Wei Yang

List of Publications by Year
in descending order

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258	9,209	50273	58576
papers	citations	46 h-index	82 g-index

260	260	260	8941
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Review on auxetic materials. Journal of Materials Science, 2004, 39, 3269-3279.	3.7	448
2	Smart Ti₃C₂T_x MXene Fabric with Fast Humidity Response and Joule Heating for Healthcare and Medical Therapy Applications. ACS Nano, 2020, 14, 8793-8805.	14.6	288
3	Stereocomplex Crystallite Network in Asymmetric PLLA/PDLA Blends: Formation, Structure, and Confining Effect on the Crystallization Rate of Homocrystallites. Macromolecules, 2014, 47, 1439-1448.	4.8	267
4	An ice-templated assembly strategy to construct graphene oxide/boron nitride hybrid porous scaffolds in phase change materials with enhanced thermal conductivity and shape stability for lightâ€“thermalâ€“electric energy conversion. Journal of Materials Chemistry A, 2016, 4, 18841-18851.	10.3	216
5	Flexible Anti-Biofouling MXene/Cellulose Fibrous Membrane for Sustainable Solar-Driven Water Purification. ACS Applied Materials & Interfaces, 2019, 11, 36589-36597.	8.0	216
6	Macroporous three-dimensional MXene architectures for highly efficient solar steam generation. Journal of Materials Chemistry A, 2019, 7, 10446-10455.	10.3	208
7	Hierarchical graphene foam-based phase change materials with enhanced thermal conductivity and shape stability for efficient solar-to-thermal energy conversion and storage. Nano Research, 2017, 10, 802-813.	10.4	206
8	Self-assembled high-strength hydroxyapatite/graphene oxide/chitosan composite hydrogel for bone tissue engineering. Carbohydrate Polymers, 2017, 155, 507-515.	10.2	205
9	High-performance composite phase change materials for energy conversion based on macroscopically three-dimensional structural materials. Materials Horizons, 2019, 6, 250-273.	12.2	187
10	Multilayer structured AgNW/WPU-MXene fiber strain sensors with ultrahigh sensitivity and a wide operating range for wearable monitoring and healthcare. Journal of Materials Chemistry A, 2019, 7, 15913-15923.	10.3	184
11	Hierarchically Porous Hydroxyapatite Hybrid Scaffold Incorporated with Reduced Graphene Oxide for Rapid Bone Ingrowth and Repair. ACS Nano, 2019, 13, 9595-9606.	14.6	177
12	Self-assembled core-shell polydopamine@MXene with synergistic solar absorption capability for highly efficient solar-to-vapor generation. Nano Research, 2020, 13, 255-264.	10.4	174
13	Novel photodriven composite phase change materials with bioinspired modification of BN for solar-thermal energy conversion and storage. Journal of Materials Chemistry A, 2016, 4, 9625-9634.	10.3	163
14	All-weather-available, continuous steam generation based on the synergistic photo-thermal and electro-thermal conversion by MXene-based aerogels. Materials Horizons, 2020, 7, 855-865.	12.2	153
15	Recent progress in electrode fabrication for electrocatalytic hydrogen evolution reaction: A mini review. Chemical Engineering Journal, 2020, 393, 124726.	12.7	150
16	Transcrystalline Morphology of an in situ Microfibrillar Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td (terephthalate)/Poly(Process. Macromolecular Rapid Communications, 2004, 25, 553-558.	3.9	121
17	A bridge-arched and layer-structured hollow melamine foam/reduced graphene oxide composite with an enlarged evaporation area and superior thermal insulation for high-performance solar steam generation. Journal of Materials Chemistry A, 2020, 8, 2701-2711.	10.3	103
