

# Guisheng

## List of Publications by Year in descending order

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101  
papers

1,299  
citations

393982

19  
h-index

500791

28  
g-index

101  
all docs

101  
docs citations

101  
times ranked

1343  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rheological and Crystallization Properties of ABS/PA6-Compatibilized Blends via In Situ Reactive Extrusion. <i>ACS Omega</i> , 2020, 5, 15257-15267.	1.6	5
2	Preparation and Characterization of Polyamide-6/Reduced Graphene Oxide Composite Microspheres. <i>ChemistrySelect</i> , 2019, 4, 11294-11301.	0.7	3
3	Constructing biodegradable nanochitin-contained chitosan hydrogel beads for fast and efficient removal of Cu(II) from aqueous solution. <i>Carbohydrate Polymers</i> , 2019, 211, 152-160.	5.1	47
4	Aluminum hypophosphite and aluminum phenylphosphinate: A comprehensive comparison of chemical interaction during pyrolysis in flame-retarded glass-fiber-reinforced polyamide 6. <i>Journal of Fire Sciences</i> , 2019, 37, 193-212.	0.9	4
5	Flame-retardant mechanism of zinc borate and magnesium hydroxide in aluminum hypophosphite-based combination for TPE-S composites. <i>Journal of Fire Sciences</i> , 2019, 37, 273-300.	0.9	9
6	SEBS-based thermoplastic elastomers containing aluminum hypophosphite and melamine cyanurate: Thermal degradation, flame retardancy, and mechanical properties. <i>Journal of Fire Sciences</i> , 2019, 37, 137-154.	0.9	3
7	Preparation of nanochitin-contained magnetic chitosan microfibers via continuous injection gelation method for removal of Ni(II) ion from aqueous solution. <i>International Journal of Biological Macromolecules</i> , 2019, 125, 404-413.	3.6	34
8	Self-assembly morphology evolution of the polyamide 6 (PA6) component in the PA6/polyethylene glycol system by <i>in situ</i> polymerization of $\epsilon$ -caprolactam monomer. <i>Polymer International</i> , 2018, 67, 874-882.	1.6	4
9	Effect of ultrasonic vibration on activation-electroless nickel plating on Nylon 12 powders. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 5561-5565.	1.1	2
10	Melt Crystallization Behavior and Spherulitic Morphology of Poly(trimethylene) Terephthalate (TTP) / Poly(ethylene terephthalate) (PET) Blends. <i>Polymer-Plastics Technology and Engineering</i> , 2018, 57, 775-790.	1.9	1
11	A novel strategy for the synthesis of polyamide-6 microspheres. <i>Materials Letters</i> , 2018, 214, 34-37.	1.3	10
12	Effect of plating time on structural properties of Ni-plating coating on Nylon 12 powders. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 3281-3285.	1.1	3
13	Preparation of nickel/PA12 composite particles by defect-induced electroless plating for use in SLS processing. <i>Scientific Reports</i> , 2018, 8, 13407.	1.6	9
14	Synthesis, morphology, and nonisothermal crystallization behavior of poly(trimethylene) terephthalate (TTP) / Poly(ethylene terephthalate) (PET) Blends. <i>Polymer-Plastics Technology and Engineering</i> , 2016, 27, 1029-1037.	1.6	3
15	Synthesis, thermal properties and crystalline morphology of poly(trimethylene terephthalate)/ZnO nanocomposites prepared by dual <i>in situ</i> polymerization. <i>Polymers for Advanced Technologies</i> , 2016, 27, 1451-1457.	1.6	3
16	A commercial production route to prepare polymer-based nanocomposites by unmodified multilayer graphene. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	8
17	Preparation of Polyamide-6 Submicrometer-Sized Spheres by In Situ Polymerization. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1994-1999.	2.0	6
18	Recent advances in graphene/polyamide 6 composites: a review. <i>RSC Advances</i> , 2015, 5, 61688-61702.	1.7	70

