

# Yanfei Huang

## List of Publications by Year in descending order

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84  
papers

6,529  
citations

76326

40  
h-index

64796

79  
g-index

85  
all docs

85  
docs citations

85  
times ranked

5245  
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient electromagnetic interference shielding of flexible Ag microfiber sponge/polydimethylsiloxane composite constructed by blow spinning. <i>Composites Science and Technology</i> , 2022, 220, 109281.	7.8	13
2	Enhanced Dielectric and Ferroelectric Properties of Poly(vinylidene fluoride) through Annealing Oriented Crystallites under High Pressure. <i>Macromolecules</i> , 2022, 55, 2014-2027.	4.8	42
3	Flexible and Water-proof nylon mesh with ultralow silver content for effective electromagnetic interference shielding effectiveness. <i>Chemical Engineering Journal</i> , 2022, 439, 135662.	12.7	8
4	A thin and high-strength composite polymer solid-state electrolyte with a highly efficient and uniform ion-transport network. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14344-14351.	10.3	29
5	Enhanced piezoelectricity from highly polarizable oriented amorphous fractions in biaxially oriented poly(vinylidene fluoride) with pure $P_2$ crystals. <i>Nature Communications</i> , 2021, 12, 675.	12.8	85
6	Insight into the Synergistic Effect of N, S Co-doping for Carbon Coating Layer on Niobium Oxide Anodes with Ultra-long Life. <i>Advanced Functional Materials</i> , 2021, 31, 2100311.	14.9	82
7	Superhydrophobic, Self-Cleaning, and Robust Properties of Oriented Polylactide Imparted by Surface Structuring. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 6296-6304.	6.7	21
8	Coupling effect of pressure and flow fields on the crystallization of Poly(vinylidene fluoride) (PVDF) for enhanced piezoelectricity. <i>Journal of Applied Polymer Science</i> , 2021, 164, 51453.	3.8	13
9	A Healable and Mechanically Enhanced Composite with Segregated Conductive Network Structure for High-Efficient Electromagnetic Interference Shielding. <i>Nano-Micro Letters</i> , 2021, 13, 162.	27.0	62
10	Stable Interface Chemistry and Multiple Ion Transport of Composite Electrolyte Contribute to Ultra-long Cycling Solid-state $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ /Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2021, 133, 24873-24880.	2.0	6
11	Stable Interface Chemistry and Multiple Ion Transport of Composite Electrolyte Contribute to Ultra-long Cycling Solid-state $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ /Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24668-24675.	13.8	124
12	Three-dimensional alloy interface between $\text{Li}_6\text{La}_3\text{Zr}_1\text{Ta}_0\text{O}_{12}$ and Li metal to achieve excellent cycling stability of all-solid-state battery. <i>Journal of Power Sources</i> , 2021, 505, 230062.	7.8	42
13	Carbonized cotton textile with hierarchical structure for superhydrophobicity and efficient electromagnetic interference shielding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 149, 106555.	7.6	28
14	A wearable multifunctional fabric with excellent electromagnetic interference shielding and passive radiation heating performance. <i>Composites Part B: Engineering</i> , 2021, 225, 109299.	12.0	44
15	Giant spontaneous polarization for enhanced ferroelectric properties of biaxially oriented poly(vinylidene fluoride) by mobile oriented amorphous fractions. <i>Journal of Materials Chemistry C</i> , 2021, 9, 894-907.	5.5	40
16	A relaxor ferroelectric polymer with an ultrahigh dielectric constant largely promotes the dissociation of lithium salts to achieve high ionic conductivity. <i>Energy and Environmental Science</i> , 2021, 14, 6021-6029.	30.8	115
17	Water-based conductive ink for highly efficient electromagnetic interference shielding coating. <i>Chemical Engineering Journal</i> , 2020, 384, 123368.	12.7	86
18	Highly thermal conductive, anisotropically heat-transferred, mechanically flexible composite film by assembly of boron nitride nanosheets for thermal management. <i>Composites Part B: Engineering</i> , 2020, 180, 107569.	12.0	114