18	Temperature induced gelation transition of a fumed silica/PEG shear thickening fluid. RSC Advances, 2015, 5, 18367-18374.	3.6	94

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19	Graphene oxide-supported zinc cobalt oxides as effective cathode catalysts for microbial fuel cell: High catalytic activity and inhibition of biofilm formation. Nano Energy, 2019, 57, 811-819.	16.0	94
20	Bamboo charcoal as a cost-effective catalyst for an air-cathode of microbial fuel cells. Electrochimica Acta, 2017, 224, 585-592.	5.2	92
21	High efficiency electrochemical reduction of CO₂ beyond the two-electron transfer pathway on grain boundary rich ultra-small SnO₂ nanoparticles. Journal of Materials Chemistry A, 2018, 6, 10313-10319.	10.3	92
22	A new approach to construct segregated structures in thermoplastic polyolefin elastomers towards improved conductive and mechanical properties. Journal of Materials Chemistry A, 2015, 3, 5482-5490.	10.3	91
23	Cryo-mediated exfoliation and fracturing of layered materials into 2D quantum dots. Science Advances, 2017, 3, e1701500.	10.3	91
24	Reversible Formation of gâ€C₃N₄ 3D Hydrogels through Ionic Liquid Activation: Gelation Behavior and Roomâ€Temperature Gasâ€Sensing Properties. Advanced Functional Materials, 2017, 27, 1700653.	14.9	90
25	Photodriven Shape-Stabilized Phase Change Materials with Optimized Thermal Conductivity by Tailoring the Microstructure of Hierarchically Ordered Hybrid Porous Scaffolds. ACS Sustainable Chemistry and Engineering, 2018, 6, 6761-6770.	6.7	88
26	2D TiS₂ Layers: A Superior Nonlinear Optical Limiting Material. Advanced Optical Materials, 2017, 5, 1700713.	7.3	84
27	Electrically insulating POE/BN elastomeric composites with high through-plane thermal conductivity fabricated by two-roll milling and hot compression. Advanced Composites and Hybrid Materials, 2018, 1, 160-167.	21.1	81
28	Effect of temperature, crystallinity and molecular chain orientation on the thermal conductivity of polymers: a case study of PLLA. Journal of Materials Science, 2018, 53, 10543-10553.	3.7	79
29	Human Skin-Inspired Electronic Sensor Skin with Electromagnetic Interference Shielding for the Sensation and Protection of Wearable Electronics. ACS Applied Materials & Interfaces, 2018, 10, 40880-40889.	8.0	78
30	Recent Advances in Multiresponsive Flexible Sensors towards Eâ€skin: A Delicate Design for Versatile Sensing. Small, 2022, 18, e2103734.	10.0	76
31	Morphology and nonisothermal crystallization ofin situ microfibrillar poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 Td of Polymer Science, Part B: Polymer Physics, 2004, 42, 374-385.	2.1	70
32	Towards balanced strength and toughness improvement of isotactic polypropylene nanocomposites by surface functionalized graphene oxide. Journal of Materials Chemistry A, 2014, 2, 3190-3199.	10.3	70
33	Enhancing Thermomechanical Properties and Heat Distortion Resistance of Poly(<scp>l</scp>-lactide) with High Crystallinity under High Cooling Rate. ACS Sustainable Chemistry and Engineering, 2015, 3, 654-661.	6.7	67
34	Metalâ€“Organicâ€Frameworkâ€Derived Nanostructures as Multifaceted Electrodes in Metalâ€–Sulfur Batteries. Advanced Materials, 2021, 33, e2008784.	21.0	67
35	Tannic acid functionalized graphene hydrogel for organic dye adsorption. Ecotoxicology and Environmental Safety, 2018, 165, 299-306.	6.0	66
36	Electro and Light-Active Actuators Based on Reversible Shape-Memory Polymer Composites with Segregated Conductive Networks. ACS Applied Materials & Interfaces, 2019, 11, 30332-30340.	8.0	66

