

Junghwan Shin

List of Publications by Year in descending order

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114
papers

4,979
citations

109137

35
h-index

95083

68
g-index

114
all docs

114
docs citations

114
times ranked

5127
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of MWCNTsâ€‘core/thiophene polymerâ€‘sheath composite nanocables by a cationic surfactantâ€‘assisted chemical oxidative polymerization and their structural properties. <i>Journal of Polymer Science Part A</i> , 2010, 48, 1477-1484.	2.5	276
2	Properties of Waterborne Polyurethane/Functionalized Graphene Sheet Nanocomposites Prepared by an in situ Method. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 1247-1254.	1.1	267
3	Properties of Graphene/Waterborne Polyurethane Nanocomposites Cast from Colloidal Dispersion Mixtures. <i>Journal of Macromolecular Science - Physics</i> , 2012, 51, 197-207.	0.4	263
4	Morphology and properties of waterborne polyurethane/clay nanocomposites. <i>European Polymer Journal</i> , 2003, 39, 85-91.	2.6	252
5	Graphite oxides as effective fire retardants of epoxy resin. <i>Macromolecular Research</i> , 2011, 19, 66-71.	1.0	242
6	Morphological and physical properties of a thermoplastic polyurethane reinforced with functionalized graphene sheet. <i>Polymer International</i> , 2009, 58, 412-417.	1.6	230
7	Preparation and Physical Properties of Waterborne Polyurethane/Functionalized Graphene Sheet Nanocomposites. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 2487-2493.	1.1	223
8	Graphene Modified Lipophilically by Stearic Acid and its Composite With Low Density Polyethylene. <i>Journal of Macromolecular Science - Physics</i> , 2014, 53, 1193-1204.	0.4	182
9	Compatibility of Thermally Reduced Graphene with Polyesters. <i>Journal of Macromolecular Science - Physics</i> , 2016, 55, 1099-1110.	0.4	175
10	Segmented Polythiourethane Elastomers through Sequential Thiolâ€‘Ene and Thiolâ€‘Isocyanate Reactions. <i>Macromolecules</i> , 2009, 42, 3294-3301.	2.2	161
11	Shape-memory behavior of segmented polyurethanes with an amorphous reversible phase: The effect of block length and content. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000, 38, 2652-2657.	2.4	128
12	Shape memory polyurethane containing amorphous reversible phase. <i>Journal of Materials Science</i> , 2000, 35, 1579-1583.	1.7	117
13	Functionalized graphene sheet/polyurethane nanocomposites: Effect of particle size on physical properties. <i>Macromolecular Research</i> , 2011, 19, 809-814.	1.0	102
14	Water vapor permeability of shape memory polyurethane with amorphous reversible phase. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000, 38, 3009-3017.	2.4	97
15	Temperature sensitive water vapour permeability and shape memory effect of polyurethane with crystalline reversible phase and hydrophilic segments. <i>Polymer International</i> , 2000, 49, 1714-1721.	1.6	87
16	Sound damping of a polyurethane foam nanocomposite. <i>Macromolecular Research</i> , 2007, 15, 443-448.	1.0	81
17	Novel stearic acid/graphene coreâ€‘shell composite microcapsule as a phase change material exhibiting high shape stability and performance. <i>Solar Energy Materials and Solar Cells</i> , 2015, 137, 227-234.	3.0	80
18	Graphene prepared by thermal reductionâ€‘exfoliation of graphite oxide: Effect of raw graphite particle size on the properties of graphite oxide and graphene. <i>Materials Research Bulletin</i> , 2015, 70, 651-657.	2.7	72

