

Jin-Hae Chang

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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	Poly(lactic acid) nanocomposites with various organoclays. I. Thermomechanical properties, morphology, and gas permeability. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003 , 41, 94-103	2.6	330
117	Poly(lactic acid) nanocomposites: comparison of their properties with montmorillonite and synthetic mica (II). <i>Polymer</i> , 2003 , 44, 3715-3720	3.9	241
116	Nanocomposites of polyurethane with various organoclays: Thermomechanical properties, morphology, and gas permeability*. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002 , 40, 670-677	2.6	231
115	Poly(ethylene terephthalate) nanocomposites by in situ interlayer polymerization: the thermo-mechanical properties and morphology of the hybrid fibers. <i>Polymer</i> , 2004 , 45, 919-926	3.9	185
114	An exfoliation of organoclay in thermotropic liquid crystalline polyester nanocomposites. <i>Polymer</i> , 2002 , 43, 2969-2974	3.9	123
113	Poly(vinyl alcohol) nanocomposites with different clays: Pristine clays and organoclays. <i>Journal of Applied Polymer Science</i> , 2003 , 90, 3208-3214	2.9	115
112	Poly(vinyl alcohol) nanocomposite films: Thermo-optical properties, morphology, and gas permeability. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 591-596	2.9	88
111	Polyimide nanocomposite with a hexadecylamine clay: Synthesis and characterization. <i>Journal of Applied Polymer Science</i> , 2002 , 84, 2294-2301	2.9	69
110	Preparation and characterization of polyimide nanocomposites with different organo-montmorillonites. <i>Polymer Engineering and Science</i> , 2001 , 41, 1514-1520	2.3	69
109	Poly(butylene terephthalate)/organoclay nanocomposites prepared by in situ interlayer polymerization and its fiber (II). <i>Polymer</i> , 2003 , 44, 5655-5661	3.9	63
108	Poly(trimethylene terephthalate) nanocomposite fibers by in situ intercalation polymerization: thermo-mechanical properties and morphology (I). <i>Polymer</i> , 2004 , 45, 5171-5181	3.9	54
107	Two-step thermal conversion from poly(amic acid) to polybenzoxazole via polyimide: Their thermal and mechanical properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000 , 38, 2537-2545	2.6	46
106	Synthesis and characterization of colorless polyimide nanocomposite films containing pendant trifluoromethyl groups. <i>Macromolecular Research</i> , 2008 , 16, 503-509	1.9	41
105	Poly(ethylene terephthalate) nanocomposite fibers by in situ polymerization: The thermomechanical properties and morphology. <i>Journal of Applied Polymer Science</i> , 2005 , 98, 2009-2016	2.9	41
104	Montmorillonite-based nanocomposites of polybenzoxazole: Synthesis and characterization (I). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001 , 39, 471-476	2.6	40
103	Polyimide nanocomposites: Comparison of their properties with precursor polymer nanocomposites. <i>Polymer Engineering and Science</i> , 2001 , 41, 2226-2230	2.3	37
102	Colorless polyimide nanocomposite films with pristine clay: Thermal behavior, mechanical property, morphology, and optical transparency. <i>Polymer Engineering and Science</i> , 2009 , 49, 1357-1365	2.3	36

101	Electroluminescence from silyl-disubstituted ppv derivative. <i>Synthetic Metals</i> , 1999 , 101, 216-217	3.6	33
100	Nanocomposite fibers of poly(ethylene terephthalate) with montmorillonite and mica: thermomechanical properties and morphology. <i>Polymer International</i> , 2007 , 56, 57-66	3.3	30
99	Colorless and transparent polyimide nanocomposites: Thermo-optical properties, morphology, and gas permeation. <i>Macromolecular Research</i> , 2013 , 21, 228-233	1.9	29
98	Polyimide nanocomposites based on functionalized graphene sheets: Morphologies, thermal properties, and electrical and thermal conductivities. <i>Solid State Sciences</i> , 2013 , 24, 6-14	3.4	29
97	Colorless polyimide nanocomposite films containing hexafluoroisopropylidene group. <i>Polymers for Advanced Technologies</i> , 2011 , 22, 682-689	3.2	27
