Wei Yang

List of Publications by Year
in descending order

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204 papers	11,692 citations	19636 61 h-index	36008 97 g-index
205 all docs	205 docs citations	205 times ranked	9052 citing authors

#	Article	IF	Citations
1	Hybrid graphene aerogels/phase change material composites: Thermal conductivity, shape-stabilization and light-to-thermal energy storage. Carbon, 2016, 100, 693-702.	5.4	351
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.	7.3	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.	2.2	267
4	Largely enhanced thermal conductivity of poly (ethylene glycol)/boron nitride composite phase change materials for solar-thermal-electric energy conversion and storage with very low content of graphene nanoplatelets. Chemical Engineering Journal, 2017, 315, 481-490.	6.6	264
5	Hybrid network structure of boron nitride and graphene oxide in shape-stabilized composite phase change materials with enhanced thermal conductivity and light-to-electric energy conversion capability. Solar Energy Materials and Solar Cells, 2018, 174, 56-64.	3.0	223
6	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.	5.2	216
7	Flexible Anti-Biofouling MXene/Cellulose Fibrous Membrane for Sustainable Solar-Driven Water Purification. ACS Applied Materials & Interfaces, 2019, 11, 36589-36597.	4.0	216
8	Hybridizing graphene aerogel into three-dimensional graphene foam for high-performance composite phase change materials. Energy Storage Materials, 2018, 13, 88-95.	9.5	210
9	Macroporous three-dimensional MXene architectures for highly efficient solar steam generation. Journal of Materials Chemistry A, 2019, 7, 10446-10455.	5.2	208
10	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.	5.8	206
11	Self-assembled high-strength hydroxyapatite/graphene oxide/chitosan composite hydrogel for bone tissue engineering. Carbohydrate Polymers, 2017, 155, 507-515.	5.1	205
12	Enhanced comprehensive performance of polyethylene glycol based phase change material with hybrid graphene nanomaterials for thermal energy storage. Carbon, 2015, 88, 196-205.	5.4	189
13	High-performance composite phase change materials for energy conversion based on macroscopically three-dimensional structural materials. Materials Horizons, 2019, 6, 250-273.	6.4	187
14	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.	5.2	184
15	Polyethylene glycol based shape-stabilized phase change material for thermal energy storage with ultra-low content of graphene oxide. Solar Energy Materials and Solar Cells, 2014, 123, 171-177.	3.0	178
16	Hierarchically Porous Hydroxyapatite Hybrid Scaffold Incorporated with Reduced Graphene Oxide for Rapid Bone Ingrowth and Repair. ACS Nano, 2019, 13, 9595-9606.	7.3	177
17	Self-assembled core-shell polydopamine@MXene with synergistic solar absorption capability for highly efficient solar-to-vapor generation. Nano Research, 2020, 13, 255-264.	5.8	174
18	Boosting piezoelectric response of PVDF-TrFE via MXene for self-powered linear pressure sensor. Composites Science and Technology, 2021, 202, 108600.	3.8	165

