

Vikas Mittal

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.

266
papers

3,552
citations

31
h-index

53
g-index

292
ext. papers

4,003
ext. citations

3.4
avg, IF

6.1
L-index

#	Paper	IF	Citations
266	Silver-sepiolite (Ag-Sep) hybrid reinforced active gelatin/date waste extract (DSWE) blend composite films for food packaging application. <i>Food Chemistry</i> , 2022 , 369, 130983	8.5	3
265	Recent progress on synthetic strategies and applications of transition metal phosphides in energy storage and conversion. <i>Ceramics International</i> , 2021 , 47, 4404-4425	5.1	47
264	Recent Trends in the Use of Three-Dimensional Graphene Structures for Supercapacitors. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 574-596	4	6
263	Effect of date fruit waste extract as an antioxidant additive on the properties of active gelatin films. <i>Food Chemistry</i> , 2021 , 355, 129631	8.5	14
262	Natural antioxidants-based edible active food packaging: An overview of current advancements. <i>Food Bioscience</i> , 2021 , 43, 101251	4.9	13
261	Polypropylene/phosphazene nanotube nanocomposites: Thermal, mechanical, and flame retardation studies. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49525	2.9	4
260	UV Aging Behavior of Functionalized Mullite Nanofiber-Reinforced Polypropylene. <i>ACS Omega</i> , 2020 , 5, 27083-27093	3.9	3
259	Two-dimensional mullite nanostructure: Synthesis and reinforcement effect on polypropylene/maleic anhydride graft ethylene vinyl acetate matrix. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 48233	2.9	3
258	Polymer composites with functionalized natural fibers 2018 , 157-186		14
257	Effect of Graphene on Polypropylene/Maleic Anhydride-graft-Ethylene Vinyl Acetate (PP/EVA-g-MA) Blend: Mechanical, Thermal, Morphological, and Rheological Properties. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 7834-7845	3.9	20
256	Biodegradation properties of melt processed PBS/chitosan bio-nanocomposites with silica, silicate, and thermally reduced graphene. <i>Polymer Composites</i> , 2018 , 39, 386-397	3	6
255	Binary Cu/ZnO decorated graphene nanocomposites as an efficient anode for lithium ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 59, 108-114	6.3	15
254	Cu- and Zr-based metal organic frameworks and their composites with graphene oxide for capture of acid gases at ambient temperature. <i>Journal of Solid State Chemistry</i> , 2018 , 266, 233-243	3.3	42
253	Magnesium Aluminium Layered Double Hydroxide Assisted Dispersion of Multiwalled Carbon Nanotubes for Enhanced Reinforcement of Ethylene-co-Vinyl Acetate Matrix. <i>Macromolecular Research</i> , 2018 , 26, 868-871	1.9	4
252	Ethylene-co-Vinyl Acetate/MWCNTs/Hectorite Elastomeric Nanocomposites: Characterization and Electrical Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 4057-4064	1.3	5
251	Characteristics of biodegradable poly(butylene succinate) nanocomposites with thermally reduced graphene nanosheets. <i>Polymer Composites</i> , 2017 , 38, E42-E48	3	9
250	Photolatent base catalyzed Michael-addition and concomitant in situ graphene oxide reduction to obtain electrically and thermally conductive UV-cured composite. <i>Polymer</i> , 2017 , 108, 251-256	3.9	9

