

Junghwan Shin

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.

111
papers

4,497
citations

33
h-index

64
g-index

114
ext. papers

4,715
ext. citations

3.3
avg, IF

5.48
L-index

#	Paper	IF	Citations
111	Temperature gradient of vertical air column in gravitational field.. <i>Scientific Reports</i> , 2022 , 12, 6756	4.9	
110	Properties of polythiourethanes prepared by thiol-isocyanate click reaction. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46070	2.9	18
109	Waterborne polyurethane modified with poly(ethylene glycol) macromer for waterproof breathable coating. <i>Progress in Organic Coatings</i> , 2017 , 103, 69-75	4.8	37
108	Compatibility of Thermally Reduced Graphene with Polyesters. <i>Journal of Macromolecular Science - Physics</i> , 2016 , 55, 1099-1110	1.4	168
107	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	2.6	4
106	Waterborne polyurethane modified with silicone macromer and the nylon airbag coated with it. <i>Textile Reseach Journal</i> , 2016 , 86, 2015-2021	1.7	2
105	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	6.3	16
104	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	9.3	8
103	Graphene prepared by thermal reduction/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	5.1	55
102	Novel stearic acid/graphene core-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	6.4	66
101	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	2.6	21
100	Alumina-coated graphene nanosheet and its composite of acrylic rubber. <i>Journal of Colloid and Interface Science</i> , 2014 , 416, 38-43	9.3	29
99	Graphene Modified Lipophilically by Stearic Acid and its Composite With Low Density Polyethylene. <i>Journal of Macromolecular Science - Physics</i> , 2014 , 53, 1193-1204	1.4	170
98	Thermoresponsive ureido-derivatized polymers: the effect of quaternization on UCST properties. <i>Polymer Chemistry</i> , 2014 , 5, 2411	4.9	45
97	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	13	28
96	Graphenes for low percolation threshold in electroconductive nylon 6 composites. <i>Polymer International</i> , 2014 , 63, 1003-1010	3.3	8
95	Properties of Graphene/Shape Memory Thermoplastic Polyurethane Composites Actuating by Various Methods. <i>Materials</i> , 2014 , 7, 1520-1538	3.5	51

94	Super-tough functionalized graphene paper as a high-capacity anode for lithium ion batteries. <i>Chemical Engineering Journal</i> , 2014 , 250, 257-266	14.7	30
93	Thermoresponsive fluorinated polyacrylamides with low cytotoxicity. <i>Polymer Chemistry</i> , 2013 , 4, 2219-2233		31
92	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	2.4	17
91	The modification of graphene with alcohols and its use in shape memory polyurethane composites. <i>Polymer International</i> , 2013 , 62, 54-63	3.3	31
90	Shape memory polyurethane nanocomposites with a functionalized graphene 2013 ,		2
89	Properties of Graphene/Waterborne Polyurethane Nanocomposites Cast from Colloidal Dispersion Mixtures. <i>Journal of Macromolecular Science - Physics</i> , 2012 , 51, 197-207	1.4	257
88	Effect of graphene doping of holographic polymer-dispersed liquid crystals. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 1418-1423	2.5	21
87	Functionalized graphene sheets/polycarbonate nanocomposites compatibilized by poly(phenylenevinylene). <i>Macromolecular Research</i> , 2012 , 20, 768-771	1.9	3
86	Novel Thermoresponsive Polymers Tunable by pH. <i>Macromolecules</i> , 2011 , 44, 1628-1634	5.5	55
85	Graphite oxides as effective fire retardants of epoxy resin. <i>Macromolecular Research</i> , 2011 , 19, 66-71	1.9	232
84	The properties of functionalized graphene sheet/poly(ethyl methacrylate) nanocomposites: The effects of preparation method. <i>Macromolecular Research</i> , 2011 , 19, 379-384	1.9	15
83	Functionalized graphene sheet/polyurethane nanocomposites: Effect of particle size on physical properties. <i>Macromolecular Research</i> , 2011 , 19, 809-814	1.9	92
82	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	2.9	3
81	Functionalized graphene sheet/polyurethane nanocomposites: Effect of particle size on the physical properties 2010 ,		1
80	Preparation and Characterization of Poly(ethylene oxide)/Graphene Nanocomposites from an Aqueous Medium. <i>Journal of Macromolecular Science - Physics</i> , 2010 , 49, 802-809	1.4	60
79	Thermoplastic polyurethane elastomer/thermoplastic polyolefin elastomer blends compatibilized with a polyolefinic segment in TPU. <i>Macromolecular Research</i> , 2010 , 18, 177-184	1.9	15
78	Effect of pyrene treatment on the properties of graphene/epoxy nanocomposites. <i>Macromolecular Research</i> , 2010 , 18, 1125-1128	1.9	20
77	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	2.9	4

