Vikas Mittal

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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	Polyurethane Adhesive Nanocomposites as Gas Permeation Barrier. *Macromolecules*, **2003**, 36, 9851-9858	5.5	265
265	Two-Dimensional Materials for Sensing: Graphene and Beyond. *Electronics (Switzerland)*, **2015**, 4, 651-687	2.6	232
264	Polymer Layered Silicate Nanocomposites: A Review. *Materials*, **2009**, 2, 992-1057	3.5	200
263	Epoxy-Layered Silicate Nanocomposites and Their Gas Permeation Properties. *Macromolecules*, **2004**, 37, 7250-7257	5.5	146
262	Polymer membranes for acid gas removal from natural gas. *Separation and Purification Technology*, **2016**, 158, 333-356	8.3	145
261	The Aspect Ratio and Gas Permeation in Polymer-Layered Silicate Nanocomposites. *Macromolecular Rapid Communications*, **2004**, 25, 1145-1149	4.8	114
260	Functional Polymer Nanocomposites with Graphene: A Review. *Macromolecular Materials and Engineering*, **2014**, 299, 906-931	3.9	108
259	Polyurethane-Grafted Chitosan as New Biomaterials for Controlled Drug Delivery. *Macromolecules*, **2015**, 48, 2654-2666	5.5	80
258	Mechanical, Thermal, Rheological and Morphological Properties of Binary and Ternary Blends of PLA, TPS and PCL. *Macromolecular Materials and Engineering*, **2015**, 300, 423-435	3.9	66
257	Poly(propylene)-Layered Silicate Nanocomposites: Gas Permeation Properties and Clay Exfoliation. *Macromolecular Chemistry and Physics*, **2007**, 208, 68-75	2.6	64
256	Tailored electrical conductivity, electromagnetic shielding and thermal transport in polymeric blends with graphene sheets decorated with nickel nanoparticles. *Physical Chemistry Chemical Physics*, **2015**, 17, 14922-30	3.6	62
255	Polypropylene-Layered Silicate Nanocomposites: Filler Matrix Interactions and Mechanical Properties. *Journal of Thermoplastic Composite Materials*, **2007**, 20, 575-599	1.9	62
254	Gas permeation and mechanical properties of polypropylene nanocomposites with thermally-stable imidazolium modified clay. *European Polymer Journal*, **2007**, 43, 3727-3736	5.2	61
253	High-density polyethylene nanocomposites using masterbatches of chlorinated polyethylene/graphene oxide. *Polymer Engineering and Science*, **2013**, 53, 78-88	2.3	59
252	Processable conductive graphene/polyethylene nanocomposites: Effects of graphene dispersion and polyethylene blending with oxidized polyethylene on rheology and microstructure. *Polymer*, **2016**, 98, 143-155	3.9	57
251	Mechanical and gas permeation properties of compatibilized polypropylene layered silicate nanocomposites. *Journal of Applied Polymer Science*, **2008**, 107, 1350-1361	2.9	52
250	H2S adsorption on graphene in the presence of sulfur: A density functional theory study. *Computational Materials Science*, **2016**, 117, 110-119	3.2	48

249	Recent progress on synthetic strategies and applications of transition metal phosphides in energy storage and conversion. *Ceramics International*, **2021**, 47, 4404-4425	5.1	47
248	Polymer chains grafted "to" and "from" layered silicate clay platelets. *Journal of Colloid and Interface Science*, **2007**, 314, 141-51	9.3	44
247	Cu- and Zr-based metal organic frameworks and their composites with graphene oxide for capture of acid gases at ambient temperature. *Journal of Solid State Chemistry*, **2018**, 266, 233-243	3.3	42
246	Mechanical and Thermal Properties of Thermoset Graphene Nanocomposites. *Macromolecular Materials and Engineering*, **2016**, 301, 231-259	3.9	41
