

# Uttandaraman Sundararaj

## List of Publications by Citations

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204  
papers

11,620  
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50  
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215  
ext. papers

13,192  
ext. citations

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avg, IF

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#	Paper	IF	Citations
204	Electromagnetic interference shielding mechanisms of CNT/polymer composites. <i>Carbon</i> , <b>2009</b> , 47, 1738-1746	4.2	1037
203	Big returns from small fibers: A review of polymer/carbon nanotube composites. <i>Polymer Composites</i> , <b>2004</b> , 25, 630-645	1.2	1011
202	A review of vapor grown carbon nanofiber/polymer conductive composites. <i>Carbon</i> , <b>2009</b> , 47, 2-22	4.2	853
201	Drop Breakup and Coalescence in Polymer Blends: The Effects of Concentration and Compatibilization. <i>Macromolecules</i> , <b>1995</b> , 28, 2647-2657	1.6	716
200	EMI shielding effectiveness of carbon based nanostructured polymeric materials: A comparative study. <i>Carbon</i> , <b>2013</b> , 60, 146-156	4.2	605
199	Comparative study of electromagnetic interference shielding properties of injection molded versus compression molded multi-walled carbon nanotube/polystyrene composites. <i>Carbon</i> , <b>2012</b> , 50, 5126-5134	4.2	336
198	Review of the mechanical properties of carbon nanofiber/polymer composites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2011</b> , 42, 2126-2142	3.2	306
197	Electrical and electromagnetic interference shielding properties of flow-induced oriented carbon nanotubes in polycarbonate. <i>Carbon</i> , <b>2011</b> , 49, 3430-3440	4.2	302
196	The electrical conductivity and electromagnetic interference shielding of injection molded multi-walled carbon nanotube/polystyrene composites. <i>Carbon</i> , <b>2012</b> , 50, 1455-1464	4.2	247
195	Segregated Hybrid Poly(methyl methacrylate)/Graphene/Magnetite Nanocomposites for Electromagnetic Interference Shielding. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 14171-14179	3.1	222
194	Highly electrically conductive and high performance EMI shielding nanowire/polymer nanocomposites by miscible mixing and precipitation. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 829-836		216
193	Morphology development in polymer blends. <i>Polymer Engineering and Science</i> , <b>1992</b> , 32, 1814-1823	0.8	183
192	Copper nanowire/polystyrene nanocomposites: Lower percolation threshold and higher EMI shielding. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2011</b> , 42, 92-97	3.2	171
191	Effect of synthesis catalyst on structure of nitrogen-doped carbon nanotubes and electrical conductivity and electromagnetic interference shielding of their polymeric nanocomposites. <i>Carbon</i> , <b>2016</b> , 98, 358-372	4.2	166
190	Low Electrical Percolation Threshold of Silver and Copper Nanowires in Polystyrene Composites. <i>Advanced Functional Materials</i> , <b>2006</b> , 16, 2423-2430	5.4	154
189	An innovative method to reduce percolation threshold of carbon black filled immiscible polymer blends. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2008</b> , 39, 284-293	3.2	130
188	Novel composites of copper nanowire/PVDF with superior dielectric properties. <i>Polymer</i> , <b>2014</b> , 55, 226-234		125

