Wei Yang

List of Publications by Year in Descending Order

200 papers	7,724 citations	49 h-index	77 g-index
205 ext. papers	9,635 ext. citations	7.2 avg, IF	6.42 L-index

#	Paper	IF	Citations
200	A facile strategy toward hierarchically porous composite scaffold for osteosarcoma ablation and massive bone defect repair. *Composites Part B: Engineering*, **2022**, 234, 109660	10	3
199	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	14.7	7
198	Polymer Composites for Thermal Energy Storage **2021**, 29-61		
197	Recent Advances in Multiresponsive Flexible Sensors towards E-skin: A Delicate Design for Versatile Sensing. *Small*, **2021**, e2103734	11	10
196	Mechanistically Scoping Cell-free and Cell-dependent Artificial Scaffolds in Rebuilding Skeletal and Dental Hard Tissues. *Advanced Materials*, **2021**, e2107922	24	1
195	Bi-functional super-hydrophilic/underwater super-oleophobic 2D lamellar TiCT 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*, **2021**, 612, 156-170	9.3	5
194	Low-entropy structured wearable film sensor with piezoresistive-piezoelectric hybrid effect for 3D mechanical signal screening. *Nano Energy*, **2021**, 90, 106603	17.1	8
193	Metal-Organic-Framework-Derived Nanostructures as Multifaceted Electrodes in Metal-Sulfur Batteries. *Advanced Materials*, **2021**, 33, e2008784	24	21
192	Boosting solar steam generation in dynamically tunable polymer porous architectures. *Polymer*, **2021**, 226, 123811	3.9	5
191	Construction of □core-shell□ structure for improved thermal conductivity and mechanical properties of polyamide 6 composites. *Polymer Bulletin*, **2021**, 78, 2791-2803	2.4	
190	Boosting electrical and piezoresistive properties of polymer nanocomposites via hybrid carbon fillers: A review. *Carbon*, **2021**, 173, 1020-1040	10.4	28
189	Highly sensitive pressure sensor with broad linearity via constructing a hollow structure in polyaniline/polydimethylsiloxane composite. *Composites Science and Technology*, **2021**, 201, 108546	8.6	8
188	Boosting piezoelectric response of PVDF-TrFE via MXene for self-powered linear pressure sensor. *Composites Science and Technology*, **2021**, 202, 108600	8.6	51
187	Lightweight poly (vinylidene fluoride)/silver nanowires hybrid membrane with different conductive network structure for electromagnetic interference shielding. *Polymer Composites*, **2021**, 42, 522-531	3	5
186	Recent progress on chemical modification of cellulose for high mechanical-performance Poly(lactic acid)/Cellulose composite: A review. *Composites Communications*, **2021**, 23, 100548	6.7	24
185	Tunable reversible deformation of semicrystalline polymer networks based on temperature memory effect. *Polymer*, **2021**, 232, 124157	3.9	2
184	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	9.6	16

183	Construction of dual conductive network in paper-based composites towards flexible degradable dual-mode sensor. *Composites Part A: Applied Science and Manufacturing*, **2021**, 151, 106649	8.4	3
182	Flexible shape-stabilized phase change materials with passive radiative cooling capability for thermal management. *Chemical Engineering Journal*, **2021**, 425, 131466	14.7	20
181	Phase change mediated mechanically transformative dynamic gel for intelligent control of versatile devices. *Materials Horizons*, **2021**, 8, 1230-1241	14.4	15
180	Interfacial Radiation-Absorbing Hydrogel Film for Efficient Thermal Utilization on Solar Evaporator Surfaces. *Nano Letters*, **2021**,	11.5	5
179	Scalable Flexible Phase Change Materials with a Swollen Polymer Network Structure for Thermal Energy Storage. *ACS Applied Materials & Interfaces*, **2021**,	9.5	3
178	Formation of oriented ⊟transcrystals induced by self-assembly of nucleating agent and its micropores formation during uniaxial stretching. *Polymer Crystallization*, **2020**, 3, e10129	0.9	
177	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	17.1	37
176	A new insight into multi-tier structure tailoring: Synchronous utilization of particle migration and incompatible interface separation under shear flow. *Polymer*, **2020**, 194, 122384	3.9	2
175	Formation mechanism of hierarchically crystalline structures under coupled external fields in multi-melt multi-injection molding: Simulation and experiment. *Composites Part B: Engineering*, **2020**, 188, 107770	10	7
174	Hierarchically Porous PVA Aerogel for Leakage-Proof Phase Change Materials with Superior Energy Storage Capacity. *Energy & Fuels*, **2020**, 34, 2471-2479	4.1	34
173	Highly thermally conductive electrospun stereocomplex polylactide fibrous film dip-coated with silver nanowires. *Polymer*, **2020**, 194, 122390	3.9	12
172	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	14.7	36
171	Nanofibrillar Poly(vinyl alcohol) Ionic Organohydrogels for Smart Contact Lens and Human-Interactive Sensing. *ACS Applied Materials & Interfaces*, **2020**, 12, 23514-23522	9.5	26
170	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	8.6	17
169	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	8.4	23
168	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	14.4	83
167	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	13	49
166	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	82