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19	A facile route to prepare few-layer graphene/polyamide 6 nanocomposites by liquid reactive extrusion. RSC Advances, 2015, 5, 77316-77323.	1.7	8
20	A NOVEL SYNTHESIS METHOD FOR SILVER NANOPARTICLES USING MOLTEN $\epsilon$ -CAPROLACTAM AS SOLVENT AND REDUCING AGENT. Nano, 2014, 09, 1450085.	0.5	0
21	Fabrication of silver nanoparticles through reduction by $\epsilon$ -caprolactam without using protecting agent. RSC Advances, 2014, 4, 28765-28768.	1.7	5
22	Successive in situ synthesis of Ag/PA6 nanocomposites. RSC Advances, 2014, 4, 45311-45317.	1.7	1
23	Crystallization behavior and morphology of double crystalline poly(trimethylene Terephthalate)/poly(ethylene oxide) blends. Journal of Applied Polymer Science, 2013, 107, 582-592.	1.6	6
24	Double in situ synthesis of Fe <sub>3</sub> O <sub>4</sub> /polyamide 6 magnetic nanocomposite. Materials Letters, 2013, 98, 90-93.	1.3	11
25	Lactam-mediated synthesis of inorganic nanoparticles and size/surface-dependent properties: a case study on zinc oxide. RSC Advances, 2013, 3, 12320.	1.7	4
26	Preparation and characterization of poly(trimethylene terephthalate)-poly(ethylene oxide) blends via in situ polymerization. Polymer Engineering and Science, 2013, 53, 914-922.	1.5	4
27	Facile synthesis of inorganic nanoparticles by a precipitation method in molten $\epsilon$ -caprolactam solvent. Journal of Materials Chemistry, 2012, 22, 18664.	6.7	24
28	Investigation on particular phase morphology of immiscible polyamide 12 and polystyrene blends prepared via anionic ring-opening polymerization. Polymer Engineering and Science, 2012, 52, 1831-1838.	1.5	5
29	Investigation on particular morphology of immiscible polyamide 12/polystyrene blends. Journal of Applied Polymer Science, 2012, 125, 2970-2976.	1.3	0
30	Synthesis and characterization of polyamide-6/graphite oxide nanocomposites. Journal of Materials Science, 2011, 46, 882-888.	1.7	23
31	Effect of montmorillonite on the morphologies and properties of monomer casting polyamide 6/polystyrene blends via successive in situ polymerization. Journal of Materials Science, 2011, 46, 2700-2708.	1.7	11
32	A novel method for the synthesis of polyamide 6 magnetic microspheres. Journal of Materials Science, 2011, 46, 5050-5055.	1.7	10
33	Non-isothermal crystallization of polyamide 6 matrix in all-polyamide composites: crystallization kinetic, melting behavior, and crystal morphology. Journal of Materials Science, 2011, 46, 5184-5191.	1.7	26
34	Synthesis and characterization of nylon-6/mesoporous silica nanocomposites via in situ synchronous hydrolytic polymerization of tetraethylorthosilicate and $\epsilon$ -caprolactam. Journal of Applied Polymer Science, 2011, 120, 1957-1964.	1.3	17
35	An unusual morphology and crystallization behavior in in situ formed polyphenylene oxide/polyamide 6 blends. Journal of Materials Science, 2010, 45, 987-992.	1.7	10
36	Crystallization, melting behavior, and wettability of poly( $\epsilon$ -caprolactone) and poly( $\epsilon$ -caprolactone)/poly(N-vinylpyrrolidone) blends. Journal of Applied Polymer Science, 2010, 115, 2747-2755.	1.3	10

