Jin-Hae Chang

List of Publications by Year in Descending Order

118 papers	2,803 citations	26 h-index	50 g-index
121 ext. papers	2,972 ext. citations	2.7 avg, IF	5.3 L-index

#	Paper	IF	Citations
118	Influence of hydroquinone content on thermotropic liquid crystalline copolymers and nanocomposites: thermo-mechanical properties and morphology.. *RSC Advances*, **2022**, 12, 8852-8861	3.7	
117	Thermotropic liquid crystalline copolyester fibers according to various heat treatment conditions. *Scientific Reports*, **2021**, 11, 11654	4.9	1
116	Comparison of Properties of Colorless and Transparent Polyimide Nanocomposites Containing Different Diamine Monomers. *ACS Omega*, **2021**, 6, 19006-19016	3.9	1
115	Effects of diamine isomers on the properties of colorless and transparent copoly(amide imide)s.. *RSC Advances*, **2021**, 11, 30479-30486	3.7	
114	Transparent Polyimide/Organoclay Nanocomposite Films Containing Different Diamine Monomers. *Polymers*, **2020**, 12,	4.5	6
113	Dependence of the Physical Properties and Molecular Dynamics of Thermotropic Liquid Crystalline Copolyesters on -Hydroxybenzoic Acid Content. *Polymers*, **2020**, 12,	4.5	6
112	Equibiaxially stretchable colorless and transparent polyimides for flexible display substrates. *Reviews on Advanced Materials Science*, **2020**, 59, 1-9	4.8	12
111	Characterizations of Nanocomposites of Liquid Crystalline Polymers. *Polymers and Polymeric Composites*, **2020**, 1-31	0.6	
110	Syntheses of Colorless and Transparent Polyimide Membranes for Microfiltration. *Polymers*, **2020**, 12,	4.5	2
109	Characterizations of Nanocomposites of Liquid Crystalline Polymers. *Polymers and Polymeric Composites*, **2020**, 577-607	0.6	0
108	Colorless and Transparent Copolyimides and Their Nanocomposites: Thermo-Optical Properties, Morphologies, and Gas Permeabilities. *Polymers*, **2019**, 11,	4.5	4
107	Comparative Analysis of Properties of PVA Composites with Various Nanofillers: Pristine Clay, Organoclay, and Functionalized Graphene. *Nanomaterials*, **2019**, 9,	5.4	13
106	Comparison of Properties of PVA Nanocomposites Containing Reduced Graphene Oxide and Functionalized Graphene. *Polymers*, **2019**, 11,	4.5	11
105	Thermotropic Liquid Crystalline Polymers with Various Alkoxy Side Groups: Thermal Properties and Molecular Dynamics. *Polymers*, **2019**, 11,	4.5	5
104	Homogeneous Polyimide/Silica Nanohybrid Films Adapting Simple Polymer Blending Process: Polymeric Silsesquiazane Precursor to Inorganic Silica. *Macromolecular Research*, **2018**, 26, 187-193	1.9	7
103	Polyimide nanocomposites with functionalized graphene sheets: Thermal property, morphology, gas permeation, and electroconductivity. *Journal of Thermoplastic Composite Materials*, **2018**, 31, 837-861	1.9	4
102	Structural properties of two inequivalent Cs(1) and Cs(2) sites in perovskite tricaesium pentahalogencobaltate, Cs3CoX5 (X = Cl, Br). *AIP Advances*, **2017**, 7, 105018	1.5	0