165	Driven by electricity: multilayered GO-Fe3O4@PDA-PAM flake assembled micro flower-like anode for high-performance lithium ion batteries. *Applied Surface Science*, **2020**, 499, 143934	6.7	8
164	Robust polymer-based paper-like thermal interface materials with a through-plane thermal conductivity over 9 Wm−1K−1. *Chemical Engineering Journal*, **2020**, 392, 123784	14.7	42
163	Photo-Driven Self-Healing of Arbitrary Nondestructive Damage in Polyethylene-Based Nanocomposites. *ACS Applied Materials & Interfaces*, **2020**, 12, 1650-1657	9.5	7
162	High-efficient crystallization promotion and melt reinforcement effect of diblock PDLA-b-PLLA copolymer on PLLA. *Polymer*, **2020**, 186, 122021	3.9	8
161	Recent advances in polymer-based thermal interface materials for thermal management: A mini-review. *Composites Communications*, **2020**, 22, 100528	6.7	30
160	Morphologies, interfacial interaction and mechanical performance of super-tough nanostructured PK/PA6 blends. *Polymer Testing*, **2020**, 91, 106777	4.5	3
159	Surface structure engineering for a bionic fiber-based sensor toward linear, tunable, and multifunctional sensing. *Materials Horizons*, **2020**, 7, 2450-2459	14.4	24
158	Smart TiCT MXene Fabric with Fast Humidity Response and Joule Heating for Healthcare and Medical Therapy Applications. *ACS Nano*, **2020**, 14, 8793-8805	16.7	106
157	Waterproof Phase Change Material with a Facilely Incorporated Cellulose Nanocrystal/Poly(-isopropylacrylamide) Network for All-Weather Outdoor Thermal Energy Storage. *ACS Applied Materials & Interfaces*, **2020**, 12, 53365-53375	9.5	5
156	An elegant coupling: Freeze-casting and versatile polymer composites. *Progress in Polymer Science*, **2020**, 109, 101289	29.6	26
155	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	7.1	9
154	Green and robust superhydrophilic electrospun stereocomplex polylactide membranes: Multifunctional oil/water separation and self-cleaning. *Journal of Membrane Science*, **2020**, 593, 117420	9.6	59
153	Effect of Cross-Linking Degree of EPDM Phase on the Morphology Evolution and Crystallization Behavior of Thermoplastic Vulcanizates Based on Polyamide 6 (PA6)/Ethylene-Propylene-Diene Rubber (EPDM) Blends. *Polymers*, **2019**, 11,	4.5	4
152	Flexible Anti-Biofouling MXene/Cellulose Fibrous Membrane for Sustainable Solar-Driven Water Purification. *ACS Applied Materials & Interfaces*, **2019**, 11, 36589-36597	9.5	106
151	Nitrogen-doped carbon-coated Fe3O4/rGO nanocomposite anode material for enhanced initial coulombic efficiency of lithium-ion batteries. *Ionics*, **2019**, 25, 1513-1521	2.7	7
150	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	13	97
149	Effect of the content of β-form crystals on biaxially stretched polypropylene microporous membranes and the tuning of pore structures. *Polymer*, **2019**, 175, 177-185	3.9	10
148	Multifunctional Thermal Management Materials with Excellent Heat Dissipation and Generation Capability for Future Electronics. *ACS Applied Materials & Interfaces*, **2019**, 11, 18739-18745	9.5	69