96	Blends of PBT with rigid thermotropic LCP having flexible side groups: Comparison of their tensile properties with semirigid main-chain TLCP blends. <i>Journal of Applied Polymer Science</i> , 1996 , 60, 939-946	2.9	27
95	Transparent polyimide nanocomposite films: Thermo-optical properties, morphology, and gas permeability. <i>Polymer Engineering and Science</i> , 2011 , 51, 2143-2150	2.3	26
94	Colorless polyimide nanocomposite films: Thermomechanical properties, morphology, and optical transparency. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 109-117	2.9	26
93	Poly(ethylene terephthalate) nanocomposite fibers with functionalized multiwalled carbon nanotubes via in-situ polymerization. <i>Journal of Applied Polymer Science</i> , 2008 , 109, 638-646	2.9	26
92	Effect of heat treatment on the thermal and mechanical properties of a precursor polymer: polyhydroxyamide. <i>Polymer</i> , 1998 , 39, 5649-5654	3.9	25
91	Poly(trimethylene terephthalate) nanocomposite fibers comprising different organoclays: Thermomechanical properties and morphology. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 4535-4545	2.9	23
90	Various organo-clays based nanocomposites of poly(ethylene terephthalate-co-ethylene naphthalate). <i>Polymer Bulletin</i> , 2001 , 47, 191-197	2.4	23
89	Crystallization and melting behavior of silica nanoparticles and poly(ethylene 2,6-naphthalate) hybrid nanocomposites. <i>Macromolecular Research</i> , 2006 , 14, 146-154	1.9	22
88	Nanocomposites of poly(ethylene terephthalate-co-ethylene naphthalate) with organoclay. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001 , 39, 2581-2588	2.6	22
87	Synthesis and characterization of colorless polyimide nanocomposite films. <i>Journal of Applied Polymer Science</i> , 2007 , 106, 4192-4201	2.9	21
86	Synthesis of Poly(butylene terephthalate) Nanocomposite by In-situ Interlayer Polymerization and Characterization of Its Fiber (I). <i>Polymer Bulletin</i> , 2003 , 51, 69-75	2.4	21
85	Comparison of Thermomechanical Properties and Morphologies of Polyester Nanocomposite Fibers: PBT, PET, and PTT. <i>Polymer-Plastics Technology and Engineering</i> , 2008 , 47, 791-801		20
84	Properties of ultrahigh-molecular-weight polyethylene nanocomposite films containing different functionalized multiwalled carbon nanotubes. <i>Polymer Engineering and Science</i> , 2009 , 49, 2168-2178	2.3	19

83	Preparation of poly(ethylene terephthalate) nanocomposite fibers incorporating a thermally stable organoclay. <i>Polymer Bulletin</i> , 2006 , 57, 797-804	2.4	19
82	Colorless and transparent polyimide nanocomposites: Comparison of the properties of homo- and co-polymers. <i>Journal of Industrial and Engineering Chemistry</i> , 2013 , 19, 1593-1599	6.3	18
81	Synthesis and characterization of a series of thermotropic liquid crystalline copolyester nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 387-397	2.6	16
80	Polyester nanocomposite fibers: comparison of their properties with poly(ethylene terephthalate) and poly(trimethylene terephthalate) (II). <i>Polymer Bulletin</i> , 2004 , 52, 289-296	2.4	16
79	Blends of a thermotropic liquid-crystalline polymer and a poly(butylene terephthalate)/organoclay nanocomposite. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004 , 42, 3667-3676	2.6	16
78	Colorless and transparent polyimide nanocomposite films containing organoclay. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 6404-9	1.3	15
77	Synthesis and characterization of transparent copolyimide films containing CF ₃ groups: Comparison with copolyimide nanocomposites. <i>Applied Clay Science</i> , 2010 , 48, 117-126	5.2	14
76	Thermal cyclization of the poly(amic acid): thermal, mechanical, and morphological properties. <i>European Polymer Journal</i> , 2000 , 36, 2185-2191	5.2	14
75	Blends of thermotropic liquid crystalline polyesters and poly(butylene terephthalate): Thermal, mechanical, and morphological properties. <i>Polymer Engineering and Science</i> , 1995 , 35, 1605-1614	2.3	14
74	Synthesis and properties of polyesters of isomeric poly(oxynaphthyleneoxy-2-bromoterephthaloyl)s. <i>Journal of Polymer Science Part A</i> , 1989 , 27, 2291-2303 ^{2,5}	2.5	14