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37	Nanofibrillar Poly(vinyl alcohol) Ionic Organohydrogels for Smart Contact Lens and Human-Interactive Sensing. ACS Applied Materials & Interfaces, 2020, 12, 23514-23522.	8.0	59
38	A Facile Route to Fabricate Highly Anisotropic Thermally Conductive Elastomeric POE/NG Composites for Thermal Management. Advanced Materials Interfaces, 2018, 5, 1700946.	3.7	56
39	Polysulfide Catalytic Materials for Fastâ€Kinetic Metalâ€“Sulfur Batteries: Principles and Active Centers. Advanced Science, 2022, 9, e2102217.	11.2	56
40	The enhanced nucleating ability of carbon nanotube-supported Î²-nucleating agent in isotactic polypropylene. Colloid and Polymer Science, 2010, 288, 681-688.	2.1	54
41	Redoxâ€Mediated Artificial Nonâ€Enzymatic Antioxidant MXene Nanoplatforms for Acute Kidney Injury Alleviation. Advanced Science, 2021, 8, e2101498.	11.2	54
42	Deformation-induced morphology evolution during uniaxial stretching of isotactic polypropylene: effect of temperature. Colloid and Polymer Science, 2012, 290, 261-274.	2.1	50
43	Biomass-Derived Carbon for Electrode Fabrication in Microbial Fuel Cells: A Review. Industrial & Engineering Chemistry Research, 2020, 59, 6391-6404.	3.7	50
44	Tuning the structure of graphene oxide and the properties of poly(vinyl alcohol)/graphene oxide nanocomposites by ultrasonication. Journal of Materials Chemistry A, 2013, 1, 3163.	10.3	49
45	Hierarchically Porous PVA Aerogel for Leakage-Proof Phase Change Materials with Superior Energy Storage Capacity. Energy & Fuels, 2020, 34, 2471-2479.	5.1	49
46	A hybrid microbial fuel cell stack based on single and double chamber microbial fuel cells for self-sustaining pH control. Journal of Power Sources, 2016, 306, 685-691.	7.8	48
47	Surface structure engineering for a bionic fiber-based sensor toward linear, tunable, and multifunctional sensing. Materials Horizons, 2020, 7, 2450-2459.	12.2	47
48	High-performance porous polylactide stereocomplex crystallite scaffolds prepared by solution blending and salt leaching. Materials Science and Engineering C, 2018, 90, 602-609.	7.3	46
49	Interfacial Radiation-Absorbing Hydrogel Film for Efficient Thermal Utilization on Solar Evaporator Surfaces. Nano Letters, 2021, 21, 10516-10524.	9.1	46
50	Morphology-tensile behavior relationship in injection molded poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (terephthalate Journal of Materials Science, 2004, 39, 413-431.	3.7	45
51	A green, cheap, high-performance carbonaceous catalyst derived from Chlorella pyrenoidosa for oxygen reduction reaction in microbial fuel cells. International Journal of Hydrogen Energy, 2017, 42, 27657-27665.	7.1	45
52	Dopamine-induced functionalization of cellulose nanocrystals with polyethylene glycol towards poly(L-lactic acid) bionanocomposites for green packaging. Carbohydrate Polymers, 2019, 203, 275-284.	10.2	45
53	Morphology and Tensile Strength Prediction of in situ Microfibrillar Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 107 Td Macromolecular Materials and Engineering, 2004, 289, 349-354.	3.6	44
54	Electrical properties and morphology of carbon black filled PP/EPDM blends: effect of selective distribution of fillers induced by dynamic vulcanization. Journal of Materials Science, 2013, 48, 4942-4951.	3.7	42

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55	A high-performance temperature sensitive TPV/CB elastomeric composite with balanced electrical and mechanical properties via PF-induced dynamic vulcanization. Journal of Materials Chemistry A, 2014, 2, 16989-16996.	10.3	42
