Petra Ptschke

List of Publications by Year in Descending Order

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

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	Distribution of Carbon Nanotubes in Polycarbonate-Based Blends for Electromagnetic Interference Shielding. *ACS Applied Nano Materials*, **2022**, 5, 662-677	5.6	3
322	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
321	Filler Networks of Carbon Allotropes of Different Shapes and Dimensions in a Polymer Matrix. *Advances in Dielectrics*, **2022**, 291-333	0.6	
320	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
319	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
318	Polylactic Acid/Carbon Nanoparticle Composite Filaments for Sensing. *Applied Sciences (Switzerland)*, **2021**, 11, 2580	2.6	4
317	The Localization Behavior of Different CNTs in PC/SAN Blends Containing a Reactive Component. *Molecules*, **2021**, 26,	4.8	1
316	High-Power All-Carbon Fully Printed and Wearable SWCNT-Based Organic Thermoelectric Generator. *ACS Applied Materials & Interfaces*, **2021**, 13, 11151-11165	9.5	22
315	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
314	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
313	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
312	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
311	Ultrathin structures derived from interfacially modified polymeric nanocomposites to curb electromagnetic pollution. *Nanoscale Advances*, **2021**, 3, 2632-2648	5.1	4
310	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
309	Lightweight Polymer-Carbon Composite Current Collector for Lithium-Ion Batteries. *Batteries*, **2020**, 6, 60	5.7	3
308	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
307	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

306	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
305	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
304	Messanlage zur Untersuchung des Seebeck-Effektes in Polymermaterialien. *TM Technisches Messen*, **2020**, 87, 495-503	0.7	7
303	Nitrogen-Doped Carbon Nanotube/Polypropylene Composites with Negative Seebeck Coefficient. *Journal of Composites Science*, **2020**, 4, 14	3	10
302	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
301	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
300	Bio-inspired deposition of electrochemically exfoliated graphene layers for electrical resistance heating applications. *Nano Express*, **2020**, 1, 030032	2	1
299	Graphite modified epoxy-based adhesive for joining of aluminium and PP/graphite composites **2020**, 96, 229-252		
298	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
297	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
296	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
295	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
294	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
293	Mixed Carbon Nanomaterial/Epoxy Resin for Electrically Conductive Adhesives. *Journal of Composites Science*, **2020**, 4, 105	3	2
292	Aerogels Based on Reduced Graphene Oxide/Cellulose Composites: Preparation and Vapour Sensing Abilities. *Nanomaterials*, **2020**, 10,	5.4	5
291	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
290	Multifunctional Cellulose/rGO/FeO Composite Aerogels for Electromagnetic Interference Shielding. *ACS Applied Materials & Interfaces*, **2020**, 12, 22088-22098	9.5	63
289	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

288	Development of joining methods for highly filled graphite/PP composite based bipolar plates for fuel cells: Adhesive joining and welding **2019**,		1
287	Improvement of electrical resistivity of highly filled graphite/PP composite based bipolar plates for fuel cells by addition of carbon black **2019**,		3
286	Melt mixed composites of polypropylene with singlewalled carbon nanotubes for thermoelectric applications: Switching from p- to n-type behavior by additive addition **2019**,		5
285	Elucidating the Chemistry behind the Reduction of Graphene Oxide Using a Green Approach with Polydopamine. *Nanomaterials*, **2019**, 9,	5.4	19
284	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
283	The Effect of Foaming on the Properties of Carbon Nanotubes/Polymer Composites **2019**, 235-254		
282	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
281	Characterization of Highly Filled PP/Graphite Composites for Adhesive Joining in Fuel Cell Applications. *Polymers*, **2019**, 11,	4.5	29
280	Direction Dependent Electrical Conductivity of Polymer/Carbon Filler Composites. *Polymers*, **2019**, 11,	4.5	13
279	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
278	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
277	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
276	Synthesis and characterization of graphene derivatives for application in magnetic high-field induction heating **2019**,		5
275	Influence of a supplemental filler in twin-screw extruded PP/CNT composites using masterbatch dilution **2019**,		5
274	The Influence of the Blend Ratio in PA6/PA66/MWCNT Blend Composites on the Electrical and Thermal Properties. *Polymers*, **2019**, 11,	4.5	12
273	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
272	Thermal Conductivity and Electrical Resistivity of Melt-Mixed Polypropylene Composites Containing Mixtures of Carbon-Based Fillers. *Polymers*, **2019**, 11,	4.5	25
271	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