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37	Preparation and characterization of transparent poly(methyl methacrylate)/Na <sup>+</sup> /MMT nanocomposite films by solution casting. Journal of Applied Polymer Science, 2010, 115, 2773-2778.	1.3	13
38	Synthesis and thermal characterization of random poly(butylene terephthalate) (terephthalate) copolyester. Journal of Applied Polymer Science, 2010, 117, 750-755.	1.3	2
39	Polyamide 6 composites reinforced with silicon nitride whiskers: Synthesis, interface interaction, and mechanical properties. Journal of Applied Polymer Science, 2010, 115, 3376-3384.	1.3	15
40	Influence of <i>in situ</i> compatibilization on <i>in situ</i> formation of low-density polyethylene/polyamide 6 blends by reactive extrusion. Journal of Applied Polymer Science, 2010, 116, 3027-3034.	1.3	6
41	Synthesis and properties of poly(trimethylene terephthalate)- <i>co</i> -poly(methyl ethylene terephthalate) random copolyesters. Journal of Applied Polymer Science, 2010, 116, 3419-3426.	1.3	3
42	Synthesis and properties of poly(butylene terephthalate)/multiwalled carbon nanotube nanocomposites prepared by <i>in situ</i> polymerization and <i>in situ</i> compatibilization. Journal of Applied Polymer Science, 2010, 118, 2929-2938.	1.3	22
43	Crystallization-induced aging in poly(trimethylene terephthalate)/poly(ethylene oxide terephthalate) segmented block copolymers. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 411-416.	2.4	6
44	Poly(trimethylene terephthalate)/silica nanocomposites prepared by dual <i>in situ</i> polymerization: synthesis, morphology, crystallization behavior and mechanical properties. Polymer International, 2010, 59, 492-500.	1.6	12
45	A super-toughened nylon 12 blends via anionic ring-opening polymerization of lauryllactam in a twin screw extruder. Preparation, morphology, and mechanical properties. Polymer Engineering and Science, 2010, 50, 1178-1185.	1.5	10
46	<i>In situ</i> synthesis of polyamide 6/MWNTs nanocomposites by anionic ring opening polymerization. Journal of Applied Polymer Science, 2009, 111, 1278-1285.	1.3	19
47	Synthesis and properties of monomer casting polyamide 6/poly(methyl methacrylate) blends. Journal of Applied Polymer Science, 2009, 111, 101-107.	1.3	8
48	Cracking in poly(trimethylene terephthalate) spherulites. Journal of Applied Polymer Science, 2009, 111, 1713-1719.	1.3	6
49	Novel biodegradable amphiphilic poly( $\epsilon$ -caprolactone)/poly( <i>N</i> -vinylpyrrolidone) blends via successive <i>in situ</i> polymerizations. Journal of Applied Polymer Science, 2009, 111, 1676-1683.	1.3	5
50	Synthesis and characterization of monomer casting polyamide 6/polymethacrylic ionomer blends. Journal of Applied Polymer Science, 2009, 111, 2970-2979.	1.3	4
51	Synthesis and properties of homogeneously dispersed polyamide 6/MWNTs nanocomposites via simultaneous <i>in situ</i> anionic ring-opening polymerization and compatibilization. Journal of Applied Polymer Science, 2009, 112, 3620-3626.	1.3	19
52	Reactive extrusion for the synthesis of nylon 12 and maleated low-density polyethylene blends via the anionic ring-opening polymerization of lauryllactam. Journal of Applied Polymer Science, 2009, 114, 2662-2672.	1.3	6
53	Synthesis and properties of hydroxyapatite nanorod-reinforced polyamide 6 nanocomposites. Polymer International, 2009, 58, 380-387.	1.6	19
54	Variable-temperature FTIR studies on thermal stability of hydrogen bonding in nylon 6/mesoporous silica nanocomposite. Polymer International, 2009, 58, 503-510.	1.6	31