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19	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.	5.2	163
20	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.	6.4	153
21	Stereocomplex formation of high-molecular-weight polylactide: A low temperature approach. Polymer, 2012, 53, 5449-5454.	1.8	150
22	Facile Method to Fabricate Highly Thermally Conductive Graphite/PP Composite with Network Structures. ACS Applied Materials & Interfaces, 2016, 8, 19732-19738.	4.0	145
23	Hierarchically interconnected porous scaffolds for phase change materials with improved thermal conductivity and efficient solar-to-electric energy conversion. Nanoscale, 2017, 9, 17704-17709.	2.8	131
24	Conductive thermoplastic vulcanizates (TPVs) based on polypropylene (PP)/ethylene-propylene-diene rubber (EPDM) blend: From strain sensor to highly stretchable conductor. Composites Science and Technology, 2016, 128, 176-184.	3.8	120
25	Enhanced Formation of Stereocomplex Crystallites of High Molecular Weight Poly(<scp>l</scp>-lactide)/Poly(<scp>d</scp>-lactide) Blends from Melt by Using Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock	3.4	117
26	Multifunctional Thermal Management Materials with Excellent Heat Dissipation and Generation Capability for Future Electronics. ACS Applied Materials & Interfaces, 2019, 11, 18739-18745.	4.0	116
27	Green and robust superhydrophilic electrospun stereocomplex polylactide membranes: Multifunctional oil/water separation and self-cleaning. Journal of Membrane Science, 2020, 593, 117420.	4.1	115
28	Self-Assembled Sponge-like Chitosan/Reduced Graphene Oxide/Montmorillonite Composite Hydrogels without Cross-Linking of Chitosan for Effective Cr(VI) Sorption. ACS Sustainable Chemistry and Engineering, 2017, 5, 1557-1566.	3.2	111
29	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.	5.2	103
30	Induced Formation of Dominating Polar Phases of Poly(vinylidene fluoride): Positive Ionâ€“CF₂ Dipole or Negative Ionâ€“CH₂ Dipole Interaction. Journal of Physical Chemistry B, 2014, 118, 9104-9111.	1.2	102
31	Polyethylene glycol/graphene oxide aerogel shape-stabilized phase change materials for photo-to-thermal energy conversion and storage via tuning the oxidation degree of graphene oxide. Energy Conversion and Management, 2017, 146, 253-264.	4.4	99
32	Recent progress on chemical modification of cellulose for high mechanical-performance Poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.3	98
33	Electrically insulating, layer structured SiR/GNPs/BN thermal management materials with enhanced thermal conductivity and breakdown voltage. Composites Science and Technology, 2018, 167, 456-462.	3.8	97
34	Flexible shape-stabilized phase change materials with passive radiative cooling capability for thermal management. Chemical Engineering Journal, 2021, 425, 131466.	6.6	97
35	Polymorphism of Racemic Poly(<scp>l</scp>-lactide)/Poly(<scp>d</scp>-lactide) Blend: Effect of Melt and Cold Crystallization. Journal of Physical Chemistry B, 2013, 117, 3667-3674.	1.2	93
36	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.	5.2	92

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37	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.	5.2	91
38	Cryo-mediated exfoliation and fracturing of layered materials into 2D quantum dots. Science Advances, 2017, 3, e1701500.	4.7	91
39	Recent advances in polymer-based thermal interface materials for thermal management: A mini-review. Composites Communications, 2020, 22, 100528.	3.3	91
40	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.	3.2	88
41	Bacterial cellulose/MXene hybrid aerogels for photodriven shape-stabilized composite phase change materials. Solar Energy Materials and Solar Cells, 2019, 203, 110174.	3.0	85
42	Durable and super-hydrophilic/underwater super-oleophobic two-dimensional MXene composite lamellar membrane with photocatalytic self-cleaning property for efficient oil/water separation in harsh environments. Journal of Membrane Science, 2021, 637, 119627.	4.1	85
43	2D end-to-end carbon nanotube conductive networks in polymer nanocomposites: a conceptual design to dramatically enhance the sensitivities of strain sensors. Nanoscale, 2018, 10, 2191-2198.	2.8	83
44	A particular interfacial strategy in PVDF/OBC/MWCNT nanocomposites for high dielectric performance and electromagnetic interference shielding. Composites Part A: Applied Science and Manufacturing, 2018, 105, 118-125.	3.8	81
45	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.	9.9	81
46	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.	1.7	79
47	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.	4.0	78
48	Highly sensitive and multifunctional piezoresistive sensor based on polyaniline foam for wearable Human-Activity monitoring. Composites Part A: Applied Science and Manufacturing, 2019, 121, 510-516.	3.8	78
49	A strain localization directed crack control strategy for designing MXene-based customizable sensitivity and sensing range strain sensors for full-range human motion monitoring. Nano Energy, 2020, 74, 104814.	8.2	77
50	A comparison of melt and solution mixing on the dispersion of carbon nanotubes in a poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	5.9	76
51	Recent Advances in Multiresponsive Flexible Sensors towards Eâ€skin: A Delicate Design for Versatile Sensing. Small, 2022, 18, e2103734.	5.2	76
52	Multi-dimensional strain sensor based on carbon nanotube film with aligned conductive networks. Composites Science and Technology, 2018, 165, 190-197.	3.8	72
53	Boosting electrical and piezoresistive properties of polymer nanocomposites via hybrid carbon fillers: A review. Carbon, 2021, 173, 1020-1040.	5.4	71
54	Towards balanced strength and toughness improvement of isotactic polypropylene nanocomposites by surface functionalized graphene oxide. Journal of Materials Chemistry A, 2014, 2, 3190-3199.	5.2	70

