Jia-Chun Feng

List of Publications by Citations

123 papers	4,987 citations	37 h-index	68 g-index
126 ext. papers	5,544 ext. citations	5.5 avg, IF	6.25 L-index

#	Paper	IF	Citations
123	Realizing ultrahigh modulus and high strength of macroscopic graphene oxide papers through crosslinking of mussel-inspired polymers. *Advanced Materials*, **2013**, 25, 2980-3	24	299
122	Influence of Shear on Crystallization Behavior of the Phase in Isotactic Polypropylene with Nucleating Agent. *Macromolecules*, **2004**, 37, 2478-2483	5.5	277
121	Preparation of organically dispersible graphene nanosheet powders through a lyophilization method and their poly(lactic acid) composites. *Carbon*, **2010**, 48, 3834-3839	10.4	249
120	Deposition of three-dimensional graphene aerogel on nickel foam as a binder-free supercapacitor electrode. *ACS Applied Materials & Interfaces*, **2013**, 5, 7122-9	9.5	238
119	Self-assembled three-dimensional hierarchical graphene/polypyrrole nanotube hybrid aerogel and its application for supercapacitors. *ACS Applied Materials & Interfaces*, **2014**, 6, 9671-9	9.5	199
118	Compatibilization of immiscible polymer blends using graphene oxide sheets. *ACS Nano*, **2011**, 5, 5920-7	16.7	199
117	Polydopamine as an efficient and robust platform to functionalize carbon fiber for high-performance polymer composites. *ACS Applied Materials & Interfaces*, **2014**, 6, 349-56	9.5	170
116	Core shell-like structured graphene aerogel encapsulating paraffin: shape-stable phase change material for thermal energy storage. *Journal of Materials Chemistry A*, **2015**, 3, 4018-4025	13	169
115	Graphene oxide sheets covalently functionalized with block copolymersvia click chemistry as reinforcing fillers. *Journal of Materials Chemistry*, **2011**, 21, 9271		150
114	Highly elastic graphene oxide poxy composite aerogels via simple freeze-drying and subsequent routine curing. *Journal of Materials Chemistry A*, **2013**, 1, 3495	13	133
113	Click chemistry as a route for the immobilization of well-defined polystyrene onto graphene sheets. *Journal of Materials Chemistry*, **2010**, 20, 5605		131
112	Graphene-Oxide-Sheet-Induced Gelation of Cellulose and Promoted Mechanical Properties of Composite Aerogels. *Journal of Physical Chemistry C*, **2012**, 116, 8063-8068	3.8	118
111	Hyperbranched Oxadiazole-Containing Polyfluorenes: Toward Stable Blue Light PLEDs. *Macromolecules*, **2005**, 38, 6755-6758	5.5	101
110	Alkyl-functionalized graphene nanosheets with improved lipophilicity. *Carbon*, **2010**, 48, 1683-1685	10.4	95
109	Effect of nucleating agents on crystallization and melting behavior of isotactic polypropylene. *Journal of Applied Polymer Science*, **2008**, 108, 3370-3379	2.9	87
108	Polypropylene-grafted graphene oxide sheets as multifunctional compatibilizers for polyolefin-based polymer blends. *Journal of Materials Chemistry*, **2012**, 22, 14997		85
107	White-Light-Emitting Polymer Composite Film Based on Carbon Dots and Lanthanide Complexes. *Journal of Physical Chemistry C*, **2015**, 119, 7865-7872	3.8	79

106	Real time synchrotron SAXS and WAXS investigations on temperature related deformation and transitions of β-PP with uniaxial stretching. *Polymer*, **2012**, 53, 1593-1601	3.9	78
105	A new strategy to prepare polymer composites with versatile shape memory properties. *Journal of Materials Chemistry*, **2012**, 22, 24776		70
104	Low-Density, Mechanical Compressible, Water-Induced Self-Recoverable Graphene Aerogels for Water Treatment. *ACS Applied Materials & Interfaces*, **2017**, 9, 22456-22464	9.5	66
103	Influence of a novel β-nucleating agent on the structure, morphology, and nonisothermal crystallization behavior of isotactic polypropylene. *Journal of Applied Polymer Science*, **2009**, 111, 1076-1085	2.9	66
