Hossein A Khonakdar

List of Publications by Year
in descending order

113	2,599	147801	276875
papers	citations	31 h-index	41 g-index

114	114	114	2118
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Functionalized graphene nanoplatelets/poly (lactic acid)/chitosan nanocomposites: Mechanical, biodegradability, and electrical conductivity properties. Polymer Composites, 2022, 43, 411-421.	4.6	40
2	Synthesis and biological evaluation of novel tetranuclear cyclopalladated complex bearing thiosemicarbazone scaffold ligand: Interactions with doubleâ€strand DNA, coronavirus, and molecular modeling studies. Applied Organometallic Chemistry, 2022, 36, .	3.5	1
3	Conductive poly(Îµâ€caprolactone)/polylactic acid scaffolds for tissue engineering applications: Synergy effect of zirconium nanoparticles and polypyrrole. Polymers for Advanced Technologies, 2022, 33, 1427-1441.	3.2	13
4	Development of Flexible Nanocomposites Based on Poly(Îµ-caprolactone) for Tissue Engineering Application: The Contributing Role of Poly(glycerol succinic acid) and Polypyrrole. European Polymer Journal, 2022, 164, 110984.	5.4	14
5	Mechanical properties of bamboo fiber-reinforced polymer composites: a review of recent case studies. Journal of Materials Science, 2022, 57, 3143-3167.	3.7	53
6	Flexible high dielectric polystyrene/ethyleneâ€Îˆâ€octene copolymer/graphene nanocomposites: Tuning the morphology and dielectric properties by graphene's surface polarity. Polymers for Advanced Technologies, 2022, 33, 937-951.	3.2	12
7	A review of recent progress in improving the fracture toughness of epoxyâ€based composites using carbonaceous nanofillers. Polymer Composites, 2022, 43, 1871-1886.	4.6	64
8	Polystyrene/polyolefin elastomer/halloysite nanotubes blend nanocomposites: Morphologyâ€thermal degradation kinetics relationship. Polymers for Advanced Technologies, 2022, 33, 2149-2165.	3.2	17
9	In-depth study of mechanical properties of poly(lactic acid)/thermoplastic polyurethane/hydroxyapatite blend nanocomposites. Journal of Materials Science, 2022, 57, 7250-7264.	3.7	18
10	Evaluating the mechanical, thermal, and antibacterial properties of poly (lactic acid)/silicone rubber blends reinforced with (3â€aminopropyl) triethoxysilaneâ€functionalized titanium dioxide nanoparticles. Polymer Composites, 2022, 43, 4165-4178.	4.6	22
11	Investigating the Effects of Graphene Content and Application Method on Surface Properties of Vinyl Ester/Silica Aerogel Coatings. Macromolecular Research, 2022, 30, 334-341.	2.4	5
12	A review of electrical and thermal conductivities of epoxy resin systems reinforced with carbon nanotubes and graphene-based nanoparticles. Polymer Testing, 2022, 112, 107645.	4.8	51
13	Effect of re-modified nanoclays on the extent of transesterification in poly (ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 Communications, 2022, 32, 103872.	1.9	1
14	Investigation of the cure kinetics and thermal stability of an epoxy system containing cystamine as curing agent. Polymers for Advanced Technologies, 2021, 32, 1251-1261.	3.2	18
15	Improved surface properties in spray-coated PU/TiO2/graphene hybrid nanocomposites through nonsolvent-induced phase separation. Surface and Coatings Technology, 2021, 405, 126507.	4.8	16
16	Vinyl ester/silica aerogel nanocomposite coatings with enhanced hydrophobicity and corrosion protection properties. Polymers for Advanced Technologies, 2021, 32, 2176-2184.	3.2	8
17	Review of Bioprinting in Regenerative Medicine: Naturally Derived Bioinks and Stem Cells. ACS Applied Bio Materials, 2021, 4, 4049-4070.	4.6	19
18	Impact of poly(Îµâ€caprolactone) on the thermal, <scp>dynamicâ€mechanical</scp> and crystallization behavior of polyvinylidene fluoride/poly(Îµâ€caprolactone) blends in the presence of <scp>KIT</scp>â€6 mesoporous particles. Polymers for Advanced Technologies, 2021, 32, 4424-4439.	3.2	11