76	Synthesis of MWCNTs-core/thiophene polymer-sheath composite nanocables by a cationic surfactant-assisted chemical oxidative polymerization and their structural properties. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 1477-1484	2.5	253
75	Thiol-isocyanate-acrylate ternary networks by selective thiol-click chemistry. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 3255-3264	2.5	42
74	Characterization of mouthguard materials: physical and mechanical properties of commercialized products. <i>Dental Materials</i> , 2009 , 25, 771-80	5.7	33
73	Characterization of mouthguard materials: thermal properties of commercialized products. <i>Dental Materials</i> , 2009 , 25, 1593-602	5.7	22
72	Properties of Waterborne Polyurethane/Functionalized Graphene Sheet Nanocomposites Prepared by an in situ Method. <i>Macromolecular Chemistry and Physics</i> , 2009 , 210, 1247-1254	2.6	242
71	Synthesis and characterization of novel Schiff base polyurethanes. <i>Journal of Applied Polymer Science</i> , 2009 , 113, 2747-2754	2.9	38
70	Reactive hot melt polyurethane adhesives modified by acrylic copolymer nanocomposites. <i>Macromolecular Research</i> , 2009 , 17, 879-885	1.9	10
69	Compatibilizing effect of graphite oxide in graphene/PMMA nanocomposites. <i>Macromolecular Research</i> , 2009 , 17, 626-629	1.9	23
68	Morphological and physical properties of a thermoplastic polyurethane reinforced with functionalized graphene sheet. <i>Polymer International</i> , 2009 , 58, 412-417	3.3	217
67	Physical and chemical modifications of thiol-ene networks to control activation energy of enthalpy relaxation. <i>Polymer</i> , 2009 , 50, 6281-6286	3.9	17
66	Effects of Monomer Functionality and Hydrogen Bonding on the Polymerization Kinetics and Properties of Thiol-ene Networks. <i>Macromolecules</i> , 2009 , 42, 2994-2999	5.5	19
65	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		5
64	Segmented Polythiourethane Elastomers through Sequential Thiol-ene and Thiol-isocyanate Reactions. <i>Macromolecules</i> , 2009 , 42, 3294-3301	5.5	141
63	Effects of Chemical Modification of Thiol-ene Networks on Enthalpy Relaxation. <i>Macromolecules</i> , 2009 , 42, 6549-6557	5.5	29
62	Enthalpy Relaxation of Photopolymerized Thiol-ene Networks: Structural Effects. <i>Macromolecules</i> , 2008 , 41, 6741-6746	5.5	42
61	Acrylic copolymer intercalated in sodium montmorillonite: a modifier of reactive hot melt polyurethane adhesive. <i>Composite Interfaces</i> , 2008 , 15, 577-587	2.3	5
60	Inorganic-organic hybrid nanoporous materials as adsorbent to remove VOCs. <i>Journal of Industrial and Engineering Chemistry</i> , 2008 , 14, 194-201	6.3	12
59	Synthesis and characterization of novel polyurethanes based on 4-((4-hydroxyphenyl)iminomethyl)phenol. <i>Macromolecular Research</i> , 2008 , 16, 194-199	1.9	36

