

# Ke Wang

## List of Publications by Citations

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115  
papers

3,521  
citations

31  
h-index

56  
g-index

118  
ext. papers

3,812  
ext. citations

3.8  
avg, IF

4.93  
L-index

#	Paper	IF	Citations
115	Epoxy Nanocomposites with Highly Exfoliated Clay: Mechanical Properties and Fracture Mechanisms. <i>Macromolecules</i> , <b>2005</b> , 38, 788-800	5.5	470
114	New Understanding in Tuning Toughness of Polypropylene: The Role of Nucleated Crystalline Morphology. <i>Macromolecules</i> , <b>2009</b> , 42, 9325-9331	5.5	241
113	Preparation, morphology and thermal/mechanical properties of epoxy/nanoclay composite. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2006</b> , 37, 1890-1896	8.4	175
112	The role of clay network on macromolecular chain mobility and relaxation in isotactic polypropylene/organoclay nanocomposites. <i>Polymer</i> , <b>2006</b> , 47, 7131-7144	3.9	163
111	Direct Formation of Nanohybrid Shish-Kebab in the Injection Molded Bar of Polyethylene/Multiwalled Carbon Nanotubes Composite. <i>Macromolecules</i> , <b>2009</b> , 42, 7016-7023	5.5	143
110	The resistivity-strain behavior of conductive polymer composites: stability and sensitivity. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 17085-17098	13	132
109	Preparation of highly exfoliated epoxy/clay nanocomposites by "slurry compounding": process and mechanisms. <i>Langmuir</i> , <b>2005</b> , 21, 3613-8	4	125
108	Fabrication of a transparent superamphiphobic coating with improved stability. <i>Soft Matter</i> , <b>2011</b> , 7, 6435	3.6	119
107	Poly(ester urethane)s consisting of poly[(R)-3-hydroxybutyrate] and poly(ethylene glycol) as candidate biomaterials: characterization and mechanical property study. <i>Biomacromolecules</i> , <b>2005</b> , 6, 2740-7	6.9	95
106	Mechanical properties and toughening mechanisms of polypropylene/barium sulfate composites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2003</b> , 34, 1199-1205	8.4	82
105	Dependence of mechanical properties on form content and crystalline morphology for nucleated isotactic polypropylene. <i>Polymers for Advanced Technologies</i> , <b>2011</b> , 22, 2044-2054	3.2	64
104	Dispersion and mechanical properties of polypropylene/multiwall carbon nanotubes composites obtained via dynamic packing injection molding. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 104, 1880-1886	2.9	61
103	Electrically Conductive Epoxy/Clay/Vapor Grown Carbon Fiber Hybrids. <i>Macromolecules</i> , <b>2006</b> , 39, 908-915	5.1	56
102	The preparation and properties of polystyrene/functionalized graphene nanocomposite foams using supercritical carbon dioxide. <i>Polymer International</i> , <b>2013</b> , 62, 1077-1084	3.3	55
101	Control of the hierarchical structure of polymer articles via structuring-processing. <i>Progress in Polymer Science</i> , <b>2014</b> , 39, 891-920	29.6	54
100	A promising alternative to conventional polyethylene with poly(propylene carbonate) reinforced by graphene oxide nanosheets. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 17627		51
99	Hydrophobicity of model surfaces with closely packed nano- and micro-spheres. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2007</b> , 296, 123-131	5.1	47

