Wei Yang

List of Publications by Citations

251 papers	6,100 citations	39 h-index	66 g-index
260 ext. papers	7,545 ext. citations	5.8 avg, IF	6.2 L-index

#	Paper	IF	Citations
251	Review on auxetic materials. *Journal of Materials Science*, **2004**, 39, 3269-3279	4.3	332
250	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
249	Self-assembled high-strength hydroxyapatite/graphene oxide/chitosan composite hydrogel for bone tissue engineering. *Carbohydrate Polymers*, **2017**, 155, 507-515	10.3	168
248	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
247	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
246	Macroporous three-dimensional MXene architectures for highly efficient solar steam generation. *Journal of Materials Chemistry A*, **2019**, 7, 10446-10455	13	138
245	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
244	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
243	Flexible Anti-Biofouling MXene/Cellulose Fibrous Membrane for Sustainable Solar-Driven Water Purification. *ACS Applied Materials & Interfaces*, **2019**, 11, 36589-36597	9.5	106
242	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
241	Transcrystalline Morphology of an in situ Microfibrillar Poly(ethylene terephthalate)/Poly(propylene) Blend Fabricated through a Slit Extrusion Hot Stretching-Quenching Process. *Macromolecular Rapid Communications*, **2004**, 25, 553-558	4.8	102
240	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
239	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
238	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
237	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
236	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
235	Bamboo charcoal as a cost-effective catalyst for an air-cathode of microbial fuel cells. *Electrochimica Acta*, **2017**, 224, 585-592	6.7	73

234	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	17.1	71
233	Cryo-mediated exfoliation and fracturing of layered materials into 2D quantum dots. *Science Advances*, **2017**, 3, e1701500	14.3	70
232	Temperature induced gelation transition of a fumed silica/PEG shear thickening fluid. *RSC Advances* , **2015**, 5, 18367-18374	3.7	68
231	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
230	Recent progress in electrode fabrication for electrocatalytic hydrogen evolution reaction: A mini review. *Chemical Engineering Journal*, **2020**, 393, 124726	14.7	62
229	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
228	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
227	Morphology and nonisothermal crystallization of in situ microfibrillar poly(ethylene terephthalate)/polypropylene blend fabricated through slit-extrusion, hot-stretch quenching. *Journal of Polymer Science, Part B: Polymer Physics*, **2004**, 42, 374-385	2.6	60
226	Reversible Formation of g-C3N4 3D Hydrogels through Ionic Liquid Activation: Gelation Behavior and Room-Temperature Gas-Sensing Properties. *Advanced Functional Materials*, **2017**, 27, 1700653	15.6	59
225	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
224	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
223	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
222	The enhanced nucleating ability of carbon nanotube-supported β-nucleating agent in isotactic polypropylene. *Colloid and Polymer Science*, **2010**, 288, 681-688	2.4	50
221	2D TiS2 Layers: A Superior Nonlinear Optical Limiting Material. *Advanced Optical Materials*, **2017**, 5, 1700713	8.13	49
220	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
219	Deformation-induced morphology evolution during uniaxial stretching of isotactic polypropylene: effect of temperature. *Colloid and Polymer Science*, **2012**, 290, 261-274	2.4	46
218	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
217	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

216	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
215	Tannic acid functionalized graphene hydrogel for organic dye adsorption. *Ecotoxicology and Environmental Safety*, **2018**, 165, 299-306	7	41
214	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
213	Crystallization behavior of poly (vinylidene fluoride)/multi-walled carbon nanotubes nanocomposites. *Journal of Materials Science*, **2011**, 46, 1542-1550	4.3	39
212	Morphology-tensile behavior relationship in injection molded poly(ethylene terephthalate)/polyethylene and polycarbonate/polyethylene blends (I) Part I Skin-core Structure. *Journal of Materials Science*, **2004**, 39, 413-431	4.3	39
211	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	8.9	38
210	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
209	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
208	Morphology and Tensile Strength Prediction of in situ Microfibrillar Poly(ethylene terephthalate)/Polyethylene Blends Fabricated via Slit-Die Extrusion-Hot Stretching-Quenching. *Macromolecular Materials and Engineering*, **2004**, 289, 349-354	3.9	38
207	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
206	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
205	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
204	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
203	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
202	Hierarchically Porous PVA Aerogel for Leakage-Proof Phase Change Materials with Superior Energy Storage Capacity. *Energy & Fuels*, **2020**, 34, 2471-2479	4.1	34
201	Thermal properties and flame retardancy of polycarbonate/hydroxyapatite nanocomposite. *Journal of Applied Polymer Science*, **2008**, 109, 659-663	2.9	34
200	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
199	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