101	Comparison of the properties of colorless polyimide nanocomposites containing saponite or organically modified hectorite. *Journal of Thermoplastic Composite Materials*, **2016**, 29, 558-576	1.9	4
100	Comparison of the properties of polyimide nanocomposites containing three different nanofillers: Organoclay, functionalized graphene, and organoclay/functionalized graphene complex. *Journal of Composite Materials*, **2015**, 49, 3031-3044	2.7	10
99	Polyimide nanocomposites with novel functionalized-graphene sheet: thermal property, morphology, gas permeation, and conductivity. *Polymers for Advanced Technologies*, **2015**, 26, 1494-1503	3.2	6
98	Characterizations of poly(ester imide) nanocomposites containing organically modified hectorite. *Macromolecular Research*, **2014**, 22, 549-556	1.9	3
97	Comparison of properties of poly(vinyl alcohol) nanocomposites containing two different clays. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 8783-91	1.3	11
96	Quaternary copolyimides with various monomer contents: Thermal property and optical transparency. *Macromolecular Research*, **2014**, 22, 1178-1182	1.9	12
95	Comparison of the Properties of Poly(lactic acid) Nanocomposites with Various Fillers: Organoclay, Functionalized Graphene, or Organoclay/Functionalized Graphene Complex. *Porrime*, **2014**, 38, 232-239	1	2
94	Preparation and Characterization of Poly(trimethylene terephthalate) Nanocomposites **2014**, 267-292		2
93	Characterizations of Copoly(ester imide)s with New 2,7-Dihydroxynaphthalene Bis(trimellitate anhydride). *Porrime*, **2014**, 38, 632-639	1	
92	Recent Developments in Poly(butylene terephthalate) Nanocomposites **2014**, 293-317		
91	Flexible clay hybrid films with various poly(vinyl alcohol) contents: Thermal properties, morphology, optical transparency, and gas permeability. *Macromolecular Research*, **2013**, 21, 1349-1354	1.9	2
90	High gas barrier properties of poly(vinyl alcohol) nanocomposite films with various equibiaxial stretching ratios. *Macromolecular Research*, **2013**, 21, 1289-1292	1.9	2
89	Colorless and transparent polyimide nanocomposites: Thermo-optical properties, morphology, and gas permeation. *Macromolecular Research*, **2013**, 21, 228-233	1.9	29
88	Colorless and transparent polyimide nanocomposites: Comparison of the properties of homo- and co-polymers. *Journal of Industrial and Engineering Chemistry*, **2013**, 19, 1593-1599	6.3	18
87	Polyimide nanocomposites based on functionalized graphene sheets: Morphologies, thermal properties, and electrical and thermal conductivities. *Solid State Sciences*, **2013**, 24, 6-14	3.4	29
86	Syntheses and Characterizations of Position Specific Functionalized Graphenes. *Porrime*, **2013**, 37, 218-224	1	1
85	Characterization of Poly(vinyl alcohol) Nanocomposite Films with Various Clays. *Porrime*, **2013**, 37, 225-231	1	5
84	Thermal Property, Morphology, Optical Transparency, and Gas Permeability of PVA/SPT Nanocomposite Films and Equi-biaxial Stretching Films. *Porrime*, **2013**, 37, 579-586	1	6

83	Polyimide Films Using Dianhydride Containing Ester Linkages and Various Amine Monomers. *Porrime*, **2013**, 37, 618-624	1	
82	Optically transparent and colorless polyimide hybrid films with various clay contents. *Macromolecular Research*, **2012**, 20, 1257-1263	1.9	10
81	Characterizations of transparent polyimide nanocomposite films with various equibiaxial stretching ratios: Optical transparency, morphology, and oxygen permeability. *Journal of Applied Polymer Science*, **2012**, 126, E2-E11	2.9	7
80	Transparent Polyimide Nanocomposite Films with Various Equi-biaxial Stretching Ratios. *Porrime*, **2012**, 36, 478-485	1	
79	Thermotropic liquid crystalline polyazomethine nanocomposites via in situ interlayer polymerization. *Materials Chemistry and Physics*, **2011**, 129, 517-522	4.4	6
78	ABS nanocomposite films based on functionalized-graphene sheets. *Journal of Applied Polymer Science*, **2011**, 124, n/a-n/a	2.9	6
77	New liquid crystals and liquid crystalline thermosets based on wholly aromatic rigid-rod mesogens. *Macromolecular Research*, **2011**, 19, 2-7	1.9	7
76	Colorless polyimide nanocomposite films containing hexafluoroisopropylidene group. *Polymers for Advanced Technologies*, **2011**, 22, 682-689	3.2	27
75	Characterizations of ultrahigh molecular weight polyethylene nanocomposite films with organomica. *Polymer Engineering and Science*, **2011**, 51, 679-686	2.3	8
74	Transparent polyimide nanocomposite films: Thermo-optical properties, morphology, and gas permeability. *Polymer Engineering and Science*, **2011**, 51, 2143-2150	2.3	26
73	Polypropylene nanocomposites with various functionalized-multiwalled nanotubes: thermomechanical properties, morphology, gas permeation, and optical transparency. *Journal of Polymer Science, Part B: Polymer Physics*, **2011**, 49, 244-254	2.6	7
72	Colorless and transparent polyimide nanocomposite films containing organoclay. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 6404-9	1.3	15
71	Colorless polyimide/organoclay nanocomposite substrates for flexible organic light-emitting devices. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 388-96	1.3	9
70	Synthesis and characterization of transparent copolyimide films containing CF3 groups: Comparison with copolyimide nanocomposites. *Applied Clay Science*, **2010**, 48, 117-126	5.2	14
69	Synthesis and characterization of liquid crystals and their thermoset films. *Materials Chemistry and Physics*, **2010**, 123, 177-183	4.4	4
68	Nuclear magnetic resonance study of the phase transitions and local environments of alum NH4Al(SO4)2 12H2O single crystals. *Chemical Physics*, **2010**, 371, 91-95	2.3	6
67	Preparation and characterization of cellulose nanocomposite films with two different organo-micas. *Cellulose*, **2009**, 16, 445-454	5.5	12
66	Raman processes of KNaSO4 and K3Na(SO4)2 single crystals studied by 23Na and 39K nuclear magnetic resonance. *Physica Status Solidi (B): Basic Research*, **2009**, 246, 2373-2378	1.3	