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19	Stretchable Liquid Metal-Based Conductive Textile for Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 2020, 12, 53230-53238.	8.0	85
20	Tuning wettability and mechanical property of polylactide composite films with in-situ nanofibrils of poly(butylene adipate-co-terephthalate). Composites Communications, 2020, 22, 100515.	6.3	12
21	Progress and Perspective of All-Solid-State Lithium Batteries with High Performance at Room Temperature. Energy & Fuels, 2020, 34, 13456-13472.	5.1	44
22	Integrated Structure of Cathode and Double-Layer Electrolyte for Highly Stable and Dendrite-Free All-Solid-State Li-Metal Batteries. ACS Applied Materials & Interfaces, 2020, 12, 56995-57002.	8.0	32
23	Effects of Rigid Amorphous Fraction and Lamellar Crystal Orientation on Electrical Insulation of Poly(ethylene terephthalate) Films. Macromolecules, 2020, 53, 3967-3977.	4.8	34
24	Injection molding of segregated carbon nanotube/polypropylene composite with enhanced electromagnetic interference shielding and mechanical performance. Composites Science and Technology, 2020, 197, 108253.	7.8	62
25	Superior and highly absorbed electromagnetic interference shielding performance achieved by designing the reflection-absorption-integrated shielding compartment with conductive wall and lossy core. Chemical Engineering Journal, 2020, 393, 124644.	12.7	87
26	Facile Construction of a Superhydrophobic Surface on a Textile with Excellent Electrical Conductivity and Stretchability. Industrial & Engineering Chemistry Research, 2020, 59, 7546-7553.	3.7	25
27	Structuring Hierarchically Porous Architecture in Biomass-Derived Carbon Aerogels for Simultaneously Achieving High Electromagnetic Interference Shielding Effectiveness and High Absorption Coefficient. ACS Applied Materials & Interfaces, 2020, 12, 18840-18849.	8.0	102
28	Lightweight and Robust Carbon Nanotube/Polyimide Foam for Efficient and Heat-Resistant Electromagnetic Interference Shielding and Microwave Absorption. ACS Applied Materials & Interfaces, 2020, 12, 8704-8712.	8.0	227
29	Asymmetric conductive polymer composite foam for absorption dominated ultra-efficient electromagnetic interference shielding with extremely low reflection characteristics. Journal of Materials Chemistry A, 2020, 8, 9146-9159.	10.3	196
30	In-situ Construction of an Ultra-Stable Conductive Composite Interface for High-Voltage All-Solid-State Lithium Metal Batteries. Angewandte Chemie, 2020, 132, 11882-11886.	2.0	25
31	In-situ Construction of an Ultra-Stable Conductive Composite Interface for High-Voltage All-Solid-State Lithium Metal Batteries. Angewandte Chemie - International Edition, 2020, 59, 11784-11788.	13.8	126
32	Progress and Perspective of Constructing Solid Electrolyte Interphase on Stable Lithium Metal Anode. Frontiers in Materials, 2020, 7, .	2.4	13
33	High thermal conductivity of chain-aligned bulk linear ultra-high molecular weight polyethylene. Journal of Applied Physics, 2019, 125, .	2.5	15
34	Mesophase Structure-Enabled Electrostrictive Property in Nylon-Based Poly(ether-block-amide) Copolymers. Macromolecular Materials and Engineering, 2019, 304, 1900330.	3.6	10
35	Highly thermally conductive and mechanically robust composite of linear ultrahigh molecular weight polyethylene and boron nitride via constructing nacre-like structure. Composites Science and Technology, 2019, 184, 107858.	7.8	42
36	Surface Epitaxial Crystallization-Directed Nanotopography for Accelerating Preosteoblast Proliferation and Osteogenic Differentiation. ACS Applied Materials & Interfaces, 2019, 11, 42956-42963.	8.0	12