102	Highly Thermally Conductive Composite Films Based on Nanofibrillated Cellulose in Situ Coated with a Small Amount of Silver Nanoparticles. *ACS Applied Materials & Interfaces*, **2018**, 10, 24193-24200	9.5	61
101	Difunctional olefin block copolymer/paraffin form-stable phase change materials with simultaneous shape memory property. *Solar Energy Materials and Solar Cells*, **2013**, 117, 259-266	6.4	60
100	Effect of small amount of ultra high molecular weight component on the crystallization behaviors of bimodal high density polyethylene. *Polymer*, **2008**, 49, 2964-2973	3.9	59
99	A New Strategy to Prepare Polymer-based Shape Memory Elastomers. *Macromolecular Rapid Communications*, **2011**, 32, 1569-75	4.8	53
98	Shear-Enhanced Crystallization in Impact-Resistant Polypropylene Copolymer: Influence of Compositional Heterogeneity and Phase Structure. *Macromolecules*, **2009**, 42, 7067-7078	5.5	53
97	3D printing of tunable shape memory polymer blends. *Journal of Materials Chemistry C*, **2017**, 5, 8361-8365	7.1	49
96	Systematic investigation on shape stability of high-efficiency SEBS/paraffin form-stable phase change materials. *Solar Energy Materials and Solar Cells*, **2013**, 118, 54-60	6.4	48
95	Influence of pre-shearing on the crystallization of an impact-resistant polypropylene copolymer. *Polymer*, **2009**, 50, 286-295	3.9	47
94	The effect of sonication treatment of graphene oxide on the mechanical properties of the assembled films. *RSC Advances*, **2016**, 6, 39681-39687	3.7	47
93	Preparation of Thermally Conductive Polymer Composites with Good Electromagnetic Interference Shielding Efficiency Based on Natural Wood-Derived Carbon Scaffolds. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 6259-6266	8.3	47
92	A new insight into the in situ thermal reduction of graphene oxide dispersed in a polymer matrix. *Polymer Chemistry*, **2013**, 4, 1765	4.9	46
91	Nonisothermal crystallization kinetics of ZnO nanorod filled polyamide 11 composites. *Materials Chemistry and Physics*, **2008**, 109, 547-555	4.4	46
90	Effects of La3+-containing additive on crystalline characteristics of isotactic polypropylene. *Polymer International*, **2003**, 52, 42-45	3.3	44
89	Exploring supramolecular self-assembly of a bisamide nucleating agent in polypropylene melt: The roles of hydrogen bond and molecular conformation. *Polymer*, **2016**, 93, 123-131	3.9	43

88	Decoration of graphene oxide sheets with luminescent rare-earth complexes. *Carbon*, **2011**, 49, 1502-1504	10.4	42
87	Epoxy laminated composites reinforced with polyethyleneimine functionalized carbon fiber fabric: Mechanical and thermal properties. *Composites Science and Technology*, **2014**, 101, 145-151	8.6	40
86	Hyperbranched triazine-containing polyfluorenes: Efficient blue emitters for polymer light-emitting diodes (PLEDs). *Polymer*, **2007**, 48, 1824-1829	3.9	36
85	Influence of oxygen plasma treatment on poly(ether sulphone) films. *Polymer Degradation and Stability*, **2006**, 91, 12-20	4.7	36
84	Achieving vertically aligned SiC microwires networks in a uniform cold environment for polymer composites with high through-plane thermal conductivity enhancement. *Composites Science and Technology*, **2019**, 170, 135-140	8.6	36
83	Promoting the dispersion of graphene and crystallization of poly (lactic acid) with a freezing-dried graphene/PEG masterbatch. *Composites Science and Technology*, **2017**, 144, 215-222	8.6	35
82	Exploring the Application of Sustainable Poly(propylene carbonate) Copolymer in Toughening Epoxy Thermosets. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 2077-2083	8.3	35
81	Cruciform π diblock conjugated oligomers for electroluminescent applications. *New Journal of Chemistry*, **2006**, 30, 667-670	3.6	33