65	Colorless polyimide nanocomposite films with pristine clay: Thermal behavior, mechanical property, morphology, and optical transparency. *Polymer Engineering and Science*, **2009**, 49, 1357-1365	2.3	36
64	Properties of ultrahigh-molecular-weight polyethylene nanocomposite films containing different functionalized multiwalled carbon nanotubes. *Polymer Engineering and Science*, **2009**, 49, 2168-2178	2.3	19
63	Comparison of Thermomechanical Properties and Morphologies of Polyester Nanocomposite Fibers: PBT, PET, and PTT. *Polymer-Plastics Technology and Engineering*, **2008**, 47, 791-801		20
62	A study of the phase transitions and structural chemistry of CsH3(SO4)2 and Cs3H(SO4)2 single crystals using H1 and C133s nuclear magnetic resonances. *Journal of Applied Physics*, **2008**, 104, 063502	2.5	
61	Synthesis and characterization of colorless polyimide nanocomposite films containing pendant trifluoromethyl groups. *Macromolecular Research*, **2008**, 16, 503-509	1.9	41
60	Fluorene-based polyester nanocomposites via in situ interlayer polymerization. *Polymers for Advanced Technologies*, **2008**, 19, 872-876	3.2	
59	Thermotropic liquid crystalline polyester nanocomposites via in situ intercalation polycondensation. *Polymers for Advanced Technologies*, **2008**, 19, 1479	3.2	1
58	Colorless polyimide nanocomposite films: Thermomechanical properties, morphology, and optical transparency. *Journal of Applied Polymer Science*, **2008**, 107, 109-117	2.9	26
57	Poly(ethylene terephthalate) nanocomposite fibers with functionalized multiwalled carbon nanotubes via in-situ polymerization. *Journal of Applied Polymer Science*, **2008**, 109, 638-646	2.9	26
56	Preparation and Properties of Fluorine-Containing Colorless Polyimide Nanocomposite Films with Organo-Modified Montmorillonites for Potential Flexible Substrate. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 1700-1706	1.3	8
55	Preparation and properties of fluorine-containing colorless polyimide nanocomposite films with organo-modified montmorillonites for potential flexible substrate. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 1700-6	1.3	
54	Synthesis and characterization of poly(butylene terephthalate)/mica nanocomposite fibers via in situ interlayer polymerization. *Journal of Applied Polymer Science*, **2007**, 106, 1248-1255	2.9	11
53	Mechanical and morphological properties of lyocell blends: Comparison with lyocell nanocomposites (I). *Journal of Applied Polymer Science*, **2007**, 106, 2970-2977	2.9	4
52	Synthesis and characterization of colorless polyimide nanocomposite films. *Journal of Applied Polymer Science*, **2007**, 106, 4192-4201	2.9	21
51	Poly(ethylene terephthalate) nanocomposite fibers with new organomica via in situ intercalation. *Polymer Engineering and Science*, **2007**, 47, 1820-1826	2.3	5
50	Ferroelastic to paraelastic phase transition of K3H(SeO4)2 and Rb3H(SeO4)2 single crystals studied by nuclear magnetic resonance and external stress. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 775-782	1.3	
49	Nanocomposite fibers of poly(ethylene terephthalate) with montmorillonite and mica: thermomechanical properties and morphology. *Polymer International*, **2007**, 56, 57-66	3.3	30
48	Polystyrene nanocomposites viaIn-situ intercalated free radical polymerization. *Fibers and Polymers* , **2007**, 8, 451-455	2	2

