

Qiang Zheng

List of Publications by Year in descending order

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288
papers

8,617
citations

50170

46
h-index

69108

77
g-index

288
all docs

288
docs citations

288
times ranked

8283
citing authors

#	ARTICLE	IF	CITATIONS
1	Time dependence of piezoresistance for the conductor-filled polymer composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000, 38, 2739-2749.	2.4	269
2	Ultrastiff and Tough Supramolecular Hydrogels with a Dense and Robust Hydrogen Bond Network. <i>Chemistry of Materials</i> , 2019, 31, 1430-1440.	3.2	241
3	Environmentally friendly reduced graphene oxide as a broad-spectrum adsorbent for anionic and cationic dyes via π - π interactions. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12126-12135.	5.2	210
4	3D Multiscale Superhydrophilic Sponges with Delicately Designed Pore Size for Ultrafast Oil/Water Separation. <i>Advanced Functional Materials</i> , 2017, 27, 1704293.	7.8	199
5	A Tough and Stiff Hydrogel with Tunable Water Content and Mechanical Properties Based on the Synergistic Effect of Hydrogen Bonding and Hydrophobic Interaction. <i>Macromolecules</i> , 2018, 51, 8136-8146.	2.2	179
6	Magnetocaloric effect and magnetic-field-induced shape recovery effect at room temperature in ferromagnetic Heusler alloy Ni_2MnSb . <i>Journal Physics D: Applied Physics</i> , 2007, 40, 5523-5526.	1.3	178
7	Programmed Deformations of 3D-Printed Tough Physical Hydrogels with High Response Speed and Large Output Force. <i>Advanced Functional Materials</i> , 2018, 28, 1803366.	7.8	172
8	Creating Oxygen Vacancies as a Novel Strategy To Form Tetrahedrally Coordinated Ti^{4+} in Fe/TiO_2 Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7219-7226.	1.5	159
9	Wrapping Carbon Nanotubes in Pyrene-Containing Poly(phenylacetylene) Chains: Solubility, Stability, Light Emission, and Surface Photovoltaic Properties. <i>Macromolecules</i> , 2006, 39, 8011-8020.	2.2	158
10	Critical size and strength of the best bulk metallic glass former in the Mg-Cu-Gd ternary system. <i>Scripta Materialia</i> , 2007, 56, 161-164.	2.6	149
11	Light-steered locomotion of muscle-like hydrogel by self-coordinated shape change and friction modulation. <i>Nature Communications</i> , 2020, 11, 5166.	5.8	148
12	Reversibly Transforming a Highly Swollen Polyelectrolyte Hydrogel to an Extremely Tough One and its Application as a Tubular Grasper. <i>Advanced Materials</i> , 2020, 32, e2005171.	11.1	136
13	Dual-Encryption in a Shape-Memory Hydrogel with Tunable Fluorescence and Reconfigurable Architecture. <i>Advanced Materials</i> , 2021, 33, e2102023.	11.1	127
14	Mg-Cu-(Y,Nd) pseudo-ternary bulk metallic glasses: The effects of Nd on glass-forming ability and plasticity. <i>Scripta Materialia</i> , 2006, 55, 541-544.	2.6	124
15	Large magnetocaloric effect and enhanced magnetic refrigeration in ternary Gd-based bulk metallic glasses. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	115
16	A flyweight and superelastic graphene aerogel as a high-capacity adsorbent and highly sensitive pressure sensor. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9074-9080.	5.2	114
17	Porous poly(vinylidene fluoride) membrane with highly hydrophobic surface. <i>Journal of Applied Polymer Science</i> , 2005, 98, 1358-1363.	1.3	111
18	High glass-forming ability correlated with fragility of Mg-Cu(Ag)-Gd alloys. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	110