198	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	2.6	33
197	Essential Work of Fracture Parameters of in-situ Microfibrillar Poly(ethylene terephthalate)/Polyethylene Blend: Influences of Blend Composition. *Macromolecular Materials and Engineering*, **2004**, 289, 426-433	3.9	33
196	Effect of Melt and Mold Temperatures on the Solidification Behavior of HDPE during Gas-Assisted Injection Molding: An Enthalpy Transformation Approach. *Macromolecular Materials and Engineering*, **2009**, 294, 336-344	3.9	32
195	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
194	A simple method for preparing a binder-free paper-based air cathode for microbial fuel cells. *Bioresource Technology*, **2017**, 241, 325-331	11	30
193	A rheological study on temperature dependent microstructural changes of fumed silica gels in dodecane. *Soft Matter*, **2012**, 8, 10457	3.6	30
192	Simulation of phase-change heat transfer during cooling stage of gas-assisted injection molding of high-density polyethylene via enthalpy transformation approach. *Polymer Engineering and Science*, **2009**, 49, 1234-1242	2.3	30
191	Grafting polymerization of polylactic acid on the surface of nano-SiO2 and properties of PLA/PLA-grafted-SiO2 nanocomposites. *Journal of Applied Polymer Science*, **2013**, 129, 3019-3027	2.9	29
190	Rheological behavior comparison between PET/HDPE and PC/HDPE microfibrillar blends. *Polymer Engineering and Science*, **2005**, 45, 1231-1238	2.3	29
189	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	6.7	28
188	Morphology of gas-assisted and conventional injection molded polycarbonate/polyethylene blend. *Journal of Applied Polymer Science*, **2006**, 102, 3069-3077	2.9	28
187	Morphology Dependent Double Yielding in Injection Molded Polycarbonate/Polyethylene Blend. *Macromolecular Materials and Engineering*, **2004**, 289, 1004-1011	3.9	28
186	Biomass-Derived Carbon for Electrode Fabrication in Microbial Fuel Cells: A Review. *Industrial & Engineering Chemistry Research*, **2020**, 59, 6391-6404	3.9	27
185	Numerical prediction of phase-change heat conduction of injection-molded high density polyethylene thick-walled parts via the enthalpy transforming model with mushy zone. *Polymer Engineering and Science*, **2008**, 48, 1707-1717	2.3	27
184	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	4.3	27
183	Gas-assisted injection molded polypropylene: The skin-core structure. *Polymer Engineering and Science*, **2008**, 48, 976-986	2.3	27
182	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
181	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

180	Air Cathode Catalysts of Microbial Fuel Cell by Nitrogen-Doped Carbon Aerogels. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 3917-3924	8.3	26
179	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
178	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
177	Decoupling the Polymer Dynamics and the Nanoparticle Network Dynamics of Polymer Nanocomposites through Dielectric Spectroscopy and Rheology. *Macromolecules*, **2020**, 53, 302-311	5.5	24
176	Surface structure engineering for a bionic fiber-based sensor toward linear, tunable, and multifunctional sensing. *Materials Horizons*, **2020**, 7, 2450-2459	14.4	24
175	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
174	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	3.7	23
173	Morphology and mechanical property of high-density polyethylene parts prepared by gas-assisted injection molding. *Colloid and Polymer Science*, **2011**, 289, 1661-1671	2.4	23
172	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	3.1	22
171	Atomic Layered Titanium Sulfide Quantum Dots as Electrocatalysts for Enhanced Hydrogen Evolution Reaction. *Advanced Materials Interfaces*, **2018**, 5, 1700895	4.6	22
170	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	8.3	21
169	Suppressing phase coarsening in immiscible polymer blends using nano-silica particles located at the interface. *RSC Advances*, **2015**, 5, 74295-74303	3.7	21
168	Dynamic Rheological Behavior of HDPE/UHMWPE Blends. *Journal of Macromolecular Science - Physics*, **2011**, 50, 1249-1259	1.4	21
167	Metal-Organic-Framework-Derived Nanostructures as Multifaceted Electrodes in Metal-Sulfur Batteries. *Advanced Materials*, **2021**, 33, e2008784	24	21
166	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
165	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
164	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
163	Formation of various crystalline structures in a polypropylene/polycarbonate in situ microfibrillar blend during the melt second flow. *Physical Chemistry Chemical Physics*, **2016**, 18, 14030-9	3.6	19