47	Comparison of the properties of poly(butylene terephthalate) nanocomposite fibers with different organoclays. *Macromolecular Research*, **2007**, 15, 449-458	1.9	13
46	Preparation of poly(ethylene terephthalate) nanocomposite fibers incorporating a thermally stable organoclay. *Polymer Bulletin*, **2006**, 57, 797-804	2.4	19
45	Crystallization and melting behavior of silica nanoparticles and poly(ethylene 2,6-naphthalate) hybrid nanocomposites. *Macromolecular Research*, **2006**, 14, 146-154	1.9	22
44	Poly(vinyl alcohol) nanocomposite films: Thermooptical properties, morphology, and gas permeability. *Journal of Applied Polymer Science*, **2006**, 101, 591-596	2.9	88
43	Synthesis and characterization of poly(butylene terephthalate) nanocomposite fibers: Thermo-mechanical properties and morphology. *Journal of Applied Polymer Science*, **2006**, 100, 1247-1254	2.9	13
42	Poly(trimethylene terephthalate) nanocomposite fibers comprising different organoclays: Thermomechanical properties and morphology. *Journal of Applied Polymer Science*, **2006**, 102, 4535-4545	2.9	23
41	Synthesis of poly(butylene succinate) nanocomposites via in-situ interlayer polymerization: thermo-mechanical properties and morphology of the hybrid fibers. *Composite Interfaces*, **2006**, 13, 131-144	2.3	3
40	Synthesis and characterization of a series of thermotropic liquid crystalline copolyester nanocomposites. *Journal of Polymer Science, Part B: Polymer Physics*, **2006**, 44, 387-397	2.6	16
39	Poly(ethylene terephthalate) nanocomposite fibers by in situ polymerization: The thermomechanical properties and morphology. *Journal of Applied Polymer Science*, **2005**, 98, 2009-2016	2.9	41
38	Poly(ethylene terephthalate) nanocomposites by in situ interlayer polymerization: the thermo-mechanical properties and morphology of the hybrid fibers. *Polymer*, **2004**, 45, 919-926	3.9	185
37	Polyester nanocomposite fibers: comparison of their properties with poly(ethylene terephthalate) and poly(trimethylene terephthalate) (II). *Polymer Bulletin*, **2004**, 52, 289-296	2.4	16
36	Blends of a thermotropic liquid-crystalline polymer and a poly(butylene terephthalate)/organoclay nanocomposite. *Journal of Polymer Science, Part B: Polymer Physics*, **2004**, 42, 3667-3676	2.6	16
35	Poly(trimethylene terephthalate) nanocomposite fibers by in situ intercalation polymerization: thermo-mechanical properties and morphology (I). *Polymer*, **2004**, 45, 5171-5181	3.9	54
34	Synthesis of Poly(butylene terephthalate) Nanocomposite by In-situ Interlayer Polymerization and Characterization of Its Fiber (I). *Polymer Bulletin*, **2003**, 51, 69-75	2.4	21
33	Poly(vinyl alcohol) nanocomposites with different clays: Pristine clays and organoclays. *Journal of Applied Polymer Science*, **2003**, 90, 3208-3214	2.9	115
32	Poly(lactic acid) nanocomposites: comparison of their properties with montmorillonite and synthetic mica (II). *Polymer*, **2003**, 44, 3715-3720	3.9	241
31	Poly(butylene terephthalate)/organoclay nanocomposites prepared by in situ interlayer polymerization and its fiber (II). *Polymer*, **2003**, 44, 5655-5661	3.9	63
30	Poly(lactic acid) nanocomposites with various organoclays. I. Thermomechanical properties, morphology, and gas permeability. *Journal of Polymer Science, Part B: Polymer Physics*, **2003**, 41, 94-103	2.6	330