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19	Polycarbonate/poly(methyl methacrylate)/silica aerogel blend composites for advanced transparent thermal insulations: Mechanical, thermal, and optical studies. Polymer Composites, 2021, 42, 5323-5334.	4.6	30
20	Toughening of epoxy resin systems using coreâ€“shell rubber particles: a literature review. Journal of Materials Science, 2021, 56, 18345-18367.	3.7	44
21	Development of physical, mechanical, antibacterial and cell growth properties of poly(glycerol) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Chemistry, 2021, 12, 6263-6282.	3.9	18
22	An assessment on the effect of trifluoropropyl-POSS and blend composition on morphological, thermal and thermomechanical properties of PLA/TPU. Journal of Thermal Analysis and Calorimetry, 2020, 139, 279-292.	3.6	8
23	Development of degradable poly(ethylene terephthalate)â€based nanocomposites with the aid of polylactic acid and graphenic materials: Thermal, thermoâ€oxidative and hydrolytic degradation characteristics. Journal of Applied Polymer Science, 2020, 137, 48466.	2.6	10
24	Melt rheology and interfacial properties of binary and ternary blends of PS, EOC, and SEBS. Journal of Applied Polymer Science, 2020, 137, 48791.	2.6	4
25	Assessment of compatibilization role of nanoclay in immiscible polystyrene/ethyleneâ€“octene copolymer blends via wideâ€angle Xâ€ray scattering, microstructure, rheological analyses, and mechanical properties. Journal of Applied Polymer Science, 2020, 137, 48748.	2.6	5
26	Developing antibacterial superhydrophobic coatings based on polydimethylsiloxane/silver phosphate nanocomposites: Assessment of surface morphology, roughness and chemistry. Progress in Organic Coatings, 2020, 149, 105944.	3.9	19
27	A Theoretical and Experimental Analysis of the Effect of Nanoclay on Gas Permâ€Selectivity of Biodegradable PLA/EVA Blends in the Presence and Absence of Compatibilizer. Macromolecular Materials and Engineering, 2020, 305, 2000433.	3.6	8
28	Phosphorusâ€containing polyamide Mg(‹scp›OH‹/scp›)‹sub›2‹/sub› nanocomposite coating on surface of poly(vinyl chloride) thin film: Study on thermal stability, flammability, and mechanical properties. Polymers for Advanced Technologies, 2020, 31, 2360-2370.	3.2	7
29	Î²â€Polymorph enhancement in poly(vinylidene fluoride) by blending with polyamide 6 and barium titanate nanoparticles. Journal of Applied Polymer Science, 2020, 137, 49403.	2.6	4
30	Influence of polypropylene and nanoclay on thermal and thermo-oxidative degradation of poly(lactide) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.7	17
31	Spectral and molecular docking studies of nucleic acids/protein binding interactions of a novel organometallic palladium (II) complex containing bioactive PTA ligands: Its synthesis, anticancer effects and encapsulation in albumin nanoparticles. Applied Organometallic Chemistry, 2020, 34, e5839.	3.5	7
32	Baked hydrogel from corn starch and chitosan blends crossâ€linked by citric acid: Preparation and properties. Polymers for Advanced Technologies, 2020, 31, 1256-1269.	3.2	47
33	Spin-coated polyvinylidene fluoride/graphene nanocomposite thin films with improved Î²-phase content and electrical conductivity. Journal of Materials Science, 2020, 55, 6696-6707.	3.7	14
34	Using solvent-free approach for preparing innovative biopolymer nanocomposites based on PGS/gelatin. European Polymer Journal, 2020, 131, 109720.	5.4	42
35	Fabrication of Carboxymethyl Chitosan Nanoparticles to Deliver Paclitaxel for Melanoma Treatment. ChemNanoMat, 2020, 6, 1373-1385.	2.8	16
36	Evaluating the effect of hydroxyapatite nanoparticles on morphology, thermal stability and dynamic mechanical properties of multicomponent blend systems based on polylactic acid/Starch/Polycaprolactone. Journal of Vinyl and Additive Technology, 2019, 25, E83.	3.4	15