56	Exploring Nextâ€Generation Functional Organic Phase Change Composites. Advanced Functional Materials, 2022, 32, .	14.9	42
57	Decoupling the Polymer Dynamics and the Nanoparticle Network Dynamics of Polymer Nanocomposites through Dielectric Spectroscopy and Rheology. Macromolecules, 2020, 53, 302-311.	4.8	41
58	Crystallization behavior of poly (vinylidene fluoride)/multi-walled carbon nanotubes nanocomposites. Journal of Materials Science, 2011, 46, 1542-1550.	3.7	40
59	Greatly accelerated crystallization of poly(lactic acid): cooperative effect of stereocomplex crystallites and polyethylene glycol. Colloid and Polymer Science, 2014, 292, 163-172.	2.1	40
60	Flexible and Tough Cellulose Nanocrystal/Polycaprolactone Hybrid Aerogel Based on the Strategy of Macromolecule Cross-Linking via Click Chemistry. ACS Sustainable Chemistry and Engineering, 2019, 7, 15617-15627.	6.7	40
61	A unimorph nanocomposite dielectric elastomer for large out-of-plane actuation. Science Advances, 2022, 8, eabm6200.	10.3	40
62	Thermal properties and flame retardancy of polycarbonate/hydroxyapatite nanocomposite. Journal of Applied Polymer Science, 2008, 109, 659-663.	2.6	39
63	High-melting-point crystals of poly(<scp>l</scp>-lactic acid) (PLLA): the most efficient nucleating agent to enhance the crystallization of PLLA. CrystEngComm, 2015, 17, 2310-2320.	2.6	39
64	Grafting polymerization of polylactic acid on the surface of nanoâ€SiO₂ and properties of PLA/PLAâ€graftedâ€SiO₂ nanocomposites. Journal of Applied Polymer Science, 2013, 129, 3019-3027.	2.6	38
65	An extremely uniform dispersion of MWCNTs in olefin block copolymers significantly enhances electrical and mechanical performances. Polymer Chemistry, 2015, 6, 7160-7170.	3.9	38
66	Air Cathode Catalysts of Microbial Fuel Cell by Nitrogen-Doped Carbon Aerogels. ACS Sustainable Chemistry and Engineering, 2019, 7, 3917-3924.	6.7	38
67	The effects of dioctyl phthalate plasticization on the morphology and thermal, mechanical, and rheological properties of chemical crosslinked polylactide. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 1136-1145.	2.1	37
68	Melt viscoelasticity, electrical conductivity, and crystallization of PVDF/MWCNT composites: Effect of the dispersion of MWCNTs. Journal of Applied Polymer Science, 2012, 125, E49.	2.6	37
69	Templateâ€Free Selfâ€Caging Nanochemistry for Largeâ€Scale Synthesis of Sulfonatedâ€Graphene@Sulfur Nanocage for Longâ€Life Lithiumâ€Sulfur Batteries. Advanced Functional Materials, 2021, 31, 2008652.	14.9	37
70	Effect of temperature and time on the exfoliation and de-oxygenation of graphite oxide by thermal reduction. Journal of Materials Science, 2012, 47, 5097-5105.	3.7	36
71	Tailoring Crystalline Morphology by High-Efficiency Nucleating Fiber: Toward High-Performance Poly(<scp>l</scp>-lactide) Biocomposites. ACS Applied Materials & Interfaces, 2018, 10, 20044-20054.	8.0	36
72	Scalable Flexible Phase Change Materials with a Swollen Polymer Network Structure for Thermal Energy Storage. ACS Applied Materials & Interfaces, 2021, 13, 59364-59372.	8.0	36

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73	Essential Work of Fracture Parameters of in-situ Microfibrillar Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td (te Engineering, 2004, 289, 426-433.	3.6	35
74	Effect of Melt and Mold Temperatures on the Solidification Behavior of HDPE during Gasâ€Assisted Injection Molding: An Enthalpy Transformation Approach. Macromolecular Materials and Engineering, 2009, 294, 336-344.	3.6	35