249	Advanced Nanostructured Materials in Electromagnetic Interference Shielding 2017 , 241-320		10
248	Recent Developments in Elastomer/Hybrid Filler Nanocomposites 2017 , 423-490		2
247	Impedance response of nanocomposite coatings comprising of polyvinyl butyral and Haydale® plasma processed graphene. <i>Progress in Organic Coatings</i> , 2017 , 110, 97-103	4.8	7
246	Molecular Oxygen Adsorbed on Gallium Doped Graphene: A First-Principles Study. <i>Materials Science Forum</i> , 2017 , 890, 117-120	0.4	
245	Evaluation of Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ nanoparticles as anti-corrosion pigment in organic coatings for carbon steel. <i>Anti-Corrosion Methods and Materials</i> , 2017 , 64, 644-653	0.8	0
244	Block Copolymer Micelle Toughened Isotactic Polypropylene. <i>Macromolecules</i> , 2017 , 50, 6421-6432	5.5	19
243	Facile synthesis of thermally reduced graphene oxide-sepiolite nanohybrid via intercalation and thermal reduction method. <i>Applied Clay Science</i> , 2017 , 135, 510-515	5.2	16
242	Toughened Isotactic Polypropylene: Phase Behavior and Mechanical Properties of Blends with Strategically Designed Random Copolymer Modifiers. <i>Macromolecules</i> , 2016 , 49, 6497-6506	5.5	31
241	In situ formed graphene/ZnO nanostructured composites for low temperature hydrogen sulfide removal from natural gas. <i>RSC Advances</i> , 2016 , 6, 81142-81150	3.7	18
240	Polyethylene-thermally reduced graphene nanocomposites: comparison of masterbatch and direct melt mixing approaches on mechanical, thermal, rheological, and morphological properties. <i>Colloid and Polymer Science</i> , 2016 , 294, 1659-1670	2.4	5
239	Development of Polymer-Based Composite Coatings for the Gas Exploration Industry: Polyoxometalate Doped Conducting Polymer Based Self-Healing Pigment for Polymer Coatings. <i>Materials Science Forum</i> , 2016 , 879, 60-65	0.4	0
238	Organic functionalization of thermally reduced graphene oxide nanoplatelets by adsorption: structural and morphological characterization. <i>Philosophical Magazine</i> , 2016 , 96, 2143-2160	1.6	5
237	Processable conductive graphene/polyethylene nanocomposites: Effects of graphene dispersion and polyethylene blending with oxidized polyethylene on rheology and microstructure. <i>Polymer</i> , 2016 , 98, 143-155	3.9	57
236	Crystallization, mechanical, and fracture behavior of mullite fiber-reinforced polypropylene nanocomposites. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	12
235	Montmorillonite® multiwalled carbon nanotube nanoarchitecture reinforced thermoplastic polyurethane. <i>Polymer Composites</i> , 2016 , 37, 1775-1785	3	22
234	Polyethylene/graphene nanocomposites: effect of molecular weight on mechanical, thermal, rheological and morphological properties. <i>Colloid and Polymer Science</i> , 2016 , 294, 691-704	2.4	15
233	H ₂ S adsorption on graphene in the presence of sulfur: A density functional theory study. <i>Computational Materials Science</i> , 2016 , 117, 110-119	3.2	48
232	Electromagnetic® mechanical desalination: Mathematical modeling. <i>Desalination</i> , 2016 , 380, 75-84	10.3	6

231	Polymer membranes for acid gas removal from natural gas. <i>Separation and Purification Technology</i> , 2016 , 158, 333-356	8.3	145
230	Evaluation of Iron Nickel Oxide Nanopowder as Corrosion Inhibitor: Effect of Metallic Cations on Carbon Steel in Aqueous NaCl. <i>Corrosion Science and Technology</i> , 2016 , 15, 13-17		
229	Energetic Stabilities, Structural and Electronic Properties of Monolayer Graphene Doped with Boron and Nitrogen Atoms. <i>Electronics (Switzerland)</i> , 2016 , 5, 91	2.6	10
228	Role of Enhanced Hydrogen Bonding of Selectively Reduced Graphite Oxide in Fabrication of Poly(vinyl alcohol) Nanocomposites in Water as EMI Shielding Material. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 17011-17023	3.8	39
227	Molecular and morphological studies to understand slow crack growth (SCG) of polyethylene. <i>Colloid and Polymer Science</i> , 2016 , 294, 1269-1280	2.4	14
226	Mechanical and Thermal Properties of Thermoset-Graphene Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2016 , 301, 231-259	3.9	41
225	Biorenewable blends of polyamide-4,10 and polyamide-6,10. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	34
224	Polypropylene nanocomposites with oxo-degradable pro-oxidant: Mechanical, thermal, rheological, and photo-degradation performance. <i>Polymer Engineering and Science</i> , 2016 , 56, 1229-1239	2.3	4
223	Facile In Situ Fabrication of Nanostructured Graphene-CuO Hybrid with Hydrogen Sulfide Removal Capacity. <i>Nano-Micro Letters</i> , 2016 , 8, 312-319	19.5	17
222	Facile noncovalent assembly of MWCNT-LDH and CNF-LDH as reinforcing hybrid fillers in thermoplastic polyurethane/nitrile butadiene rubber blends. <i>Journal of Polymer Research</i> , 2016 , 23, 1	2.7	18
221	Self-healing protective coatings of polyvinyl butyral/polypyrrole-carbon black composite on carbon steel. <i>RSC Advances</i> , 2016 , 6, 43237-43249	3.7	22
220	Ab initio study on gas sensing properties of group III (B, Al and Ga) doped graphene. <i>Computational Condensed Matter</i> , 2016 , 9, 40-55	1.7	30
219	Biocomposites with Biopolyesters and Date Seed Powder 2016 , 251-271		
218	Fabrication and Surface Characterization of Spherical Fly Ash Particle Reinforced Epoxy Resin 2016 , 39-66		1
217	Morphology, Structure, and Properties of Carbon Fiber Polyamide Composites 2016 , 67-99		
216	Natural-Fiber-Reinforced Polymer Composites 2016 , 101-125		
215	Influence of Surface Treatment of Fillers on Mechanical, Surface, and Water Sorption Behavior of Natural-Fiber-Reinforced Polypropylene Composites 2016 , 157-179		
214	Tribological Behavior of PA/Rice Bran and PA/Glass Bead Composites 2016 , 181-202		1