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37	Solid State Viscoelastic Properties, Morphological and Melt Rheological Studies on PLA/TPU/POSS Nanocomposites. Polymer-Plastics Technology and Materials, 2019, 58, 1036-1045.	1.3	2
38	Towards an efficient and durable superhydrophobic mesh coated by PDMS/TiO2 nanocomposites for oil/water separation. Applied Surface Science, 2019, 492, 862-870.	6.1	42
39	An experimental and theoretical mechanistic analysis of thermal degradation of polypropylene/polylactic acid/clay nanocomposites. Polymers for Advanced Technologies, 2019, 30, 2695-2706.	3.2	27
40	Nonisothermal crystallization kinetic studies on melt processed poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (terephthala nanoplatelets. Journal of Applied Polymer Science, 2019, 136, 47569.	2.6	19
41	Physicomechanical and antimicrobial characteristics of hydrogel based on poly(vinyl alcohol): Performance improvement via inclusion of chitosanâ€modified nanoclay. Journal of Applied Polymer Science, 2019, 136, 47444.	2.6	7
42	Investigation on surface properties of superhydrophobic nanocomposites based on polyvinyl chloride and correlation with cell adhesion behavior. Polymers for Advanced Technologies, 2019, 30, 1027-1035.	3.2	11
43	Thermal, thermomechanical, and morphological characterization of poly(vinyl chloride) (PVC)/ZnO nanocomposites: PVC molecular weight effect. Journal of Vinyl and Additive Technology, 2019, 25, E63.	3.4	8
44	Disclosing the role of surface and bulk erosion on the viscoelastic behavior of biodegradable poly(ÎµÂ€caprolactone)/poly(lactic acid)/hydroxyapatite nanocomposites. Journal of Applied Polymer Science, 2019, 136, 47151.	2.6	13
45	Study on the surface morphology and wettability of nanocomposite films based on poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Composites, 2019, 40, E127.	4.6	2
46	Investigating the effect of surface composition and morphology on oil/water separation efficiency of sponges coated with polymer nanocomposites. Polymer Composites, 2019, 40, E431.	4.6	5
47	Temperature and frequencyâ€dependent creep and recovery studies on PVDFâ€HFP/organoâ€modified layered double hydroxides nanocomposites. Journal of Applied Polymer Science, 2018, 135, 46352.	2.6	9
48	Morphology, drug release behavior, thermal, and mechanical properties of poly(ethylene oxide) (PEO)/poly(vinyl pyrrolidone) (PVP) blends. Journal of Applied Polymer Science, 2018, 135, 46403.	2.6	15
49	Chemically Functionalized Graphene Nanosheets and Their Influence on Thermal Stability, Mechanical, Morphological, and Electrical Properties of Poly(methyl methacrylate)/Poly(ethylene Oxide) Blend. Polymer-Plastics Technology and Engineering, 2018, 57, 156-165.	1.9	5
50	Cure kinetics of epoxy/chicken eggshell biowaste composites: Isothermal calorimetric and chemorheological analyses. Progress in Organic Coatings, 2018, 114, 208-215.	3.9	49
51	A combined experimental and theoretical approach to quantitative assessment of microstructure in PLA/PP/Organo-Clay nanocomposites; wide-angle x-ray scattering and rheological analysis. Composites Part B: Engineering, 2018, 137, 235-246.	12.0	26
52	Experimental analysis and prediction of viscoelastic creep properties of PP/EVA/LDH nanocomposites using master curves based on timeâ€“temperature superposition. Journal of Applied Polymer Science, 2018, 135, 46725.	2.6	10
53	Temperature dependency of gas barrier properties of biodegradable PP/PLA/nanoclay films: Experimental analyses with a molecular dynamics simulation approach. Journal of Applied Polymer Science, 2018, 135, 46665.	2.6	22
54	An investigation of TiO₂ nanoparticles effect on morphology, thermal, and mechanical properties of epoxy/silica composites. Journal of Vinyl and Additive Technology, 2017, 23, E216.	3.4	13