187	Electromagnetic Interference (EMI) Shielding Effectiveness of PP/PS Polymer Blends Containing High Structure Carbon Black. <i>Macromolecular Materials and Engineering</i> , <b>2008</b> , 293, 621-630	1.2	120
186	X-band EMI shielding mechanisms and shielding effectiveness of high structure carbon black/polypropylene composites. <i>Journal Physics D: Applied Physics</i> , <b>2013</b> , 46, 035304	1	117
185	Sheet formation in immiscible polymer blends: model experiments on initial blend morphology. <i>Polymer</i> , <b>1995</b> , 36, 1957-1968	1.5	102
184	Melt Mixing of Polycarbonate with Multi-Walled Carbon Nanotubes in Miniature Mixers. <i>Macromolecular Materials and Engineering</i> , <b>2006</b> , 291, 227-238	1.2	101
183	Inferential sensors for estimation of polymer quality parameters: Industrial application of a PLS-based soft sensor for a LDPE plant. <i>Chemical Engineering Science</i> , <b>2006</b> , 61, 6372-6384	1.9	98
182	Three-dimensional printing of highly conductive polymer nanocomposites for EMI shielding applications. <i>Materials Today Communications</i> , <b>2017</b> , 11, 112-118	0.8	97
181	The effect of temperature on the morphology and chemical surface properties of nitrogen-doped carbon nanotubes. <i>Carbon</i> , <b>2014</b> , 68, 369-379	4.2	90
180	Tunneling Conductivity and Piezoresistivity of Composites Containing Randomly Dispersed Conductive Nano-Platelets. <i>Materials</i> , <b>2014</b> , 7, 2501-2521	1.4	89
179	Effects of synthesis catalyst and temperature on broadband dielectric properties of nitrogen-doped carbon nanotube/polyvinylidene fluoride nanocomposites. <i>Carbon</i> , <b>2016</b> , 106, 260-278	4.2	84
178	Evidence for inversion of phase continuity during morphology development in polymer blending. <i>Polymer Engineering and Science</i> , <b>1996</b> , 36, 1769-1781	0.8	81
177	Carbon nanotube induced double percolation in polymer blends: Morphology, rheology and broadband dielectric properties. <i>Polymer</i> , <b>2017</b> , 114, 122-134	1.5	80
176	High Dielectric Constant and Low Dielectric Loss via Poly(vinyl alcohol)/TiCT MXene Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 18599-18608	3.1	78
175	Boron/nitrogen co-doped helically unzipped multiwalled carbon nanotubes as efficient electrocatalyst for oxygen reduction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 7786-94	3.1	77
174	Prediction of dispersed phase drop diameter in polymer blends: The effect of elasticity. <i>Polymer Engineering and Science</i> , <b>1996</b> , 36, 1656-1665	0.8	70
173	Thermal, Rheological, and Mechanical Behaviors of LLDPE/PEMA/Clay Nanocomposites: Effect of Interaction Between Polymer, Compatibilizer, and Nanofiller. <i>Macromolecular Materials and Engineering</i> , <b>2006</b> , 291, 697-706	1.2	69
172	Direct 3D Printing of Hybrid Nanofiber-Based Nanocomposites for Highly Conductive and Shape Memory Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 24523-24532	3.1	66
171	Outstanding electromagnetic interference shielding of silver nanowires: comparison with carbon nanotubes. <i>RSC Advances</i> , <b>2015</b> , 5, 56590-56598	1.3	66
170	Silver Nanowire/MnO Nanowire Hybrid Polymer Nanocomposites: Materials with High Dielectric Permittivity and Low Dielectric Loss. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 14328-14336	3.1	65