213	Utilization of Waste Carbon as Reinforcement in Thermoset Composites 2016 , 203-229		2
212	Coconut-Shell-Based Fillers for Partial Eco-Composites 2016 , 231-250		
211	Nanoparticle- and Nanofiber-Based Polymer Nanocomposites: An Overview 2016 , 1-38		7
210	Natural-Fiber-Reinforced Epoxy and USP Resin Composites 2016 , 127-156		
209	Assembly of layered double hydroxide on multi-walled carbon nanotubes as reinforcing hybrid nanofiller in thermoplastic polyurethane/nitrile butadiene rubber blends. <i>Polymer International</i> , 2016 , 65, 93-101	3.3	20
208	Nano nickel ferrite (NiFe ₂ O ₄) as anti-corrosion pigment for API 5L X-80 steel: An electrochemical study in acidic and saline media. <i>Dyes and Pigments</i> , 2015 , 118, 18-26	4.6	26
207	Optimizing mechanical properties of injection-molded long fiber-reinforced polypropylene. <i>Journal of Thermoplastic Composite Materials</i> , 2015 , 28, 849-862	1.9	5
206	PLA, TPS and PCL binary and ternary blends: structural characterization and time-dependent morphological changes. <i>Colloid and Polymer Science</i> , 2015 , 293, 573-585	2.4	34
205	Polyurethane-Grafted Chitosan as New Biomaterials for Controlled Drug Delivery. <i>Macromolecules</i> , 2015 , 48, 2654-2666	5.5	80
204	Mechanical, Thermal, Rheological and Morphological Properties of Binary and Ternary Blends of PLA, TPS and PCL. <i>Macromolecular Materials and Engineering</i> , 2015 , 300, 423-435	3.9	66
203	Inhibition and promotion of electrochemical reactions by graphene in organic coatings. <i>RSC Advances</i> , 2015 , 5, 80365-80368	3.7	22
202	Anti-corrosion behavior of layer by layer coatings of cross-linked chitosan and poly(vinyl butyral) on carbon steel. <i>Cellulose</i> , 2015 , 22, 3275-3290	5.5	32
201	Effect of graphene oxide nanoplatelets on electrochemical properties of steel substrate in saline media. <i>Materials Chemistry and Physics</i> , 2015 , 163, 130-137	4.4	18
200	Enzymatically degradable and flexible bio-nanocomposites derived from PHBV and PBAT blend: assessing thermal, morphological, mechanical, and biodegradation properties. <i>Colloid and Polymer Science</i> , 2015 , 293, 2921-2930	2.4	18
199	Enhancement of electrical and thermal conductivity of Su-8 photocrosslinked coatings containing graphene. <i>Progress in Organic Coatings</i> , 2015 , 86, 143-146	4.8	21
198	Influence of Filler Surface Modification on the Properties of PP Composites 2015 , 83-108		
197	Surface Modification of Natural and Synthetic Polymeric Fibers for TiO ₂ -Based Nanocomposites 2015 , 191-220		1
196	Surface Modification of Aluminum Nitride and Silicon Oxycarbide for Silicone Rubber Composites 2015 , 171-190		