58	Preparation and Physical Properties of Waterborne Polyurethane/Functionalized Graphene Sheet Nanocomposites. <i>Macromolecular Chemistry and Physics</i> , 2008 , 209, 2487-2493	2.6	207
57	Synthesis and characterization of novel polyurethanes based on N1,N4-bis[(4-hydroxyphenyl)methylene]succinohydrazide hard segment. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 2315-2320	2.9	52
56	Synthesis, characterization of novel dihydrazide containing polyurethanes based on N1,N2-bis[(4-hydroxyphenyl)methylene]ethanedihydrazide and various diisocyanates. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 3401-3407	2.9	47
55	Properties of reactive hot melt polyurethane adhesives with acrylic polymer or macromonomer modifications. <i>Journal of Applied Polymer Science</i> , 2008 , 109, 1757-1763	2.9	10
54	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	8.6	44
53	Sound damping of a polyurethane foam nanocomposite. <i>Macromolecular Research</i> , 2007 , 15, 443-448	1.9	72
52	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	2	5
51	Characteristics of Rubber/Sodium Montmorillonite Nanocomposites Prepared by a Novel Method. <i>Journal of Macromolecular Science - Physics</i> , 2007 , 46, 1151-1163	1.4	7
50	The effect of organoclay on the properties of a reactive hot melt polyurethane adhesive. <i>Composite Interfaces</i> , 2007 , 14, 467-476	2.3	9
49	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	1.9	9
48	Morphology and properties of polyacrylonitrile/Na-MMT nanocomposites prepared via in-situ polymerization with macroazoinitiator. <i>Macromolecular Research</i> , 2006 , 14, 312-317	1.9	27
47	Effect of molecular structure on performance of electroactive ionic acrylic copolymer/platinum composites. <i>Journal of Applied Polymer Science</i> , 2006 , 99, 1732-1739	2.9	15
46	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	2.9	11
45	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	1.4	5
44	Preparation and Characterization of Electroactive Anion-Exchange Acrylic Polymer/Gold Composites. <i>Journal of Macromolecular Science - Physics</i> , 2006 , 45, 789-799	1.4	9
43	Preparation of poly(methyl methacrylate)/Na-MMT Nanocomposites via in-Situ polymerization with macroazoinitiator. <i>Macromolecular Research</i> , 2005 , 13, 102-106	1.9	14
42	Structure and properties of EVOH/organoclay nanocomposites. <i>Journal of Materials Science</i> , 2005 , 40, 3783-3787	4.3	30
41	Preparation and characterization of electroactive acrylic polymer-platinum composites. <i>Macromolecular Research</i> , 2004 , 12, 593-597	1.9	10

40	Modification of polystyrene by reactive extrusion with peroxide and trimethylolpropane triacrylate. <i>Journal of Applied Polymer Science</i> , 2004 , 92, 1672-1679	2.9	9
39	Properties of Waterborne Polyurethanes Based on Polycarbonate Diol Reinforced with Organophilic Clay. <i>Journal of Macromolecular Science - Physics</i> , 2003 , 42, 1249-1263	1.4	17
38	Properties of Waterborne Polyurethane/PMMA/Clay Hybrid Materials. <i>Journal of Macromolecular Science - Physics</i> , 2003 , 42, 1153-1167	1.4	17
37	Properties of waterborne polyurethane/nanosilica composite. <i>Macromolecular Research</i> , 2003 , 11, 198-201	4.1	31
36	Morphology and properties of waterborne polyurethane/clay nanocomposites. <i>European Polymer Journal</i> , 2003 , 39, 85-91	5.2	233
35	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	2.9	11
34	Shape memory effect of poly(methylene-1,3-cyclopentane) and its copolymer with polyethylene. <i>Polymer International</i> , 2002 , 51, 275-280	3.3	25
33	Miscibility and shape memory property of poly(vinyl chloride)/thermoplastic polyurethane blends. <i>Journal of Materials Science</i> , 2001 , 36, 5457-5463	4.3	64
32	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	3.3	79
31	Influence of copolymer composition of polyestercarbonate on miscibility with poly(butylene terephthalate). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000 , 38, 803-811	2.6	5
30	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	2.9	9
29	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	2.6	118
28	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	2.6	86
27	Shape memory polyurethane containing amorphous reversible phase. <i>Journal of Materials Science</i> , 2000 , 35, 1579-1583	4.3	107
26	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	1.4	4
25	Morphology and physical properties of SAN/NBR blends: The effect of AN content and melt viscosity of SAN 1999 , 73, 935-941		5
24	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	2.6	3
23	Compatibility enhancement of ABS/PVC blends. <i>Journal of Applied Polymer Science</i> , 1998 , 70, 705-709	2.9	30