80	Temperature-dependent compatibilizing effect of graphene oxide as a compatibilizer for immiscible polymer blends. *RSC Advances*, **2013**, 3, 7987	3.7	32
79	A Facile Strategy to Fabricate Multishape Memory Polymers with Controllable Mechanical Properties. *Macromolecular Rapid Communications*, **2016**, 37, 1262-7	4.8	32
78	Di-Channel Polyfluorene Containing Spiro-Bridged Oxadiazole Branches. *Macromolecular Rapid Communications*, **2005**, 26, 1729-1735	4.8	31
77	Investigation on the recovery performance of olefin block copolymer/hexadecane form stable phase change materials with shape memory properties. *Solar Energy Materials and Solar Cells*, **2015**, 132, 632-639	6.4	30
76	The Preparation of Compressible and Fire-Resistant Sponge-Supported Reduced Graphene Oxide Aerogel for Electromagnetic Interference Shielding. *Chemistry - an Asian Journal*, **2016**, 11, 2586-93	4.5	28
75	An attempt towards fabricating reduced graphene oxide composites with traditional polymer processing techniques by adding chemical reduction agents. *Composites Science and Technology*, **2017**, 140, 16-22	8.6	26
74	DSC and morphological studies on the crystallization behavior of β-nucleated isotactic polypropylene composites filled with Kevlar fibers. *Journal of Thermal Analysis and Calorimetry*, **2011**, 103, 339-345	4.1	26
73	Effects of mineral additives on the β-crystalline form of isotactic polypropylene. *Journal of Applied Polymer Science*, **2002**, 85, 1742-1748	2.9	26
72	Toughened polypropylene random copolymer with olefin block copolymer. *Materials and Design*, **2016**, 107, 295-301	8.1	25
71	Synergistic improvement of toughness of isotactic polypropylene: The introduction of high density polyethylene and annealing treatment. *Materials & Design*, **2013**, 49, 502-510		24

70	3D-Printable ABS Blends with Improved Scratch Resistance and Balanced Mechanical Performance. *Industrial & Engineering Chemistry Research*, **2018**, 57, 3923-3931	3.9	23
69	Temperature-dependent selective crystallization behavior of isotactic polypropylene with a β-nucleating agent. *Journal of Applied Polymer Science*, **2013**, 128, 628-635	2.9	23
68	Color Tuning Based on a Six-membered Chelated Iridium(III) Complex with Aza-aromatic Ligand. *Chemistry Letters*, **2005**, 34, 1668-1669	1.7	23
67	Synthesis and characterization of a main-chain-type conjugated copolymer containing rare earth with photocrosslinkable group. *Journal of Polymer Science Part A*, **2007**, 45, 388-394	2.5	22
66	Assessment of efficacy of trivalent lanthanum complex as surface modifier of calcium carbonate. *Journal of Applied Polymer Science*, **2001**, 82, 1339-1345	2.9	22
65	Towards three-dimensional, multi-functional graphene-based nanocomposite aerogels by hydrophobicity-driven absorption. *Journal of Materials Chemistry A*, **2014**, 2, 10365	13	21
64	A feasible route to balance the mechanical properties of epoxy thermosets by reinforcing a PCL-PPC-PCL toughened system with reduced graphene oxide. *Composites Science and Technology*, **2016**, 125, 108-113	8.6	20
63	Different crystallization behavior of olefin block copolymer in α- and β-polypropylene matrix. *Polymer*, **2013**, 54, 4719-4727	3.9	20
62	Mass-produced SEBS/graphite nanoplatelet composites with a segregated structure for highly stretchable and recyclable strain sensors. *Journal of Materials Chemistry C*, **2019**, 7, 9423-9429	7.1	19
61	Study on β-Nucleated Controlled-Rheological Polypropylene Random Copolymer: Crystallization Behavior and a Possible Degradation Mechanism. *Industrial & Engineering Chemistry Research*, **2013**, 52, 761-770	3.9	19
60	Skin-Inspired Multifunctional Luminescent Hydrogel Containing Layered Rare-Earth Hydroxide with 3D Printability for Human Motion Sensing. *ACS Applied Materials & Interfaces*, **2020**, 12, 6797-6805	9.5	18