245	Polymer graphene nanocomposites: effect of polymer matrix and filler amount on properties. *Macromolecular Materials and Engineering*, **2015**, 300, 510-521	3.9	40
244	Mechanically and Thermally Enhanced Multiwalled Carbon Nanotube Graphene Hybrid filled Thermoplastic Polyurethane Nanocomposites. *Macromolecular Materials and Engineering*, **2015**, 300, 346-357	3.9	39
243	Role of Enhanced Hydrogen Bonding of Selectively Reduced Graphite Oxide in Fabrication of Poly(vinyl alcohol) Nanocomposites in Water as EMI Shielding Material. *Journal of Physical Chemistry C*, **2016**, 120, 17011-17023	3.8	39
242	Modification of montmorillonites with thermally stable phosphonium cations and comparison with alkylammonium montmorillonites. *Applied Clay Science*, **2012**, 56, 103-109	5.2	38
241	Biopolymer Thermally reduced graphene nanocomposites: Structural characterization and properties. *Materials Chemistry and Physics*, **2014**, 147, 319-332	4.4	37
240	PLA, TPS and PCL binary and ternary blends: structural characterization and time-dependent morphological changes. *Colloid and Polymer Science*, **2015**, 293, 573-585	2.4	34
239	Biorenewable blends of polyamide-4,10 and polyamide-6,10. *Journal of Applied Polymer Science*, **2016**, 133,	2.9	34
238	Anti-corrosion behavior of layer by layer coatings of cross-linked chitosan and poly(vinyl butyral) on carbon steel. *Cellulose*, **2015**, 22, 3275-3290	5.5	32
237	Blends of biorenewable polyamide-11 and polyamide-6,10. *Polymer*, **2013**, 54, 6961-6970	3.9	32
236	Toughened Isotactic Polypropylene: Phase Behavior and Mechanical Properties of Blends with Strategically Designed Random Copolymer Modifiers. *Macromolecules*, **2016**, 49, 6497-6506	5.5	31
235	Correcting for a density distribution: particle size analysis of core-shell nanocomposite particles using disk centrifuge photosedimentometry. *Langmuir*, **2012**, 28, 2536-44	4	31
234	Electrical Properties and Electromagnetic Interference Shielding Response of Electrically Conducting Thermosetting Nanocomposites **2013**, 211-237		31
233	Epoxy Vermiculite Nanocomposites as Gas Permeation Barrier. *Journal of Composite Materials*, **2008**, 42, 2829-2839	2.7	30
232	Ab initio study on gas sensing properties of group III (B, Al and Ga) doped graphene. *Computational Condensed Matter*, **2016**, 9, 40-55	1.7	30

231	Synthesis of temperature responsive polymer brushes from polystyrene latex particles functionalized with ATRP initiator. *European Polymer Journal*, **2007**, 43, 4868-4881	5.2	29
230	Nanocomposites with Biodegradable Polymers **2011**,		27
229	Nano nickel ferrite (NiFe2O4) as anti-corrosion pigment for API 5L X-80 steel: An electrochemical study in acidic and saline media. *Dyes and Pigments*, **2015**, 118, 18-26	4.6	26
228	Functionalized polystyrene latex particles as substrates for ATRP: Surface and colloidal characterization. *Polymer*, **2007**, 48, 2806-2817	3.9	23
227	Inhibition and promotion of electrochemical reactions by graphene in organic coatings. *RSC Advances*, **2015**, 5, 80365-80368	3.7	22
226	Montmorillonite–multiwalled carbon nanotube nanoarchitecture reinforced thermoplastic polyurethane. *Polymer Composites*, **2016**, 37, 1775-1785	3	22
225	Self-healing protective coatings of polyvinyl butyral/polypyrrole-carbon black composite on carbon steel. *RSC Advances*, **2016**, 6, 43237-43249	3.7	22
224	Enhancement of electrical and thermal conductivity of Su-8 photocrosslinked coatings containing graphene. *Progress in Organic Coatings*, **2015**, 86, 143-146	4.8	21
223	Esterification reactions on the surface of layered silicate clay platelets. *Journal of Colloid and Interface Science*, **2007**, 315, 135-41	9.3	21