75	Preparation of cellulose-graft-polylactic acid via melt copolycondensation for use in polylactic acid based composites: synthesis, characterization and properties. RSC Advances, 2016, 6, 1973-1983.	3.6	35
76	Rheological behavior comparison between PET/HDPE and PC/HDPE microfibrillar blends. Polymer Engineering and Science, 2005, 45, 1231-1238.	3.1	34
77	A rheological study on temperature dependent microstructural changes of fumed silica gels in dodecane. Soft Matter, 2012, 8, 10457.	2.7	34
78	Control of morphology and properties by the selective distribution of nano-silica particles with different surface characteristics in PA6/ABS blends. Journal of Materials Science, 2012, 47, 4620-4631.	3.7	34
79	Simulation of phaseâ€change heat transfer during cooling stage of gasâ€assisted injection molding of highâ€density polyethylene via enthalpy transformation approach. Polymer Engineering and Science, 2009, 49, 1234-1242.	3.1	33
80	Enhanced Thermal Conductivity and Balanced Mechanical Performance of PP/BN Composites with 1 vol% Finely Dispersed MWCNTs Assisted by OBC. Advanced Materials Interfaces, 2019, 6, 1900081.	3.7	33
81	A simple method for preparing a binder-free paper-based air cathode for microbial fuel cells. Bioresource Technology, 2017, 241, 325-331.	9.6	32
82	Scalable fabrication of flexible piezoresistive pressure sensors based on occluded microstructures for subtle pressure and force waveform detection. Journal of Materials Chemistry C, 2020, 8, 16774-16783.	5.5	32
83	A Waveâ€Driven Piezoelectric Solar Evaporator for Water Purification. Advanced Energy Materials, 2022, 12, .	19.5	32
84	Morphology Dependent Double Yielding in Injection Molded Polycarbonate/Polyethylene Blend. Macromolecular Materials and Engineering, 2004, 289, 1004-1011.	3.6	31
85	Polymorphism of a high-molecular-weight racemic poly(<scp>l</scp>-lactide)/poly(<scp>d</scp>-lactide) blend: effect of melt blending with poly(methyl) Tj ETQq1 1 0.784314 rgBT /Ov	3.6	31
86	Suppressing phase coarsening in immiscible polymer blends using nano-silica particles located at the interface. RSC Advances, 2015, 5, 74295-74303.	3.6	30
87	Atomic Layered Titanium Sulfide Quantum Dots as Electrocatalysts for Enhanced Hydrogen Evolution Reaction. Advanced Materials Interfaces, 2018, 5, 1700895.	3.7	30
88	Morphology of gas-assisted and conventional injection molded polycarbonate/polyethylene blend. Journal of Applied Polymer Science, 2006, 102, 3069-3077.	2.6	29
89	Numerical prediction of phaseâ€change heat conduction of injectionâ€molded high density polyethylene thickâ€walled parts via the enthalpy transforming model with mushy zone. Polymer Engineering and Science, 2008, 48, 1707-1717.	3.1	29
90	Induced formation of polar phases in poly(vinylidene fluoride) by cetyl trimethyl ammonium bromide. Journal of Materials Science, 2014, 49, 4171-4179.	3.7	29

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91	Cobalt oxides nanoparticles supported on nitrogen-doped carbon nanotubes as high-efficiency cathode catalysts for microbial fuel cells. Inorganic Chemistry Communication, 2019, 105, 69-75.	3.9	29
92	Regulating Polysulfide Diffusion and Deposition via Rational Design of Coreâ€“Shell Active Materials in Liâ€“S Batteries. ACS Nano, 2022, 16, 7982-7992.	14.6	29
93	The role of gas penetration on morphological formation of polycarbonate/polyethylene blend molded by gas-assisted injection molding. Journal of Materials Science, 2007, 42, 7275-7285.	3.7	28
94	The effect of the grafted chains on the crystallization of PLLA/PLLA-grafted SiO2 nanocomposites. Colloid and Polymer Science, 2016, 294, 801-813.	2.1	28