59	Highly in-Plane Thermally Conductive Composite Films from Hexagonal Boron Nitride Microplatelets Assembled with Graphene Oxide. *ACS Applied Nano Materials*, **2018**, 1, 94-100	5.6	18
58	Simultaneously improving the toughness, flexural modulus and thermal performance of isotactic polypropylene by β-crystalline transition and inorganic whisker reinforcement. *Polymer Engineering and Science*, **2010**, 50, 222-231	2.3	18
57	Relaxation of shear-enhanced crystallization in impact-resistant polypropylene copolymer: Insight from morphological evolution upon thermal treatment. *Polymer*, **2010**, 51, 5267-5275	3.9	17
56	Synthesis and characterization of cross-shaped pβ diblock oligomers. *Journal of Polymer Science Part A*, **2007**, 45, 1066-1073	2.5	17
55	Fracture Mechanism and Toughness Optimization of Macroscopic Thick Graphene Oxide Film. *Scientific Reports*, **2015**, 5, 13102	4.9	16
54	Mussel-inspired gold hollow superparticles for photothermal therapy. *Advanced Healthcare Materials*, **2015**, 4, 1009-14	10.1	16
53	Facile fabrication of stretchable and compressible strain sensors by coating and integrating low-cost melamine foam scaffolds with reduced graphene oxide and poly (styrene-b-ethylene-butylene-b-styrene). *Chemical Engineering Journal*, **2020**, 398, 125429	14.7	15

52	Regulation of Physical Networks and Mechanical Properties of Triblock Thermoplastic Elastomer through Introduction of Midblock Similar Crystalline Polymer with Multiblock Architecture. *Macromolecules*, **2016**, 49, 7379-7386	5.5	15
51	The effect of structure evolution upon heat treatment on the beta-nucleating ability of calcium pimelate in isotactic polypropylene. *Polymer*, **2018**, 149, 55-64	3.9	15
50	Toward a More Comprehensive Understanding on the Structure Evolution and Assembly Formation of a Bisamide Nucleating Agent in Polypropylene Melt. *Macromolecules*, **2020**, 53, 4381-4394	5.5	14
49	Phase morphology evolution upon melt annealing treatment and corresponding mechanical performance of impact-resistant polypropylene copolymer. *Materials Chemistry and Physics*, **2012**, 133, 893-900	4.4	14
48	Annealing of melt-crystallized polyethylene and its influence on microstructure and mechanical properties: A comparative study on branched and linear polyethylenes. *Journal of Polymer Science, Part B: Polymer Physics*, **2011**, 49, 1347-1359	2.6	14
47	Effective tuning of HOMO and LUMO energy levels by p-n diblock and triblock oligomer approaches. *Journal of Organic Chemistry*, **2006**, 71, 2565-71	4.2	13
46	Form-stable phase change materials based on delignified wood flour for thermal management of buildings. *Composites Part A: Applied Science and Manufacturing*, **2020**, 129, 105690	8.4	13
45	Flexible and fire-resistant all-inorganic composite film with high in-plane thermal conductivity. *Chemical Engineering Journal*, **2020**, 398, 125633	14.7	12
44	Influence of nucleation on the brittle-ductile transition temperature of impact-resistant polypropylene copolymer: From the sight of phase morphology. *Journal of Applied Polymer Science*, **2012**, 123, 1784-1792	2.9	12
43	Deposition of Well-Defined Fluoropolymer Nanospheres on PET Substrate by Plasma Polymerization of Heptadecafluorodecyl Acrylate and Their Potential Application as a Protective Layer. *Plasma Processes and Polymers*, **2005**, 2, 127-135	3.4	11
42	Flow-Induced Enhancement of in Situ Thermal Reduction of Graphene Oxide during the Melt-Processing of Polymer Nanocomposites. *Journal of Physical Chemistry C*, **2014**, 118, 25718-25724	3.8	10
41	Synthesis of fluorocarbon-modified poly(acrylic acid) in supercritical carbon dioxide. *Polymer*, **2002**, 43, 6357-6361	3.9	10