270	Hybrid conductive filler/polycarbonate composites with enhanced electrical and thermal conductivities for bipolar plate applications. *Polymer Composites*, **2019**, 40, 3189-3198	3	26
269	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
268	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
267	All-aromatic SWCNT-Polyetherimide nanocomposites for thermal energy harvesting applications. *Composites Science and Technology*, **2018**, 156, 158-165	8.6	42
266	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
265	Cellulose-carbon nanotube composite aerogels as novel thermoelectric materials. *Composites Science and Technology*, **2018**, 163, 133-140	8.6	50
264	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
263	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
262	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
261	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
260	Effects of Particle Size and Surface Chemistry on the Dispersion of Graphite Nanoplates in Polypropylene Composites. *Polymers*, **2018**, 10,	4.5	18
259	Tuneable Dielectric Properties Derived from Nitrogen-Doped Carbon Nanotubes in PVDF-Based Nanocomposites. *ACS Omega*, **2018**, 3, 9966-9980	3.9	12
258	Electrically Conductive Polyetheretherketone Nanocomposite Filaments: From Production to Fused Deposition Modeling. *Polymers*, **2018**, 10,	4.5	39
257	Solvent sensitivity of smart 3D-printed nanocomposite liquid sensor **2018**,		2
256	Electrical conductivity and piezoresistive response of 3D printed thermoplastic polyurethane/multiwalled carbon nanotube composites **2018**,		3
255	TIME AND TEMPERATURE DEPENDENT PIEZORESISTIVE BEHAVIOR OF CONDUCTIVE ELASTOMERIC COMPOSITES. *Rubber Chemistry and Technology*, **2018**, 91, 651-667	1.7	7
254	Bidirectional and Stretchable Piezoresistive Sensors Enabled by Multimaterial 3D Printing of Carbon Nanotube/Thermoplastic Polyurethane Nanocomposites. *Polymers*, **2018**, 11,	4.5	63
253	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

252	Comparative study of singlewalled, multiwalled, and branched carbon nanotubes melt mixed in different thermoplastic matrices. *Polymer*, **2018**, 159, 75-85	3.9	31
251	Melt Processed Conductive Polycarbonate Composites With Ternary Fillers Towards Bipolar Plate Applications **2018**,		1
250	Electrical and vapor sensing behaviors of polycarbonate composites containing hybrid carbon fillers. *European Polymer Journal*, **2018**, 108, 461-471	5.2	12
249	PVDF-MWNT interactions control process induced lamellar morphology and orientation in the nanocomposites. *Physical Chemistry Chemical Physics*, **2018**, 20, 24821-24831	3.6	6
248	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
247	Nonisothermal crystallization kinetic study and thermal stability of multiwalled carbon nanotube reinforced poly(phenylene sulfide) composites. *Polymer Composites*, **2017**, 38, 604-615	3	6
246	Strong Strain Sensing Performance of Natural Rubber Nanocomposites. *ACS Applied Materials & Interfaces*, **2017**, 9, 4860-4872	9.5	90
245	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
244	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
243	3D printing of highly elastic strain sensors using polyurethane/multiwall carbon nanotube composites **2017**,		5
242	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
241	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
240	3D printed highly elastic strain sensors of multiwalled carbon nanotube/thermoplastic polyurethane nanocomposites. *Materials and Design*, **2017**, 131, 394-401	8.1	247
239	Nucleation efficiency of fillers in polymer crystallization studied by fast scanning calorimetry: Carbon nanotubes in polypropylene. *Polymer*, **2017**, 116, 160-172	3.9	38
238	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
237	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
236	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
235	Influence of graphite and SEBS addition on thermal and electrical conductivity and mechanical properties of polypropylene composites **2017**,		7

234	Graphene Derivatives Doped with Nickel Ferrite Nanoparticles as Excellent Microwave Absorbers in Soft Nanocomposites. *ChemistrySelect*, **2017**, 2, 5984-5999	1.8	12
233	Polymer - Carbon nanotube composites for thermoelectric applications **2017**,		5
232	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
231	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
230	Effect of additives on MWCNT dispersion and electrical percolation in polyamide 12 composites **2017**,		1
229	Influence of matrix crystallinity on electrical percolation of multiwalled carbon nanotubes in polypropylene **2017**,		5
228	Influence of mixing conditions on carbon nanotube shortening and curling in polycarbonate composites **2017**,		3
227	PP/SWCNT composites modified with ionic liquid **2017**,		2
226	Thermal conductivity of hybrid filled HDPE nanocomposites **2017**,		2
225	Melt mixing functionalized graphite nanoplates into PC/SAN blends **2017**,		2
224	Effect of Graphite Nanoplate Morphology on the Dispersion and Physical Properties of Polycarbonate Based Composites. *Materials*, **2017**, 10,	3.5	21
223	Melt mixed SWCNT-polypropylene composites with very low electrical percolation. *Polymer*, **2016**, 98, 45-50	3.9	48
222	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
221	Piezoresistive natural rubber-multiwall carbon nanotube nanocomposite for sensor applications. *Sensors and Actuators A: Physical*, **2016**, 239, 102-113	3.9	80
220	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
219	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
218	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
217	Melt-mixed thermoplastic composites containing carbon nanotubes for thermoelectric applications. *AIMS Materials Science*, **2016**, 3, 1107-1116	1.9	21

