inspired deposition of electrochemically exfoliated graphene layers for electrical resistance heating applications. *Nano Express*, **2020**, 1, 030032	2	1
14	The Localization Behavior of Different CNTs in PC/SAN Blends Containing a Reactive Component. *Molecules*, **2021**, 26,	4.8	1
13	MECHANISMS OF ACTION OF ANTISTATIC AGENTS **2016**, 83-101		1
12	Melt Processed Conductive Polycarbonate Composites With Ternary Fillers Towards Bipolar Plate Applications **2018**,		1
11	Highly Tunable Piezoresistive Behavior of Carbon Nanotube-Containing Conductive Polymer Blend Composites Prepared from Two Polymers Exhibiting Crystallization-Induced Phase Separation. *ACS Applied Materials & Interfaces*, **2021**, 13, 43333-43347	9.5	1
10	Modification with alkyl chains and the influence on thermal and mechanical properties of aromatic hyperbranched polyesters **2000**, 201, 49		1
9	Thermoelectric Performance of Polypropylene/Carbon Nanotube/Ionic Liquid Composites and Its Dependence on Electron Beam Irradiation. *Journal of Composites Science*, **2022**, 6, 25	3	0
8	The Effect of Foaming on the Properties of Carbon Nanotubes/Polymer Composites **2019**, 235-254		
7	Stress Transfer and Fracture Mechanisms in Carbon Nanotube-Reinforced Polymer Nanocomposites139-172		
6	Melt Mixed Polymer-MWCNT Composites for Liquid Sensing Applications. *Materials Research Society Symposia Proceedings*, **2012**, 1410, 25		
5	Hyperbranched Polyesters and Poly(ether amide)s Synthesis, Modification, Melt Rheology and Application in Blends **2006**, 303-308		
4	Rheo-Optical FT-IR Spectroscopy of Polyurethane-polyolefine Blends During Cyclic Elongation and Recovery **1997**, 411-412		
3	Graphite modified epoxy-based adhesive for joining of aluminium and PP/graphite composites **2020**, 96, 229-252		
2	Melt mixed composites of poly(ethylene-co-methacrylic acid) ionomers and multiwall carbon nanotubes: influence of specific interactions. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 1721-7	1.3	
1	Filler Networks of Carbon Allotropes of Different Shapes and Dimensions in a Polymer Matrix. *Advances in Dielectrics*, **2022**, 291-333	0.6	