73	Comparative Analysis of Properties of PVA Composites with Various Nanofillers: Pristine Clay, Organoclay, and Functionalized Graphene. <i>Nanomaterials</i> , 2019 , 9,	5.4	13
72	Comparison of the properties of poly(butylene terephthalate) nanocomposite fibers with different organoclays. <i>Macromolecular Research</i> , 2007 , 15, 449-458	1.9	13
71	Synthesis and characterization of poly(butylene terephthalate) nanocomposite fibers: Thermo-mechanical properties and morphology. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 1247-1254 ^{2,9}	2.9	13
70	Quaternary copolyimides with various monomer contents: Thermal property and optical transparency. <i>Macromolecular Research</i> , 2014 , 22, 1178-1182	1.9	12
69	Preparation and characterization of cellulose nanocomposite films with two different organo-micas. <i>Cellulose</i> , 2009 , 16, 445-454	5.5	12
68	Ferroelastic Domain Switching Behaviour of [N(CH ₃) ₄] ₂ CuCl ₄ and [N(CH ₃) ₄] ₂ ZnCl ₄ Single Crystals Studied by External Stress. <i>Journal of the Physical Society of Japan</i> , 2001 , 70, 1937-1941	1.5	12
67	Thermal sequence randomization of a wholly aromatic copolyester having an ordered sequence. <i>Polymer</i> , 1992 , 33, 1374-1378	3.9	12
66	Equibiaxially stretchable colorless and transparent polyimides for flexible display substrates. <i>Reviews on Advanced Materials Science</i> , 2020 , 59, 1-9	4.8	12

65	Comparison of Properties of PVA Nanocomposites Containing Reduced Graphene Oxide and Functionalized Graphene. <i>Polymers</i> , 2019 , 11,	4.5	11
64	Comparison of properties of poly(vinyl alcohol) nanocomposites containing two different clays. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 8783-91	1.3	11
63	The effect of composition on thermal, mechanical, and morphological properties of thermotropic liquid crystalline polyester with alkyl side-group and polycarbonate blends. <i>Polymer Engineering and Science</i> , 1997 , 37, 1564-1571	2.3	11
62	Synthesis and characterization of poly(butylene terephthalate)/mica nanocomposite fibers via in situ interlayer polymerization. <i>Journal of Applied Polymer Science</i> , 2007 , 106, 1248-1255	2.9	11
61	Blends of Thermotropic Liquid Crystalline Polymer with a Flexible Side Group and Poly(butylene terephthalate). <i>Polymer Journal</i> , 1995 , 27, 780-789	2.7	11
60	Comparison of the properties of polyimide nanocomposites containing three different nanofillers: Organoclay, functionalized graphene, and organoclay/functionalized graphene complex. <i>Journal of Composite Materials</i> , 2015 , 49, 3031-3044	2.7	10
59	Optically transparent and colorless polyimide hybrid films with various clay contents. <i>Macromolecular Research</i> , 2012 , 20, 1257-1263	1.9	10
58	Thermal cyclodehydration of aromatic precursor polymers to polybenzoxazole and polyimide; their thermal and mechanical properties. <i>Polymer Bulletin</i> , 2000 , 44, 63-69	2.4	10
57	Transesterifications in a polyblend of poly(butylene terephthalate) and a liquid crystalline polyester. <i>Polymer Engineering and Science</i> , 1995 , 35, 1615-1620	2.3	10
56	Colorless polyimide/organoclay nanocomposite substrates for flexible organic light-emitting devices. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 388-96	1.3	9
55	Synthesis and properties of copolyesters having an ordered comonomer sequence: copolyesters prepared from naphthylene bis(4-hydroxybenzoate)s and μ -bis(4-carboxyphenoxy)alkanes. <i>Polymer</i> , 1992 , 33, 1537-1542	3.9	9
54	Characterizations of ultrahigh molecular weight polyethylene nanocomposite films with organomica. <i>Polymer Engineering and Science</i> , 2011 , 51, 679-686	2.3	8
53	Preparation and Properties of Fluorine-Containing Colorless Polyimide Nanocomposite Films with Organo-Modified Montmorillonites for Potential Flexible Substrate. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 1700-1706	1.3	8
52	Homogeneous Polyimide/Silica Nanohybrid Films Adapting Simple Polymer Blending Process: Polymeric Silsesquiazane Precursor to Inorganic Silica. <i>Macromolecular Research</i> , 2018 , 26, 187-193	1.9	7