98	Hydrophobicity of model surfaces with loosely packed polystyrene spheres after plasma etching. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 11241-6	3.4	46
97	Towards high-performance poly(L-lactide)/elastomer blends with tunable interfacial adhesion and matrix crystallization via constructing stereocomplex crystallites at the interface. <i>RSC Advances</i> , <b>2014</b> , 4, 49374-49385	3.7	43
96	Super hydrophobic property of PVDF/CaCO <sub>3</sub> nanocomposite coatings. <i>Journal of Materials Science Letters</i> , <b>2003</b> , 22, 1713-1717		43
95	Nanostructures and nanoporosity in thermoset epoxy blends with an amphiphilic polyisoprene-block-poly(4-vinyl pyridine) reactive diblock copolymer. <i>Polymer</i> , <b>2008</b> , 49, 1737-1742	3.9	42
94	Phase behavior, crystallization, and nanostructures in thermoset blends of epoxy resin and amphiphilic star-shaped block copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2006</b> , 44, 975-985	2.6	40
93	Interfacial strength and mechanical properties of biocomposites based on ramie fibers and poly(butylene succinate). <i>RSC Advances</i> , <b>2013</b> , 3, 26418	3.7	39
92	Effect of annealing on the microstructure and mechanical properties of polypropylene with oriented shish-kebab structure. <i>Polymer International</i> , <b>2012</b> , 61, 252-258	3.3	39
91	Combined effect of nucleating agent and multi-walled carbon nanotubes on polymorphic composition and morphology of isotactic polypropylene. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2012</b> , 107, 733-743	4.1	38
90	Nanostructured thermoset epoxy resin templated by an amphiphilic poly(ethylene oxide)-block-poly(dimethylsiloxane) diblock copolymer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2006</b> , 44, 3042-3052	2.6	37
89	Preparation, microstructure and thermal mechanical properties of epoxy/crude clay nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2007</b> , 38, 192-197	8.4	36
88	Improved thermal stability and mechanical properties of poly(propylene carbonate) by reactive blending with maleic anhydride. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 120, 3565-3573	2.9	35
87	Hydrothermal effects on the thermomechanical properties of high performance epoxy/clay nanocomposites. <i>Polymer Engineering and Science</i> , <b>2006</b> , 46, 215-221	2.3	34
86	Enhanced compatibilization and orientation of polyvinyl alcohol/gelatin composite fibers using carbon nanotubes. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 107, 4070-4075	2.9	31
85	Radial growth rate of spherulites in polypropylene/barium sulfate composites. <i>European Polymer Journal</i> , <b>2003</b> , 39, 1647-1652	5.2	31
84	Interfacial enhancement of maleated polypropylene/silica composites using graphene oxide. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 125, E348	2.9	30
83	Morphology, crystallization, and mechanical properties of poly(ethylene terephthalate)/multiwall carbon nanotube nanocomposites via in situ polymerization with very low content of multiwall carbon nanotubes. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 104, 3695-3701	2.9	27
82	Confine Clay in an Alternating Multilayered Structure through Injection Molding: A Simple and Efficient Route to Improve Barrier Performance of Polymeric Materials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 10178-89	9.5	26
81	Preparation, structure and properties of thermoplastic olefin nanocomposites containing functionalized carbon nanotubes. <i>Polymer International</i> , <b>2011</b> , 60, 1629-1637	3.3	25

80	Extension-induced mechanical reinforcement in melt-spun fibers of polyamide 66/multiwalled carbon nanotube composites. <i>Polymer International</i> , <b>2011</b> , 60, 1646-1654	3.3	25
79	Rheological Investigations in Understanding Shear-Enhanced Crystallization of Isotactic Poly(propylene)/Multi-Walled Carbon Nanotube Composites. <i>Macromolecular Rapid Communications</i> , <b>2007</b> , 28, 1257-1264	4.8	25
78	Facilely assess the soluble behaviour of the nucleating agent by gradient temperature field for the construction of heterogeneous crystalline-frameworks in iPP. <i>Soft Matter</i> , <b>2016</b> , 12, 594-601	3.6	23
77	Strengthening and toughening of thermoplastic polyolefin elastomer using polypropylene-grafted multiwalled carbon nanotubes. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 121, 2104-2112	2.9	23
76	Microstructures and fracture behavior of glass-fiber reinforced PBT/PC/E-GMA elastomer blends: microstructures. <i>Composites Science and Technology</i> , <b>2001</b> , 61, 1529-1538	8.6	23
75	Progresses in Manufacturing Techniques of Lithium-Ion Battery Separators in China. <i>Chinese Journal of Chemistry</i> , <b>2019</b> , 37, 1207-1215	4.9	22
74	An observation of accelerated exfoliation in iPP/organoclay nanocomposite as induced by repeated shear during melt solidification. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2005</b> , 43, 2005-2012	2.6	22
73	Microstructure and fracture behavior of polypropylene/barium sulfate composites. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 99, 1207-1213	2.9	21
72	A novel non-releasing antibacterial poly(styrene-acrylate)/waterborne polyurethane composite containing gemini quaternary ammonium salt. <i>RSC Advances</i> , <b>2015</b> , 5, 89763-89770	3.7	20
71	Fracture toughness and fracture mechanisms of PBT/PC/IM blends: Part V Effect of PBT-PC interfacial strength on the fracture and tensile properties of the PBT/PC blends. <i>Journal of Materials Science</i> , <b>2003</b> , 38, 183-191	4.3	19
70	Combined effect of shear and nucleating agent on the multilayered structure of injection-molded bar of isotactic polypropylene. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 112, 1104-1113	2.9	18
69	Miscibility and isothermal crystallization behavior of polyamide 6/poly(vinyl alcohol) blend. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2008</b> , 46, 1360-1368	2.6	18
68	Morphology and internal structure control over PLA microspheres by compounding PLLA and PDLA and effects on drug release behavior. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2018</b> , 172, 105-112	6	17
67	Oscillatory shear-accelerated exfoliation of graphite in polypropylene melt during injection molding. <i>Chinese Journal of Polymer Science (English Edition)</i> , <b>2013</b> , 31, 98-109	3.5	17
66	Improving tensile strength and toughness of melt processed polyamide 6/multiwalled carbon nanotube composites by in situ polymerization and filler surface functionalization. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 120, 133-140	2.9	17
65	Effect of melting temperature on interfacial interaction and mechanical properties of polypropylene (PP) fiber reinforced olefin block copolymers (OBCs). <i>RSC Advances</i> , <b>2014</b> , 4, 45234-45243	3.7	16
64	Soluble ST2 plasma concentrations predict mortality in HBV-related acute-on-chronic liver failure. <i>Mediators of Inflammation</i> , <b>2015</b> , 2015, 535938	4.3	16
63	Enhanced interfacial adhesion via interfacial crystallization between sisal fiber and isotactic polypropylene: direct evidence from single-fiber fragmentation testing. <i>Polymer International</i> , <b>2014</b> , 63, 646-651	3.3	16