95	Compatibilization of the poly(lactic acid)/poly(propylene carbonate) blends through in situ formation of poly(lactic acid)â€bâ€poly(propylene carbonate) copolymer. Journal of Applied Polymer Science, 2018, 135, 46009.	2.6	28
96	Minimizing mass transfer losses in microbial fuel cells: Theories, progresses and prospectives. Renewable and Sustainable Energy Reviews, 2021, 136, 110460.	16.4	28
97	Gasâ€assisted injection molded polypropylene: The skinâ€core structure. Polymer Engineering and Science, 2008, 48, 976-986.	3.1	27
98	Dynamic Rheological Behavior of HDPE/UHMWPE Blends. Journal of Macromolecular Science - Physics, 2011, 50, 1249-1259.	1.0	26
99	Formation and evolution of the carbon black network in polyethylene/carbon black composites: Rheology and conductivity properties. Journal of Applied Polymer Science, 2014, 131, .	2.6	26
100	Progress in polyketone materials: blends and composites. Polymer International, 2018, 67, 1478-1487.	3.1	26
101	An experimental investigation on the performance of TEGs with a compact heat exchanger design towards low-grade thermal energy recovery. Applied Thermal Engineering, 2021, 194, 117119.	6.0	26
102	Mechanochemical preparation of thermoplastic cellulose oleate by ball milling. Green Chemistry, 2021, 23, 2069-2078.	9.0	26
103	Crystallization and morphology of iPP/MWCNT prepared by compounding iPP melt with MWCNT aqueous suspension. Colloid and Polymer Science, 2009, 287, 615-620.	2.1	25
104	Morphology and mechanical property of high-density polyethylene parts prepared by gas-assisted injection molding. Colloid and Polymer Science, 2011, 289, 1661-1671.	2.1	25
105	Role of poly(lactic acid) in the phase transition of poly(vinylidene fluoride) under uniaxial stretching. Journal of Applied Polymer Science, 2013, 129, 1686-1696.	2.6	24
106	Effective dissolution of UHMWPE in HDPE improved by high temperature melting and subsequent shear. Polymer Engineering and Science, 2015, 55, 270-276.	3.1	24
107	Supercooling-dependent morphology evolution of an organic nucleating agent in poly(<scp>l</scp>-lactide)/poly(<scp>d</scp>-lactide) blends. CrystEngComm, 2017, 19, 1648-1657.	2.6	24
108	Green supercapacitor assisted photocatalytic fuel cell system for sustainable hydrogen production. Chemical Engineering Journal, 2021, 403, 126368.	12.7	24

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109	Effect of cross-linking degree of EPDM phase on the electrical properties and formation of dual networks of thermoplastic vulcanizate composites based on isotactic polypropylene (iPP)/ethyleneâ€“propyleneâ€“diene rubber (EPDM) blends. RSC Advances, 2016, 6, 74567-74574.	3.6	23
110	Formation of various crystalline structures in a polypropylene/polycarbonate in situ microfibrillar blend during the melt second flow. Physical Chemistry Chemical Physics, 2016, 18, 14030-14039.	2.8	22
111	A monolithic air cathode derived from bamboo for microbial fuel cells. RSC Advances, 2017, 7, 28469-28475.	3.6	22
112	Templating synthesis of hierarchically meso/macroporous N-doped microalgae derived biocarbon as oxygen reduction reaction catalyst for microbial fuel cells. International Journal of Hydrogen Energy, 2021, 46, 2530-2542.	7.1	22
113	Essential work of fracture evaluation of fracture behavior of glass bead filled linear low-density polyethylene. Journal of Applied Polymer Science, 2006, 99, 1781-1787.	2.6	21
114	Extraction of native collagen from limed bovine split wastes through improved pretreatment methods. Journal of Chemical Technology and Biotechnology, 2008, 83, 1041-1048.	3.2	21