195	Biopolymer-Nanocomposites with Silica, Alumino-Silicate and Graphene: Structural Characterization and Properties. <i>Macromolecular Symposia</i> , 2015 , 354, 221-229	0.8	1
194	Effect of amphiphilic compatibilizers on the filler dispersion and properties of polyethylene/thermally reduced graphene nanocomposites. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	11
193	Bio-polyester/date seed powder composites: Morphology and component migration. <i>Polymer Engineering and Science</i> , 2015 , 55, 877-888	2.3	16
192	Two-Dimensional Materials for Sensing: Graphene and Beyond. <i>Electronics (Switzerland)</i> , 2015 , 4, 651-687	1.6	232
191	Surface Modification of Nanomaterials for Application in Polymer Nanocomposites: An Overview 2015 , 1-28		9
190	Polyolefin/Graphene Nanocomposite Materials 2015 , 129-154		2
189	Tailored electrical conductivity, electromagnetic shielding and thermal transport in polymeric blends with graphene sheets decorated with nickel nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 14922-30	3.6	62
188	Evaluation of crystallinity variation and phase dispersion in polymer blends and nanocomposites by Raman mapping. <i>Journal of Polymer Research</i> , 2015 , 22, 1	2.7	5
187	Degradable polyethylene nanocomposites with silica, silicate and thermally reduced graphene using oxo-degradable pro-oxidant. <i>Heliyon</i> , 2015 , 1, e00050	3.6	10
186	Process intensification of copper chromite (CuCr ₂ O ₄) nanoparticle production using continuous flow microreactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015 , 89, 28-34	3.7	12
185	Polymer/graphene nanocomposites: effect of polymer matrix and filler amount on properties. <i>Macromolecular Materials and Engineering</i> , 2015 , 300, 510-521	3.9	40
184	Mechanically and Thermally Enhanced Multiwalled Carbon Nanotube/Graphene Hybrid filled Thermoplastic Polyurethane Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2015 , 300, 346-357	3.9	39
183	Functional Polymer Nanocomposites with Graphene: A Review. <i>Macromolecular Materials and Engineering</i> , 2014 , 299, 906-931	3.9	108
182	Biocomposites with biopolyesters and date seed powder: Mechanical, thermal, and degradation properties. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	16
181	Compatibilized polyethylene/thermally reduced graphene nanocomposites: Interfacial interactions and hyperspectral mapping for component distribution. <i>Colloid and Polymer Science</i> , 2014 , 292, 2509-2518	2.4	8
180	In situ determination and imaging of physical properties of soft organic materials by analytical transmission electron microscopy. <i>Microscopy and Microanalysis</i> , 2014 , 20, 916-23	0.5	3
179	Polyolefin - Graphene Oxide Nanocomposites: Interfacial Interactions and Low Temperature Brittleness Reduction. <i>Macromolecular Symposia</i> , 2014 , 340, 37-43	0.8	1
178	Biopolymer/thermally reduced graphene nanocomposites: Structural characterization and properties. <i>Materials Chemistry and Physics</i> , 2014 , 147, 319-332	4.4	37