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19	Dopamine/Silica Nanoparticle Assembled, Microscale Porous Structure for Versatile Superamphiphobic Coating. <i>ACS Nano</i> , 2016, 10, 2910-2921.	7.3	107
20	Site-Specific Pre-Swelling-Directed Morphing Structures of Patterned Hydrogels. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15974-15978.	7.2	105
21	Cooperative deformations of periodically patterned hydrogels. <i>Science Advances</i> , 2017, 3, e1700348.	4.7	100
22	Accelerating solar desalination in brine through ion activated hierarchically porous polyion complex hydrogels. <i>Materials Horizons</i> , 2020, 7, 3187-3195.	6.4	99
23	Linear rheology of nanofilled polymers. <i>Journal of Rheology</i> , 2015, 59, 155-191.	1.3	95
24	Programmable Morphing Hydrogels for Soft Actuators and Robots: From Structure Designs to Active Functions. <i>Accounts of Chemical Research</i> , 2022, 55, 1533-1545.	7.6	94
25	Grafting of copolymers onto graphene by miniemulsion polymerization for conductive polymer composites: improved electrical conductivity and compatibility induced by interfacial distribution of graphene. <i>Polymer Chemistry</i> , 2013, 4, 2939.	1.9	93
26	Kirigami-Design-Enabled Hydrogel Multimorphs with Application as a Multistate Switch. <i>Advanced Materials</i> , 2020, 32, e2000781.	11.1	93
27	Distributed Electric Field Induces Orientations of Nanosheets to Prepare Hydrogels with Elaborate Ordered Structures and Programmed Deformations. <i>Advanced Materials</i> , 2020, 32, e2005567.	11.1	89
28	Doubling the Critical Size for Bulk Metallic Glass Formation in the Mg-Cu-Y Ternary System. <i>Journal of Materials Research</i> , 2005, 20, 2252-2255.	1.2	84
29	Self-Shaping Soft Electronics Based on Patterned Hydrogel with Stencil-Printed Liquid Metal. <i>Advanced Functional Materials</i> , 2021, 31, 2105481.	7.8	83
30	Reconstructable Gradient Structures and Reprogrammable 3D Deformations of Hydrogels with Coumarin Units as the Photolabile Crosslinks. <i>Advanced Materials</i> , 2021, 33, e2008057.	11.1	82
31	Hydrogen-Bond Association-Mediated Dynamics and Viscoelastic Properties of Tough Supramolecular Hydrogels. <i>Macromolecules</i> , 2021, 54, 4313-4325.	2.2	77
32	Engineering Tough Metallosupramolecular Hydrogel Films with Kirigami Structures for Compliant Soft Electronics. <i>Small</i> , 2021, 17, e2103836.	5.2	75
33	A Guide for Hydrodynamic Reinforcement Effect in Nanoparticle-filled Polymers. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2016, 41, 318-346.	6.8	71
34	A Facile Approach To Prepare Tough and Responsive Ultrathin Physical Hydrogel Films as Artificial Muscles. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34349-34355.	4.0	70
35	Slide-Ring Cross-Links Mediated Tough Metallosupramolecular Hydrogels with Superior Self-Recoverability. <i>Macromolecules</i> , 2019, 52, 6748-6755.	2.2	68
36	The role of Ni in increasing the reversibility of the hydrogen release from nanoconfined LiBH ₄ . <i>Faraday Discussions</i> , 2011, 151, 47.	1.6	61