29	Polyimide nanocomposite with a hexadecylamine clay: Synthesis and characterization. *Journal of Applied Polymer Science*, **2002**, 84, 2294-2301	2.9	69
28	Nanocomposites of polyurethane with various organoclays: Thermomechanical properties, morphology, and gas permeability*. *Journal of Polymer Science, Part B: Polymer Physics*, **2002**, 40, 670-677	2.6	231
27	An exfoliation of organoclay in thermotropic liquid crystalline polyester nanocomposites. *Polymer*, **2002**, 43, 2969-2974	3.9	123
26	Various organo-clays based nanocomposites of poly(ethylene terephthalate-co-ethylene naphthalate). *Polymer Bulletin*, **2001**, 47, 191-197	2.4	23
25	Nanocomposites of poly(ethylene terephthalate-co-ethylene naphthalate) with organoclay. *Journal of Polymer Science, Part B: Polymer Physics*, **2001**, 39, 2581-2588	2.6	22
24	Preparation and characterization of polyimide nanocomposites with different organo-montmorillonites. *Polymer Engineering and Science*, **2001**, 41, 1514-1520	2.3	69
23	Polyimide nanocomposites: Comparison of their properties with precursor polymer nanocomposites. *Polymer Engineering and Science*, **2001**, 41, 2226-2230	2.3	37
22	Blends of poly(vinyl butyral-co-vinyl alcohol) and poly(ethylene terephthalate-co-ethylene naphthalate): thermal, mechanical, and morphological properties. *Journal of Applied Polymer Science*, **2001**, 80, 2746-2751	2.9	1
21	Montmorillonite-based nanocomposites of polybenzoxazole: Synthesis and characterization (I). *Journal of Polymer Science, Part B: Polymer Physics*, **2001**, 39, 471-476	2.6	40
20	Ferroelastic Domain Switching Behaviour of [N(CH3)4]2CuCl4and [N(CH3)4]2ZnCl4Single Crystals Studied by External Stress. *Journal of the Physical Society of Japan*, **2001**, 70, 1937-1941	1.5	12
19	Two-step thermal conversion from poly(amic acid) to polybenzoxazole via polyimide: Their thermal and mechanical properties. *Journal of Polymer Science, Part B: Polymer Physics*, **2000**, 38, 2537-2545	2.6	46
18	Thermal cyclization of the poly(amic acid): thermal, mechanical, and morphological properties. *European Polymer Journal*, **2000**, 36, 2185-2191	5.2	14
17	Characterization of two precursor polyblends: Polyhydroxyamide and poly(amic acid). *Polymer Engineering and Science*, **2000**, 40, 320-329	2.3	7
16	Thermal cyclodehydration of aromatic precursor polymers to polybenzoxazole and polyimide; their thermal and mechanical properties. *Polymer Bulletin*, **2000**, 44, 63-69	2.4	10
15	Thermal and mechanical properties of the precursor polymers: Comparison of their properties with poly(amic acid). *Polymer Engineering and Science*, **1999**, 39, 638-645	2.3	5
14	Electroluminescence from silyl-disubstituted ppv derivative. *Synthetic Metals*, **1999**, 101, 216-217	3.6	33
13	Effect of heat treatment on the thermal and mechanical properties of a precursor polymer: polyhydroxyamide. *Polymer*, **1998**, 39, 5649-5654	3.9	25
12	Syntheses and Characterization of Novel Siloxane Liquid Crystalline Polymers Containing Two Symmetric Mesogens. *Macromolecules*, **1997**, 30, 1521-1523	5.5	7

11	The effect of composition on thermal, mechanical, and morphological properties of thermotropic liquid crystalline polyester with alkyl side-group and polycarbonate blends. *Polymer Engineering and Science*, **1997**, 37, 1564-1571	2.3	11
10	Blends of PBT with rigid thermotropic LCP having flexible side groups: Comparison of their tensile properties with semirigid main-chain TLCP blends. *Journal of Applied Polymer Science*, **1996**, 60, 939-946	2.9	27
9	Blends of thermotropic liquid crystalline polyesters and poly(butylene terephthalate): Thermal, mechanical, and morphological properties. *Polymer Engineering and Science*, **1995**, 35, 1605-1614	2.3	14
8	Transesterifications in a polyblend of poly(butylene terephthalate) and a liquid crystalline polyester. *Polymer Engineering and Science*, **1995**, 35, 1615-1620	2.3	10
7	Blends of Thermotropic Liquid Crystalline Polymer with a Flexible Side Group and Poly(butylene terephthalate). *Polymer Journal*, **1995**, 27, 780-789	2.7	11
6	Thermotropic copolyesters having ordered comonomer sequences and flexible spacers. *Journal of Polymer Science Part A*, **1993**, 31, 259-265	2.5	5
5	Thermal sequence randomization of a wholly aromatic copolyester having an ordered sequence. *Polymer*, **1992**, 33, 1374-1378	3.9	12
4	Synthesis and properties of copolyesters having an ordered comonomer sequence: copolyesters prepared from naphthylene bis(4-hydroxybenzoate)s and □,□-bis(4-carboxyphenoxy)alkanes. *Polymer*, **1992**, 33, 1537-1542	3.9	9
3	Sequentially ordered, thermotropic aromatic copolyesters: Synthesis and comparison of their properties with random copolyesters. *Makromolekulare Chemie Macromolecular Symposia*, **1990**, 33, 97-115		3
2	Synthesis and properties of polyesters of isomeric poly(oxynaphthyleneoxy-2-bromoterephthaloyl)s. *Journal of Polymer Science Part A*, **1989**, 27, 2291-2303	2.5	14
1	Dependence of properties of liquid crystalline aromatic copolyesters on monomer sequence-copolyesters derived from terephthalic acid, 2,7-naphthalenediol and p-hydroxybenzoic acid. *Polymer Bulletin*, **1988**, 20, 525	2.4	6