62	The Effect of Nanofiller on the Thermomechanical Properties of Polyimide/Clay Nanocomposites. <i>Macromolecular Chemistry and Physics</i> , <b>2008</b> , 209, 643-650	2.6	16
61	Combined effect of nucleating agent and processing melt temperature on the toughness of impact polypropylene copolymer. <i>Polymer International</i> , <b>2013</b> , 62, 172-178	3.3	13
60	Effect of melt temperature on the phase morphology, thermal behavior and mechanical properties of injection-molded PP/LLDPE blends. <i>Chinese Journal of Polymer Science (English Edition)</i> , <b>2010</b> , 28, 249-255	3.5	13
59	The interfacial enhancement of LLDPE/whisker composites via interfacial crystallization. <i>Polymers for Advanced Technologies</i> , <b>2012</b> , 23, 431-440	3.2	12
58	Crystallization and melting behaviour of polypropylene/barium sulfate composites. <i>Polymer International</i> , <b>2004</b> , 53, 838-843	3.3	12
57	Synergistic effects of modification and impact polypropylene copolymer on brittle-ductile transition of polypropylene random copolymer. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 129, 3613-3622	2.9	11
56	Tailoring toughness of injection molded bar of polypropylene random copolymer through processing melt temperature. <i>Polymer International</i> , <b>2011</b> , 60, 1705-1714	3.3	11
55	Low density polyethylene-polypropylene blends: Part 2 - Strengthening and toughening with copolymer. <i>Plastics, Rubber and Composites</i> , <b>2003</b> , 32, 27-31	1.5	11
54	Reduction of graphene oxide with the presence of polypropylene micro-latex for facile preparation of polypropylene/graphene nanosheet composites. <i>Colloid and Polymer Science</i> , <b>2015</b> , 293, 1495-1503	2.4	10
53	Synergistic effects of polyethylene glycol and ammonium polyphosphate on intumescent flame-retardant polypropylene. <i>Polymer Engineering and Science</i> , <b>2013</b> , 53, 410-416	2.3	10
52	Effects of matrix molecular weight on structure and reinforcement of high density polyethylene/mica composites. <i>Chinese Journal of Polymer Science (English Edition)</i> , <b>2011</b> , 29, 377-389	3.5	10
51	Ordered long-helical conformation of isotactic polypropylene obtained in constrained environment of nanoclay. <i>Polymers for Advanced Technologies</i> , <b>2011</b> , 22, 1375-1380	3.2	10
50	Shear-induced fibrillation and resultant mechanical properties of injection-molded polyamide 1010/isotactic polypropylene blends. <i>Polymer International</i> , <b>2011</b> , 60, 1655-1662	3.3	10
49	Preparation and properties of poly(ethylene terephthalate)/inorganic whiskers composites. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 121, 604-611	2.9	10
48	Toughening of polyamide 11 via addition of crystallizable polyethylene derivatives. <i>Polymer International</i> , <b>2009</b> , 58, 538-544	3.3	10
47	Low density polyethylene-polypropylene blends: Part 1 - Ductility and tensile properties. <i>Plastics, Rubber and Composites</i> , <b>2003</b> , 32, 21-26	1.5	10
46	Manipulation of multiphase morphology in the reactive blending system OBC/PLA/EGMA. <i>RSC Advances</i> , <b>2015</b> , 5, 96353-96359	3.7	9
45	Size distribution and anisotropy of the minor phase droplets in polypropylene/ethylene-octene copolymer blends: Effects of shear and component miscibility. <i>Chinese Journal of Polymer Science (English Edition)</i> , <b>2014</b> , 32, 9-20	3.5	9