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19	Miscibility and shape memory property of poly(vinyl chloride)/thermoplastic polyurethane blends. <i>Journal of Materials Science</i> , 2001, 36, 5457-5463.	1.7	71
20	Preparation and Characterization of Poly(ethylene oxide)/Graphene Nanocomposites from an Aqueous Medium. <i>Journal of Macromolecular Science - Physics</i> , 2010, 49, 802-809.	0.4	65
21	Properties of Graphene/Shape Memory Thermoplastic Polyurethane Composites Actuating by Various Methods. <i>Materials</i> , 2014, 7, 1520-1538.	1.3	63
22	Synthesis and characterization of novel polyurethanes based on $\langle N \rangle_1$, $\langle N \rangle_4$ -bis[(4-hydroxyphenyl)methylene]succinohydrazide hard segment. <i>Journal of Applied Polymer Science</i> , 2008, 110, 2315-2320.	1.3	59
23	Novel Thermoresponsive Polymers Tunable by pH. <i>Macromolecules</i> , 2011, 44, 1628-1634.	2.2	58
24	Synthesis, characterization of novel dihydrazide containing polyurethanes based on $\langle N \rangle_1$, $\langle N \rangle_2$ -bis[(4-hydroxyphenyl)methylene]ethanedihydrazide and various diisocyanates. <i>Journal of Applied Polymer Science</i> , 2008, 107, 3401-3407.	1.3	55
25	Synthesis and characterization of novel polyurethanes based on 4-[(4-hydroxyphenyl)iminomethyl]phenol. <i>Macromolecular Research</i> , 2008, 16, 194-199.	1.0	51
26	Thermoresponsive ureido-derivatized polymers: the effect of quaternization on UCST properties. <i>Polymer Chemistry</i> , 2014, 5, 2411.	1.9	49
27	Thiol-Isocyanate-Acrylate ternary networks by selective thiol-click chemistry. <i>Journal of Polymer Science Part A</i> , 2010, 48, 3255-3264.	2.5	48
28	Shape memory and physical properties of poly(ethyl methacrylate)/Na-MMT nanocomposites prepared by macroazoinitiator intercalated in Na-MMT. <i>Composites Science and Technology</i> , 2008, 68, 1919-1926.	3.8	47
29	Synthesis and characterization of novel Schiff base polyurethanes. <i>Journal of Applied Polymer Science</i> , 2009, 113, 2747-2754.	1.3	47
30	Waterborne polyurethane modified with poly(ethylene glycol) macromer for waterproof breathable coating. <i>Progress in Organic Coatings</i> , 2017, 103, 69-75.	1.9	46
31	The properties of polyurethanes with mixed chain extenders and mixed soft segments. <i>Journal of Applied Polymer Science</i> , 1994, 51, 43-49.	1.3	45
32	Enthalpy Relaxation of Photopolymerized Thiol-Ene Networks: Structural Effects. <i>Macromolecules</i> , 2008, 41, 6741-6746.	2.2	43
33	Characterization of mouthguard materials: Physical and mechanical properties of commercialized products. <i>Dental Materials</i> , 2009, 25, 771-780.	1.6	40
34	Thermal and mechanical properties of thermoplastic polyurethane elastomers from different polymerization methods. <i>Polymer International</i> , 1993, 31, 329-333.	1.6	36
35	The modification of graphene with alcohols and its use in shape memory polyurethane composites. <i>Polymer International</i> , 2013, 62, 54-63.	1.6	36
36	Alumina-coated graphene nanosheet and its composite of acrylic rubber. <i>Journal of Colloid and Interface Science</i> , 2014, 416, 38-43.	5.0	36