169	Milligrams to kilograms: An evaluation of mixers for reactive polymer blending. <i>Polymer Engineering and Science</i> , <b>1995</b> , 35, 100-114	0.8	65
168	Silane functionalization of sodium montmorillonite nanoclay and its effect on rheological and mechanical properties of HDPE/clay nanocomposites. <i>Applied Clay Science</i> , <b>2017</b> , 146, 439-448	2.3	62
167	Processing-microstructure-property relationship in conductive polymer nanocomposites. <i>Polymer</i> , <b>2010</b> , 51, 2740-2747	1.5	61
166	Electromagnetic interference shielding of Nitrogen-doped and Undoped carbon nanotube/polyvinylidene fluoride nanocomposites: A comparative study. <i>Composites Science and Technology</i> , <b>2015</b> , 118, 257-263	3.4	60
165	Improved synthesis of TiCT MXenes resulting in exceptional electrical conductivity, high synthesis yield, and enhanced capacitance. <i>Nanoscale</i> , <b>2021</b> , 13, 3572-3580	2.4	59
164	Significance of interfacial interaction and agglomerates on electrical properties of polymer-carbon nanotube nanocomposites. <i>Materials and Design</i> , <b>2017</b> , 125, 126-134	3	57
163	Nitrogen/sulfur co-doped helical graphene nanoribbons for efficient oxygen reduction in alkaline and acidic electrolytes. <i>Carbon</i> , <b>2016</b> , 100, 99-108	4.2	55
162	An innovative method to reduce the energy loss of conductive filler/polymer composites for charge storage applications. <i>Composites Science and Technology</i> , <b>2013</b> , 78, 24-29	3.4	55
161	Helical and Dendritic Unzipping of Carbon Nanotubes: A Route to Nitrogen-Doped Graphene Nanoribbons. <i>ACS Nano</i> , <b>2015</b> , 9, 5833-45	5.6	54
160	Effect of Nanofiller Geometry on Network Formation in Polymeric Nanocomposites: Comparison of Rheological and Electrical Properties of Multiwalled Carbon Nanotube and Graphene Nanoribbon. <i>Macromolecules</i> , <b>2017</b> , 50, 3954-3967	1.6	53
159	Nanostructured carbon black filled polypropylene/polystyrene blends containing styrene-butadiene-styrene copolymer: Influence of morphology on electrical resistivity. <i>European Polymer Journal</i> , <b>2008</b> , 44, 1931-1939	2.1	53
158	Carbon Nanotube/Graphene Nanoribbon/Polyvinylidene Fluoride Hybrid Nanocomposites: Rheological and Dielectric Properties. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 169-181	1.2	52
157	Synergistic effect of hybrid stainless steel fiber and carbon nanotube on mechanical properties and electromagnetic interference shielding of polypropylene nanocomposites. <i>Composites Part B: Engineering</i> , <b>2019</b> , 165, 662-670	4.9	52
156	Effects of Nitrogen Doping on X-band Dielectric Properties of Carbon Nanotube/Polymer Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 17844-50	3.1	51
155	Electrical, Rheological, and Mechanical Properties of Polystyrene/Copper Nanowire Nanocomposites. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 2481-2487	1.6	51
154	Enhancing absorption dominated microwave shielding in Co@C-PVDF nanocomposites through improved magnetization and graphitization of the Co@C-nanoparticles. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 15595-15608	1.1	48
153	Electrostatically Dissipative Polystyrene Nanocomposites containing Copper Nanowires. <i>Macromolecular Rapid Communications</i> , <b>2005</b> , 26, 1677-1681	1.4	46
152	Effect of morphology and role of conductivity of embedded metallic nanoparticles on electromagnetic interference shielding of PVDF-carbonaceous-nanofiller composites. <i>Carbon</i> , <b>2020</b> , 164, 357-368	4.2	45