115	Balanced strength and ductility improvement of in situ crosslinked polylactide/poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.6	21
116	Distinct positive temperature coefficient effect of polymerâ€“carbon fiber composites evaluated in terms of polymer absorption on fiber surface. Physical Chemistry Chemical Physics, 2016, 18, 8081-8087.	2.8	21
117	Poison tolerance of non-precious catalyst towards oxygen reduction reaction. International Journal of Hydrogen Energy, 2018, 43, 8474-8479.	7.1	21
118	Chemically bonding BaTiO₃ nanoparticles in highly filled polymer nanocomposites for greatly enhanced dielectric properties. Journal of Materials Chemistry C, 2020, 8, 8786-8795.	5.5	21
119	Covalent organic polymers derived carbon incorporated with cobalt oxides as a robust oxygen reduction reaction catalyst for fuel cells. Chemical Engineering Journal, 2020, 390, 124581.	12.7	21
120	Synergistic effect of stereocomplex crystals and shear flow on the crystallization rate of poly(l-lactic acid): A rheological study. RSC Advances, 2014, 4, 2733-2742.	3.6	20
121	Suppressing phase retraction and coalescence of co-continuous polymer blends: effect of nanoparticles and particle network. RSC Advances, 2014, 4, 49429-49441.	3.6	20
122	Effect of graphene oxides on thermal degradation and crystallization behavior of poly(<scp>l</scp>-lactide). RSC Advances, 2014, 4, 3443-3456.	3.6	20
123	Effect of graphite oxide structure on the formation of stable self-assembled conductive reduced graphite oxide hydrogel. Journal of Materials Chemistry C, 2014, 2, 3846.	5.5	20
124	Direct modification of polyketone resin for anion exchange membrane of alkaline fuel cells. Journal of Colloid and Interface Science, 2019, 556, 420-431.	9.4	20
125	Potential fieldâ€“based hierarchical adaptive cruise control for semi-autonomous electric vehicle. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 2479-2491.	1.9	20
126	Investigation on Tensile Deformation Behavior of Semi-Crystalline Polymers. Journal of Macromolecular Science - Physics, 2009, 48, 799-811.	1.0	19

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127	The preparation, structures, and properties of poly(vinylidene fluoride)/multiwall carbon nanotubes nanocomposites. Journal of Applied Polymer Science, 2012, 125, E592.	2.6	19
128	Crystallization and fracture behaviors of highâ€density polyethylene/linear lowâ€density polyethylene blends: The influence of shortâ€chain branching. Journal of Applied Polymer Science, 2013, 129, 2103-2111.	2.6	19
129	Enantiomeric poly(<scp>d</scp>-lactide) with a higher melting point served as a significant nucleating agent for poly(<scp>l</scp>-lactide). CrystEngComm, 2015, 17, 4334-4342.	2.6	19
130	Effect of chain entanglement on the melt-crystallization behavior of poly(l-lactide) acid. Journal of Polymer Research, 2016, 23, 1.	2.4	19
131	Effect of aspect ratio of multi-wall carbon nanotubes on the dispersion in ethylene-Î±-octene block copolymer and the properties of the Nanocomposites. Journal of Polymer Research, 2019, 26, 1.	2.4	19
132	Leakage-Proof and Malleable Polyethylene Wax Vitrimer Phase Change Materials for Thermal Interface Management. ACS Applied Energy Materials, 2021, 4, 11173-11182.	5.1	19
133	Self-Sensing Actuators Based on a Stiffness Variable Reversible Shape Memory Polymer Enabled by a Phase Change Material. ACS Applied Materials & Interfaces, 2022, 14, 22521-22530.	8.0	19
134	Mechanical Properties and Morphology of LDPE/PP Blends. Journal of Macromolecular Science - Physics, 2007, 46, 963-974.	1.0	18