40	Regulation of crystalline morphologies and mechanical properties of olefin multiblock copolymers by blending polymer with similar architecture of constituent blocks. *Polymer*, **2015**, 73, 139-148	3.9	9
39	Further understanding on the three domains of isotactic polypropylene by investigating the crystalline morphologies evolution after treatment at different domains. *Chinese Journal of Polymer Science (English Edition)*, **2016**, 34, 344-358	3.5	9
38	Synergistic Toughening Effect of Olefin Block Copolymer and Highly Effective β-Nucleating Agent on the Low-Temperature Toughness of Polypropylene Random Copolymer. *Industrial & Engineering Chemistry Research*, **2017**, 56, 5277-5283	3.9	8
37	Formation of banded spherulites and the temperature dependence of the band space in olefin block copolymer. *RSC Advances*, **2015**, 5, 43155-43163	3.7	8
36	Novel oligomers based on fluorene and 2,4-difluorobenzene: Correlation between the structures and optical properties. *Journal of Polymer Science Part A*, **2006**, 44, 4346-4353	2.5	8
35	New pΠ diblock and triblock oligomers: effective tuning of HOMO/LUMO energy levels. *Tetrahedron Letters*, **2006**, 47, 2829-2833	2	8

34	Graphene-Based Films with Integrated Strength and Toughness via a Novel Two-Step Method Combining Gel Casting and Surface Crosslinking. *ChemNanoMat*, **2016**, 2, 816-821	3.5	8
33	Poly(MMA-co-FMA) as a platform for tuning emission by clicking with luminescent lanthanide complexes. *Journal of Materials Chemistry C*, **2018**, 6, 10202-10206	7.1	8
32	Relaxation behavior of shear-induced crystallization precursors in isotactic polypropylene containing sorbitol-based nucleating agents with different nucleating abilities. *Physical Chemistry Chemical Physics*, **2016**, 18, 8926-37	3.6	7
31	The probable influence of in situ thermal reduction of graphene oxides on the crystallization behavior of isotactic polypropylene. *Polymer*, **2014**, 55, 4341-4347	3.9	7
30	Tuning the crystalline and mesophase structure of olefin block copolymer through self-nucleation and annealing treatments. *Physical Chemistry Chemical Physics*, **2015**, 17, 16158-69	3.6	7
29	Two novel oligomers based on fluorene and pyridine: Correlation between the structures and optoelectronic properties. *Journal of Polymer Science Part A*, **2008**, 46, 1548-1558	2.5	7
28	Preparation of Lanthanide-Polymer Composite Material via Click Chemistry. *Macromolecular Rapid Communications*, **2015**, 36, 1836-40	4.8	6
27	Unexpected Improvement of Both Mechanical Strength and Elasticity of EPDM/PP Thermoplastic Vulcanizates by Introducing Nucleating Agents. *Macromolecules*, **2021**, 54, 2835-2843	5.5	5
26	Investigating the Nucleation Effect of DMDBS on Syndiotactic Polypropylene from the Perspective of Chain Conformation. *Chinese Journal of Polymer Science (English Edition)*, **2020**, 38, 1355-1364	3.5	4
25	Exploring the crystallization-induced mesophase evolution in an olefin block copolymer through a rationally designed two-step isothermal crystallization strategy. *CrystEngComm*, **2016**, 18, 1532-1542	3.3	4
24	Nanostructured ultra-low- porous fluoropolymer composite films via plasma co-polymerization of hydrophobic and hydrophilic monomers and subsequent hydrolysis treatment. *European Polymer Journal*, **2007**, 43, 3773-3779	5.2	4
23	A novel fluorene-containing oligomer with relative high photoluminescence quantum efficiency. *Journal of Fluorine Chemistry*, **2006**, 127, 973-976	2.1	4
22	Graft and characterization of 9-vinylcarbazole conjugated molecule on hydrogen-terminated silicon surface. *Applied Surface Science*, **2006**, 253, 1534-1539	6.7	4
21	Water-responsive actuators based on the solution casted PVA/epoxidized-SBS two-way shape memory bilayer composite film. *Journal of Materials Chemistry C*, **2020**, 8, 14826-14833	7.1	4