222	Effect of Graphene on Polypropylene/Maleic Anhydride-graft-Ethylene–Vinyl Acetate (PP/EVA-g-MA) Blend: Mechanical, Thermal, Morphological, and Rheological Properties. *Industrial & Engineering Chemistry Research*, **2018**, 57, 7834-7845	3.9	20
221	Synthesis of Polymer Nanocomposites: Review of Various Techniques **2014**, 1-30		20
220	Assembly of layered double hydroxide on multi-walled carbon nanotubes as reinforcing hybrid nanofiller in thermoplastic polyurethane/nitrile butadiene rubber blends. *Polymer International*, **2016**, 65, 93-101	3.3	20
219	Block Copolymer Micelle Toughened Isotactic Polypropylene. *Macromolecules*, **2017**, 50, 6421-6432	5.5	19
218	Effect of graphene oxide nanoplatelets on electrochemical properties of steel substrate in saline media. *Materials Chemistry and Physics*, **2015**, 163, 130-137	4.4	18
217	Enzymatically degradable and flexible bio-nanocomposites derived from PHBV and PBAT blend: assessing thermal, morphological, mechanical, and biodegradation properties. *Colloid and Polymer Science*, **2015**, 293, 2921-2930	2.4	18
216	In situ formed graphene/ZnO nanostructured composites for low temperature hydrogen sulfide removal from natural gas. *RSC Advances*, **2016**, 6, 81142-81150	3.7	18
215	Analytical ultracentrifugation of model nanoparticles: comparison of different analysis methods. *Macromolecular Bioscience*, **2010**, 10, 754-62	5.5	18
214	Physical adsorption of organic molecules on the surface of layered silicate clay platelets: a thermogravimetric study. *Journal of Colloid and Interface Science*, **2008**, 327, 295-301	9.3	18

213	Facile noncovalent assembly of MWCNT-LDH and CNF-LDH as reinforcing hybrid fillers in thermoplastic polyurethane/nitrile butadiene rubber blends. *Journal of Polymer Research*, **2016**, 23, 1	2.7	18
212	Facile In Situ Fabrication of Nanostructured Graphene-CuO Hybrid with Hydrogen Sulfide Removal Capacity. *Nano-Micro Letters*, **2016**, 8, 312-319	19.5	17
211	Truebiocomposites with biopolyesters and date seed powder: Mechanical, thermal, and degradation properties. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	16
210	Facile synthesis of thermally reduced graphene oxide-sepiolite nanohybrid via intercalation and thermal reduction method. *Applied Clay Science*, **2017**, 135, 510-515	5.2	16
209	Bio-polyesterdate seed powder composites: Morphology and component migration. *Polymer Engineering and Science*, **2015**, 55, 877-888	2.3	16
208	Binary Cu/ZnO decorated graphene nanocomposites as an efficient anode for lithium ion batteries. *Journal of Industrial and Engineering Chemistry*, **2018**, 59, 108-114	6.3	15
207	Polyethylene/graphene nanocomposites: effect of molecular weight on mechanical, thermal, rheological and morphological properties. *Colloid and Polymer Science*, **2016**, 294, 691-704	2.4	15
206	PE/Chlorinated-PE Blends and PE/Chlorinated-PE/Graphene Oxide Nanocomposites: Morphology, Phase Miscibility, and Interfacial Interactions. *Macromolecular Chemistry and Physics*, **2014**, 215, 255-268	2.6	15
205	Polymer composites with functionalized natural fibers **2018**, 157-186		14
204	Molecular and morphological studies to understand slow crack growth (SCG) of polyethylene. *Colloid and Polymer Science*, **2016**, 294, 1269-1280	2.4	14
203	Effect of date fruit waste extract as an antioxidant additive on the properties of active gelatin films. *Food Chemistry*, **2021**, 355, 129631	8.5	14
202	Natural antioxidants-based edible active food packaging: An overview of current advancements. *Food Bioscience*, **2021**, 43, 101251	4.9	13