177	Blends of high-density polyethylene with chlorinated polyethylene: Morphology, thermal, rheological, and mechanical properties. <i>Polymer Engineering and Science</i> , 2014 , 54, 85-95	2.3	9
176	Polymer Nanotube Nanocomposites: A Review of Synthesis Methods, Properties and Applications 2014 , 1-44		2
175	Preparation and Applications of Hydroxyapatite Nanocomposites Based on Biodegradable and Natural Polymers 2014 , 51-86		
174	Preparation and Characterization of PVDF-Based Nanocomposites 2014 , 131-144		1
173	Synthesis of Polymer Nanocomposites by Water-Assisted Extrusion 2014 , 179-210		
172	In Situ Thermal, Photon, and Electron-Beam Synthesis of Polymer Nanocomposites 2014 , 145-178		
171	Synthetic Methods for Nanocomposites Based on Polyester Resins 2014 , 87-114		
170	Near IR Spectroscopy for the Characterization of Dispersion in Polymer/clay Nanocomposites 2014 , 241-266		1
169	In Situ Preparation of Conducting Polymer Nanocomposites 2014 , 211-240		
168	Synthesis of Polymer Nanocomposites in Supercritical CO ₂ 2014 , 267-290		
167	Synthesis of Polymer Nanocomposites: Review of Various Techniques 2014 , 1-30		20
166	Masterbatch Approach to Generate HDPE/CPE/Graphene Nanocomposites 2014 , 31-50		
165	Synthesis Fabrication and Characterization of Ag/CNT-Polymer Nanocomposites 2014 , 115-130		
164	Polyurethane-Bentonite Nanocomposites: Morphology and Oxygen Permeation. <i>Advances in Polymer Technology</i> , 2014 , 33, n/a-n/a	1.9	2
163	Optimal mechanical and gas permeation properties of polypropylene-organically modified montmorillonite (PP-OMMT) nanocomposites. <i>Journal of Polymer Engineering</i> , 2014 , 34, 501-509	1.4	1
162	Characterization of polyethylene-based multiphase systems containing zero- and two-dimensional nanoparticulate reinforcement materials by analytical electron and atomic force microscopy. <i>Journal of Thermoplastic Composite Materials</i> , 2014 , 27, 845-864	1.9	1
161	PE/Chlorinated-PE Blends and PE/Chlorinated-PE/Graphene Oxide Nanocomposites: Morphology, Phase Miscibility, and Interfacial Interactions. <i>Macromolecular Chemistry and Physics</i> , 2014 , 215, 255-268	2.6	15
160	High-density polyethylene nanocomposites using masterbatches of chlorinated polyethylene/graphene oxide. <i>Polymer Engineering and Science</i> , 2013 , 53, 78-88	2.3	59

159	Multiscale Stochastic Finite Elements Modeling of Polymer Nanocomposites 2013 , 143-168		1
158	Convergence of Experimental and Modeling Studies 2013 , 1-10		
157	Self-Consistent Field Theory Modeling of Polymer Nanocomposites 2013 , 11-37		1
156	Modern Experimental and Theoretical Analysis Methods of Particulate-Filled Nanocomposites Structure 2013 , 39-62		0
155	Multiscale Modeling Approach for Polymeric Nanocomposites 2013 , 95-128		
154	Solvent Effects in Polymer Based Organic Photovoltaics 2013 , 137-161		1
153	Dissipative Particles Dynamics Model for Polymer Nanocomposites 2013 , 215-235		1
152	Reptation Model for the Dynamics and Rheology of Particle Reinforced Polymer Chains 2013 , 63-94		1
151	Modeling of Oxygen Permeation and Mechanical Properties of Polypropylene-Layered Silicate Nanocomposites Using DoE Designs 2013 , 129-142		
150	Modeling of Thermal Conductivity of Polymer Nanocomposites 2013 , 169-200		5
149	Numerical Analytical Model for Nanotube-Reinforced Nanocomposites 2013 , 201-214		
148	Computer-Aided Product Design of Wheat Straw Polypropylene Composites 2013 , 237-253		0
147	PE-CPE blends and their graphene oxide nanocomposites with reduced low temperature brittleness. <i>Colloid and Polymer Science</i> , 2013 , 291, 1949-1961	2.4	7
146	Blends of biorenewable polyamide-11 and polyamide-6,10. <i>Polymer</i> , 2013 , 54, 6961-6970	3.9	32
145	High CEC generation and surface modification in mica and vermiculite minerals. <i>Philosophical Magazine</i> , 2013 , 93, 777-793	1.6	1
144	Modelling and Prediction of Barrier Properties of Polymer Layered Silicate Nanocomposites. <i>Polymers and Polymer Composites</i> , 2013 , 21, 509-518	0.8	6
143	Modeling of the Chemorheological Behavior of Thermosetting Polymer Nanocomposites 2013 , 255-287		
142	An analytical technique to extract surface information of negatively stained or heavy-metal shadowed organic materials within the TEM. <i>Microscopy and Microanalysis</i> , 2013 , 19, 642-51	0.5	5