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37	Nonlinear rheological behavior of silica filled solution-polymerized styrene butadiene rubber. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 2594-2602.	2.4	55
38	Influence of Dangling Chains on Molecular Dynamics of Polyurethanes. <i>Macromolecules</i> , 2013, 46, 7341-7351.	2.2	55
39	Amorphous Mg-based metal foams with ductile hollow spheres. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	52
40	Dynamic rheological properties for HDPE/CB composite melts. <i>Journal of Applied Polymer Science</i> , 2003, 88, 2160-2167.	1.3	51
41	Toughening with little rigidity loss and mechanism for modified polypropylene by polymer particles with core-shell structure. <i>Polymer</i> , 2015, 65, 81-92.	1.8	50
42	Site Mixing for Engineering Magnetic Topological Insulators. <i>Physical Review X</i> , 2021, 11, .	2.8	50
43	Large magnetic entropy change and enhanced mechanical properties of Ni-Mn-Sn-C alloys. <i>Scripta Materialia</i> , 2014, 75, 26-29.	2.6	49
44	Enhanced magnetic refrigeration properties in Mn-rich Ni-Mn-Sn ribbons by optimal annealing. <i>Scientific Reports</i> , 2015, 5, 11010.	1.6	49
45	Spin-glass behavior and magnetocaloric effect in Tb-based bulk metallic glass. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 413-417.	1.0	48
46	Water-Triggered Self-Healing Coatings of Hydrogen-Bonded Complexes for High Binding Affinity and Antioxidative Property. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600167.	1.9	48
47	L-cysteine-reduced graphene oxide/poly(vinyl alcohol) ultralight aerogel as a broad-spectrum adsorbent for anionic and cationic dyes. <i>Journal of Materials Science</i> , 2017, 52, 5807-5821.	1.7	47
48	Reconsideration of the Rheology of Silica Filled Natural Rubber Compounds. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5867-5875.	1.2	47
49	Enhanced large magnetic entropy change and adiabatic temperature change of Ni ₄₃ Mn ₄₆ Sn ₁₁ alloys by a rapid solidification method. <i>Scripta Materialia</i> , 2015, 104, 41-44.	2.6	46
50	Spontaneous and rapid electro-actuated snapping of constrained polyelectrolyte hydrogels. <i>Science Advances</i> , 2022, 8, eabm9608.	4.7	45
51	Estimation of the agglomeration structure for conductive particles and fiber-filled high-density polyethylene through dynamic rheological measurements. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 1199-1205.	2.4	44
52	Hydrogen bond-reinforced double-network hydrogels with ultrahigh elastic modulus and shape memory property. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 1281-1286.	2.4	42
53	Strategy to construct polyzwitterionic hydrogel coating with antifouling, drag-reducing and weak swelling performance. <i>RSC Advances</i> , 2019, 9, 2081-2091.	1.7	42
54	Effects of ionic liquid on cellulosic nanofiller filled natural rubber bionanocomposites. <i>Journal of Colloid and Interface Science</i> , 2021, 591, 409-417.	5.0	41

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55	A Facile, Multifunctional, Transparent, and Superhydrophobic Coating Based on a Nanoscale Porous Structure Spontaneously Assembled from Branched Silica Nanoparticles. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500201.	1.9	40
56	Healable, Recyclable, and Multifunctional Soft Electronics Based on Biopolymer Hydrogel and Patterned Liquid Metal. <i>Small</i> , 2022, 18, e2201643.	5.2	40
57	Use of WLF-like Function for Describing the Nonlinear Phase Separation Behavior of Binary Polymer Blends. <i>Macromolecules</i> , 2001, 34, 8483-8489.	2.2	39
58	3D-Printed Ultratough Hydrogel Structures with Titin-like Domains. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11363-11367.	4.0	39
59	Characterization of carbon black-filled immiscible polypropylene/polystyrene blends. <i>Polymer International</i> , 2011, 60, 823-832.	1.6	38
60	Understanding the reinforcement and dissipation of natural rubber compounds filled with hybrid filler composed of carbon black and silica. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017, 35, 1436-1446.	2.0	38
61	Influence of Ionic Liquids on Structure and Rheological Behaviors of Silica-Filled Butadiene Rubber. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 18205-18212.	1.8	37
62	Ecomaterials Based on Food Proteins and Polysaccharides. <i>Polymer Reviews</i> , 2014, 54, 514-571.	5.3	36
63	Slight Zinc Doping by an Ultrafast Electrodeposition Process Boosts the Cycling Performance of Layered Double Hydroxides for Ultralong-Life-Span Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38346-38357.	4.0	36
64	Patterned Electrode Assisted One-Step Fabrication of Biomimetic Morphing Hydrogels with Sophisticated Anisotropic Structures. <i>Advanced Science</i> , 2021, 8, e2102353.	5.6	35
65	Relationship between the positive temperature coefficient of resistivity and dynamic rheological behavior for carbon black-filled high-density polyethylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 983-992.	2.4	34
66	Ultra-stretchable hydrogels with hierarchical hydrogen bonds. <i>Scientific Reports</i> , 2020, 10, 11727.	1.6	34
67	The formation mechanism of layered double hydroxide nanoscrolls by facile trinal-phase hydrothermal treatment and their adsorption properties. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23395-23402.	5.2	33
68	New Insight into Time-Temperature Correlation for Polymer Relaxations Ranging from Secondary Relaxation to Terminal Flow: Application of a Universal and Developed WLF Equation. <i>Polymers</i> , 2017, 9, 567.	2.0	33
69	From tanghulu-like to cattail-like SiC nanowire architectures: interfacial design of nanocellulose composites toward high thermal conductivity. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14506-14518.	5.2	33
70	The electric self-heating behavior of graphite-filled high-density polyethylene composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000, 38, 1756-1763.	2.4	32
71	On time-temperature-concentration superposition principle for dynamic rheology of carbon black filled polymers. <i>Journal of Rheology</i> , 2009, 53, 1379-1388.	1.3	32
72	Photodirected Morphing Structures of Nanocomposite Shape Memory Hydrogel with High Stiffness and Toughness. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43631-43640.	4.0	32