51	Characterizations of transparent polyimide nanocomposite films with various equibiaxial stretching ratios: Optical transparency, morphology, and oxygen permeability. <i>Journal of Applied Polymer Science</i> , 2012 , 126, E2-E11	2.9	7
50	New liquid crystals and liquid crystalline thermosets based on wholly aromatic rigid-rod mesogens. <i>Macromolecular Research</i> , 2011 , 19, 2-7	1.9	7
49	Polypropylene nanocomposites with various functionalized-multiwalled nanotubes: thermomechanical properties, morphology, gas permeation, and optical transparency. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011 , 49, 244-254	2.6	7
48	Syntheses and Characterization of Novel Siloxane Liquid Crystalline Polymers Containing Two Symmetric Mesogens. <i>Macromolecules</i> , 1997 , 30, 1521-1523	5.5	7

47	Characterization of two precursor polyblends: Polyhydroxyamide and poly(amic acid). <i>Polymer Engineering and Science</i> , 2000 , 40, 320-329	2-3	7
46	Transparent Polyimide/Organoclay Nanocomposite Films Containing Different Diamine Monomers. <i>Polymers</i> , 2020 , 12,	4-5	6
45	Dependence of the Physical Properties and Molecular Dynamics of Thermotropic Liquid Crystalline Copolyesters on -Hydroxybenzoic Acid Content. <i>Polymers</i> , 2020 , 12,	4-5	6
44	Polyimide nanocomposites with novel functionalized-graphene sheet: thermal property, morphology, gas permeation, and conductivity. <i>Polymers for Advanced Technologies</i> , 2015 , 26, 1494-1503 ³⁻²		6
43	Thermotropic liquid crystalline polyazomethine nanocomposites via in situ interlayer polymerization. <i>Materials Chemistry and Physics</i> , 2011 , 129, 517-522	4-4	6
42	ABS nanocomposite films based on functionalized-graphene sheets. <i>Journal of Applied Polymer Science</i> , 2011 , 124, n/a-n/a	2-9	6
41	Nuclear magnetic resonance study of the phase transitions and local environments of Eblum NH ₄ Al(SO ₄) ₂ ·2H ₂ O single crystals. <i>Chemical Physics</i> , 2010 , 371, 91-95	2-3	6
40	Dependence of properties of liquid crystalline aromatic copolyesters on monomer sequence-copolyesters derived from terephthalic acid, 2,7-naphthalenediol and p-hydroxybenzoic acid. <i>Polymer Bulletin</i> , 1988 , 20, 525	2-4	6
39	Thermal Property, Morphology, Optical Transparency, and Gas Permeability of PVA/SPT Nanocomposite Films and Equi-biaxial Stretching Films. <i>Porrime</i> , 2013 , 37, 579-586	1	6
38	Thermotropic Liquid Crystalline Polymers with Various Alkoxy Side Groups: Thermal Properties and Molecular Dynamics. <i>Polymers</i> , 2019 , 11,	4-5	5
37	Poly(ethylene terephthalate) nanocomposite fibers with new organomica via in situ intercalation. <i>Polymer Engineering and Science</i> , 2007 , 47, 1820-1826	2-3	5
36	Thermal and mechanical properties of the precursor polymers: Comparison of their properties with poly(amic acid). <i>Polymer Engineering and Science</i> , 1999 , 39, 638-645	2-3	5
35	Thermotropic copolyesters having ordered comonomer sequences and flexible spacers. <i>Journal of Polymer Science Part A</i> , 1993 , 31, 259-265	2-5	5
34	Characterization of Poly(vinyl alcohol) Nanocomposite Films with Various Clays. <i>Porrime</i> , 2013 , 37, 225-231		5
33	Colorless and Transparent Copolyimides and Their Nanocomposites: Thermo-Optical Properties, Morphologies, and Gas Permeabilities. <i>Polymers</i> , 2019 , 11,	4-5	4
32	Comparison of the properties of colorless polyimide nanocomposites containing saponite or organically modified hectorite. <i>Journal of Thermoplastic Composite Materials</i> , 2016 , 29, 558-576	1-9	4
31	Synthesis and characterization of liquid crystals and their thermoset films. <i>Materials Chemistry and Physics</i> , 2010 , 123, 177-183	4-4	4
30	Mechanical and morphological properties of lyocell blends: Comparison with lyocell nanocomposites (I). <i>Journal of Applied Polymer Science</i> , 2007 , 106, 2970-2977	2-9	4

29	Polyimide nanocomposites with functionalized graphene sheets: Thermal property, morphology, gas permeation, and electroconductivity. <i>Journal of Thermoplastic Composite Materials</i> , 2018 , 31, 837-861 ^{1.9}	4