147	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	8.4	49
146	Macroporous three-dimensional MXene architectures for highly efficient solar steam generation. *Journal of Materials Chemistry A*, **2019**, 7, 10446-10455	13	138
145	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	4.6	19
144	Constructing Sandwich-Architectured Poly(l-lactide)/High-Melting-Point Poly(l-lactide) Nonwoven Fabrics: Toward Heat-Resistant Poly(l-lactide) Barrier Biocomposites with Full Biodegradability.. *ACS Applied Bio Materials*, **2019**, 2, 1357-1367	4.1	9
143	Hierarchically Porous Hydroxyapatite Hybrid Scaffold Incorporated with Reduced Graphene Oxide for Rapid Bone Ingrowth and Repair. *ACS Nano*, **2019**, 13, 9595-9606	16.7	93
142	Electro and Light-Active Actuators Based on Reversible Shape-Memory Polymer Composites with Segregated Conductive Networks. *ACS Applied Materials & Interfaces*, **2019**, 11, 30332-30340	9.5	44
141	Bacterial cellulose/MXene hybrid aerogels for photodriven shape-stabilized composite phase change materials. *Solar Energy Materials and Solar Cells*, **2019**, 203, 110174	6.4	54
140	High-performance composite phase change materials for energy conversion based on macroscopically three-dimensional structural materials. *Materials Horizons*, **2019**, 6, 250-273	14.4	116
139	Effect of aspect ratio of multi-wall carbon nanotubes on the dispersion in ethylene-□octene block copolymer and the properties of the Nanocomposites. *Journal of Polymer Research*, **2019**, 26, 1	2.7	7
138	Pore formation mechanism of oriented □polypropylene cast films during stretching and optimization of stretching methods: In-situ SAXS and WAXD studies. *Polymer*, **2019**, 163, 86-95	3.9	20
137	Superior thermal interface materials for thermal management. *Composites Communications*, **2019**, 12, 80-85	6.7	38
136	Scalable Synthesis of an Artificial Polydopamine Solid-Electrolyte-Interface-Assisted 3D rGO/Fe3O4@PDA Hydrogel for a Highly Stable Anode with Enhanced Lithium-Ion-Storage Properties. *ChemElectroChem*, **2019**, 6, 1069-1077	4.3	6
135	Highly anisotropic functional conductors fabricated by multi-melt multi-injection molding (M3IM): A synergetic role of multiple melt flows and confined interface. *Composites Science and Technology*, **2019**, 171, 127-134	8.6	4
134	Dopamine-induced functionalization of cellulose nanocrystals with polyethylene glycol towards poly(-lactic acid) bionanocomposites for green packaging. *Carbohydrate Polymers*, **2019**, 203, 275-284	10.3	32
133	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	4.3	45
132	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	7.7	63
131	Hybridizing graphene aerogel into three-dimensional graphene foam for high-performance composite phase change materials. *Energy Storage Materials*, **2018**, 13, 88-95	19.4	123
130	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	13	66

129	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	8.3	62
128	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	6.4	168
127	Oriented polypropylene cast films consisted of β-transcrystals induced by the nucleating agent self-assembly and its homogeneous membranes with high porosity. *Polymer*, **2018**, 151, 136-144	3.9	23
126	Preparation of functionalized cellulose nanoparticles and their effect on the crystallization behaviors of poly(l-lactide) based nanocomposites. *Polymer International*, **2018**, 67, 1535-1544	3.3	6
125	High-performance porous polylactide stereocomplex crystallite scaffolds prepared by solution blending and salt leaching. *Materials Science and Engineering C*, **2018**, 90, 602-609	8.3	38
124	A Facile Route to Fabricate Highly Anisotropic Thermally Conductive Elastomeric POE/NG Composites for Thermal Management. *Advanced Materials Interfaces*, **2018**, 5, 1700946	4.6	37
123	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	8.4	56
122	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	8.7	56
121	Diverse interfacial crystalline morphologies induced by poly (d-lactide) (PDLA) melt penetration process in multi-melt multi-injection molding (M3IM) system. *Composites Part B: Engineering*, **2018**, 153, 429-436	10	6
120	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	8.5	59
119	Tannic acid functionalized graphene hydrogel for organic dye adsorption. *Ecotoxicology and Environmental Safety*, **2018**, 165, 299-306	7	41
118	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	8.6	66
117	Tailoring Crystalline Morphology by High-Efficiency Nucleating Fiber: Toward High-Performance Poly(l-lactide) Biocomposites. *ACS Applied Materials & Interfaces*, **2018**, 10, 20044-20054	9.5	21
116	Multi-dimensional strain sensor based on carbon nanotube film with aligned conductive networks. *Composites Science and Technology*, **2018**, 165, 190-197	8.6	48
115	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	14.7	168
114	Supercooling-dependent morphology evolution of an organic nucleating agent in poly(L-lactide)/poly(D-lactide) blends. *CrystEngComm*, **2017**, 19, 1648-1657	3.3	17
113	Effects of interphase on the dispersion of MWCNTs in ethylene-□octene copolymers revealed by solid-state NMR spectroscopy. *Polymer*, **2017**, 114, 44-53	3.9	8
112	The effect of chain mobility on the coarsening process of co-continuous, immiscible polymer blends under quiescent melt annealing. *Physical Chemistry Chemical Physics*, **2017**, 19, 12712-12719	3.6	10