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73	Integrated multifunctional flexible electronics based on tough supramolecular hydrogels with patterned silver nanowires. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7688-7697.	2.7	32
74	Large amplitude oscillatory rheology of silica and cellulose nanocrystals filled natural rubber compounds. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 602-610.	5.0	32
75	Mechanical and thermal properties of nanosized titanium dioxide filled rigid poly(vinyl chloride). <i>Chinese Journal of Polymer Science (English Edition)</i> , 2013, 31, 325-332.	2.0	31
76	Direct Evidence for Percolation of Immobilized Polymer Layer around Nanoparticles Accounting for Solâ€“Gel Transition in Fumed Silica Dispersions. <i>Langmuir</i> , 2015, 31, 13478-13487.	1.6	31
77	High-density polyethylene/carbon black conductive composites. I. Effect of CB surface modification on its resistivity-temperature behavior. <i>Journal of Applied Polymer Science</i> , 2002, 83, 3112-3116.	1.3	30
78	Polystyrene/Sn-Pb alloy blends. I. Dynamic rheological behavior. <i>Journal of Applied Polymer Science</i> , 2002, 86, 3166-3172.	1.3	30
79	Electrostatic-Assembly of Carbon Nanotubes (CNTs) and Polymer Particles in Water: a Facile Approach to Improve the Dispersion of CNTs in Thermoplastics. <i>Macromolecular Rapid Communications</i> , 2006, 27, 859-864.	2.0	30
80	Crosslinking of low density polyethylene with octavinyl polyhedral oligomeric silsesquioxane as the crosslinker. <i>RSC Advances</i> , 2014, 4, 44030-44038.	1.7	30
81	Balanced toughening and strengthening of ethyleneâ€“propylene rubber toughened isotactic polypropylene using a poly(styrene-b-ethyleneâ€“propylene) diblock copolymer. <i>RSC Advances</i> , 2015, 5, 20831-20837.	1.7	30
82	Monodomain hydrogels prepared by shear-induced orientation and subsequent gelation. <i>RSC Advances</i> , 2016, 6, 95239-95245.	1.7	30
83	Bioinspired, Recyclable, Stretchable Hydrogel with Boundary Ultralubrication. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42240-42249.	4.0	30
84	A new polymer composite thermistor having double PTC transitions. <i>Journal of Applied Polymer Science</i> , 2000, 78, 424-429.	1.3	29
85	Study of poly(vinyl chloride)/acrylonitrileâ€“styreneâ€“acrylate blends for compatibility, toughness, thermal stability and UV irradiation resistance. <i>Journal of Applied Polymer Science</i> , 2013, 130, 2143-2151.	1.3	28
86	Direct chemical synthesis of well dispersed L1₀-FePt nanoparticles with tunable size and coercivity. <i>Green Chemistry</i> , 2016, 18, 417-422.	4.6	28
87	Toughening mechanism of PP/EPR/SiO2 composites with superior low-temperature toughness. <i>Composites Science and Technology</i> , 2021, 207, 108691.	3.8	28
88	Effect of an organoclay on the reaction-induced phase-separation kinetics and morphology of a poly(ether imide)/epoxy mixture. <i>Journal of Applied Polymer Science</i> , 2007, 104, 1205-1214.	1.3	27
89	Rheological properties of redox-responsive, associative ferrocene-modified branched poly(ethylene) Tj ETQq1 1 0.784314 rgBTj/Overlo	1.2	27
90	Reversible nonlinear conduction behavior for high-density polyethylene/graphite powder composites near the percolation threshold. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001, 39, 2833-2842.	2.4	26