216	MECHANISMS OF ACTION OF ANTISTATIC AGENTS **2016**, 83-101		1
215	Development of a polymer composite with high electrical conductivity and improved impact strength for the application as bipolar plate **2016**,		4
214	Electrical and thermal conductivity of polypropylene filled with combinations of carbon fillers **2016**,		9
213	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
212	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
211	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
210	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
209	Heat transfer in microcellular polystyrene/multi-walled carbon nanotube nanocomposite foams. *Carbon*, **2015**, 93, 819-829	10.4	118
208	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
207	Hotmelts with improved properties by integration of carbon nanotubes. *International Journal of Adhesion and Adhesives*, **2015**, 62, 63-68	3.4	6
206	A facile method to increase the charge storage capability of polymer nanocomposites. *Nano Energy*, **2015**, 15, 54-65	17.1	94
205	Carbon nanotube□ellulose composite aerogels for vapour sensing. *Sensors and Actuators B: Chemical*, **2015**, 213, 20-26	8.5	80
204	Ultralow percolation threshold in polyamide 6.6/MWCNT composites. *Composites Science and Technology*, **2015**, 114, 119-125	8.6	55
203	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
202	Liquid-sensing behaviors of carbon black/polypropylene and carbon nanotubes/polypropylene composites: A comparative study. *Polymer Composites*, **2015**, 36, 205-213	3	7
201	Thermal energy harvesting for large-scale applications using MWCNT-grafted glass fibers and polycarbonate-MWCNT nanocomposites **2015**,		16
200	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
199	Dispersion of carbon nanotubes into polyethylene by an additive assisted one-step melt mixing approach. *Polymer*, **2015**, 66, 210-221	3.9	22

198	Nanoporous Cathodes for High-Energy Li-S Batteries from Gyroid Block Copolymer Templates. *ACS Nano*, **2015**, 9, 6147-57	16.7	69
197	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
196	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
195	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
194	Achieving β-phase poly(vinylidene fluoride) from melt cooling: Effect of surface functionalized carbon nanotubes. *Polymer*, **2014**, 55, 611-619	3.9	116
193	Dispersability of multiwalled carbon nanotubes in polycarbonate-chloroform solutions. *Polymer*, **2014**, 55, 6335-6344	3.9	13
192	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
191	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
190	Crystallization of poly(ε-caprolactone)/MWCNT composites: A combined SAXS/WAXS, electrical and thermal conductivity study. *Polymer*, **2014**, 55, 2220-2232	3.9	68
189	Localization of carbon nanotubes in polyamide 6 blends with non-reactive and reactive rubber. *Polymer*, **2014**, 55, 3062-3067	3.9	13
188	Kinetics of nucleation and crystallization of poly(ε-caprolactone) □Multiwalled carbon nanotube composites. *European Polymer Journal*, **2014**, 52, 1-11	5.2	114
187	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
186	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
185	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
184	Dynamic-mechanical analysis of MWNTs-filled PC/ABS blends. *Polymer Engineering and Science*, **2014**, 54, 2696-2706	2.3	3
183	Poly(lactic acid) composites with poly(lactic acid)-modified carbon nanotubes. *Journal of Polymer Science Part A*, **2013**, 51, 3740-3750	2.5	29
182	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
181	Interfacial chemistry using a bifunctional coupling agent for enhanced electrical properties of carbon nanotube based composites. *Polymer*, **2013**, 54, 5391-5398	3.9	2

180	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
179	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
178	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
177	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
176	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
175	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
174	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
173	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
172	Creep-resistant behavior of MWCNT-polycarbonate melt spun nanocomposite fibers at elevated temperature. *Polymer*, **2013**, 54, 3723-3729	3.9	40
171	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
170	Establishment, morphology and properties of carbon nanotube networks in polymer melts. *Polymer* , **2012**, 53, 4-28	3.9	412
169	The kinetics of CNT transfer between immiscible blend phases during melt mixing. *Polymer*, **2012**, 53, 411-421	3.9	95
168	The influence of matrix viscosity on MWCNT dispersion and electrical properties in different thermoplastic nanocomposites. *Polymer*, **2012**, 53, 495-504	3.9	187
167	Polymer/carbon nanotube composites for liquid sensing: Selectivity against different solvents. *Polymer*, **2012**, 53, 2908-2918	3.9	36
166	A successful approach to disperse MWCNTs in polyethylene by melt mixing using polyethylene glycol as additive. *Polymer*, **2012**, 53, 3079-3083	3.9	47
165	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
164	Methoden zur Charakterisierung der Dispergierbarkeit und Lgenanalyse von Carbon Nanotubes. *Chemie-Ingenieur-Technik*, **2012**, 84, 263-271	0.8	3
163	Melt Mixed Polymer-MWCNT Composites for Liquid Sensing Applications. *Materials Research Society Symposia Proceedings*, **2012**, 1410, 25		

162	A STOCHASTIC SHAPE AND ORIENTATION MODEL FOR FIBRES WITH AN APPLICATION TO CARBON NANOTUBES. *Image Analysis and Stereology*, **2012**, 31, 17	1	7
161	Polymer-Carbon Nanotube Composites: Melt Processing, Properties and Applications **2012**, 145-191		4
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