22	Adhesion behavior of PDMS-containing polyimide to glass. <i>Journal of Adhesion Science and Technology</i> , 1998 , 12, 253-269	2	8
21	Compatibilizing Effect of Poly(Styrene-co-Glycidyl Methacrylate) in MPPO/PBT Blend. <i>Journal of Polymer Engineering</i> , 1998 , 18, 101-114	1.4	0
20	Tetramethylpolyarylate-polyarylate block copolymer: Synthesis and miscibility with polyarylate and poly(styrene-co-acrylonitrile). <i>Journal of Macromolecular Science - Physics</i> , 1997 , 36, 429-440	1.4	
19	Influence of interchange reactions on the miscibility of polyesterurethanes/polycarbonate binary blends. <i>Journal of Applied Polymer Science</i> , 1997 , 64, 2363-2369	2.9	8
18	Miscibility of polyamide-6,6 with aromatic polyamides. <i>Polymer Bulletin</i> , 1996 , 37, 361-367	2.4	2
17	Thermal and mechanical properties of poly(esterurethane) modified by copolyamide segments of various molecular weight. <i>Polymer International</i> , 1995 , 36, 239-245	3.3	8
16	Miscibility of tetramethyl bisphenol-A polyarylate with poly(butylene sebacate). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1995 , 33, 327-329	2.6	3
15	Compatibilizing effect of poly(butylene terephthalate)-g-polystyrene synthesized from macromonomer. <i>Journal of Macromolecular Science - Physics</i> , 1995 , 34, 215-229	1.4	3
14	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	2.4	4
13	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	2.6	10
12	Thermal and mechanical properties of poly(ether urethane) modified by copolyamide segments. <i>Macromolecular Chemistry and Physics</i> , 1994 , 195, 2559-2567	2.6	7
11	Miscibility of tetramethyl polysulfone and poly(styrene-co-acrylonitrile). <i>Macromolecular Rapid Communications</i> , 1994 , 15, 265-270	4.8	6
10	The properties of polyurethanes with mixed chain extenders and mixed soft segments. <i>Journal of Applied Polymer Science</i> , 1994 , 51, 43-49	2.9	43
9	Dynamic mechanical properties of poly(vinyl chloride) and polyurethane carboxylate blends. <i>Journal of Applied Polymer Science</i> , 1994 , 51, 2187-2190	2.9	12
8	Thermal and mechanical properties of thermoplastic polyurethane elastomers from different polymerization methods. <i>Polymer International</i> , 1993 , 31, 329-333	3.3	30
7	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	14
6	Miscibility of thermoplastic polyurethane elastomers with chlorine-containing polymers. <i>Polymer International</i> , 1992 , 29, 115-120	3.3	11
5	Characterization of ultra low density polyethylenes (PE-ULD). <i>Angewandte Makromolekulare Chemie</i> , 1992 , 194, 91-101		10

4	Miscibility of polyarylate/phenoxy/poly(butylene terephthalate) ternary blends. <i>Angewandte Makromolekulare Chemie</i> , 1991 , 192, 133-144		7
3	Ultralow density polyethylene blends with polypropylene. <i>Polymer Engineering and Science</i> , 1991 , 31, 944-953	2.3	30
2	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	2.3	22
1	Melt rheology of poly(ethylene terephthalate), polyarylate, and their blends. <i>Journal of Applied Polymer Science</i> , 1990 , 40, 1805-1818	2.9	22