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91	Effect of vibration on crystal morphology and structure of isotactic polypropylene in nonisothermal crystallization. <i>Journal of Applied Polymer Science</i> , 2004, 94, 2187-2195.	1.3	26
92	Boundary Lubrication by Associative Mucin. <i>Langmuir</i> , 2015, 31, 4733-4740.	1.6	26
93	Interface Engineering Based on Polydopamine-Assisted Metallization in Highly Thermal Conductive Cellulose/Nanodiamonds Composite Paper. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17639-17650.	3.2	26
94	Rheological scaling and modeling of shear-enhanced crystallization rate of polypropylene. <i>Rheologica Acta</i> , 2006, 46, 305-316.	1.1	25
95	Study on thermal behavior of impact polypropylene copolymer and its fractions. <i>Journal of Applied Polymer Science</i> , 2011, 119, 1560-1566.	1.3	25
96	Chain entanglement and molecular dynamics of solution-cast PMMA/SMA blend films affected by hydrogen bonding between casting solvents and polymer chains. <i>RSC Advances</i> , 2015, 5, 44800-44811.	1.7	25
97	Photolithographically Patterned Hydrogels with Programmed Deformations. <i>Chemistry - an Asian Journal</i> , 2019, 14, 94-104.	1.7	25
98	Plastic-Like Supramolecular Hydrogels with Polyelectrolyte/Surfactant Complexes as Physical Cross-links. <i>Macromolecules</i> , 2021, 54, 8052-8066.	2.2	25
99	Influence of incorporating CaCO ₃ into room temperature vulcanized silicone sealant on its mechanical and dynamic rheological properties. <i>Journal of Applied Polymer Science</i> , 2007, 103, 2027-2035.	1.3	24
100	Dual-responsive supramolecular inclusion complexes of block copolymer poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (Science Part A, 2010, 48, 2143-2153.	2.5	24
101	Magnetic entropy change in Gd ₉₅ Fe _{2.8} Al _{2.2} amorphous/nanocrystalline ribbons. <i>Scripta Materialia</i> , 2017, 130, 170-173.	2.6	24
102	Influence of annealing on conduction of high-density polyethylene/carbon black composite. <i>Journal of Applied Polymer Science</i> , 2007, 105, 710-717.	1.3	23
103	A general strategy for the synthesis of layered double hydroxide nanoscrolls on arbitrary substrates: its formation and multifunction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19079-19090.	5.2	23
104	Influence of annealing on rheological and conductive behaviors of high-density polyethylene/carbon black composites. <i>Journal of Materials Science</i> , 2009, 44, 4241-4245.	1.7	22
105	3D printing of a tough double-network hydrogel and its use as a scaffold to construct a tissue-like hydrogel composite. <i>Journal of Materials Chemistry B</i> , 2022, 10, 468-476.	2.9	22
106	Digital light processing 3D printing of hydrogels: a minireview. <i>Molecular Systems Design and Engineering</i> , 2022, 7, 1017-1029.	1.7	22
107	Rheology of nitrile rubber with hybrid crosslinked network composed of covalent bonding and hydrogen bonding. <i>RSC Advances</i> , 2017, 7, 15978-15985.	1.7	21
108	Rheological and Mechanical Properties of Silica/Nitrile Butadiene Rubber Vulcanizates with Eco-Friendly Ionic Liquid. <i>Polymers</i> , 2020, 12, 2763.	2.0	21