111	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	10.6	74
110	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	153
109	Two-step positive temperature coefficient effect with favorable reproducibility achieved by specific "island-bridge" electrical conductive networks in HDPE/PVDF/CNF composite. *Composites Part A: Applied Science and Manufacturing*, **2017**, 94, 21-31	8.4	35
108	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	8.3	85
107	Constructing a special "sea-island" 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	8.6	43
106	Selective distribution and migration of carbon nanotubes enhanced electrical and mechanical performances in polyolefin elastomers. *Polymer*, **2017**, 110, 1-11	3.9	53
105	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	8.6	26
104	Excellent mechanical performance and enhanced dielectric properties of OBC/SiO2 elastomeric nanocomposites: effect of dispersion of the SiO2 nanoparticles. *RSC Advances*, **2017**, 7, 46297-46305	3.7	1
103	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	5.2	25
102	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	8.3	20
101	Cryo-mediated exfoliation and fracturing of layered materials into 2D quantum dots. *Science Advances*, **2017**, 3, e1701500	14.3	70
100	Hierarchically interconnected porous scaffolds for phase change materials with improved thermal conductivity and efficient solar-to-electric energy conversion. *Nanoscale*, **2017**, 9, 17704-17709	7.7	97
99	The formation of interfacial morphologies of iPP derived from transverse flow during multi-penetration in secondary melt flow. *Materials Today Communications*, **2017**, 12, 43-54	2.5	5
98	Self-assembled high-strength hydroxyapatite/graphene oxide/chitosan composite hydrogel for bone tissue engineering. *Carbohydrate Polymers*, **2017**, 155, 507-515	10.3	168
97	Effect of phase coarsening under melt annealing on the electrical performance of polymer composites with a double percolation structure. *Physical Chemistry Chemical Physics*, **2017**, 20, 137-147	3.6	13
96	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)/ethylene–propylene–diene rubber (EPDM) blends. *RSC Advances*, **2016**, 6, 74567-74574	3.7	16
95	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	5.2	17
94	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 light–thermal–electric energy conversion. *Journal of Materials Chemistry A*, **2016**, 4, 18841-18851	13	145