201	Crystallization, mechanical, and fracture behavior of mullite fiber-reinforced polypropylene nanocomposites. *Journal of Applied Polymer Science*, **2016**, 133,	2.9	12
200	Process intensification of copper chromite (CuCr2O4) nanoparticle production using continuous flow microreactor. *Chemical Engineering and Processing: Process Intensification*, **2015**, 89, 28-34	3.7	12
199	Functional Polymer Blends **2012**, 1-26		12
198	Analytical Imaging Techniques for Soft Matter Characterization. *Engineering Materials*, **2012**,	0.4	12
197	Effect of amphiphilic compatibilizers on the filler dispersion and properties of polyethylenethermally reduced graphene nanocomposites. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	11
196	5-Hydroxymethylfurfural Based Polymers **2011**, 381-428		11

195	Clay exfoliation in polymer nanocomposites: Specific chemical reactions and exchange of specialty modifications on clay surface. *Philosophical Magazine*, **2010**, 90, 2489-2506	1.6	11
194	Advanced Nanostructured Materials in Electromagnetic Interference Shielding **2017**, 241-320		10
193	Degradable polyethylene nanocomposites with silica, silicate and thermally reduced graphene using oxo-degradable pro-oxidant. *Heliyon*, **2015**, 1, e00050	3.6	10
192	Microencapsulation by Interfacial Polymerization **2013**, 137-173		10
191	Swelling Deswelling Behavior of PS-PNIPAAM Copolymer Particles and PNIPAAM Brushes Grafted from Polystyrene Particles & Monoliths. *Macromolecular Materials and Engineering*, **2008**, 293, 491-502	3.9	10
190	Energetic Stabilities, Structural and Electronic Properties of Monolayer Graphene Doped with Boron and Nitrogen Atoms. *Electronics (Switzerland)*, **2016**, 5, 91	2.6	10
189	Characteristics of biodegradable poly(butylene succinate) nanocomposites with thermally reduced graphene nanosheets. *Polymer Composites*, **2017**, 38, E42-E48	3	9
188	Photolatent base catalyzed Michael-addition and concomitant in situ graphene oxide reduction to obtain electrically and thermally conductive UV-cured composite. *Polymer*, **2017**, 108, 251-256	3.9	9
187	Blends of high-density polyethylene with chlorinated polyethylene: Morphology, thermal, rheological, and mechanical properties. *Polymer Engineering and Science*, **2014**, 54, 85-95	2.3	9
186	Surface Modification of Nanomaterials for Application in Polymer Nanocomposites: An Overview **2015**, 1-28		9
185	Crystallinity, mechanical property and oxygen permeability of polypropylene: Effect of processing conditions, nucleating agent and compatibilizer. *Journal of Thermoplastic Composite Materials*, **2013**, 26, 1407-1423	1.9	9
184	Sedimentation measurements with the analytical ultracentrifuge with absorption optics: influence of Mie scattering and absorption of the particles. *Colloid and Polymer Science*, **2011**, 289, 1145-1155	2.4	9
183	Synthesis of Environmentally Responsive Polymers by Atom Transfer Radical Polymerization: Generation of Reversible Hydrophilic and Hydrophobic Surfaces. *Polymers*, **2010**, 2, 40-56	4.5	9
182	Advances in Acid Mediated Polymerizations69-173		9
181	Compatibilized polyethylene□hermally reduced graphene nanocomposites: Interfacial interactions and hyperspectral mapping for component distribution. *Colloid and Polymer Science*, **2014**, 292, 2509-2518	2.4	8
180	Comparison of Anti-Corrosion Performance of Polyaniline Modified Ferrites. *Journal of Dispersion Science and Technology*, **2012**, 33, 1452-1457	1.5	8
179	Polymer Nanocomposites: Synthesis, Microstructure, and Properties1-19		8