44	Morphology and mechanical properties of poly(ethyleneoctene) copolymers obtained by dynamic packing injection molding. <i>Chinese Journal of Polymer Science (English Edition)</i> , <b>2012</b> , 30, 603-612	3.5	9
43	High speed injection molding of high density polyethylene [Effects of injection speed on structure and properties. <i>Chinese Journal of Polymer Science (English Edition)</i> , <b>2011</b> , 29, 456-464	3.5	9
42	Phase behavior and properties of polyvinyl alcohol/gelatin blends with novel pH-dependence. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2009</b> , 47, 239-247	2.6	9
41	Poly(propylene)/Clay Nanocomposites Prepared by Reactive Compounding with an Epoxy Based Masterbatch. <i>Macromolecular Materials and Engineering</i> , <b>2005</b> , 290, 1029-1036	3.9	9
40	Effect of surface wettability on transparency in different water conditions <b>2013</b> , 10, 641-647		8
39	The variable role of clay on the crystallization behavior of DMDBS-nucleated polypropylene. <i>Chinese Journal of Polymer Science (English Edition)</i> , <b>2011</b> , 29, 732-740	3.5	8
38	Epitaxial crystallization and oriented structure of linear low-density polyethylene/isotactic polypropylene blends obtained via dynamic packing injection molding. <i>Polymers for Advanced Technologies</i> , <b>2011</b> , 22, 225-231	3.2	8
37	Largely Improved Stretch Ductility and Form Room-temperature Durability of Poly(vinylidene fluoride) by Incorporating Aliphatic Polyketone. <i>Chinese Journal of Polymer Science (English Edition)</i> , <b>2018</b> , 36, 1277-1285	3.5	7
36	Brittle-ductile transition behavior of poly(ethylene terephthalate)/poly(ethylene-octene) blend: the roles of compatibility and test temperature. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 1794-1804	4.3	7
35	Gut microbiota as prognosis markers for patients with HBV-related acute-on-chronic liver failure. <i>Gut Microbes</i> , <b>2021</b> , 13, 1-15	8.8	7
34	Effects of thermo-oxidative aging on structure and low temperature impact performance of rotationally molded products. <i>Polymer Degradation and Stability</i> , <b>2019</b> , 161, 150-156	4.7	6
33	Thermal annealing-induced superior toughness in polypropylene/poly(ethylene glycol) blend and its structural origin. <i>Polymer Engineering and Science</i> , <b>2013</b> , 53, 2053-2060	2.3	6
32	Superior tensile extensibility of PETG/PC amorphous blends induced via uniaxial stretching. <i>Chinese Journal of Polymer Science (English Edition)</i> , <b>2011</b> , 29, 125-132	3.5	6
31	Plasma treatment-induced fluorine-functionalized multi-walled carbon nanotubes to modify poly(ethylene terephthalate) obtained via in situ polymerization. <i>Polymer International</i> , <b>2010</b> , 59, 198-203	3.3	6
30	Characterization of fluoroalkylsilane monolayer on polystyrene sphere arrays after plasma treatment. <i>Surface Science</i> , <b>2007</b> , 601, 1394-1402	1.8	6
29	Correlations between microstructure of flow nuclei and polymorphism of shear-induced iPP/carbon fiber cylindrite. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2019</b> , 57, 368-377	2.6	5
28	Toughening of polypropylene with crystallizable poly(ethylene oxide). <i>Polymer International</i> , <b>2011</b> , 60, 781-786	3.3	5
27	Significant toughness improvement in iPP/PLLA/EGMA blend by introducing dicumyl peroxide as the morphology governor. <i>Colloid and Polymer Science</i> , <b>2018</b> , 296, 31-39	2.4	5