93	Effect of chain entanglement on the melt-crystallization behavior of poly(l-lactide) acid. *Journal of Polymer Research*, **2016**, 23, 1	2.7	14
92	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	10	51
91	Unique crystallization behaviors of isotactic polypropylene in the presence of MWCNT supported nucleating agent: Lower temperature T()-T()interval and fast cooling preferred formation of crystals. *Polymer*, **2016**, 95, 26-35	3.9	6
90	The effect of the grafted chains on the crystallization of PLLA/PLLA-grafted SiO2 nanocomposites. *Colloid and Polymer Science*, **2016**, 294, 801-813	2.4	23
89	Hybrid graphene aerogels/phase change material composites: Thermal conductivity, shape-stabilization and light-to-thermal energy storage. *Carbon*, **2016**, 100, 693-702	10.4	263
88	Distinct positive temperature coefficient effect of polymer-carbon fiber composites evaluated in terms of polymer absorption on fiber surface. *Physical Chemistry Chemical Physics*, **2016**, 18, 8081-7	3.6	16
87	Unusual positive temperature coefficient effect of polyolefin/carbon fiber conductive composites. *Materials Letters*, **2016**, 164, 587-590	3.3	22
86	Facile Method to Fabricate Highly Thermally Conductive Graphite/PP Composite with Network Structures. *ACS Applied Materials & Interfaces*, **2016**, 8, 19732-8	9.5	110
85	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	13	126
84	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	5.7	36
83	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	8.6	95
82	Carbon Nanotube Grafted Poly(l-lactide)-block-poly(d-lactide) and Its Stereocomplexation with Poly(lactide)s: The Nucleation Effect of Carbon Nanotubes. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 2660-2669	8.3	18
81	Enhancing Thermomechanical Properties and Heat Distortion Resistance of Poly(l-lactide) with High Crystallinity under High Cooling Rate. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 654-661	8.3	58
80	An extremely uniform dispersion of MWCNTs in olefin block copolymers significantly enhances electrical and mechanical performances. *Polymer Chemistry*, **2015**, 6, 7160-7170	4.9	34
79	Temperature: a nonnegligible factor for the formation of a structurally stable, self-assembled reduced graphite oxide hydrogel. *RSC Advances*, **2015**, 5, 10-15	3.7	13
78	Hierarchical crystalline morphologies induced by a distinctly different melt penetrating process. *RSC Advances*, **2015**, 5, 98299-98308	3.7	5
77	Enantiomeric poly(D-lactide) with a higher melting point served as a significant nucleating agent for poly(L-lactide). *CrystEngComm*, **2015**, 17, 4334-4342	3.3	16
76	Enhanced comprehensive performance of polyethylene glycol based phase change material with hybrid graphene nanomaterials for thermal energy storage. *Carbon*, **2015**, 88, 196-205	10.4	147

75	Tailoring crystalline structures and mechanical properties of injection-molded polyethylene by tuning the relaxation time of molecular chains. *Materials Today Communications*, **2015**, 4, 22-34	2.5	7
74	High-melting-point crystals of poly(L-lactic acid) (PLLA): the most efficient nucleating agent to enhance the crystallization of PLLA. *CrystEngComm*, **2015**, 17, 2310-2320	3.3	35
73	Polymorphism of a high-molecular-weight racemic poly(L-lactide)/poly(D-lactide) blend: effect of melt blending with poly(methyl methacrylate). *RSC Advances*, **2015**, 5, 19058-19066	3.7	25
72	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	13	77
71	Induced formation of polar phases in poly(vinylidene fluoride) by cetyl trimethyl ammonium bromide. *Journal of Materials Science*, **2014**, 49, 4171-4179	4.3	26
70	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	6.4	145
69	Stereocomplex Crystallite Network in Asymmetric PLLA/PDLA Blends: Formation, Structure, and Confining Effect on the Crystallization Rate of Homocrystallites. *Macromolecules*, **2014**, 47, 1439-1448	5.5	212
68	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	3.7	16
67	Suppressing phase retraction and coalescence of co-continuous polymer blends: effect of nanoparticles and particle network. *RSC Advances*, **2014**, 4, 49429-49441	3.7	15
66	Enhanced Formation of Stereocomplex Crystallites of High Molecular Weight Poly(l-lactide)/Poly(d-lactide) Blends from Melt by Using Poly(ethylene glycol). *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 2301-2309	8.3	94
65	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	13	39
64	Induced formation of dominating polar phases of poly(vinylidene fluoride): positive ion-CF2 dipole or negative ion-CH2 dipole interaction. *Journal of Physical Chemistry B*, **2014**, 118, 9104-11	3.4	71
63	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	7.1	19
62	Suppression of phase coarsening in immiscible, co-continuous polymer blends under high temperature quiescent annealing. *Soft Matter*, **2014**, 10, 3587-96	3.6	35
61	Towards balanced strength and toughness improvement of isotactic polypropylene nanocomposites by surface functionalized graphene oxide. *Journal of Materials Chemistry A*, **2014**, 2, 3190-3199	13	60
60	Contribution of residual solvent to the nucleation and reinforcement of poly (vinylidene fluoride). *Polymer Testing*, **2014**, 34, 78-84	4.5	6
59	Crystallization kinetics of □phase poly(vinylidene fluoride)(PVDF) induecd by tetrabutylammonium bisulfate. *Journal of Polymer Research*, **2014**, 21, 1	2.7	5
58	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	8.6	45