178	Carbon Nanotubes Surface Modifications: An Overview **2011**, 1-23		8

177	Impedance response of nanocomposite coatings comprising of polyvinyl butyral and Haydale plasma processed graphene. *Progress in Organic Coatings*, **2017**, 110, 97-103	4.8	7
176	PE-CPE blends and their graphene oxide nanocomposites with reduced low temperature brittleness. *Colloid and Polymer Science*, **2013**, 291, 1949-1961	2.4	7
175	Nanoparticle- and Nanofiber-Based Polymer Nanocomposites: An Overview **2016**, 1-38		7
174	Biodegradation properties of melt processed PBS/chitosan bio-nanocomposites with silica, silicate, and thermally reduced graphene. *Polymer Composites*, **2018**, 39, 386-397	3	6
173	Electromagnetic mechanical desalination: Mathematical modeling. *Desalination*, **2016**, 380, 75-84	10.3	6
172	Modelling and Prediction of Barrier Properties of Polymer Layered Silicate Nanocomposites. *Polymers and Polymer Composites*, **2013**, 21, 509-518	0.8	6
171	Biodegradability Characterization of Polymer Nanocomposites **2012**, 323-346		6
170	AFM Characterization of Polymer Nanocomposites **2012**, 185-228		6
169	Synthesis and Characterization of Novel Polyimides **2011**, 205-242		6
168	In-situ Synthesis of Polymer Nanocomposites **2011**, 1-25		6
167	Bio-nanocomposites: future high-value materials **2011**, 1-27		6
166	Recent Trends in the Use of Three-Dimensional Graphene Structures for Supercapacitors. *ACS Applied Electronic Materials*, **2021**, 3, 574-596	4	6
165	Optimizing mechanical properties of injection-molded long fiber-reinforced polypropylene. *Journal of Thermoplastic Composite Materials*, **2015**, 28, 849-862	1.9	5
164	Polyethylene-thermally reduced graphene nanocomposites: comparison of masterbatch and direct melt mixing approaches on mechanical, thermal, rheological, and morphological properties. *Colloid and Polymer Science*, **2016**, 294, 1659-1670	2.4	5
163	Organic functionalization of thermally reduced graphene oxide nanoplatelets by adsorption: structural and morphological characterization. *Philosophical Magazine*, **2016**, 96, 2143-2160	1.6	5
162	Ethylene-co-Vinyl Acetate/MWCNTs/Hectorite Elastomeric Nanocomposites: Characterization and Electrical Properties. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 4057-4064	1.3	5
161	Modeling of Thermal Conductivity of Polymer Nanocomposites **2013**, 169-200		5
160	Evaluation of crystallinity variation and phase dispersion in polymer blends and nanocomposites by Raman mapping. *Journal of Polymer Research*, **2015**, 22, 1	2.7	5

159	An analytical technique to extract surface information of negatively stained or heavy-metal shadowed organic materials within the TEM. *Microscopy and Microanalysis*, **2013**, 19, 642-51	0.5	5
158	Lithium Polymer Batteries Based on Ionic Liquids **2013**, 53-101		5
157	Bio-Based Epoxy Resin/Clay Nanocomposites **2013**, 189-209		5
156	PNIPAAM Grafted Polymeric Monoliths Synthesized by the Reactive Gelation Process and their Swelling/Deswelling Characteristics. *Macromolecular Reaction Engineering*, **2008**, 2, 215-221	1.5	5
155	Succinic Acid: Synthesis of Biobased Polymers from Renewable Resources355-379		5
154	Polypropylene/phosphazene nanotube nanocomposites: Thermal, mechanical, and flame retardation studies. *Journal of Applied Polymer Science*, **2020**, 137, 49525	2.9	4
153	Magnesium Aluminium Layered Double Hydroxide Assisted Dispersion of Multiwalled Carbon Nanotubes for Enhanced Reinforcement of Ethylene-co-Vinyl Acetate Matrix. *Macromolecular Research*, **2018**, 26, 868-871	1.9	4