20	Structure evolution upon heating and cooling and its effects on nucleation performance: A review on aromatic amide nucleating agents for isotactic polypropylene. *Polymer Crystallization*, **2019**, 2, e10049	0.9	3
19	Nonreversible Enhanced Crystallization of Olefin Block Copolymer Induced by Preshearing. *Industrial & Engineering Chemistry Research*, **2016**, 55, 3782-3789	3.9	3
18	Covalent integration of luminescent Eu (III) complex onto composite conductors or semiconducting substrates by grafting with organosilane. *Thin Solid Films*, **2008**, 517, 469-473	2.2	3
17	Thermorheological evidence and structure of heterogeneity in syndiotactic polypropylene melts with strong memory effects. *Polymer*, **2021**, 218, 123484	3.9	3

16	Comparative investigation on crystallization conditions dependence of polymorphs composition for β-nucleated propylene/ethylene copolymer and propylene homopolymer. *Journal of Applied Polymer Science*, **2010**, 117, n/a-n/a	2.9	2
15	Synergistic enhanced thermal conductivity of polydimethylsiloxane composites via introducing SCF and hetero-structured GB@rGO hybrid fillers. *Advanced Composites and Hybrid Materials*,1	8.7	2
14	Fabricating dual-responsive shape memory PVA-based composites via reactive melt-mixing by skillfully utilizing excellent flowability and crosslinking heat of polyethylene. *Polymer*, **2018**, 146, 267-274	3.9	2
13	Intermediate states in the melting process of low molecular weight poly(ethylene oxide). *Applied Spectroscopy*, **2009**, 63, 1303-7	3.1	1
12	Effective Tuning of HOMO and LUMO Energy Levels by pâ Diblock and Triblock Oligomer Approaches.. *Journal of Organic Chemistry*, **2006**, 71, 7124-7124	4.2	1
11	Comparative Investigation on Step-cycle Tensile Behaviors of Two Bimodal Pipe-grade Polyethylene with Different Slow Crack Growth Resistance. *Chinese Journal of Polymer Science (English Edition)*, **2020**, 38, 611-619	3.5	1
10	Concentration Effect of a Bis-amide Nucleating Agent on the Shear-Induced Crystallization Behavior of Isotactic Polypropylene. *ACS Applied Polymer Materials*, **2021**, 3, 1145-1156	4.3	1
9	Comparison of the melt memory effects in matched fractions segregated from Ziegler-Natta and metallocene-made isotactic polypropylene with similar total defect content. *Polymer*, **2021**, 230, 124060	3.9	1
8	Constitutive expression of NtabSPL6-1 in tobacco and Arabidopsis could change the structure of leaves and promote the development of trichomes. *Journal of Plant Physiology*, **2019**, 240, 152991	3.6	0
7	Microstructure evolution during cooling and reheating of the physical gel composed of SEBS copolymer and crystallizable paraffin. *Polymer*, **2022**, 239, 124442	3.9	0
6	Non-Negligible Effect of Additives in the Application of Successive Self-Nucleation and Annealing Fractionation for Microstructure Characterization of Matrix Resin in Additive-Containing Samples. *ACS Applied Polymer Materials*, **2021**, 3, 4634-4644	4.3	0
5	Hydrochar as an environment-friendly additive to improve the performance of biodegradable plastics.. *Science of the Total Environment*, **2022**, 155124	10.2	0
4	A multifunctional luminescent europium photostabilizer based on a novel hindered amine ligand and phenanthroline. *Journal of Applied Polymer Science*, **2013**, 130, 1399-1405	2.9	
3	The effect of β-nucleating agent on the self-nucleation of isotactic polypropylene. *Polymer*, **2021**, 229, 124009	3.9	
2	Acrylonitrile-Styrene-Acrylate Particles with Different Microstructure for Improving the Toughness of Poly(styrene-co-acrylonitrile) Resin. *Advances in Polymer Technology*, **2021**, 2021, 1-13	1.9	
1	Nucleation Efficiencies of Calcium Hexahydrophthalic Acid for Poly(ε-caprolactone) Crystallization. *ACS Applied Polymer Materials*, **2022**, 4, 627-634	4.3	