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55	An elegant coupling: Freeze-casting and versatile polymer composites. Progress in Polymer Science, 2020, 109, 101289.	11.8	69
56	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.	3.2	67
57	Low percolation threshold and balanced electrical and mechanical performances in polypropylene/carbon black composites with a continuous segregated structure. Composites Part B: Engineering, 2016, 99, 348-357.	5.9	67
58	Metalâ€“Organicâ€Frameworkâ€Derived Nanostructures as Multifaceted Electrodes in Metalâ€“Sulfur Batteries. Advanced Materials, 2021, 33, e2008784.	11.1	67
59	Tannic acid functionalized graphene hydrogel for organic dye adsorption. Ecotoxicology and Environmental Safety, 2018, 165, 299-306.	2.9	66
60	Electro and Light-Active Actuators Based on Reversible Shape-Memory Polymer Composites with Segregated Conductive Networks. ACS Applied Materials & Interfaces, 2019, 11, 30332-30340.	4.0	66
61	Robust polymer-based paper-like thermal interface materials with a through-plane thermal conductivity over 9ÂWmâ^'1Kâ^'1. Chemical Engineering Journal, 2020, 392, 123784.	6.6	66
62	Facile fabrication of shape-stabilized polyethylene glycol/cellulose nanocrystal phase change materials based on thiol-ene click chemistry and solvent exchange. Chemical Engineering Journal, 2020, 396, 125206.	6.6	64
63	Influence of multiwall carbon nanotubes on the morphology, melting, crystallization and mechanical properties of polyamide 6/acrylonitrileâ€“butadieneâ€“styrene blends. Materials & Design, 2012, 34, 355-362.	5.1	62
64	Superior thermal interface materials for thermal management. Composites Communications, 2019, 12, 80-85.	3.3	61
65	Selective distribution and migration of carbon nanotubes enhanced electrical and mechanical performances in polyolefin elastomers. Polymer, 2017, 110, 1-11.	1.8	59
66	Nanofibrillar Poly(vinyl alcohol) Ionic Organohydrogels for Smart Contact Lens and Human-Interactive Sensing. ACS Applied Materials & Interfaces, 2020, 12, 23514-23522.	4.0	59
67	Essential work of fracture (EWF) analysis for polypropylene grafted with maleic anhydride modified polypropylene/calcium carbonate composites. Polymer Testing, 2005, 24, 410-417.	2.3	56
68	A Facile Route to Fabricate Highly Anisotropic Thermally Conductive Elastomeric POE/NG Composites for Thermal Management. Advanced Materials Interfaces, 2018, 5, 1700946.	1.9	56
69	Effect of temperature and strain rate on the tensile deformation of polyamide 6. Polymer, 2007, 48, 2958-2968.	1.8	55
70	The enhanced nucleating ability of carbon nanotube-supported Î²-nucleating agent in isotactic polypropylene. Colloid and Polymer Science, 2010, 288, 681-688.	1.0	54
71	Two-step positive temperature coefficient effect with favorable reproducibility achieved by specific â€œisland-bridgeâ€•electrical conductive networks in HDPE/PVDF/CNF composite. Composites Part A: Applied Science and Manufacturing, 2017, 94, 21-31.	3.8	51
72	Constructing a special â€˜sosatieâ€™ structure to finely dispersing MWCNT for enhanced electrical conductivity, ultra-high dielectric performance and toughness of iPP/OBC/MWCNT nanocomposites. Composites Science and Technology, 2017, 139, 17-25.	3.8	51