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55	Analysis of dynamic oscillatory rheological properties of PP/EVA/organo-modified LDH ternary hybrids based on generalized Newtonian fluid and generalized linear viscoelastic approaches. Polymer Bulletin, 2017, 74, 465-482.	3.3	11
56	Thermal stability and flammability of ethylene vinyl acetate copolymers in presence of nanoclay and a halogenâ€free flame retardant. Journal of Vinyl and Additive Technology, 2017, 23, E92.	3.4	4
57	POSS fernlike structure as a support for TiO2 nanoparticles in fabrication of superhydrophobic polymer-based nanocomposite surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 520, 514-521.	4.7	16
58	Using a Î²-Cyclodextrin-functional Fe₃O₄ as a Reinforcement of PLA: Synthesis, Thermal, and Combustion Properties. Polymer-Plastics Technology and Engineering, 2017, 56, 1366-1373.	1.9	9
59	Thermal, combustion and optical properties of new polyimide/ODA-functionalized Fe3O4 nanocomposites containing xanthene and amide groups. Journal of Thermal Analysis and Calorimetry, 2017, 129, 147-159.	3.6	11
60	Conceptualizing Physical and Chemical Interactions in the Compatibilized HDPE/PA6 and HDPE/EVOH Pairs: Theoretical and Experimental Analyses. Polymer-Plastics Technology and Engineering, 2017, 56, 1986-1996.	1.9	6
61	To What Extent Can Hyperelastic Models Make Sense the Effect of Clay Surface Treatment on the Mechanical Properties of Elastomeric Nanocomposites?. Macromolecular Materials and Engineering, 2017, 302, 1700036.	3.6	16
62	Calorimetric analysis and molecular dynamics simulation of cure kinetics of epoxy/chitosan-modified Fe3O4 nanocomposites. Progress in Organic Coatings, 2017, 112, 176-186.	3.9	56
63	Influence of Graphene Oxide on Crystallization Behavior and Chain Folding Surface Free Energy of Poly(vinylidenefluorideâ€coâ€hexafluoropropylene). Macromolecular Chemistry and Physics, 2017, 218, 1700103.	2.2	21
64	Melt linear viscoelastic rheological analysis to assess the microstructure of polyamide 6â€“acrylonitrile butadiene styrene terpolymer immiscible blends via the application of fractional Zener and Coran models. Journal of Applied Polymer Science, 2017, 134, 45423.	2.6	0
65	A probe into the status quo of interfacial adhesion in the compatibilized ternary blends with core/shell droplets: Selective versus dictated compatibilization. Journal of Applied Polymer Science, 2017, 134, 45503.	2.6	9
66	Amide-acid functional SiO2nanocomposites based on new semi-crystalline poly(ether-sulfone-amide): thermal, combustion and mechanical studies. Polymer International, 2017, 66, 133-143.	3.1	9
67	Morphology and physical properties of electrospun polyethylene oxide/polyacrylonitrile mats and related grapheneâ€based nanocomposites. Journal of Vinyl and Additive Technology, 2017, 23, E152.	3.4	5
68	Conversion of n-heptane over different catalysts: Effect of catalyst-to-oil ratio and temperature. Petroleum Science and Technology, 2017, 35, 2201-2207.	1.5	2
69	Biodegradation and hydrolysis studies on polypropylene/polylactide/organo-clay nanocomposites. Polymer Bulletin, 2016, 73, 3287-3304.	3.3	14
70	Rheological, morphological and mechanical investigations on ethylene octene copolymer toughened polypropylene prepared by continuous electron induced reactive processing. RSC Advances, 2016, 6, 24651-24660.	3.6	29
71	Study on the effects of non-solvent and nanoparticle concentrations on surface properties of water-repellent biocompatible l-lactide/glycolide/trimethylene carbonate terpolymers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 502, 168-175.	4.7	17
72	Influence of trifluoropropyl-POSS nanoparticles on the microstructure, rheological, thermal and thermomechanical properties of PLA. RSC Advances, 2016, 6, 37149-37159.	3.6	35