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109	Influences of chemical crosslinking, physical associating, and filler filling on nonlinear rheological responses of polyisoprene. <i>Journal of Rheology</i> , 2020, 64, 775-784.	1.3	21
110	A novel low-melting-point alloy-loaded polymer composite. I. Effect of processing temperature on the electrical properties and morphology. <i>Journal of Applied Polymer Science</i> , 2000, 77, 1044-1050.	1.3	20
111	Electric self-heating behavior of acetylene carbon black filled high-density polyethylene composites. <i>Polymer International</i> , 2004, 53, 1517-1522.	1.6	20
112	Conductive behavior of composites composed of carbon black-filled ethylene-tetrafluoroethylene copolymer. <i>Journal of Materials Science</i> , 2007, 42, 2903-2906.	1.7	20
113	Influence of crosslinking on physical properties of low density polyethylene. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2012, 30, 837-844.	2.0	20
114	Star Shaped Long Chain Branched Poly (lactic acid) Prepared by Melt Transesterification with Trimethylolpropane Triacrylate and Nano-ZnO. <i>Polymers</i> , 2018, 10, 796.	2.0	20
115	Facile regulation of glutaraldehyde-modified graphene oxide for preparing free-standing papers and nanocomposite films. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2013, 31, 399-406.	2.0	19
116	Segmental dynamics and physical aging of polystyrene/silver nanocomposites. <i>RSC Advances</i> , 2014, 4, 20086-20093.	1.7	19
117	Light Responsive Microstructured Surfaces of Liquid Crystalline Network with Shape Memory and Tunable Wetting Behaviors. <i>Macromolecular Rapid Communications</i> , 2016, 37, 311-317.	2.0	19
118	Control of ZnO nanowire growth and optical properties in a vapor deposition process. <i>Journal of Materials Science and Technology</i> , 2017, 33, 850-855.	5.6	19
119	Stretchable Sponge-like Hydrogels with a Unique Colloidal Network Produced by Polymerization-Induced Microphase Separation. <i>Macromolecules</i> , 2022, 55, 1424-1434.	2.2	19
120	Piezoresistive Properties of HDPE/Graphite Composites. <i>Journal of Materials Science Letters</i> , 1999, 18, 35-37.	0.5	18
121	Effect of Solvent-Assisted Nanoscaled Organo-Gels on Morphology and Performance of Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16893-16900.	1.5	18
122	Influence of binary combined systems of antioxidants on the stabilization of peroxide-cured low-density polyethylene. <i>Journal of Applied Polymer Science</i> , 2012, 126, 1885-1894.	1.3	18
123	Shear induced self-thickening in chitosan-grafted polyacrylamide aqueous solution. <i>Soft Matter</i> , 2013, 9, 1835-1843.	1.2	18
124	Thickening of the Immobilized Polymer Layer Using Trace Amount of Amine and Its Role in Promoting Gelation of Colloidal Nanocomposites. <i>Macromolecules</i> , 2015, 48, 9015-9023.	2.2	18
125	Tough polyion complex hydrogel films of natural polysaccharides. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017, 35, 1276-1285.	2.0	18
126	Insights into the Payne Effect of Carbon Black Filled Styrene-butadiene Rubber Compounds. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021, 39, 81-90.	2.0	18