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73	Deformation-induced morphology evolution during uniaxial stretching of isotactic polypropylene: effect of temperature. Colloid and Polymer Science, 2012, 290, 261-274.	1.0	50
74	Deformation-induced structure evolution of oriented Î²-polypropylene during uniaxial stretching. Polymer, 2013, 54, 1259-1268.	1.8	50
75	Investigation on the piezoresistive behavior of high-density polyethylene/carbon black films in the elastic and plastic regimes. Composites Science and Technology, 2014, 97, 34-40.	3.8	50
76	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.	5.2	49
77	Hierarchically Porous PVA Aerogel for Leakage-Proof Phase Change Materials with Superior Energy Storage Capacity. Energy & Fuels, 2020, 34, 2471-2479.	2.5	49
78	Crystalline morphology of Î²-nucleated controlled-rheology polypropylene. Polymer Testing, 2008, 27, 638-644.	2.3	48
79	Bi-functional super-hydrophilic/underwater super-oleophobic 2D lamellar Ti3C2Tx MXene/poly (arylene ether nitrile) fibrous composite membrane for the fast purification of emulsified oil and photodegradation of hazardous organics. Journal of Colloid and Interface Science, 2022, 612, 156-170.	5.0	48
80	Multiple melting behaviour of annealed crystalline polymers. Polymer Testing, 2010, 29, 273-280.	2.3	47
81	Surface structure engineering for a bionic fiber-based sensor toward linear, tunable, and multifunctional sensing. Materials Horizons, 2020, 7, 2450-2459.	6.4	47
82	Emerging Flexible Thermally Conductive Films: Mechanism, Fabrication, Application. Nano-Micro Letters, 2022, 14, .	14.4	47
83	High-performance porous polylactide stereocomplex crystallite scaffolds prepared by solution blending and salt leaching. Materials Science and Engineering C, 2018, 90, 602-609.	3.8	46
84	Interfacial Radiation-Absorbing Hydrogel Film for Efficient Thermal Utilization on Solar Evaporator Surfaces. Nano Letters, 2021, 21, 10516-10524.	4.5	46
85	Dopamine-induced functionalization of cellulose nanocrystals with polyethylene glycol towards poly(L-lactic acid) bionanocomposites for green packaging. Carbohydrate Polymers, 2019, 203, 275-284.	5.1	45
86	Achieving improved electromagnetic interference shielding performance and balanced mechanical properties in polyketone nanocomposites via a composite MWCNTs carrier. Composites Part A: Applied Science and Manufacturing, 2020, 136, 105967.	3.8	43
87	Toughening of polyamide 6 with Î²-nucleated thermoplastic vulcanizates based on polypropylene/ethyleneâ€“propyleneâ€“diene rubber grafted with maleic anhydride blends. Materials & Design, 2012, 33, 104-110.	5.1	42
88	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.	1.7	42
89	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.	5.2	42
90	Suppression of phase coarsening in immiscible, co-continuous polymer blends under high temperature quiescent annealing. Soft Matter, 2014, 10, 3587.	1.2	42