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73	A promising approach to low electrical percolation threshold in PMMA nanocomposites by using MWCNT-PEO predispersions. Materials and Design, 2016, 111, 253-262.	7.0	23
74	Microstructure and Properties of Polypropylene/Clay Nanocomposites. Journal of Macromolecular Science - Physics, 2016, 55, 1022-1038.	1.0	10
75	Poly(ethylene succinate) nanocomposites containing inorganic WS2 nanotubes with improved thermal properties: A kinetic study. Composites Part B: Engineering, 2016, 98, 496-507.	12.0	10
76	Thermal and dynamic mechanical properties of PP/EVA nanocomposites containing organo-modified layered double hydroxides. Composites Part B: Engineering, 2016, 103, 122-130.	12.0	47
77	Chitosan and imide-functional Fe₃O₄ nanoparticles to prepare new xanthene based poly(ether-imide) nanocomposites. RSC Advances, 2016, 6, 112568-112575.	3.6	20
78	Superhydrophobic filter paper via an improved phase separation process for oil/water separation: study on surface morphology, composition and wettability. Cellulose, 2016, 23, 3913-3924.	4.9	41
79	Enhanced hydrophobicity of polyurethane via non-solvent induced surface aggregation of silica nanoparticles. Journal of Colloid and Interface Science, 2016, 478, 117-126.	9.4	39
80	An Investigation on Compatibilization Threshold in the Interface of Polypropylene/Polylactic Acid Blends Using Rheological Studies. Journal of Vinyl and Additive Technology, 2016, 22, 19-28.	3.4	21
81	Incorporation of inorganic fullerene-like WS₂ into poly(ethylene succinate) to prepare novel biodegradable nanocomposites: a study on isothermal and dynamic crystallization. RSC Advances, 2016, 6, 4925-4935.	3.6	24
82	Tuning cell adhesion on polymeric and nanocomposite surfaces: Role of topography versus superhydrophobicity. Materials Science and Engineering C, 2016, 63, 609-615.	7.3	37
83	On Localization of Clay Nanoparticles in Polypropylene/poly(Lactic Acid) Blend Nanocomposites: Correlation with Mechanical Properties. Journal of Macromolecular Science - Physics, 2016, 55, 344-360.	1.0	20
84	Self-cleaning behavior in polyurethane/silica coatings via formation of a hierarchical packed morphology of nanoparticles. Applied Surface Science, 2016, 368, 216-223.	6.1	31
85	Application of linear rheology in determination of nanoclay localization in PLA/EVA/Clay nanocomposites: Correlation with microstructure and thermal properties. Composites Part B: Engineering, 2016, 86, 273-284.	12.0	66
86	Development of one-step synthesized LDH reinforced multifunctional poly(amideâ€“imide) matrix containing xanthene rings: study on thermal stability and flame retardancy. RSC Advances, 2015, 5, 53726-53735.	3.6	36
87	On O2 gas permeability of PP/PLA/clay nanocomposites: A molecular dynamic simulation approach. Polymer Testing, 2015, 45, 139-151.	4.8	44
88	On the Melt Rheological Behavior and Microstructure of Nanoclay-Filled Polyethylene/Ethylene Vinyl Acetate (PE/EVA) Blend. Polymer-Plastics Technology and Engineering, 2015, 54, 1571-1584.	1.9	10
89	Application of mean-field theory in PP/EVA blends by focusing on dynamic mechanical properties in correlation with miscibility analysis. Composites Part B: Engineering, 2015, 79, 74-82.	12.0	31
90	Microstructure and non-isothermal crystallization behavior of PP/PLA/clay hybrid nanocomposites. Journal of Thermal Analysis and Calorimetry, 2015, 121, 1321-1332.	3.6	23

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91	In depth analysis of micro-mechanism of mechanical property alternations in PLA/EVA/clay nanocomposites: A combined theoretical and experimental approach. Materials and Design, 2015, 88, 1277-1289.	7.0	54
92	Experimental and theoretical analyses of mechanical properties of PP/PLA/clay nanocomposites. Composites Part B: Engineering, 2015, 69, 133-144.	12.0	104