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127	Synthesis, characterization, and single-crystal growth of a high-entropy rare-earth pyrochlore oxide. <i>Physical Review Materials</i> , 2020, 4, .	0.9	18
128	Studies on the morphology and the thermal properties of high-density polyethylene filled with graphite. <i>Journal of Materials Science</i> , 2006, 41, 3175-3178.	1.7	17
129	Influences of compatibilizers on rheology and mechanical properties of propylene random copolymer/styrene-ethylene-butylene-styrene block copolymer/organic-montmorillonite nanocomposites. <i>Journal of Applied Polymer Science</i> , 2013, 129, 973-982.	1.3	17
130	Influence of crosslinking on crystallization, rheological, and mechanical behaviors of high density polyethylene/ethylene-vinyl acetate copolymer blends. <i>Polymer Engineering and Science</i> , 2014, 54, 2848-2858.	1.5	17
131	Magnetocaloric effect in high Gd content Gd-Fe-Al based amorphous/nanocrystalline systems with enhanced Curie temperature and refrigeration capacity. <i>AIP Advances</i> , 2016, 6, 035220.	0.6	17
132	Fabrication of polypropylene blends with excellent low-temperature toughness and balanced toughness-rigidity by a combination of EPR and SEEPS. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45714.	1.3	17
133	Nonsphere Drop Impact Assembly of Graphene Oxide Liquid Crystals. <i>ACS Nano</i> , 2019, 13, 8382-8391.	7.3	17
134	A facile fabrication of polypropylene composites with excellent low-temperature toughness through tuning interfacial area between matrix and rubber dispersion by silica nanoparticles located at the interface. <i>Composites Science and Technology</i> , 2019, 184, 107846.	3.8	17
135	A novel direct reduction method to synthesize ordered Fe-Pt alloy nanoparticles. <i>Journal of Materials Science and Technology</i> , 2019, 35, 560-567.	5.6	17
136	Photoregulated Gradient Structure and Programmable Mechanical Performances of Tough Hydrogels with a Hydrogen-Bond Network. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53376-53384.	4.0	17
137	Solvent-Assisted Printing of Biomimetic Morphing Hydrogel Structures with Solvent Evaporation-Induced Swelling Mismatch. <i>Advanced Functional Materials</i> , 2022, 32, 2108548.	7.8	17
138	Isothermal crystallization behavior of polypropylene catalloys. <i>Journal of Applied Polymer Science</i> , 2004, 93, 877-882.	1.3	16
139	The dynamic rheological behavior and morphology of nylon/elastomer blends. <i>Journal of Materials Science</i> , 2005, 40, 5545-5547.	1.7	16
140	Study on nonlinear phase-separation for PMMA/MSAN blends by dynamic rheological and small angle light scattering measurements. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 1547-1555.	2.4	16
141	Annealing-induced rheological and electric resistance variations in carbon black-filled polymer melts. <i>Colloid and Polymer Science</i> , 2012, 290, 1837-1842.	1.0	16
142	Salt response and rheological behavior of acrylamide-sulfobetaine copolymer. <i>Colloid and Polymer Science</i> , 2016, 294, 389-397.	1.0	16
143	Studies on the steady and dynamic rheological properties of poly(dimethylsiloxane) filled with calcium carbonate based on superposition of its relative functions. <i>Journal of Applied Polymer Science</i> , 2008, 107, 1590-1597.	1.3	15
144	Toughening of ethylene-propylene random copolymer/clay nanocomposites: Comparison of different compatibilizers. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2012, 30, 853-864.	2.0	15

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145	Effect of chemically reduced graphene oxide on the isothermal and non-isothermal phase separation behavior of poly(methyl methacrylate)/poly(styrene-co-acrylonitrile) binary polymer blends. RSC Advances, 2015, 5, 82259-82270.	1.7	15
146	Self-healing and conductivity of chitosan-based hydrogels formed by the migration of ferric ions. Journal of Applied Polymer Science, 2019, 136, 47885.	1.3	15
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