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37	Capacity Loss Mechanism of the Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Microsphere Anode of Lithium-Ion Batteries at High Temperature and Rate Cycling Conditions. ACS Applied Materials & Interfaces, 2019, 11, 37357-37364.	8.0	29
38	Achieving high thermal conductivity and mechanical reinforcement in ultrahigh molecular weight polyethylene bulk material. Polymer, 2019, 180, 121760.	3.8	25
39	Nacre-like composite films with high thermal conductivity, flexibility, and solvent stability for thermal management applications. Journal of Materials Chemistry C, 2019, 7, 9018-9024.	5.5	79
40	An efficient, food contact accelerator for stereocomplexation of high-molecular-weight poly( ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	3.8	29
41	Highly Conductive and Machine-Washable Textiles for Efficient Electromagnetic Interference Shielding. Advanced Materials Technologies, 2019, 4, 1800503.	5.8	101
42	Understanding reversible Maxwellian electroactuation in a 3M VHB dielectric elastomer with prestrain. Polymer, 2018, 144, 150-158.	3.8	24
43	Synergetic enhancement of thermal conductivity by constructing hybrid conductive network in the segregated polymer composites. Composites Science and Technology, 2018, 162, 7-13.	7.8	141
44	The Role of Melt Memory and Template Effect in Complete Stereocomplex Crystallization and Phase Morphology of Polylactides. Crystal Growth and Design, 2018, 18, 1613-1621.	3.0	32
45	Toward biomimetic porous poly( $\epsilon$ -caprolactone) scaffolds: Structural evolution and morphological control during solid phase extrusion. Composites Science and Technology, 2018, 156, 192-202.	7.8	19
46	Enhanced thermal conductivity of polyethylene/boron nitride multilayer sheets through annealing. Composites Part A: Applied Science and Manufacturing, 2018, 107, 135-143.	7.6	62
47	Constructing highly oriented segregated structure towards high-strength carbon nanotube/ultrahigh-molecular-weight polyethylene composites for electromagnetic interference shielding. Composites Part A: Applied Science and Manufacturing, 2018, 110, 237-245.	7.6	93
48	Highly Efficient and Reliable Transparent Electromagnetic Interference Shielding Film. ACS Applied Materials & Interfaces, 2018, 10, 11941-11949.	8.0	245
49	Bone-like Polymeric Composites with a Combination of Bioactive Glass and Hydroxyapatite: Simultaneous Enhancement of Mechanical Performance and Bioactivity. ACS Biomaterials Science and Engineering, 2018, 4, 4434-4442.	5.2	10
50	Oriented Polar Crystals in Poly(Vinylidene Fluoride) Produced by Simultaneously Applying Pressure and Flow. Macromolecular Chemistry and Physics, 2018, 219, 1800299.	2.2	6
51	Highly Anisotropic, Thermally Conductive, and Mechanically Strong Polymer Composites with Nacre-like Structure for Thermal Management Applications. ACS Applied Nano Materials, 2018, 1, 3312-3320.	5.0	48
52	Enhanced Thermal Conductivity of Segregated Poly(vinylidene fluoride) Composites via Forming Hybrid Conductive Network of Boron Nitride and Carbon Nanotubes. Industrial & Engineering Chemistry Research, 2018, 57, 10391-10397.	3.7	58
53	Can Relaxor Ferroelectric Behavior Be Realized for Poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 107 Td (fluoride-<i>op	4.8	38
54	Melt processing and structural manipulation of highly linear disentangled ultrahigh molecular weight polyethylene. Chemical Engineering Journal, 2017, 315, 132-141.	12.7	37