151	Microstructure, electrical, and electromagnetic interference shielding properties of carbon nanotube/acrylonitrileButadieneStyrene nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2012</b> , 50, 1356-1362	2.6	42
150	Molecular dynamics and thermal analysis study of anomalous thermodynamic behavior of poly (ether imide)/polycarbonate blends. <i>Polymer</i> , <b>2003</b> , 44, 1979-1986	1.5	41
149	Carbon nanofiber/polyethylene nanocomposite: Processing behavior, microstructure and electrical properties. <i>Materials &amp; Design</i> , <b>2013</b> , 52, 128-133		40
148	Silane functionalization of sodium montmorillonite nanoclay: The effect of dispersing media on intercalation and chemical grafting. <i>Applied Clay Science</i> , <b>2018</b> , 153, 228-238	2.3	38
147	The design and performance of a new miniature mixer for specialty polymer blends and nanocomposites. <i>Polymer Engineering and Science</i> , <b>2004</b> , 44, 868-879	0.8	38
146	Application of nonlinear rheology to assess the effect of secondary nanofiller on network structure of hybrid polymer nanocomposites. <i>Physics of Fluids</i> , <b>2018</b> , 30, 023102	1.5	37
145	Employing Nitrogen Doping as Innovative Technique to Improve Broadband Dielectric Properties of Carbon Nanotube/Polymer Nanocomposites. <i>Macromolecular Materials and Engineering</i> , <b>2016</b> , 301, 555-565	1.2	37
144	Impact of synthesis temperature on morphology, rheology and electromagnetic interference shielding of CVD-grown carbon nanotube/polyvinylidene fluoride nanocomposites. <i>Synthetic Metals</i> , <b>2017</b> , 230, 39-50	1.7	36
143	Erosion and breakup of polymer drops under simple shear in high viscosity ratio systems. <i>Polymer Engineering and Science</i> , <b>2003</b> , 43, 891-904	0.8	36
142	Electrical Permittivity and Electrical Conductivity of Multiwall Carbon Nanotube-Polyaniline (MWCNT-PANI) Core-Shell Nanofibers and MWCNT-PANI/polystyrene Composites. <i>Macromolecular Materials and Engineering</i> , <b>2014</b> , 299, 1013-1020	1.2	35
141	Effect of Processing Techniques on EMI SE of Immiscible PS/PMMA Blends Containing MWCNT: Enhanced Intertube and Interphase Scattering. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 11576-11584	1.6	34
140	Synthesis of a high-temperature stable electrochemically exfoliated graphene. <i>Carbon</i> , <b>2020</b> , 157, 681-692	2.2	34
139	Enhanced Dielectric Performance of Polymer Nanocomposites Based on CNT/MnO <sub>2</sub> Nanowire Hybrid Nanostructure. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 8327-8334	1.2	33
138	Tunable electrical conductivity of polystyrene/polyamide-6/carbon nanotube blend nanocomposites via control of morphology and nanofiller localization. <i>European Polymer Journal</i> , <b>2017</b> , 95, 418-429	2.1	33
137	Mode-I interlaminar fracture behaviour of nanoparticle modified epoxy/basalt fibre-reinforced laminates. <i>Polymer Testing</i> , <b>2013</b> , 32, 402-412	1.7	32
136	Microstructure and mechanical properties of epoxy hybrid nanocomposites modified with acrylic tri-block-copolymer and layered-silicate nanoclay. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2012</b> , 43, 945-954	3.2	32
135	Broadband dielectric properties of multiwalled carbon nanotube/polystyrene composites. <i>Polymer Engineering and Science</i> , <b>2015</b> , 55, 173-179	0.8	31
134	Synergic effect in electrical conductivity using a combination of two fillers in PVDF hybrids composites. <i>European Polymer Journal</i> , <b>2013</b> , 49, 3318-3327	2.1	31