141	Biodegradable polyester nanocomposites: Phase miscibility and properties. <i>Journal of Applied Polymer Science</i> , 2013 , 130, 516-525	2.9	2
140	Lithium Polymer Batteries Based on Ionic Liquids 2013 , 53-101		5
139	Novel Nanocomposites: Intercalation of Ionically Conductive Polymers into Molybdc Acid 2013 , 41-70		
138	Fluid-Bed Technology for Encapsulation and Coating Purposes 2013 , 71-105		1
137	Use of Electrospinning for Encapsulation 2013 , 107-135		3
136	Microencapsulation by Interfacial Polymerization 2013 , 137-173		10
135	Copper Encapsulation of Multi-Walled Carbon Nanotubes 2013 , 1-39		
134	Encapsulation of Silica Particles by a Thin Shell of Poly(Methyl) Methacrylate 2013 , 175-202		
133	Organic Thin-Film Transistors with Solution-Processed Encapsulation 2013 , 203-223		
132	Tunable Encapsulation Property of Amphiphilic Polymer Based on Hyperbranched Polyethylenimine 2013 , 225-253		1
131	Polymer Layers by Initiated CVD for Thin Film Gas Barrier Encapsulation 2013 , 255-289		1
130	Polymeric Hollow Particles for Encapsulation of Chemical Molecules 2013 , 291-345		2
129	Protic Ionic Liquids Confinement in Macro, Meso and Microporous Materials for Proton Conduction 2013 , 347-389		2
128	Encapsulation Methods with Supercritical Carbon Dioxide: Basis and Applications 2013 , 391-424		1
127	Polymer-Inorganic Hybrid Solar Cells 2013 , 163-197		1
126	High Performance Polymer Hydrogel Based Materials for Fuel Cells 2013 , 1-25		
125	Influence of Organic Modification and Polyurethane Structure on Clay Dispersion in PolyurethaneClay Nanocomposites 2013 , 39-67		2
124	Polymer Nanocomposites with UV-Cured Epoxies 2013 , 17-37		2

123	New Methods for the Preparation of Metal and Clay Thermoset Nanocomposites 2013 , 165-188			1
122	Epoxy/Vermiculite Nanocomposites 2013 , 1-16			
121	Thermal Properties of Formaldehyde-Based Thermoset Nanocomposites 2013 , 69-108			
120	Electrical Properties and Electromagnetic Interference Shielding Response of Electrically Conducting Thermosetting Nanocomposites 2013 , 211-237			31
119	Bio-Based Epoxy Resin/Clay Nanocomposites 2013 , 189-209			5
118	Hyperbranched Polymers as Clay Surface Modifications for Nanocomposites 2013 , 147-163			2
117	Unsaturated Polyester Resin Clay Hybrid Nanocomposites 2013 , 129-146			1
116	Mechanical Performance of Thermoset Clay Nanocomposites 2013 , 109-128			1
115	Crystallinity, mechanical property and oxygen permeability of polypropylene: Effect of processing conditions, nucleating agent and compatibilizer. <i>Journal of Thermoplastic Composite Materials</i> , 2013 , 26, 1407-1423	1.9		9
114	Polypropylene nanocomposites with thermally stable phosphonium- and pyridinium-modified layered silicates: Thermal, mechanical and gas barrier properties. <i>Journal of Thermoplastic Composite Materials</i> , 2013 , 26, 1082-1099	1.9		2
113	Modeling and prediction of tensile modulus and oxygen permeation properties of polyethylene \square layered silicate nanocomposites: Factorial and mixture designs. <i>Journal of Reinforced Plastics and Composites</i> , 2013 , 32, 258-272	2.9		4
112	Barrier Properties of Renewable Nanomaterials 2013 , 541-564			2
111	Comparison of Anti-Corrosion Performance of Polyaniline Modified Ferrites. <i>Journal of Dispersion Science and Technology</i> , 2012 , 33, 1452-1457	1.5		8
110	Surface modification of layered silicates. I. Factors affecting thermal stability. <i>Philosophical Magazine</i> , 2012 , 92, 4498-4517	1.6		
109	Interactions Between Components. <i>Engineering Materials</i> , 2012 , 163-181			0.4
108	Nano to Micro and Macro Characterization. <i>Engineering Materials</i> , 2012 , 183-197			0.4
107	Surface modification of layered silicates. II. Factors affecting thermal stability. <i>Philosophical Magazine</i> , 2012 , 92, 4518-4535	1.6		4
106	Epoxy-layered silicate nanocomposites: effect of cross-linking amines and fillers on curing, morphology and oxygen permeation. <i>Journal of Reinforced Plastics and Composites</i> , 2012 , 31, 739-747	2.9		