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37	Thermoresponsive fluorinated polyacrylamides with low cytotoxicity. <i>Polymer Chemistry</i> , 2013, 4, 2219-2223.	1.9	35
38	Super-tough functionalized graphene paper as a high-capacity anode for lithium ion batteries. <i>Chemical Engineering Journal</i> , 2014, 250, 257-266.	6.6	35
39	Effects of Chemical Modification of Thiol-ene Networks on Enthalpy Relaxation. <i>Macromolecules</i> , 2009, 42, 6549-6557.	2.2	34
40	Ultralow density polyethylene blends with polypropylene. <i>Polymer Engineering and Science</i> , 1991, 31, 944-953.	1.5	33
41	Structure and properties of EVOH/organoclay nanocomposites. <i>Journal of Materials Science</i> , 2005, 40, 3783-3787.	1.7	33
42	Solid-state functionalization of graphene with amino acids toward water-dispersity: implications on a composite with polyaniline and its characteristics as a supercapacitor electrode material. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12526.	5.2	32
43	Compatibility enhancement of ABS/PVC blends. <i>Journal of Applied Polymer Science</i> , 1998, 70, 705-709.	1.3	31
44	Properties of waterborne polyurethane/nanosilica composite. <i>Macromolecular Research</i> , 2003, 11, 198-201.	1.0	31
45	Morphology and properties of polyacrylonitrile/Na-MMT nanocomposites prepared via in-situ polymerization with macroazoinitiator. <i>Macromolecular Research</i> , 2006, 14, 312-317.	1.0	30
46	Properties of polythiourethanes prepared by thiol-isocyanate click reaction. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46070.	1.3	29
47	Melt rheology of poly(ethylene terephthalate), polyarylate, and their blends. <i>Journal of Applied Polymer Science</i> , 1990, 40, 1805-1818.	1.3	28
48	Binary blends of nylons with ethylene vinyl alcohol copolymers: Morphological, thermal, rheological, and mechanical behavior. <i>Polymer Engineering and Science</i> , 1990, 30, 341-349.	1.5	27
49	Shape memory effect of poly(methylene-1,3-cyclopentane) and its copolymer with polyethylene. <i>Polymer International</i> , 2002, 51, 275-280.	1.6	25
50	Compatibilizing effect of graphite oxide in graphene/PMMA nanocomposites. <i>Macromolecular Research</i> , 2009, 17, 626-629.	1.0	25
51	Effect of graphene doping of holographic polymer-dispersed liquid crystals. <i>Journal of Polymer Science Part A</i> , 2012, 50, 1418-1423.	2.5	24
52	Characterization of mouthguard materials: Thermal properties of commercialized products. <i>Dental Materials</i> , 2009, 25, 1593-1602.	1.6	23
53	Electrically Conductive Graphene/Poly(methyl methacrylate) Composites with Ultra-Low Percolation Threshold by Electrostatic Self-Assembly in Aqueous Medium. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 770-782.	1.1	23
54	Effect of pyrene treatment on the properties of graphene/epoxy nanocomposites. <i>Macromolecular Research</i> , 2010, 18, 1125-1128.	1.0	22

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55	Effects of Monomer Functionality and Hydrogen Bonding on the Polymerization Kinetics and Properties of Thiol-ene Networks. <i>Macromolecules</i> , 2009, 42, 2994-2999.	2.2	21
56	Aluminum hydroxide-CNT hybrid material for synergizing the thermal conductivity of alumina sphere/thermoplastic polyurethane composite with minimal increase of electrical conductivity. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 33, 150-155.	2.9	21
57	Properties of Waterborne Polyurethane/PMMA/Clay Hybrid Materials. <i>Journal of Macromolecular Science - Physics</i> , 2003, 42, 1153-1167.	0.4	20
58	Physical and chemical modifications of thiol-ene networks to control activation energy of enthalpy relaxation. <i>Polymer</i> , 2009, 50, 6281-6286.	1.8	19
59	Properties of Waterborne Polyurethanes Based on Polycarbonate Diol Reinforced with Organophilic Clay. <i>Journal of Macromolecular Science - Physics</i> , 2003, 42, 1249-1263.	0.4	18
60	Thermoplastic polyurethane elastomer/thermoplastic polyolefin elastomer blends compatibilized with a polyolefinic segment in TPU. <i>Macromolecular Research</i> , 2010, 18, 177-184.	1.0	18
61	Direct covalent modification of thermally exfoliated graphene forming functionalized graphene stably dispersible in water and poly(vinyl alcohol). <i>Colloid and Polymer Science</i> , 2013, 291, 2365-2374.	1.0	18
62	Miscibility of thermoplastic polyurethane elastomers with chlorine-containing polymers. <i>Polymer International</i> , 1992, 29, 115-120.	1.6	16
63	Effect of molecular structure on performance of electroactive ionic acrylic copolymer-platinum composites. <i>Journal of Applied Polymer Science</i> , 2006, 99, 1732-1739.	1.3	16
64	Polyarylate-polystyrene block copolymer from macro-azoinitiator: Synthesis and its thermal properties. <i>Journal of Polymer Science Part A</i> , 1993, 31, 435-441.	2.5	15
65	The properties of functionalized graphene sheet/poly(ethyl methacrylate) nanocomposites: The effects of preparation method. <i>Macromolecular Research</i> , 2011, 19, 379-384.	1.0	15
66	Dynamic mechanical properties of poly(vinyl chloride) and polyurethane carboxylate blends. <i>Journal of Applied Polymer Science</i> , 1994, 51, 2187-2190.	1.3	14
67	Preparation of poly(methyl methacrylate)/Na-MMT Nanocomposites via in-Situ polymerization with macroazoinitiator. <i>Macromolecular Research</i> , 2005, 13, 102-106.	1.0	14
68	Inorganic-organic hybrid nanoporous materials as adsorbent to remove VOCs. <i>Journal of Industrial and Engineering Chemistry</i> , 2008, 14, 194-201.	2.9	14
69	Compatibilizing effect of polyarylate-polystyrene block copolymer in polyarylate/polystyrene blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1994, 32, 21-28.	2.4	13
70	Properties of reactive hot melt polyurethane adhesives with acrylic polymer or macromonomer modifications. <i>Journal of Applied Polymer Science</i> , 2008, 109, 1757-1763.	1.3	13
71	Characterization of ultra low density polyethylenes (PE-U LD). <i>Angewandte Makromolekulare Chemie</i> , 1992, 194, 91-101.	0.3	11
72	Thermal and mechanical properties of the polymers synthesized by the sequential polymerization of propylene and 1-hexadecene. <i>Journal of Applied Polymer Science</i> , 2002, 84, 1709-1715.	1.3	11