57	Greatly accelerated crystallization of poly(lactic acid): cooperative effect of stereocomplex crystallites and polyethylene glycol. *Colloid and Polymer Science*, **2014**, 292, 163-172	2.4	38
56	Deformation-induced structure evolution of oriented polypropylene during uniaxial stretching. *Polymer*, **2013**, 54, 1259-1268	3.9	44
55	Reinforcement and plasticization of PMMA grafted MWCNTs for PVDF composites. *Composites Part B: Engineering*, **2013**, 53, 9-16	10	13
54	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	13	44
53	Polymorphism of racemic poly(L-lactide)/poly(D-lactide) blend: effect of melt and cold crystallization. *Journal of Physical Chemistry B*, **2013**, 117, 3667-74	3.4	83
52	Toughening of polypropylene with nucleated thermoplastic vulcanizates based on polypropylene/ethylene propylene diene rubber blends. *Materials & Design*, **2013**, 51, 536-543		36
51	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	4.3	36
50	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	2.9	20
49	Effect of nano-silica on the phase inversion behavior of immiscible PA6/ABS blends. *Polymer Testing* , **2013**, 32, 141-149	4.5	32
48	Insight into the nucleating and reinforcing efficiencies of carbon nanofillers in poly(vinylidene fluoride): a comparison between carbon nanotubes and carbon black. *Journal of Materials Science*, **2013**, 48, 8509-8519	4.3	10
47	Toughening of polyamide 6 with nucleated thermoplastic vulcanizates based on polypropylene/ethylene propylene diene rubber grafted with maleic anhydride blends. *Materials & Design*, **2012**, 33, 104-110		39
46	Influence of multiwall carbon nanotubes on the morphology, melting, crystallization and mechanical properties of polyamide 6/acrylonitrile butadiene styrene blends. *Materials & Design*, **2012**, 34, 355-362		56
45	Effect of annealing temperature on the mechanical properties, thermal behavior and morphology of PP/PA6 blends. *Materials & Design*, **2012**, 40, 392-399		17
44	Crystallization and reinforcement of poly (vinylidene fluoride) nanocomposites: Role of high molecular weight resin and carbon nanotubes. *Polymer Testing*, **2012**, 31, 117-126	4.5	33
43	Effect of carbon nanotube-supported nucleating agent on the thermal properties, morphology, and mechanical properties of polyamide 6/isotactic polypropylene blends. *Journal of Applied Polymer Science*, **2012**, 124, 993-999	2.9	8
42	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	4.3	33
41	Structure of fumed silica gels in dodecane: enhanced network by oscillatory shear. *Colloid and Polymer Science*, **2012**, 290, 151-161	2.4	12
40	Deformation-induced morphology evolution during uniaxial stretching of isotactic polypropylene: effect of temperature. *Colloid and Polymer Science*, **2012**, 290, 261-274	2.4	46

39	A rheological study on temperature dependent microstructural changes of fumed silica gels in dodecane. *Soft Matter*, **2012**, 8, 10457	3.6	30
38	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	10	18
37	Stereocomplex formation of high-molecular-weight polylactide: A low temperature approach. *Polymer*, **2012**, 53, 5449-5454	3.9	131
36	MWCNTs Supported N,N?-Dicyclohexyl-1,5-diamino-2,6-naphthalenedicarboxamide: A Novel Nucleating Agent for Polypropylene. *Journal of Macromolecular Science - Physics*, **2012**, 51, 2412-2427	1.4	15
35	Crystallization, rheological behavior and mechanical properties of poly(vinylidene fluoride) composites containing graphitic fillers: a comparative study. *Polymer International*, **2012**, 61, 1031-1040	3.3	13
34	Melt viscoelasticity, electrical conductivity, and crystallization of PVDF/MWCNT composites: Effect of the dispersion of MWCNTs. *Journal of Applied Polymer Science*, **2012**, 125, E49	2.9	33
33	The preparation, structures, and properties of poly(vinylidene fluoride)/multiwall carbon nanotubes nanocomposites. *Journal of Applied Polymer Science*, **2012**, 125, E592	2.9	18
32	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	4.3	35
31	A comparison of melt and solution mixing on the dispersion of carbon nanotubes in a poly(vinylidene fluoride) matrix. *Composites Part B: Engineering*, **2012**, 43, 1425-1432	10	60
30	Crystallization behavior of poly (vinylidene fluoride)/multi-walled carbon nanotubes nanocomposites. *Journal of Materials Science*, **2011**, 46, 1542-1550	4.3	39
29	Aggregate of nanoparticles: rheological and mechanical properties. *Nanoscale Research Letters*, **2011**, 6, 114	5	25
28	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	2.9	12
27	Interfacial interaction of polyvinylidene fluoride/multiwalled carbon nanotubes nanocomposites: A rheological study. *Journal of Applied Polymer Science*, **2011**, 121, 3041-3046	2.9	15
26	An unexpected plasticization phenomenon and a constant of the change rate of viscoelastic properties for polymers during nanoindentation test. *Journal of Applied Polymer Science*, **2011**, 122, 885-890	2.9	9
25	Hierarchical Distribution of Phase in Compression- and Injection-Molded, Polypropylene-Based TPV. *Journal of Macromolecular Science - Physics*, **2010**, 50, 62-74	1.4	2
24	The enhanced nucleating ability of carbon nanotube-supported nucleating agent in isotactic polypropylene. *Colloid and Polymer Science*, **2010**, 288, 681-688	2.4	50
23	Multiple melting behaviour of annealed crystalline polymers. *Polymer Testing*, **2010**, 29, 273-280	4.5	43
22	Crystallization and morphology of iPP/MWCNT prepared by compounding iPP melt with MWCNT aqueous suspension. *Colloid and Polymer Science*, **2009**, 287, 615-620	2.4	25