105	Melting and crystallization transitions in organically modified layered silicates studied with differential scanning calorimetry. <i>Philosophical Magazine</i> , 2012 , 92, 3968-3982	1.6	
104	Microscopic analysis of the surface functionalization of polymer particles and subsequent grafting of polymer chains from the surface. <i>Journal of Electron Microscopy</i> , 2012 , 61, 367-80		
103	Modification of montmorillonites with thermally stable phosphonium cations and comparison with alkylammonium montmorillonites. <i>Applied Clay Science</i> , 2012 , 56, 103-109	5.2	38
102	Biodegradability Characterization of Polymer Nanocomposites 2012 , 323-346		6
101	Thermal Characterization of Fillers and Polymer Nanocomposites 2012 , 13-32		1
100	Flame-Retardancy Characterization of Polymer Nanocomposites 2012 , 33-74		
99	Correcting for a density distribution: particle size analysis of core-shell nanocomposite particles using disk centrifuge photosedimentometry. <i>Langmuir</i> , 2012 , 28, 2536-44	4	31
98	AFM Characterization of Polymer Nanocomposites 2012 , 185-228		6
97	Modeling of Tensile Modulus of Polyolefin-Layered Silicate Nanocomposites: Modified Halpin Tsai Models. <i>Advanced Composites Letters</i> , 2012 , 21, 096369351202100	1.2	1
96	Modeling of tensile modulus of polyolefin-layered silicate nanocomposites: modified micro-mechanical and statistical methods. <i>Journal of Polymer Engineering</i> , 2012 , 32, 519-529	1.4	2
95	Molecular Weight Distributions of Polymer Solutions: Combination of Field Flow Fractionation (FFF) and Analytical Ultracentrifugation (AUC). <i>Journal of Dispersion Science and Technology</i> , 2012 , 33, 631-638 ^{1.5}		1
94	Dielectric Relaxation Spectroscopy for Polymer Nanocomposites 2012 , 167-184		4
93	Functional Polymer Blends 2012 , 1-26		12
92	Analytical Imaging Techniques for Soft Matter Characterization. <i>Engineering Materials</i> , 2012 ,	0.4	12
91	Morphology in Organic/Inorganic Composites. <i>Engineering Materials</i> , 2012 , 97-114	0.4	
90	Polybutadiene Clay Nanocomposites by In-situ Polymerization 2011 , 283-301		
89	Atom Transfer Radical Polymerization (ATRP) for Production of Polymers from Renewable Resources 2011 , 221-245		
88	Polymers from Renewable Resources 2011 , 1-22		2

- 87 Grafting of Polymers on Nanotubes by Atom Transfer Radical Polymerization **2011**, 179-213
- 86 Aliphatic Polyester and Poly(ester amide) Clay Nanocomposites by In-situ Polymerization **2011**, 367-386
- 85 Renewable Polymers in Transgenic Crop Plants **2011**, 247-303
- 84 P3HT/MWNT Nanocomposites by In-situ Polymerization and Their Properties **2011**, 303-329 1
- 83 Amine-Functionalized Carbon Nanotubes **2011**, 135-158 2
- 82 Polystyrene/Montmorillonite Nanocomposites by In-situ Polymerization and Their Properties **2011**, 331-365
- 81 Covalent Binding of Nanoparticles on Carbon Nanotubes **2011**, 113-134 2
- 80 5-Hydroxymethylfurfural Based Polymers **2011**, 381-428 11
- 79 Polyurethane Nanocomposites by In-situ Polymerization Approach and Their Properties **2011**, 169-220
- 78 Functionalization of Carbon Nanotubes by Polymers Using Grafting to Methods **2011**, 257-287
- 77 Polymer Clay Nanocomposites by In-situ Atom Transfer Radical Polymerization **2011**, 267-281
- 76 PET Clay Nanocomposites by In-situ Polymerization **2011**, 105-122
- 75 In-situ Synthesis and Properties of Epoxy Nanocomposites **2011**, 221-244 0
- 74 Plasma Deposition of Polymer Film on Nanotubes **2011**, 239-255
- 73 Functionalization of Nanotubes by Ring-Opening and Anionic Surface Initiated Polymerization **2011**, 159-177
- 72 Theoretical Analysis of Nanotube Functionalization and Polymer Grafting **2011**, 91-111
- 71 Modification of Nanotubes with Conjugated Block Copolymers **2011**, 67-89
- 70 Synthesis and Characterization of Poly (aryl ether ketone) Copolymers **2011**, 341-386

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