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55	Synthesis, thermal, and rheological properties of poly(trimethylene terephthalate)/BaSO <sub>4</sub> nanocomposites. <i>Polymers for Advanced Technologies</i> , 2009, 20, 768-774.	1.6	22
56	Characterization of poly(vinylidene fluoride)/Na <sup>+</sup> â€”MMT composites: An investigation into the Î²-crystalline nucleation effect of Na <sup>+</sup> â€”MMT. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 903-911.	2.4	17
57	<i>In situ</i> synthesis of bone-like hydroxyapatite/polyamide 6 nanocomposites. <i>Polymer International</i> , 2008, 57, 1226-1234.	1.6	15
58	Influence of preparation methods on the structures and properties for the blends between polyamide 6 and polyamide 6: Melt-mixing and <i>in situ</i> blending. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 201-211.	2.4	9
59	Evaluation of ammonium terminated PMMA as compatibilizers for monomer casting polyamide6/clay nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 1802-1810.	2.4	4
60	Preparation of exfoliated polyacrylic clay nanocomposites with high loading: An investigation into the intercalation of ammonium-terminated polyacrylic acid and polyacrylates. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 2335-2340.	2.4	8
61	Novel multimonomer-grafted polypropylene preparation and application in polypropylene/poly(vinyl Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 307 T	1.3	3
62	Reinforcing network structure: Analysis of the phase morphology and mechanical properties of polymer blends [poly(methyl methacrylate)/poly(Îµ-caprolactone)] with the addition of a third polymer [poly(vinyl chloride)]. <i>Journal of Applied Polymer Science</i> , 2008, 108, 1044-1048.	1.3	1
63	Comparison of crystallization behaviors of poly(Îµ-caprolactone) in confined environment with that in bulk. <i>Journal of Applied Polymer Science</i> , 2008, 107, 3796-3803.	1.3	9
64	Synthesis and properties of SMAâ€”gâ€”CPA6 and PPO blends via <i>in situ</i> active anionic polymerization of Îµ-caprolactam, comparing with MCPA6/PPO blends. <i>Journal of Applied Polymer Science</i> , 2008, 108, 3419-3429.	1.3	11
65	Morphology and flame-retardancy properties of ternary high-impact polystyrene/elastomer/polystyrene-encapsulated magnesium hydroxide composites. <i>Journal of Applied Polymer Science</i> , 2008, 108, 2488-2493.	1.3	5
66	Melting behaviors, isothermal crystallization kinetics, and morphology of poly(trimethylene Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 T	1.3	8
67	Interfacial modification of high impact polystyrene magnesium hydroxide composites effects on flame retardancy properties. <i>Journal of Applied Polymer Science</i> , 2008, 110, 578-583.	1.3	12
68	Evaluation of polymethacrylic ionomer as compatibilizers for MCPA6/clay composites. <i>Journal of Applied Polymer Science</i> , 2008, 110, 2727-2732.	1.3	3
69	Effects of interfacial modification on the thermal, mechanical, and fire properties of high-impact polystyrene/microencapsulated red phosphorous. <i>Journal of Applied Polymer Science</i> , 2008, 110, 2139-2144.	1.3	19
70	Effect of <i>in situ</i> synthesized macroactivator on morphology of PA6/PS blends via successive polymerization. <i>Journal of Applied Polymer Science</i> , 2007, 105, 1757-1765.	1.3	11
71	Structure, Morphology and Properties of a Novel Molecular Composite by In-Situ Blending of Anionic Polyamide 6 with a Polyamide Copolymer Containing Rigid Segments. <i>Macromolecular Materials and Engineering</i> , 2007, 292, 197-205.	1.7	7
72	Effects of elastomer on morphology, flammability and rheological properties of HIPS/PS-encapsulated Mg(OH) <sub>2</sub> composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 2023-2030.	2.4	10