162	Effect of graphene oxides on thermal degradation and crystallization behavior of poly(L-lactide). *RSC Advances*, **2014**, 4, 3443-3456	3.7	19
161	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
160	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
159	Effective dissolution of UHMWPE in HDPE improved by high temperature melting and subsequent shear. *Polymer Engineering and Science*, **2015**, 55, 270-276	2.3	18
158	The preparation, structures, and properties of poly(vinylidene fluoride)/multiwall carbon nanotubes nanocomposites. *Journal of Applied Polymer Science*, **2012**, 125, E592	2.9	18
157	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
156	Investigation on Tensile Deformation Behavior of Semi-Crystalline Polymers. *Journal of Macromolecular Science - Physics*, **2009**, 48, 799-811	1.4	17
155	Extraction of native collagen from limed bovine split wastes through improved pretreatment methods. *Journal of Chemical Technology and Biotechnology*, **2008**, 83, 1041-1048	3.5	17
154	Template-Free Self-Caging Nanochemistry for Large-Scale Synthesis of Sulfonated-Graphene@Sulfur Nanocage for Long-Life Lithium-Sulfur Batteries. *Advanced Functional Materials*, **2021**, 31, 2008652	15.6	17
153	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
152	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
151	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
150	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
149	Effect of Dispersion Condition of Calcium Carbonate on the Crystallization and Melting Behavior of Polypropylene/CaCO3 Nanocomposites. *Polymer-Plastics Technology and Engineering*, **2008**, 47, 490-495		16
148	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	2.9	16
147	Poison tolerance of non-precious catalyst towards oxygen reduction reaction. *International Journal of Hydrogen Energy*, **2018**, 43, 8474-8479	6.7	15
146	Formation and evolution of the carbon black network in polyethylene/carbon black composites: Rheology and conductivity properties. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	15
145	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

144	Crystallization and fracture behaviors of high-density polyethylene/linear low-density polyethylene blends: The influence of short-chain branching. *Journal of Applied Polymer Science*, **2013**, 129, 2103-2111	2.9	15
143	MWCNTs Supported N,N?-Dicyclohexyl-1,5-diamino-2,6-naphthalenedicarboxamide: A Novel β-Nucleating Agent for Polypropylene. *Journal of Macromolecular Science - Physics*, **2012**, 51, 2412-2427	1.4	15
142	Interfacial interaction of polyvinylidene fluoride/multiwalled carbon nanotubes nanocomposites: A rheological study. *Journal of Applied Polymer Science*, **2011**, 121, 3041-3046	2.9	15
141	A monolithic air cathode derived from bamboo for microbial fuel cells. *RSC Advances*, **2017**, 7, 28469-28475	3.7	14
140	Balanced strength and ductility improvement of in situ crosslinked polylactide/poly(ethylene terephthalate glycol) blends. *RSC Advances*, **2015**, 5, 34821-34830	3.7	14
139	Effect of chain entanglement on the melt-crystallization behavior of poly(l-lactide) acid. *Journal of Polymer Research*, **2016**, 23, 1	2.7	14
138	Thermal and rheological properties of polyethylene blends with bimodal molecular weight distribution. *Journal of Applied Polymer Science*, **2013**, 129, 2145-2151	2.9	14
137	Rheological behaviors and molecular weight distribution characteristics of bimodal high-density polyethylene. *Journal of Applied Polymer Science*, **2011**, 121, 1543-1549	2.9	14
136	Mechanical Properties and Morphology of LDPE/PP Blends. *Journal of Macromolecular Science - Physics*, **2007**, 46, 963-974	1.4	14
135	Redox-Mediated Artificial Non-Enzymatic Antioxidant MXene Nanoplatforms for Acute Kidney Injury Alleviation. *Advanced Science*, **2021**, 8, e2101498	13.6	14
134	Direct modification of polyketone resin for anion exchange membrane of alkaline fuel cells. *Journal of Colloid and Interface Science*, **2019**, 556, 420-431	9.3	13
133	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
132	Nanoparticle retarded shape relaxation of dispersed droplets in polymer blends: an understanding from the viewpoint of molecular movement. *RSC Advances*, **2014**, 4, 41059-41068	3.7	13
131	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	13
130	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	2.3	13
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128	A highly-deformable piezoresistive film composed of a network of carbon blacks and highly oriented lamellae of high-density polyethylene. *RSC Advances*, **2015**, 5, 31074-31080	3.7	12
127	Structure of fumed silica gels in dodecane: enhanced network by oscillatory shear. *Colloid and Polymer Science*, **2012**, 290, 151-161	2.4	12