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73	Characteristics of polystyrene/organoclay nanocomposites prepared by in-situ polymerization with macroazoinitiator containing poly(dimethylsiloxane) segment. <i>Journal of Applied Polymer Science</i> , 2006, 99, 2841-2847.	1.3	11
74	Preparation and Characterization of Electroactive Anion-Exchange Acrylic Polymer-Gold Composites. <i>Journal of Macromolecular Science - Physics</i> , 2006, 45, 789-799.	0.4	11
75	Reactive hot melt polyurethane adhesives modified by acrylic copolymer nanocomposites. <i>Macromolecular Research</i> , 2009, 17, 879-885.	1.0	11
76	Miscibility of polyarylate/phenoxy/poly(butylene terephthalate) ternary blends. <i>Angewandte Makromolekulare Chemie</i> , 1991, 192, 133-144.	0.3	10
77	Influence of interchange reactions on the miscibility of polyesterurethanes/polycarbonate binary blends. <i>Journal of Applied Polymer Science</i> , 1997, 64, 2363-2369.	1.3	10
78	Adhesion behavior of PDMS-containing polyimide to glass. <i>Journal of Adhesion Science and Technology</i> , 1998, 12, 253-269.	1.4	10
79	Morphology and physical properties of SAN/NBR blends: The effect of AN content in NBR. <i>Journal of Applied Polymer Science</i> , 2000, 78, 1861-1868.	1.3	10
80	Preparation and characterization of electroactive acrylic polymer-platinum composites. <i>Macromolecular Research</i> , 2004, 12, 593-597.	1.0	10
81	Modification of polystyrene by reactive extrusion with peroxide and trimethylolpropane triacrylate. <i>Journal of Applied Polymer Science</i> , 2004, 92, 1672-1679.	1.3	10
82	Thermal and mechanical properties of poly(ether urethane) modified by copolyamide segments. <i>Macromolecular Chemistry and Physics</i> , 1994, 195, 2559-2567.	1.1	9
83	Styrenic polymer/organoclay nanocomposite prepared via in-situ polymerization with an azoinitiator linked to an epoxy oligomer. <i>Macromolecular Research</i> , 2006, 14, 610-616.	1.0	9
84	Characteristics of Rubber/Sodium Montmorillonite Nanocomposites Prepared by a Novel Method. <i>Journal of Macromolecular Science - Physics</i> , 2007, 46, 1151-1163.	0.4	9
85	The effect of organoclay on the properties of a reactive hot melt polyurethane adhesive. <i>Composite Interfaces</i> , 2007, 14, 467-476.	1.3	9
86	Graphene functionalized with poly(vinyl alcohol) as a Pickering stabilizer for suspension polymerization of poly(methyl methacrylate). <i>Journal of Colloid and Interface Science</i> , 2016, 476, 47-54.	5.0	9
87	Thermal and mechanical properties of poly(esterurethane) modified by copolyamide segments of various molecular weight. <i>Polymer International</i> , 1995, 36, 239-245.	1.6	8
88	Graphenes for low percolation threshold in electroconductive nylon 6 composites. <i>Polymer International</i> , 2014, 63, 1003-1010.	1.6	8
89	Miscibility of tetramethyl polysulfone and poly(styrene-co-acrylonitrile). <i>Macromolecular Rapid Communications</i> , 1994, 15, 265-270.	2.0	6
90	Morphology and physical properties of SAN/NBR blends: The effect of AN content and melt viscosity of SAN. , 1999, 73, 935-941.		6