133	Electrified single-walled carbon nanotube/epoxy nanocomposite via vacuum shock technique: Effect of alignment on electrical conductivity and electromagnetic interference shielding. <i>Polymer Composites</i> , <b>2018</b> , 39, E1139-E1148	1.2	30
132	Impact of BaTiO <sub>3</sub> as insulative ferroelectric barrier on the broadband dielectric properties of MWCNT/PVDF nanocomposites. <i>Polymer Composites</i> , <b>2016</b> , 37, 299-304	1.2	29
131	Rheology of fumed silica nanoparticles/partially hydrolyzed polyacrylamide aqueous solutions under small and large amplitude oscillatory shear deformations. <i>Journal of Rheology</i> , <b>2018</b> , 62, 1197-1216 <sup>2</sup>	1.2	29
130	Electrically conductive carbon nanofiber/polyethylene composite: effect of melt mixing conditions. <i>Polymers for Advanced Technologies</i> , <b>2011</b> , 22, 246-253	1.1	29
129	Prevention of network destruction of partially hydrolyzed polyacrylamide (HPAM): Effects of salt, temperature, and fumed silica nanoparticles. <i>Physics of Fluids</i> , <b>2019</b> , 31, 013104	1.5	29
128	Heavy oil recovery by surface modified silica nanoparticle/HPAM nanofluids. <i>Fuel</i> , <b>2019</b> , 252, 622-634	3.2	28
127	Electrical conductivity of electrospun nanofiber mats of polyamide 6/polyaniline coated with nitrogen-doped carbon nanotubes. <i>Materials and Design</i> , <b>2018</b> , 141, 333-341	3	28
126	Electrical properties of in situ polymerized polystyrene/polyaniline composites: The effect of feeding ratio. <i>Synthetic Metals</i> , <b>2012</b> , 162, 1177-1183	1.7	28
125	Dielectric properties of multiwalled carbon nanotube/clay/polyvinylidene fluoride nanocomposites: Effect of clay incorporation. <i>Polymer Composites</i> , <b>2016</b> , 37, 161-167	1.2	27
124	Ultrasound-assisted synthesis and characterization of magnetite nanoparticles and poly(methyl methacrylate)/magnetite nanocomposites. <i>Ultrasonics Sonochemistry</i> , <b>2018</b> , 43, 38-51	3	27
123	Structural Characterization of CVD Custom-Synthesized Carbon Nanotube/Polymer Nanocomposites in Large-Amplitude Oscillatory Shear (LAOS) Mode: Effect of Dispersion Characteristics in Confined Geometries. <i>Macromolecules</i> , <b>2019</b> , 52, 1489-1504	1.6	26
122	The effects of catalyst on the morphology and physicochemical properties of nitrogen-doped carbon nanotubes. <i>Materials Letters</i> , <b>2014</b> , 116, 289-292	1.1	26
121	Cobalt Catalyst Grown Carbon Nanotube/Poly(Vinylidene Fluoride) Nanocomposites: Effect of Synthesis Temperature on Morphology, Electrical Conductivity and Electromagnetic Interference Shielding. <i>ChemistrySelect</i> , <b>2017</b> , 2, 10271-10284	0.6	26
120	Morphology and mechanical properties of nanostructured acrylic tri-block-copolymer modified epoxy. <i>Polymer Engineering and Science</i> , <b>2014</b> , 54, 1047-1055	0.8	26
119	Filler-Free Conducting Polymers as a New Class of Transparent Electromagnetic Interference Shields. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 28596-28606	3.1	25
118	Coaxial electrospun nanofibers of poly(vinylidene fluoride)/polyaniline filled with multi-walled carbon nanotubes. <i>Polymer Composites</i> , <b>2014</b> , 35, 1198-1203	1.2	25
117	Silver-coated copper nanowires with improved anti-oxidation property as conductive fillers in low-density polyethylene. <i>Canadian Journal of Chemical Engineering</i> , <b>2013</b> , 91, 630-637	0.8	25
116	Impact of foaming on the broadband dielectric properties of multi-walled carbon nanotube/polystyrene composites. <i>Journal of Cellular Plastics</i> , <b>2014</b> , 50, 551-562	0.7	25