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73	Effects of shell thickness of polystyrene-encapsulated Mg(OH) <sub>2</sub> on flammability and rheological properties of high-impact polystyrene composites. <i>Polymer International</i> , 2007, 56, 1135-1141.	1.6	12
74	A New Strategy for the Preparation of Polyamide-6 Microspheres with Designed Morphology. <i>Macromolecules</i> , 2006, 39, 7801-7804.	2.2	26
75	Preparation and characterization of thermoplastic polyurethane elastomer and polyamide 6 blends by in situ anionic ring-opening polymerization of $\epsilon$ -caprolactam. <i>Polymer Engineering and Science</i> , 2006, 46, 1196-1203.	1.5	19
76	Phase morphology development in PP/PA6 blends induced by a maleated thermoplastic elastomer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 1050-1061.	2.4	13
77	Synthesis, rheology, and morphology of nylon-11/layered silicate nanocomposite. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 2161-2172.	2.4	34
78	Studies on novel composites of polyoxymethylene/ polyamide 6. <i>Journal of Applied Polymer Science</i> , 2006, 99, 335-339.	1.3	13
79	Effects of polyphenylene oxide content on morphology, thermal, and mechanical properties of polyphenylene oxide/polyamide 6 blends. <i>Journal of Applied Polymer Science</i> , 2006, 99, 2076-2081.	1.3	27
80	Toughening and compatibilization of polypropylene/polyamide-6 blends with a maleated grafted ethylene-co-vinyl acetate. <i>Journal of Applied Polymer Science</i> , 2006, 99, 3300-3307.	1.3	18
81	Morphology and thermal behavior of MCPA6/SAN blends prepared by anionic ring-opening polymerization of $\epsilon$ -caprolactam. <i>Journal of Applied Polymer Science</i> , 2006, 100, 1357-1363.	1.3	8
82	Crystallization behavior of nylon 11/montmorillonite nanocomposites under annealing. <i>Journal of Applied Polymer Science</i> , 2006, 102, 5483-5489.	1.3	14
83	Property transitions in high-density polyethylene/maleated poly(ethylene octene)/calcium carbonate ternary composites. <i>Journal of Applied Polymer Science</i> , 2006, 101, 3361-3366.	1.3	7
84	Morphology and mechanical properties of high-impact polystyrene/elastomer/magnesium hydroxide composites. <i>Journal of Applied Polymer Science</i> , 2006, 102, 5184-5190.	1.3	39
85	Synthesis of Exfoliated Monomer Casting Polyamide 6/Na <sup>+</sup> -Montmorillonite Nanocomposites by Anionic Ring Opening Polymerization. <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 701-707.	1.1	47
86	Comparison of Polyamide-6 Nanocomposites Based on Pristine and Organic Montmorillonite Obtained via Anionic Ring-Opening Polymerization. <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 1174-1181.	1.1	22
87	Blends of Immiscible Polystyrene/Polyamide 6 via Successive In-Situ Polymerizations. <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 1980-1985.	1.1	13
88	Effect of Na <sup>+</sup> -MMT Platelets on Monomer Casting Polyamide 6/Polyphenylene Oxide Blends. <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 2180-2187.	1.1	9
89	Properties of Nylon-6/Na <sup>+</sup> -Montmorillonite Nanocomposites Obtained by Hydrolyzed Ring-Opening Polymerization. <i>Macromolecular Rapid Communications</i> , 2006, 27, 1572-1577.	2.0	12
90	Effects of maleated styrene-(ethylene-co-butene)-styrene on the morphology and mechanical and thermal properties of polystyrene/polyamide 1212 blends. <i>Journal of Applied Polymer Science</i> , 2005, 95, 1354-1360.	1.3	7

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91	Melting behavior and nonisothermal crystallization kinetics of polyamide 6/polyamide 66 molecular composites via in situ polymerization. <i>Journal of Applied Polymer Science</i> , 2005, 98, 2172-2177.	1.3	16
92	Morphology and Thermal Properties of MCPA6/ABS by in situ Polymerization of $\epsilon$ -Caprolactam. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 1887-1895.	1.1	13
93	Synergistically toughening high-density polyethylene with calcium carbonate and elastomer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 3213-3221.	2.4	11
94	Maleic anhydride grafted thermoplastic elastomer as an interfacial modifier for polypropylene/polyamide 6 blends. <i>Journal of Applied Polymer Science</i> , 2004, 91, 1806-1815.	1.3	21
95	Effects of maleated styrene-(ethylene-co-butene)-styrene on compatibilization and properties of nylon-12,12/nylon-6 blends. <i>Journal of Applied Polymer Science</i> , 2004, 93, 1446-1453.	1.3	8
96	Interface and mechanical properties of poly(methyl methacrylate)-fiber composites. <i>Journal of Applied Polymer Science</i> , 2004, 93, 2478-2483.	1.3	6
97	Isothermal and nonisothermal crystallization kinetics of a semicrystalline copolyterephthalamide based on poly(decamethylene terephthalamide). <i>Journal of Applied Polymer Science</i> , 2004, 94, 819-826.	1.3	17
98	Dynamic Rheological Properties of Polypropylene/Polyamide-6 Blends Modified with a Maleated Thermoplastic Elastomer. <i>Polymer Journal</i> , 2004, 36, 754-760.	1.3	12
99	Toughening of polyethylene terephthalate/amorphous copolyester blends with a maleated thermoplastic elastomer. <i>Journal of Applied Polymer Science</i> , 2003, 89, 797-805.	1.3	16
100	Synthesis and characterization of poly(methyl methacrylate)/montmorillonite nanocomposites by in situ bulk polymerization. <i>Journal of Applied Polymer Science</i> , 2003, 89, 2256-2260.	1.3	41
101	Toughening of a copolyester with a maleated core-shell toughener. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000, 38, 2801-2809.	2.4	19