152	Surface modification of layered silicates. II. Factors affecting thermal stability. *Philosophical Magazine*, **2012**, 92, 4518-4535	1.6	4
151	Modeling and prediction of tensile modulus and oxygen permeation properties of polyethylene layered silicate nanocomposites: Factorial and mixture designs. *Journal of Reinforced Plastics and Composites*, **2013**, 32, 258-272	2.9	4
150	High Performance Polymers: An Overview **2011**, 1-20		4
149	High-Performance Processable Aromatic Polyamides **2011**, 111-166		4
148	High Performance Fibers **2011**, 269-340		4
147	Liquid Crystalline Thermoset Epoxy Resins **2011**, 387-422		4
146	Dielectric Relaxation Spectroscopy for Polymer Nanocomposites **2012**, 167-184		4
145	Sedimentation analysis of organic–inorganic hybrid colloids. *Colloid and Polymer Science*, **2010**, 288, 621-630	2.4	4
144	Polypropylene nanocomposites with oxo-degradable pro-oxidant: Mechanical, thermal, rheological, and photo-degradation performance. *Polymer Engineering and Science*, **2016**, 56, 1229-1239	2.3	4
143	Polyesters, Polycarbonates and Polyamides Based on Renewable Resources305-354		4
142	Two-dimensional mullite nanostructure: Synthesis and reinforcement effect on polypropylene/maleic anhydride graft ethylene vinyl acetate matrix. *Journal of Applied Polymer Science*, **2019**, 136, 48233	2.9	3

141	In situ determination and imaging of physical properties of soft organic materials by analytical transmission electron microscopy. *Microscopy and Microanalysis*, **2014**, 20, 916-23	0.5	3
140	Use of Electrospinning for Encapsulation **2013**, 107-135		3
139	UV Aging Behavior of Functionalized Mullite Nanofiber-Reinforced Polypropylene. *ACS Omega*, **2020**, 5, 27083-27093	3.9	3
138	Silver-sepiolite (Ag-Sep) hybrid reinforced active gelatin/date waste extract (DSWE) blend composite films for food packaging application. *Food Chemistry*, **2022**, 369, 130983	8.5	3
137	Following the Nanocomposites Synthesis by Raman Spectroscopy and X-Ray Photoelectron Spectroscopy (XPS)115-142		3
136	Recent Developments in Elastomer/Hybrid Filler Nanocomposites **2017**, 423-490		2
135	Polymer Nanotube Nanocomposites: A Review of Synthesis Methods, Properties and Applications **2014**, 1-44		2
134	Polyolefin/Graphene Nanocomposite Materials **2015**, 129-154		2
133	Polyurethane-Bentonite Nanocomposites: Morphology and Oxygen Permeation. *Advances in Polymer Technology*, **2014**, 33, n/a-n/a	1.9	2
132	Biodegradable polyester nanocomposites: Phase miscibility and properties. *Journal of Applied Polymer Science*, **2013**, 130, 516-525	2.9	2
131	Polymeric Hollow Particles for Encapsulation of Chemical Molecules **2013**, 291-345		2
130	Protic Ionic Liquids Confinement in Macro, Meso and Microporous Materials for Proton Conduction **2013**, 347-389		2
129	Influence of Organic Modification and Polyurethane Structure on Clay Dispersion in Polyurethane□lay Nanocomposites **2013**, 39-67		2
128	Polymer Nanocomposites with UV-Cured Epoxies **2013**, 17-37		2
127	Hyperbranched Polymers as Clay Surface Modifications for Nanocomposites **2013**, 147-163		2
126	Polypropylene nanocomposites with thermally stable phosphonium- and pyridinium-modified layered silicates: Thermal, mechanical and gas barrier properties. *Journal of Thermoplastic Composite Materials*, **2013**, 26, 1082-1099	1.9	2
125	Barrier Properties of Renewable Nanomaterials **2013**, 541-564		2
124	Polymers from Renewable Resources **2011**, 1-22		2

123	Amine-Functionalized Carbon Nanotubes **2011**, 135-158		2
122	Covalent Binding of Nanoparticles on Carbon Nanotubes **2011**, 113-134		2