115	Nanocomposites of ethylene-vinyl acetate copolymer (EVA) and organoclay prepared by twin-screw melt extrusion. <i>Polymer Composites</i> , <b>2004</b> , 25, 535-542	1.2	25
114	Electrical and rheological percolation of polymer nanocomposites prepared with functionalized copper nanowires. <i>Nanotechnology</i> , <b>2008</b> , 19, 215712	1.2	24
113	Effect of Premade Compatibilizer and Reactive Polymers on Polystyrene Drop Deformation and Breakup in Simple Shear. <i>Macromolecules</i> , <b>2005</b> , 38, 5609-5616	1.6	24
112	Application of graphene oxide nanosheets and HPAM aqueous dispersion for improving heavy oil recovery: Effect of localized functionalization. <i>Fuel</i> , <b>2020</b> , 265, 116918	3.2	24
111	Effect of carbon nanotubes on electromagnetic interference shielding of carbon fiber reinforced polymer composites. <i>Polymer Composites</i> , <b>2018</b> , 39, E655-E663	1.2	23
110	Tuning the curing behavior of fluoroelastomer (FKM) by incorporation of nitrogen doped graphene nanoribbons (CNx-GNRs). <i>Polymer</i> , <b>2014</b> , 55, 6293-6302	1.5	23
109	Tuning the Network Structure of Graphene/Epoxy Nanocomposites by Controlling Edge/Basal Localization of Functional Groups. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 21431-21440	1.6	21
108	Effect of Nanocomposite Structures on Fracture Behavior of Epoxy-Clay Nanocomposites Prepared by Different Dispersion Methods. <i>Journal of Nanomaterials</i> , <b>2014</b> , 2014, 1-12	1.2	21
107	Nonlinear viscoelastic characterization of charged cellulose nanocrystal network structure in the presence of salt in aqueous media. <i>Cellulose</i> , <b>2020</b> , 27, 5729-5743	2.1	21
106	Morphology Development of Polymer Blends in Extruder: The Effects of Compatibilization and Rotation Rate. <i>Macromolecular Chemistry and Physics</i> , <b>2009</b> , 210, 852-863	0.8	20
105	Electrical, Morphological and Rheological Study of Melt-Mixed Polystyrene/Copper Nanowire Nanocomposites. <i>Macromolecular Materials and Engineering</i> , <b>2008</b> , 293, 631-640	1.2	20
104	Tailoring MWCNT Dispersion, Blend Morphology and EMI Shielding Properties by Sequential Mixing Strategy in Immiscible PS/PVDF Blends. <i>Journal of Electronic Materials</i> , <b>2020</b> , 49, 1588-1600	0.7	20
103	The key role of processing in tuning nonlinear viscoelastic properties and microwave absorption in CNT-based polymer nanocomposites. <i>Materials Today Communications</i> , <b>2020</b> , 24, 101010	0.8	19
102	Controlling Short-Range Interactions by Tuning Surface Chemistry in HDPE/Graphene Nanoribbon Nanocomposites. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 11867-78	1	19
101	Nylon 66/clay nanocomposite structure development in a twin screw extruder. <i>Polymer Engineering and Science</i> , <b>2009</b> , 49, 824-834	0.8	19
100	Parallel Breakup of Polymer Drops under Simple Shear. <i>Macromolecular Rapid Communications</i> , <b>2003</b> , 24, 783-788	1.4	19
99	Morphological, electrical and electromagnetic interference shielding characterization of vapor grown carbon nanofiber/polystyrene nanocomposites. <i>Polymer International</i> , <b>2013</b> , 62, 601-607	1.1	18
98	Polymeric-nanofluids stabilized emulsions: Interfacial versus bulk rheology. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 576, 252-263	3.9	18