93	Miscibility analysis, viscoelastic properties and morphology of cyclic olefin copolymer/polyolefin elastomer (COC/POE) blends. Composites Part B: Engineering, 2015, 69, 111-119.	12.0	29
94	Crystallization and melting behavior of poly (ethylene succinate) in presence of graphene nanoplatelets. Thermochimica Acta, 2014, 586, 17-24.	2.7	22
95	Lap shear strength and thermal stability of diglycidyl ether of bisphenol a/epoxy novolac adhesives with nanoreinforcing fillers. Journal of Applied Polymer Science, 2014, 131, .	2.6	42
96	Dynamic and Transient Shear Startâ€Up Flow Experiments for Analyzing Nanoclay Localization in PP/PET Blends: Correlation with Microstructure. Macromolecular Materials and Engineering, 2013, 298, 113-126.	3.6	21
97	Poly(ethylene succinate)/single-walled carbon nanotube composites: a study on crystallization. Polymer Bulletin, 2013, 70, 3463-3474.	3.3	19
98	MWNTâ€filled PC/ABS blends: Correlation of morphology with rheological and electrical response. Journal of Applied Polymer Science, 2013, 130, 739-748.	2.6	41
99	Rheologyâ€morphology correlation in <scp>PET/PP</scp> blends: Influence of type of compatibilizer. Journal of Vinyl and Additive Technology, 2013, 19, 25-30.	3.4	29
100	On nanoclay localization in polypropylene/poly(ethylene terephthalate) blends: Correlation with thermal and mechanical properties. Materials & Design, 2013, 45, 110-117.	5.1	37
101	The kinetic analysis of isothermal curing reaction of an epoxy resin-glassflake nanocomposite. Thermochimica Acta, 2012, 549, 81-86.	2.7	35
102	Influence of Interfacial Activity and Micelle Formation on Rheological Behavior and Microstructure of Reactively Compatibilized PP/PET Blends. Macromolecular Materials and Engineering, 2012, 297, 312-328.	3.6	35
103	Evaluation of curing kinetic parameters of an epoxy/polyaminoamide/nano-glassflake system by non-isothermal differential scanning calorimetry. Thermochimica Acta, 2012, 533, 10-15.	2.7	26
104	Investigating the effect of nanolayered silicates on blend segmental dynamics and minor component relaxation behavior in poly(ethylene oxide)/poly(methyl methacrylate) miscible blends. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 318-326.	2.1	15
105	An assessment of the role of morphology in thermal/thermo-oxidative degradation mechanism of PP/EVA/clay nanocomposites. Polymer Degradation and Stability, 2010, 95, 859-869.	5.8	45
106	Enhanced ionic conductivity in PEO/PMMA glassy miscible blends: Role of nanoâ€confinement of minority component chains. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 2065-2071.	2.1	35
107	Nonisothermal crystallization kinetics and determination of surfaceâ€folding free energy of PP/EVA/OMMT nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 674-684.	2.1	32
108	Structural analysis of multicomponent nanoclay-containing polymer blends through simple model systems. Polymer, 2008, 49, 2119-2126.	3.8	52

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109	Thermal and mechanical properties of uncrosslinked and chemically crosslinked polyethylene/ethylene vinyl acetate copolymer blends. Journal of Applied Polymer Science, 2007, 103, 3261-3270.	2.6	38
110	Correlation of morphology and rheological response of interfacially modified PTT/m-LLDPE blends with varying extent of modification. Polymer, 2005, 46, 5082-5093.	3.8	72
111	Effect of a novel green modification of alumina nanoparticles on the curing kinetics and electrical insulation properties of epoxy composites. Polymers for Advanced Technologies, 0, , .	3.2	24
112	Thermo-rheological probe of microstructural evolution and degradation pathway in the flame-retarded PP/EVA/NOR/clay nanocomposites. Rheologica Acta, 0, , 1.	2.4	6
113	Surface modification of polyurethane nanocomposite films via nonsolventâ€induced phase separation accelerated by graphene nanoplatelets. Polymer Composites, 0, , .	4.6	0