126	Study on Amino-functionalized Graphene Oxide/Poly(methyl methacrylate) Nanocomposites. *Chemistry Letters*, **2012**, 41, 683-685	1.7	12
125	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
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123	Potential field□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	1.4	12
122	Progress in polyketone materials: blends and composites. *Polymer International*, **2018**, 67, 1478-1487	3.3	12
121	Enhancing crystallization rate and melt strength of PLLA with four-arm PLLA grafted silica: The effect of molecular weight of the grafting PLLA chains. *Journal of Applied Polymer Science*, **2018**, 135, 45675	2.9	11
120	Strong shear-driven large scale formation of hybrid shish-kebab in carbon nanofiber reinforced polyethylene composites during the melt second flow. *Physical Chemistry Chemical Physics*, **2016**, 18, 30452-30461	3.6	11
119	Hierarchically oriented crystalline structures of HDPE induced by strong second melt penetration. *RSC Advances*, **2014**, 4, 31960	3.7	11
118	Co-crystallization of Blends of High-density Polyethylene with Linear Low-density Polyethylene: An Investigation with Successive Self-nucleation and Annealing (SSA) Technique. *Journal of Macromolecular Science - Physics*, **2013**, 52, 1372-1387	1.4	11
117	Influence of molecular weight on impact fracture behavior of injection molded high density polyethylene: Scanning electron micrograph observations. *Journal of Applied Polymer Science*, **2008**, 109, 1161-1167	2.9	11
116	Essential work of fracture of glass bead filled low density polyethylene. *Journal of Materials Science* , **2005**, 40, 5323-5326	4.3	11
115	Green supercapacitor assisted photocatalytic fuel cell system for sustainable hydrogen production. *Chemical Engineering Journal*, **2021**, 403, 126368	14.7	11
114	Shear field in the mold cavity of multimelt multi-injection molding revealed by the morphology distribution of a model polymer blend. *Polymer Engineering and Science*, **2014**, 54, 2345-2353	2.3	10
113	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
112	Effect of temperature gradient on the development of □phase polypropylene in dynamically vulcanized PP/EPDM blends. *Colloid and Polymer Science*, **2009**, 287, 1237-1242	2.4	10
111	Effect of Processing Method on Morphological and Rheological Properties of PC/CaCO3 Nanocomposites. *Polymer-Plastics Technology and Engineering*, **2009**, 48, 788-793		10
110	A simple method for forecast of cooling time of high-density polyethylene during gas-assisted injection molding. *Journal of Applied Polymer Science*, **2010**, 117, 729-735	2.9	10
109	A novel approach in preparing polymer/nano-CaCO3 composites. *Frontiers of Chemical Engineering in China*, **2008**, 2, 115-122		10

108	Recent Advances in Multiresponsive Flexible Sensors towards E-skin: A Delicate Design for Versatile Sensing. *Small*, **2021**, e2103734	11	10
107	Nanoscale Morphology, Interfacial Hydrogen Bonding, Confined Crystallization and Greatly Improved Toughness of Polyamide 12/Polyketone Blends. *Nanomaterials*, **2018**, 8,	5.4	10
106	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
105	An unusual transition from point-like to fibrillar crystals in injection-molded polyethylene articles induced by lightly cross-linking and melt penetration. *RSC Advances*, **2015**, 5, 21640-21650	3.7	9
104	Chemically bonding BaTiO3 nanoparticles in highly filled polymer nanocomposites for greatly enhanced dielectric properties. *Journal of Materials Chemistry C*, **2020**, 8, 8786-8795	7.1	9
103	Effect of Viscosity Ratio on the Crystalline Morphologies and Mechanical Property of Multi-Melt Multi-Injection Molded Parts. *Polymer-Plastics Technology and Engineering*, **2014**, 53, 1272-1282		9
102	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
101	Structure and Properties of Radiation Cross-Linked Polypropylene Foam. *Polymer-Plastics Technology and Engineering*, **2011**, 50, 1027-1034		9
100	Simulation of Gas-Assisted Injection Molding of High-Density Polyethylene: The Role of Rheological Properties and Physical Fields on the Crystalline Morphology. *Journal of Macromolecular Science - Physics*, **2009**, 48, 1201-1211	1.4	9
99	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
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