121	The Effects of Structures on Properties of New Polytriazole Resins **2011**, 243-267		2
120	Gas-Phase-Assisted Surface Polymerization and Thereby Preparation of Polymer Nanocomposites **2011**, 89-104		2
119	Natural Polymers A Boon for Drug Delivery **2011**, 429-472		2
118	Modeling of tensile modulus of polyolefin-layered silicate nanocomposites: modified micro-mechanical and statistical methods. *Journal of Polymer Engineering*, **2012**, 32, 519-529	1.4	2
117	Barrier Resistance Generation in Polymer Nanocomposites173-193		2
116	Characterization of advanced morphologies in polymer dispersions by AUC and HDC. *Colloid and Polymer Science*, **2010**, 288, 25-35	2.4	2
115	Utilization of Waste Carbon as Reinforcement in Thermoset Composites **2016**, 203-229		2
114	ScCO2 Techniques for Surface Modification of Micro- and Nanoparticles109-150		2
113	Polyolefin - Graphene Oxide Nanocomposites: Interfacial Interactions and Low Temperature Brittleness Reduction. *Macromolecular Symposia*, **2014**, 340, 37-43	0.8	1
112	Multiscale Stochastic Finite Elements Modeling of Polymer Nanocomposites **2013**, 143-168		1
111	Self-Consistent Field Theory Modeling of Polymer Nanocomposites **2013**, 11-37		1
110	Solvent Effects in Polymer Based Organic Photovoltaics **2013**, 137-161		1
109	Dissipative Particles Dynamics Model for Polymer Nanocomposites **2013**, 215-235		1
108	Reptation Model for the Dynamics and Rheology of Particle Reinforced Polymer Chains **2013**, 63-94		1
107	High CEC generation and surface modification in mica and vermiculite minerals. *Philosophical Magazine*, **2013**, 93, 777-793	1.6	1
106	Surface Modification of Natural and Synthetic Polymeric Fibers for TiO2-Based Nanocomposites **2015**, 191-220		1

105	Biopolymer-Nanocomposites with Silica, Alumino-Silicate and Graphene: Structural Characterization and Properties. *Macromolecular Symposia*, **2015**, 354, 221-229	0.8	1
104	Preparation and Characterization of PVDF-Based Nanocomposites **2014**, 131-144		1
103	Near IR Spectroscopy for the Characterization of Dispersion in Polymer Clay Nanocomposites **2014**, 241-266		1
102	Optimal mechanical and gas permeation properties of polypropylene-organically modified montmorillonite (PP-OMMT) nanocomposites. *Journal of Polymer Engineering*, **2014**, 34, 501-509	1.4	1
101	Characterization of polyethylene-based multiphase systems containing zero- and two-dimensional nanoparticulate reinforcement materials by analytical electron and atomic force microscopy. *Journal of Thermoplastic Composite Materials*, **2014**, 27, 845-864	1.9	1
100	Thermal Characterization of Fillers and Polymer Nanocomposites **2012**, 13-32		1
99	Modeling of Tensile Modulus of Polyolefin-Layered Silicate Nanocomposites: Modified Halpin Tsai Models. *Advanced Composites Letters*, **2012**, 21, 096369351202100	1.2	1
98	Fluid-Bed Technology for Encapsulation and Coating Purposes **2013**, 71-105		1
97	Tunable Encapsulation Property of Amphiphilic Polymer Based on Hyperbranched Polyethylenimine **2013**, 225-253		1
96	Polymer Layers by Initiated CVD for Thin Film Gas Barrier Encapsulation **2013**, 255-289		1
95	Encapsulation Methods with Supercritical Carbon Dioxide: Basis and Applications **2013**, 391-424		1
94	Polymer-Inorganic Hybrid Solar Cells **2013**, 163-197		1
93	New Methods for the Preparation of Metal and Clay Thermoset Nanocomposites **2013**, 165-188		1
92	Unsaturated Polyester Resin Clay Hybrid Nanocomposites **2013**, 129-146		1
91	Mechanical Performance of Thermoset Clay Nanocomposites **2013**, 109-128		1