26	Effects of montmorillonite on structures and properties of injection-molded polypropylene. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47442	2.9	4
25	Structural origins of mechanical strengthening in poly(phenylene sulfide)/multiwalled carbon nanotube nanocomposites obtained via hot-stretching. <i>Polymer Composites</i> , <b>2019</b> , 40, E589	3	4
24	Preparation of polypropylene/graphite nanocomposite with the aids of rotating solid-state mixing and dynamic packing injection molding. <i>Polymer Composites</i> , <b>2014</b> , 35, 1943-1951	3	4
23	Enhanced crystallization behaviors of poly(ethylene terephthalate) via adding expanded graphite and poly(ethylene glycol). <i>Colloid and Polymer Science</i> , <b>2013</b> , 291, 911-917	2.4	4
22	Acid-modified carbon nanotubes distribution and mechanical enhancement in polystyrene/elastomer blends. <i>Polymer Engineering and Science</i> , <b>2012</b> , 52, 964-971	2.3	4
21	Polystyrene-wrapping multi-walled carbon nanotubes obtained via simple physical modification of melt mixing. <i>Polymers for Advanced Technologies</i> , <b>2011</b> , 22, 1359-1365	3.2	4
20	Brittle-ductile transition in the PETG/PC blends by adding PTW elastomer. <i>Polymers for Advanced Technologies</i> , <b>2009</b> , 21, n/a-n/a	3.2	4
19	Shear-induced clay dispersion in HDPE/PEgMA/organoclay composites as studied via real-time rheological method. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2010</b> , 48, 302-312	2.6	4
18	Largely improved tensile extensibility of poly(L-lactic acid) by adding poly(ε-caprolactone). <i>Polymer International</i> , <b>2010</b> , 59, n/a-n/a	3.3	4
17	Mechanical Properties and Fracture Mechanisms of Fiber Reinforced PBT/PC/Elastomer Blends. <i>Key Engineering Materials</i> , <b>2000</b> , 177-180, 363-368	0.4	4
16	Exploitation of a promising flame-retardant engineering plastics by molten composited polyketone and diethyl zinc phosphinate. <i>Polymers for Advanced Technologies</i> , <b>2019</b> , 30, 1978-1988	3.2	3
15	Simultaneously reinforce and toughen polypropylene by in-situ introducing polylactic acid microfibrils. <i>Polymers for Advanced Technologies</i> , <b>2018</b> , 29, 1469-1477	3.2	3
14	Realizing self-reinforcement of polyethylene via high-speed shear processing. <i>Journal of Polymer Research</i> , <b>2019</b> , 26, 1	2.7	2
13	Structure variation and puncture resistance of stretched crosslinked polyethylene film: Effects of stretching temperature. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47542	2.9	2
12	Comparison of the toughening behavior for poly(ethylene terephthalate) with spherulitic or ellipsoid elastomer-particles. <i>Journal of Polymer Research</i> , <b>2014</b> , 21, 1	2.7	2
11	Unusual rheological characteristics of polypropylene/organoclay nanocomposites in continuous cooling process. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 125, E292	2.9	2
10	Effect of Interfacial Modification on the Rheological Properties and Nucleation Behaviour of PP-BaSO4 Composites. <i>Polymers and Polymer Composites</i> , <b>2006</b> , 14, 473-481	0.8	2
9	Hydrogen-bond-dominated mechanical stretchability in PVA films: from phenomenological to numerical insights.. <i>Physical Chemistry Chemical Physics</i> , <b>2022</b> , 24, 1885-1895	3.6	2

8	TMEM2 binds to CSNK2A3 to inhibit HBV infection via activation of the JAK/STAT pathway. <i>Experimental Cell Research</i> , <b>2021</b> , 400, 112517	4.2	2
7	Preparation of high oil-absorptive uniform gel with controllable oil-absorbency by radiation. <i>RSC Advances</i> , <b>2017</b> , 7, 31519-31524	3.7	1
6	Intercalation of copper microparticles in an expanded graphite film with improved through-plane thermal conductivity. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 7351-7358	4.3	1
5	FTIR and NMR characterization of thermosetting methyl methacrylate terminated poly(2,6-dimethyl-1,4-phenylene oxide)triallyl isocyanurate copolymer. <i>Journal of Polymer Research</i> , <b>2021</b> , 28, 1	2.7	1
4	Influence of molecular weight on molding efficiency and properties of sintered UHMWPE thick-size products. <i>Journal of Polymer Research</i> , <b>2021</b> , 28, 1	2.7	1
3	Study of Mechanical Property and Cellular structure Based on the Controllable Crosslinking Polyethylene Foaming Materials. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 544, 012058	0.4	
2	PET Clay Nanocomposites by In-situ Polymerization <b>2011</b> , 105-122		
1	Polypropylene/Clay Nanocomposites 251-282		