135	Rheological behaviors and molecular weight distribution characteristics of bimodal highâ€density polyethylene. Journal of Applied Polymer Science, 2011, 121, 1543-1549.	2.6	18
136	Thermal and rheological properties of polyethylene blends with bimodal molecular weight distribution. Journal of Applied Polymer Science, 2013, 129, 2145-2151.	2.6	18
137	Electrospun Modified Polyketone-Based Anion Exchange Membranes with High Ionic Conductivity and Robust Mechanical Properties. ACS Applied Energy Materials, 2021, 4, 5187-5200.	5.1	18
138	Effect of Dispersion Condition of Calcium Carbonate on the Crystallization and Melting Behavior of Polypropylene/CaCO₃Nanocomposites. Polymer-Plastics Technology and Engineering, 2008, 47, 490-495.	1.9	17
139	Interfacial interaction of polyvinylidene fluoride/multiwalled carbon nanotubes nanocomposites: A rheological study. Journal of Applied Polymer Science, 2011, 121, 3041-3046.	2.6	17
140	MWCNTs Supported N,Nâ€²-Dicyclohexyl-1,5-diamino-2,6-naphthalenedicarboxamide: A Novel Î²-Nucleating Agent for Polypropylene. Journal of Macromolecular Science - Physics, 2012, 51, 2412-2427.	1.0	17
141	Nanoscale Morphology, Interfacial Hydrogen Bonding, Confined Crystallization and Greatly Improved Toughness of Polyamide 12/Polyketone Blends. Nanomaterials, 2018, 8, 932.	4.1	17
142	Vitrimers of polyolefin elastomer with physically cross-linked network. Journal of Polymer Research, 2021, 28, 1.	2.4	17
143	Effect of annealing on fracture behavior of poly(propylene-block-ethylene) using essential work of fracture analysis. Journal of Applied Polymer Science, 2007, 103, 3438-3446.	2.6	16
144	Effect of repetitive processing on the mechanical properties and fracture toughness of dynamically vulcanized iPP/EPDM blends. Journal of Applied Polymer Science, 2011, 120, 86-94.	2.6	16

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145	Structure of fumed silica gels in dodecane: enhanced network by oscillatory shear. Colloid and Polymer Science, 2012, 290, 151-161.	2.1	16
146	Composition, Morphology and Properties of Poly(lactic acid) and Poly(butylene succinate) Copolymer System via Coupling Reaction. Journal of Macromolecular Science - Pure and Applied Chemistry, 2013, 50, 861-870.	2.2	16
147	Study on Amino-functionalized Graphene Oxide/Poly(methyl methacrylate) Nanocomposites. Chemistry Letters, 2012, 41, 683-685.	1.3	15
148	Nanoparticle retarded shape relaxation of dispersed droplets in polymer blends: an understanding from the viewpoint of molecular movement. RSC Advances, 2014, 4, 41059-41068.	3.6	15
149	Enhancing crystallization rate and melt strength of <scp>PLLA</scp> with fourâ€arm <scp>PLLA</scp> grafted silica: The effect of molecular weight of the grafting <scp>PLLA</scp> chains. Journal of Applied Polymer Science, 2018, 135, 45675.	2.6	15
150	Ruthenium Nanoparticles Confined in Covalent Organic Framework/Reduced Graphene Oxide As Electrocatalyst toward Hydrogen Evolution Reaction in Alkaline Media. Industrial & Engineering Chemistry Research, 2021, 60, 11070-11078.	3.7	15
151	A machine-learning based phase change model for simulation of bubble condensation. International Journal of Heat and Mass Transfer, 2021, 178, 121620.	4.8	15
152	Deformation and morphology development of poly(ethylene terephthalate)/polyethylene and polycarbonate/polyethylene blends with high interfacial contact during elongation. Polymer Engineering and Science, 2004, 44, 1561-1570.	3.1	14
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