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55	High Strain Tolerant EMI Shielding Using Carbon Nanotube Network Stabilized Rubber Composite. <i>Advanced Materials Technologies</i> , 2017, 2, 1700078.	5.8	153
56	Window of Pressure and Flow To Produce $\beta$ -Crystals in Isotactic Polypropylene Mixed with $\beta$ -Nucleating Agent. <i>Macromolecules</i> , 2017, 50, 4807-4816.	4.8	47
57	Enhanced Heat Deflection Resistance via Shear Flow-Induced Stereocomplex Crystallization of Polylactide Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 1692-1703.	6.7	74
58	Advances in Enhancing Mechanical Performance of Ultrahigh Molecular Weight Polyethylene Used for Total Joint Replacement. <i>ACS Symposium Series</i> , 2017, , 273-294.	0.5	3
59	A Criterion for Flow-Induced Oriented Crystals in Isotactic Polypropylene under Pressure. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700407.	3.9	12
60	Simultaneous reinforcement and toughening of polymer/hydroxyapatite composites by constructing bone-like structure. <i>Composites Science and Technology</i> , 2017, 151, 234-242.	7.8	31
61	Dominant $\beta$ -Form of Poly( <i>l</i> -lactic acid) Obtained Directly from Melt under Shear and Pressure Fields. <i>Macromolecules</i> , 2016, 49, 3826-3837.	4.8	73
62	Inducing Stereocomplex Crystals by Template Effect of Residual Stereocomplex Crystals during Thermal Annealing of Injection-Molded Polylactide. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 10896-10905.	3.7	28
63	High-Pressure Compression-Molded Porous Resorbable Polymer/Hydroxyapatite Composite Scaffold for Cranial Bone Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1471-1482.	5.2	60
64	Preferential formation of stereocomplex in high-molecular-weight polylactic acid racemic blend induced by carbon nanotubes. <i>Polymer</i> , 2016, 105, 167-171.	3.8	39
65	Formation of a Segregated Electrically Conductive Network Structure in a Low-Melt-Viscosity Polymer for Highly Efficient Electromagnetic Interference Shielding. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4137-4145.	6.7	123
66	Simultaneously improving wear resistance and mechanical performance of ultrahigh molecular weight polyethylene via cross-linking and structural manipulation. <i>Polymer</i> , 2016, 90, 222-231.	3.8	24
67	Understanding Nonlinear Dielectric Properties in a Biaxially Oriented Poly(vinylidene fluoride) Film at Both Low and High Electric Fields. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 455-465.	8.0	46
68	Highly Enhanced Crystallization Kinetics of Poly( <i>l</i> -lactic acid) by Poly(ethylene glycol) Grafted Graphene Oxide Simultaneously as Heterogeneous Nucleation Agent and Chain Mobility Promoter. <i>Macromolecules</i> , 2015, 48, 4891-4900.	4.8	93
69	Electrically conductive and electromagnetic interference shielding of polyethylene composites with devisable carbon nanotube networks. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9369-9378.	5.5	227
70	Role of Stably Entangled Chain Network Density in Shish-Kebab Formation in Polyethylene under an Intense Flow Field. <i>Macromolecules</i> , 2015, 48, 6652-6661.	4.8	57
71	Injection-molded hydroxyapatite/polyethylene bone-analogue biocomposites via structure manipulation. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7585-7593.	5.8	11
72	Polymorphic Extended-Chain and Folded-Chain Crystals in Poly(vinylidene fluoride) Achieved by Combination of High Pressure and Ion-Dipole Interaction. <i>Macromolecules</i> , 2015, 48, 8565-8573.	4.8	48

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73	Structured Reduced Graphene Oxide/Polymer Composites for Ultra-efficient Electromagnetic Interference Shielding. <i>Advanced Functional Materials</i> , 2015, 25, 559-566.	14.9	1,007
74	Low-dimensional carbonaceous nanofiller induced polymer crystallization. <i>Progress in Polymer Science</i> , 2014, 39, 555-593.	24.7	140
75	Self-reinforced polyethylene blend for artificial joint application. <i>Journal of Materials Chemistry B</i> , 2014, 2, 971.	5.8	35
76	Improved performance balance of polyethylene by simultaneously forming oriented crystals and blending ultrahigh-molecular-weight polyethylene. <i>RSC Advances</i> , 2014, 4, 1512-1520.	3.6	35
77	Conductive polymer composites with segregated structures. <i>Progress in Polymer Science</i> , 2014, 39, 1908-1933.	24.7	617
78	Structural Basis for Unique Hierarchical Cylindrites Induced by Ultrahigh Shear Gradient in Single Natural Fiber Reinforced Poly(lactic acid) Green Composites. <i>Biomacromolecules</i> , 2014, 15, 1676-1686.	5.4	57
79	Mechanical properties and biocompatibility of melt processed, self-reinforced ultrahigh molecular weight polyethylene. <i>Biomaterials</i> , 2014, 35, 6687-6697.	11.4	69
80	Efficient Utilization of Atactic Polypropylene in Its Isotactic Polypropylene Blends via "Structuring" Processing. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 10144-10154.	3.7	16
81	Role of Ion-Dipole Interactions in Nucleation of Gamma Poly(vinylidene fluoride) in the Presence of Graphene Oxide during Melt Crystallization. <i>Journal of Physical Chemistry B</i> , 2012, 116, 14951-14960.	2.6	64
82	Formation of Interlinked Shish-Kebabs in Injection-Molded Polyethylene under the Coexistence of Lightly Cross-Linked Chain Network and Oscillation Shear Flow. <i>Macromolecules</i> , 2012, 45, 6600-6610.	4.8	130
83	Conductive network formation during annealing of an oriented polyethylene-based composite. <i>Journal of Materials Science</i> , 2012, 47, 3713-3719.	3.7	21
84	The Resistivity Response of an Anisotropically Conductive Polymer Composite with in-situ Conductive Microfibrils During Cooling. <i>Polymer-Plastics Technology and Engineering</i> , 2011, 50, 1511-1514.	1.9	10