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91	Acrylic copolymer intercalated in sodium montmorillonite: a modifier of reactive hot melt polyurethane adhesive. <i>Composite Interfaces</i> , 2008, 15, 577-587.	1.3	6
92	The Properties of Reactive Hot Melt Polyurethane Adhesives: Effects of Molecular Weight and Reactive Organoclay. <i>Polymer-Plastics Technology and Engineering</i> , 2009, 48, 932-938.	1.9	6
93	Waterborne polyurethane modified with silicone macromer and the nylon airbag coated with it. <i>Textile Research Journal</i> , 2016, 86, 2015-2021.	1.1	6
94	Influence of copolymer composition of polyestercarbonate on miscibility with poly(butylene Tj ETQq0 0 0 rgBT /Overlock 10 Jf 50 622 T	2.4	5
95	Morphology and Physical Properties of ABS/NBR: The Effect of Melt Viscosity of SAN and the Content of NBR. <i>Journal of Macromolecular Science - Physics</i> , 2000, 39, 691-700.	0.4	5
96	The Effect of Cross-linking on the Actuation of an Electroactive IPMC Prepared with a Fluorinated Acrylic Copolymer. <i>Journal of Macromolecular Science - Physics</i> , 2006, 45, 119-130.	0.4	5
97	Sodium montmorillonite intercalated with poly(ethylene glycol): a modifier of reactive hot-melt polyurethane adhesive. <i>Journal of Adhesion Science and Technology</i> , 2007, 21, 841-853.	1.4	5
98	Maleic anhydride grafted polyethylene powder coated with epoxy resin: A novel reactive hot melt adhesive. <i>Journal of Applied Polymer Science</i> , 2010, 116, 328-332.	1.3	5
99	Miscibility of poly(styrene-co-acrylonitrile) with random copolymers of tetramethyl bisphenol-A polyarylate and tetrabromo bisphenol-A polyarylate. <i>Polymer Bulletin</i> , 1994, 33, 237-239.	1.7	4
100	Compatibilizing effect of poly(butylene terephthalate)- <i>g</i> -polystyrene synthesized from macromonomer. <i>Journal of Macromolecular Science - Physics</i> , 1995, 34, 215-229.	0.4	4
101	The phase behavior of tetramethyl bisphenol-A polyarylate/aliphatic polyester blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1998, 36, 201-212.	2.4	4
102	Poly(methyl methacrylate)/Graphene Microparticles Having a Core/Shell Structure Prepared with Carboxylated Graphene as a Pickering Stabilizer. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 570-580.	1.1	4
103	Miscibility of tetramethyl bisphenol-A polyarylate with poly(butylene sebacate). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1995, 33, 327-329.	2.4	3
104	Synthesis of tailor-made nanoporous polyaniline derived with PVA/alkaline metal system for metal complexation. <i>Journal of Applied Polymer Science</i> , 2011, 122, 2497-2502.	1.3	3
105	Functionalized graphene sheets/polycarbonate nanocomposites compatibilized by poly(phenylenevinylene). <i>Macromolecular Research</i> , 2012, 20, 768-771.	1.0	3
106	Miscibility of polyamide-6,6 with aromatic polyamides. <i>Polymer Bulletin</i> , 1996, 37, 361-367.	1.7	2
107	Shape memory polyurethane nanocomposites with a functionalized graphene. , 2013, , .		2
108	Compatibilizing Effect of Poly(Styrene-co-Glycidyl Methacrylate) in MPPO/PBT Blend. <i>Journal of Polymer Engineering</i> , 1998, 18, 101-114.	0.6	1

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109	Sound damping of a PU foam nanocomposite. , 2008, , .		1
110	Functionalized graphene sheet/polyurethane nanocomposites: Effect of particle size on the physical properties. , 2010, , .		1
111	Temperature gradient of vertical air column in gravitational field. Scientific Reports, 2022, 12, 6756.	1.6	1
112	Tetramethylpolyarylate-polyarylate block copolymer: Synthesis and miscibility with polyarylate and poly(styrene- <i>co</i> -acrylonitrile). Journal of Macromolecular Science - Physics, 1997, 36, 429-440.	0.4	0
113	Graphite oxide/poly (methyl methacrylate) nanocomposites prepared by a novel method utilizing macroazoinitiator. , 2008, , .		0
114	The properties of reactive hot melt polyurethane adhesives with acrylic polymer or macromonomer modifications. , 2008, , .		0