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91	Effects of Fe3O4 loading on the cycling performance of Fe3O4/rGO composite anode material for lithium ion batteries. Journal of Alloys and Compounds, 2016, 678, 80-86.	2.8	42
92	Exploring Nextâ€Generation Functional Organic Phase Change Composites. Advanced Functional Materials, 2022, 32, .	7.8	42
93	Low-entropy structured wearable film sensor with piezoresistive-piezoelectric hybrid effect for 3D mechanical signal screening. Nano Energy, 2021, 90, 106603.	8.2	41
94	Crystallization behavior of poly (vinylidene fluoride)/multi-walled carbon nanotubes nanocomposites. Journal of Materials Science, 2011, 46, 1542-1550.	1.7	40
95	Greatly accelerated crystallization of poly(lactic acid): cooperative effect of stereocomplex crystallites and polyethylene glycol. Colloid and Polymer Science, 2014, 292, 163-172.	1.0	40
96	Toughening of polypropylene with Î²-nucleated thermoplastic vulcanizates based on polypropylene/ethyleneâ€“propyleneâ€“diene rubber blends. Materials & Design, 2013, 51, 536-543.	5.1	39
97	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.	1.3	39
98	Phase change mediated mechanically transformative dynamic gel for intelligent control of versatile devices. Materials Horizons, 2021, 8, 1230-1241.	6.4	39
99	Plastic deformation behavior of polypropylene/calcium carbonate composites with and without maleic anhydride grafted polypropylene incorporated using the essential work of fracture method. Polymer Testing, 2006, 25, 98-106.	2.3	38
100	An extremely uniform dispersion of MWCNTs in olefin block copolymers significantly enhances electrical and mechanical performances. Polymer Chemistry, 2015, 6, 7160-7170.	1.9	38
101	Study on the melt flow behavior of glass bead filled polypropylene. Polymer Testing, 2005, 24, 490-497.	2.3	37
102	Melt viscoelasticity, electrical conductivity, and crystallization of PVDF/MWCNT composites: Effect of the dispersion of MWCNTs. Journal of Applied Polymer Science, 2012, 125, E49.	1.3	37
103	Crystallization and reinforcement of poly (vinylidene fluoride) nanocomposites: Role of high molecular weight resin and carbon nanotubes. Polymer Testing, 2012, 31, 117-126.	2.3	37
104	Poly(l-lactic acid)-polyethylene glycol-poly(l-lactic acid) triblock copolymer: A novel macromolecular plasticizer to enhance the crystallization of poly(l-lactic acid). European Polymer Journal, 2017, 97, 272-281.	2.6	37
105	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.	1.7	36
106	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.	4.0	36
107	Scalable Flexible Phase Change Materials with a Swollen Polymer Network Structure for Thermal Energy Storage. ACS Applied Materials & Interfaces, 2021, 13, 59364-59372.	4.0	36
108	A rheological study on temperature dependent microstructural changes of fumed silica gels in dodecane. Soft Matter, 2012, 8, 10457.	1.2	34

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109	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.	1.7	34
110	Effect of nano-silica on the phase inversion behavior of immiscible PA6/ABS blends. Polymer Testing, 2013, 32, 141-149.	2.3	34
111	Highly sensitive pressure sensor with broad linearity via constructing a hollow structure in polyaniline/polydimethylsiloxane composite. Composites Science and Technology, 2021, 201, 108546.	3.8	34
112	Flexible phase change hydrogels for mid-/low-temperature infrared stealth. Chemical Engineering Journal, 2022, 446, 137463.	6.6	34
113	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.	1.9	33
114	Effect of Î²-phase on the fracture behavior of dynamically vulcanized PP/EPDM blends studied by the essential work of fracture approach. European Polymer Journal, 2009, 45, 1448-1453.	2.6	32
115	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.	2.7	32
116	A Waveâ€Driven Piezoelectric Solar Evaporator for Water Purification. Advanced Energy Materials, 2022, 12, .	10.2	32
117	Double yielding behaviors of polyamide 6 and glass bead filled polyamide 6 composites. Polymer Testing, 2005, 24, 704-711.	2.3	31
118	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 ETQq0 0 0 rgBT /Overlock 10 T	1.7	31
119	Aggregate of nanoparticles: rheological and mechanical properties. Nanoscale Research Letters, 2011, 6, 114.	3.1	30
120	Unusual positive temperature coefficient effect of polyolefin/carbon fiber conductive composites. Materials Letters, 2016, 164, 587-590.	1.3	30
121	A Green and Facile Melt Approach for Hierarchically Porous Polylactide Monoliths Based on Stereocomplex Crystallite Network. ACS Sustainable Chemistry and Engineering, 2017, 5, 8334-8343.	3.2	30
122	Double-layered and shape-stabilized phase change materials with enhanced thermal conduction and reversible thermochromism for solar thermoelectric power generation. Chemical Engineering Journal, 2022, 430, 132773.	6.6	30
123	Induced formation of polar phases in poly(vinylidene fluoride) by cetyl trimethyl ammonium bromide. Journal of Materials Science, 2014, 49, 4171-4179.	1.7	29
124	Tailoring co-continuous like morphology in blends with highly asymmetric composition by MWCNTs: Towards biodegradable high-performance electrical conductive poly(l-lactide)/poly(3-hydroxybutyrate-co-4-hydroxybutyrate) blends. Composites Science and Technology, 2017, 152, 111-119.	3.8	29
125	The effect of the grafted chains on the crystallization of PLLA/PLLA-grafted SiO2 nanocomposites. Colloid and Polymer Science, 2016, 294, 801-813.	1.0	28
126	Pore formation mechanism of oriented Î² polypropylene cast films during stretching and optimization of stretching methods: In-situ SAXS and WAXD studies. Polymer, 2019, 163, 86-95.	1.8	28