28	Characterizations of poly(ester imide) nanocomposites containing organically modified hectorite. <i>Macromolecular Research</i> , 2014 , 22, 549-556	1.9 3
27	Synthesis of poly(butylene succinate) nanocomposites via in-situ interlayer polymerization: thermo-mechanical properties and morphology of the hybrid fibers. <i>Composite Interfaces</i> , 2006 , 13, 131-144	3
26	Sequentially ordered, thermotropic aromatic copolyesters: Synthesis and comparison of their properties with random copolyesters. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1990 , 33, 97-115	3
25	Flexible clay hybrid films with various poly(vinyl alcohol) contents: Thermal properties, morphology, optical transparency, and gas permeability. <i>Macromolecular Research</i> , 2013 , 21, 1349-1354	1.9 2
24	High gas barrier properties of poly(vinyl alcohol) nanocomposite films with various equibiaxial stretching ratios. <i>Macromolecular Research</i> , 2013 , 21, 1289-1292	1.9 2
23	Polystyrene nanocomposites via in-situ intercalated free radical polymerization. <i>Fibers and Polymers</i> , 2007 , 8, 451-455	2 2
22	Comparison of the Properties of Poly(lactic acid) Nanocomposites with Various Fillers: Organoclay, Functionalized Graphene, or Organoclay/Functionalized Graphene Complex. <i>Porrime</i> , 2014 , 38, 232-239 ¹	2
21	Preparation and Characterization of Poly(trimethylene terephthalate) Nanocomposites 2014 , 267-292	2
20	Syntheses of Colorless and Transparent Polyimide Membranes for Microfiltration. <i>Polymers</i> , 2020 , 12,	4.5 2
19	Thermotropic liquid crystalline polyester nanocomposites via in situ intercalation polycondensation. <i>Polymers for Advanced Technologies</i> , 2008 , 19, 1479	3.2 1
18	Blends of poly(vinyl butyral-co-vinyl alcohol) and poly(ethylene terephthalate-co-ethylene naphthalate): thermal, mechanical, and morphological properties. <i>Journal of Applied Polymer Science</i> , 2001 , 80, 2746-2751	2.9 1
17	Syntheses and Characterizations of Position Specific Functionalized Graphenes. <i>Porrime</i> , 2013 , 37, 218-224	1
16	Thermotropic liquid crystalline copolyester fibers according to various heat treatment conditions. <i>Scientific Reports</i> , 2021 , 11, 11654	4.9 1
15	Comparison of Properties of Colorless and Transparent Polyimide Nanocomposites Containing Different Diamine Monomers. <i>ACS Omega</i> , 2021 , 6, 19006-19016	3.9 1
14	Structural properties of two inequivalent Cs(1) and Cs(2) sites in perovskite tricaesium pentahalogenocobaltate, Cs ₃ CoX ₅ (X = Cl, Br). <i>AIP Advances</i> , 2017 , 7, 105018	1.5 0
13	Characterizations of Nanocomposites of Liquid Crystalline Polymers. <i>Polymers and Polymeric Composites</i> , 2020 , 577-607	0.6 0
12	Raman processes of KNaSO ₄ and K ₃ Na(SO ₄) ₂ single crystals studied by ²³ Na and ³⁹ K nuclear magnetic resonance. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2373-2378	1.3

- 11 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
- 10 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
- 9 Fluorene-based polyester nanocomposites via in situ interlayer polymerization. *Polymers for Advanced Technologies*, **2008**, 19, 872-876 3.2
- 8 Characterizations of Nanocomposites of Liquid Crystalline Polymers. *Polymers and Polymeric Composites*, **2020**, 1-31 0.6
- 7 Characterizations of Copoly(ester imide)s with New 2,7-Dihydroxynaphthalene Bis(trimellitate anhydride). *Porrime*, **2014**, 38, 632-639 1
- 6 Transparent Polyimide Nanocomposite Films with Various Equi-biaxial Stretching Ratios. *Porrime*, **2012**, 36, 478-485 1
- 5 Polyimide Films Using Dianhydride Containing Ester Linkages and Various Amine Monomers. *Porrime*, **2013**, 37, 618-624 1
- 4 Recent Developments in Poly(butylene terephthalate) Nanocomposites **2014**, 293-317
- 3 Effects of diamine isomers on the properties of colorless and transparent copoly(amide imide)s.. *RSC Advances*, **2021**, 11, 30479-30486 3.7
- 2 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
- 1 Influence of hydroquinone content on thermotropic liquid crystalline copolymers and nanocomposites: thermo-mechanical properties and morphology.. *RSC Advances*, **2022**, 12, 8852-8861 3.7