97	Viscoelastic properties of poly (vinyl alcohol) hydrogels with cellulose nanocrystals fabricated through sodium chloride addition: Rheological evidence of double network formation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 609, 125577	2	18
96	Carbon Nanotube versus Graphene Nanoribbon: Impact of Nanofiller Geometry on Electromagnetic Interference Shielding of Polyvinylidene Fluoride Nanocomposites. <i>Polymers</i> , <b>2019</b> , 11,	1.8	17
95	In situ chemical polymerization of conducting polymer nanocomposites: Effect of DNA-functionalized carbon nanotubes and nitrogen-doped graphene as catalytic molecular templates. <i>Chemical Engineering Journal</i> , <b>2020</b> , 389, 124500	5.9	17
94	Critical insights into understanding the effects of synthesis temperature and nitrogen doping towards charge storage capability and microwave shielding in nitrogen-doped carbon nanotube/polymer nanocomposites. <i>RSC Advances</i> , <b>2016</b> , 6, 63224-63234	1.3	17
93	Mechanical properties of carbon black-filled polypropylene/polystyrene blends containing styrene-butadiene-styrene copolymer. <i>Polymer Engineering and Science</i> , <b>2009</b> , 49, 693-702	0.8	17
92	Investigation of the Melting Mechanism in a Twin-Screw Extruder Using a Pulse Method and Online Measurement. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2004</b> , 43, 6822-6831	1.6	17
91	Bio-based UV curable polyurethane acrylate: Morphology and shape memory behaviors. <i>European Polymer Journal</i> , <b>2019</b> , 118, 514-527	2.1	16
90	Enhanced Sensitivity of Dopamine Biosensors: An Electrochemical Approach Based on Nanocomposite Electrodes Comprising Polyaniline, Nitrogen-Doped Graphene, and DNA-Functionalized Carbon Nanotubes. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, B1415-B1425	1.3	16
89	Current-voltage characteristics of nanoplatelet-based conductive nanocomposites. <i>Nanoscale Research Letters</i> , <b>2014</b> , 9, 369	2.3	16
88	Effect of Temperature on Electrical Resistivity of Carbon Nanotubes and Graphene Nanoplatelets Nanocomposites. <i>Journal of Nanotechnology in Engineering and Medicine</i> , <b>2014</b> , 5,		16
87	Modification of Montmorillonite with Alkyl Silanes and Fluorosurfactant for Clay/fluoroelastomer (FKM) Nanocomposites. <i>Clays and Clay Minerals</i> , <b>2015</b> , 63, 1-14	0.6	15
86	Highly Sensitive and Stretchable Carbon Nanotube/Fluoroelastomer Nanocomposite with a Double-Percolated Network for Wearable Electronics. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 1901067	2	15
85	Effect of clay surfactant type and clay content on the rheology and morphology of uncured fluoroelastomer/clay nanocomposites prepared by melt-mixing. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 112, 3597-3604	1	15
84	Co-Doped Electrochemically Exfoliated Graphene/Polymer Nanocomposites with High Dielectric Constant and Low Dielectric Loss for Flexible Dielectrics and Charge Storage. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 4512-4521	2.1	14
83	Modeling of polymer melting, drop deformation, and breakup under shear flow. <i>Polymer Engineering and Science</i> , <b>2004</b> , 44, 1258-1266	0.8	14
82	Study of matrix micro-cracking in nano clay and acrylic tri-block-copolymer modified epoxy/basalt fiber-reinforced pressure-retaining structures. <i>EXPRESS Polymer Letters</i> , <b>2011</b> , 5, 882-896	1.2	14
81	Dual functionality of hierarchical hybrid networks of multiwall carbon nanotubes anchored magnetite particles in soft polymer nanocomposites: Simultaneous enhancement in charge storage and microwave absorption. <i>Composites Science and Technology</i> , <b>2019</b> , 183, 107802	3.4	13
80	Interface Bridging of Multiwalled Carbon Nanotubes in Polylactic Acid/Poly(butylene adipate-co-terephthalate): Morphology, Rheology, and Electrical Conductivity. <i>Macromolecules</i> , <b>2020</b> , 53, 10267-10277	1.6	13



79	Effect of mixing protocol on compatibilized polymer blend morphology. <i>Polymer Engineering and Science</i> , <b>2006</b> , 46, 691-702	0.8	13
78	Sheet formation during drop deformation and breakup in polyethylene/polycarbonate systems sheared between parallel plates. <i>Polymer</i> , <b>2004</b> , 45, 7605-7613	1.5	13
77	Inversion of phase continuity during polymer-polymer blending: Effect of processing parameters. <i>Macromolecular Symposia</i> , <b>1996</b> , 112, 85-89	0.2	13
76	Pre-exfoliated nanoclay through two consecutive reaction systems: Silane functionalization followed by grafting of amino acid monomers. <i>Applied Clay Science</i> , <b>2018</b> , 151, 81-91	2.3	13
75	Tuneable Dielectric Properties Derived from Nitrogen-Doped Carbon Nanotubes in PVDF-Based Nanocomposites. <i>ACS Omega</i> , <b>2018</b> , 3, 9966-9980	1.4	12
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