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127	Oriented polypropylene cast films consisted of Î²-transcrystals induced by the nucleating agent self-assembly and its homogeneous membranes with high porosity. Polymer, 2018, 151, 136-144.	1.8	27
128	Stretchable conductors of multi-walled carbon nanotubes (MWCNTs) filled thermoplastic vulcanizate (TPV) composites with enhanced electromagnetic interference shielding performance. Composites Science and Technology, 2020, 195, 108195.	3.8	27
129	Effect of crystallinity level on the double yielding behavior of polyamide 6. Polymer Testing, 2006, 25, 452-459.	2.3	25
130	Crystallization and morphology of iPP/MWCNT prepared by compounding iPP melt with MWCNT aqueous suspension. Colloid and Polymer Science, 2009, 287, 615-620.	1.0	25
131	Highly thermally conductive electrospun stereocomplex polylactide fibrous film dip-coated with silver nanowires. Polymer, 2020, 194, 122390.	1.8	25
132	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.	1.3	24
133	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.	1.3	24
134	Carbon Nanotube Grafted Poly(<scp>l</scp>-lactide)-block-poly(<scp>d</scp>-lactide) and Its Stereocomplexation with Poly(lactide)s: The Nucleation Effect of Carbon Nanotubes. ACS Sustainable Chemistry and Engineering, 2016, 4, 2660-2669.	3.2	23
135	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.	1.7	23
136	A facile strategy toward hierarchically porous composite scaffold for osteosarcoma ablation and massive bone defect repair. Composites Part B: Engineering, 2022, 234, 109660.	5.9	23
137	Role of carbon nanotube grafted poly(l-lactide)-block-poly(d-lactide) in the crystallization of poly(l-lactic acid)/poly(d-lactic acid) blends: Suppressed homocrystallization and enhanced stereocomplex crystallization. European Polymer Journal, 2016, 83, 42-52.	2.6	22
138	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.	1.3	21
139	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.	1.3	21
140	Evolution of agglomerate structure of carbon nanotubes in multi-walled carbon nanotubes/polymer composite melt: A rheo-electrical study. Composites Part B: Engineering, 2012, 43, 3281-3287.	5.9	20
141	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.	1.7	20
142	Suppressing phase retraction and coalescence of co-continuous polymer blends: effect of nanoparticles and particle network. RSC Advances, 2014, 4, 49429-49441.	1.7	20
143	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.	2.7	20
144	Investigation on Tensile Deformation Behavior of Semi-Crystalline Polymers. Journal of Macromolecular Science - Physics, 2009, 48, 799-811.	0.4	19

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145	The preparation, structures, and properties of poly(vinylidene fluoride)/multiwall carbon nanotubes nanocomposites. Journal of Applied Polymer Science, 2012, 125, E592.	1.3	19
146	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.	1.3	19
147	Effect of chain entanglement on the melt-crystallization behavior of poly(l-lactide) acid. Journal of Polymer Research, 2016, 23, 1.	1.2	19
148	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.	1.2	19
149	Leakage-Proof and Malleable Polyethylene Wax Vitrimer Phase Change Materials for Thermal Interface Management. ACS Applied Energy Materials, 2021, 4, 11173-11182.	2.5	19
150	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.	4.0	19
151	Effect of annealing temperature on the mechanical properties, thermal behavior and morphology of Î²-iPP/PA6 blends. Materials & Design, 2012, 40, 392-399.	5.1	18
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