90	P3HT MWNT Nanocomposites by In-situ Polymerization and Their Properties **2011**, 303-329		1
89	Polyamide Nanocomposites by In-situ Polymerization **2011**, 27-51		1
88	Organic Functionalization of Nanotubes by Dipolar Cycloaddition **2011**, 289-308		1

87	Olive Oil Wastewater as a Renewable Resource for Production of Polyhydroxyalkanoates **2011**, 175-219		1
86	Polyolefin□Clay Nanocomposites by In-situ Polymerization **2011**, 53-88		1
85	Molecular Weight Distributions of Polymer Solutions: Combination of Field Flow Fractionation (FFF) and Analytical Ultracentrifugation (AUC). *Journal of Dispersion Science and Technology*, **2012**, 33, 631-638	1.5	1
84	Carbon Nanotubes: An Introduction **2010**, 1-13		1
83	Miniemulsion Polymerization: An Overview **2010**, 1-23		1
82	Characterization of Rheological Properties of Polymer Nanocomposites251-281		1
81	Fabrication and Surface Characterization of Spherical Fly Ash Particle□Reinforced Epoxy Resin **2016**, 39-66		1
80	Tribological Behavior of PA/Rice Bran and PA/Glass Bead Composites **2016**, 181-202		1
79	Characterization of Nanocomposite Materials: An Overview1-12		1
78	PVT Characterization of Polymeric Nanocomposites75-114		1
77	Evaluation of Ni0.5Zn0.5Fe2O4 nanoparticles as anti-corrosion pigment in organic coatings for carbon steel. *Anti-Corrosion Methods and Materials*, **2017**, 64, 644-653	0.8	0
76	Development of Polymer-Based Composite Coatings for the Gas Exploration Industry: Polyoxometalate Doped Conducting Polymer Based Self-Healing Pigment for Polymer Coatings. *Materials Science Forum*, **2016**, 879, 60-65	0.4	0
75	Modern Experimental and Theoretical Analysis Methods of Particulate-Filled Nanocomposites Structure **2013**, 39-62		0
74	Computer-Aided Product Design of Wheat Straw Polypropylene Composites **2013**, 237-253		0
73	In-situ Synthesis and Properties of Epoxy Nanocomposites **2011**, 221-244		0
72	Molecular Oxygen Adsorbed on Gallium Doped Graphene: A First-Principles Study. *Materials Science Forum*, **2017**, 890, 117-120	0.4	
71	Convergence of Experimental and Modeling Studies **2013**, 1-10		
70	Multiscale Modeling Approach for Polymeric Nanocomposites **2013**, 95-128		

69	Modeling of Oxygen Permeation and Mechanical Properties of Polypropylene-Layered Silicate Nanocomposites Using DoE Designs **2013**, 129-142	
68	Numerical/Analytical Model for Nanotube-Reinforced Nanocomposites **2013**, 201-214	
67	Influence of Filler Surface Modification on the Properties of PP Composites **2015**, 83-108	
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57	Surface modification of layered silicates. I. Factors affecting thermal stability. *Philosophical Magazine*, **2012**, 92, 4498-4517	1.6
56	Interactions Between Components. *Engineering Materials*, **2012**, 163-181	0.4
55	Nano to Micro and Macro Characterization. *Engineering Materials*, **2012**, 183-197	0.4
54	Epoxy-layered silicate nanocomposites: effect of cross-linking amines and fillers on curing, morphology and oxygen permeation. *Journal of Reinforced Plastics and Composites*, **2012**, 31, 739-747	2.9
53	Melting and crystallization transitions in organically modified layered silicates studied with differential scanning calorimetry. *Philosophical Magazine*, **2012**, 92, 3968-3982	1.6
52	Microscopic analysis of the surface functionalization of polymer particles and subsequent grafting of polymer chains from the surface. *Journal of Electron Microscopy*, **2012**, 61, 367-80	

51 Flame-Retardancy Characterization of Polymer Nanocomposites **2012**, 33-74

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