21	Effect of temperature gradient on the development of β-phase polypropylene in dynamically vulcanized PP/EPDM blends. *Colloid and Polymer Science*, **2009**, 287, 1237-1242	2.4	10
20	Double yielding in PA6/TPV-MAH blends: Effect of crosslinking degree of the dispersed phase. *Journal of Polymer Science, Part B: Polymer Physics*, **2009**, 47, 912-922	2.6	6
19	Effect of spatial confinement on the development of β-phase of polypropylene. *Polymer*, **2009**, 50, 4122-4127	3.9	14
18	Effect of β-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	5.2	31
17	Investigation on Tensile Deformation Behavior of Semi-Crystalline Polymers. *Journal of Macromolecular Science - Physics*, **2009**, 48, 799-811	1.4	17
16	Effect of α- and β-nucleating agents on the fracture behavior of polypropylene-co-ethylene. *Journal of Applied Polymer Science*, **2008**, 108, 591-597	2.9	10
15	Crystalline morphology of β-nucleated controlled-rheology polypropylene. *Polymer Testing*, **2008**, 27, 638-644	4.5	44
14	The β-Phase of Isotactic Polypropylene in TPVs Based on PP/EPDM. *Journal of Macromolecular Science - Physics*, **2007**, 46, 841-852	1.4	10
13	Effect of temperature and strain rate on the tensile deformation of polyamide 6. *Polymer*, **2007**, 48, 2958-2968	3.9	38
12	Double yielding in PA6/TPV-MAH blends: Effect of dispersed phase with different content, modulus. *Polymer*, **2007**, 48, 7404-7413	3.9	16
11	Double yielding in PA6: Effect of mold temperature and moisture content. *Journal of Polymer Science, Part B: Polymer Physics*, **2007**, 45, 1217-1225	2.6	8
10	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	2.9	19
9	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	4.5	34
8	Effect of crystallinity level on the double yielding behavior of polyamide 6. *Polymer Testing*, **2006**, 25, 452-459	4.5	23
7	Study on the melt flow behavior of glass bead filled polypropylene. *Polymer Testing*, **2005**, 24, 490-497	4.5	35
6	Essential work of fracture (EWF) analysis for polypropylene grafted with maleic anhydride modified polypropylene/calcium carbonate composites. *Polymer Testing*, **2005**, 24, 410-417	4.5	54
5	Double yielding behaviors of polyamide 6 and glass bead filled polyamide 6 composites. *Polymer Testing*, **2005**, 24, 704-711	4.5	30
4	Stress-induced crystallization of biaxially oriented polypropylene. *Journal of Applied Polymer Science*, **2003**, 89, 686-690	2.9	12

List of Publications

3	Leakage-Proof and Malleable Polyethylene Wax Vitrimer Phase Change Materials for Thermal Interface Management. *ACS Applied Energy Materials*,	6.1	4
2	A Wave-Driven Piezoelectric Solar Evaporator for Water Purification. *Advanced Energy Materials*,2200087	21.8	4
1	Exploring Next-Generation Functional Organic Phase Change Composites. *Advanced Functional Materials*,2200792	15.6	5