

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	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
2	Conductive polymer composites with segregated structures. <i>Progress in Polymer Science</i> , 2014, 39, 1908-1933.	24.7	617
3	Highly Efficient and Reliable Transparent Electromagnetic Interference Shielding Film. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11941-11949.	8.0	245
4	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
5	Lightweight and Robust Carbon Nanotube/Polyimide Foam for Efficient and Heat-Resistant Electromagnetic Interference Shielding and Microwave Absorption. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 8704-8712.	8.0	227
6	Asymmetric conductive polymer composite foam for absorption dominated ultra-efficient electromagnetic interference shielding with extremely low reflection characteristics. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9146-9159.	10.3	196
7	High Strain Tolerant EMI Shielding Using Carbon Nanotube Network Stabilized Rubber Composite. <i>Advanced Materials Technologies</i> , 2017, 2, 1700078.	5.8	153
8	Synergetic enhancement of thermal conductivity by constructing hybrid conductive network in the segregated polymer composites. <i>Composites Science and Technology</i> , 2018, 162, 7-13.	7.8	141
9	Low-dimensional carbonaceous nanofiller induced polymer crystallization. <i>Progress in Polymer Science</i> , 2014, 39, 555-593.	24.7	140
10	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
11	In-situ Construction of an Ultra-stable Conductive Composite Interface for High-voltage All-solid-state Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11784-11788.	13.8	126
12	Stable Interface Chemistry and Multiple Ion Transport of Composite Electrolyte Contribute to Ultra-long Cycling Solid-state LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ /Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24668-24675.	13.8	124
13	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
14	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
15	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
16	Structuring Hierarchically Porous Architecture in Biomass-Derived Carbon Aerogels for Simultaneously Achieving High Electromagnetic Interference Shielding Effectiveness and High Absorption Coefficient. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18840-18849.	8.0	102
17	Highly Conductive and Machine-washable Textiles for Efficient Electromagnetic Interference Shielding. <i>Advanced Materials Technologies</i> , 2019, 4, 1800503.	5.8	101
18	Highly Enhanced Crystallization Kinetics of Poly(L-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

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19	Constructing highly oriented segregated structure towards high-strength carbon nanotube/ultrahigh-molecular-weight polyethylene composites for electromagnetic interference shielding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 110, 237-245.	7.6	93
20	Superior and highly absorbed electromagnetic interference shielding performance achieved by designing the reflection-absorption-integrated shielding compartment with conductive wall and lossy core. <i>Chemical Engineering Journal</i> , 2020, 393, 124644.	12.7	87
21	Water-based conductive ink for highly efficient electromagnetic interference shielding coating. <i>Chemical Engineering Journal</i> , 2020, 384, 123368.	12.7	86
22	Stretchable Liquid Metal-Based Conductive Textile for Electromagnetic Interference Shielding. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53230-53238.	8.0	85
23	Enhanced piezoelectricity from highly polarizable oriented amorphous fractions in biaxially oriented poly(vinylidene fluoride) with pure β^2 crystals. <i>Nature Communications</i> , 2021, 12, 675.	12.8	85
24	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
25	Nacre-like composite films with high thermal conductivity, flexibility, and solvent stability for thermal management applications. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9018-9024.	5.5	79
26	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
27	Dominant β^2 -Form of Poly(l-lactic acid) Obtained Directly from Melt under Shear and Pressure Fields. <i>Macromolecules</i> , 2016, 49, 3826-3837.	4.8	73
28	Mechanical properties and biocompatibility of melt processed, self-reinforced ultrahigh molecular weight polyethylene. <i>Biomaterials</i> , 2014, 35, 6687-6697.	11.4	69
29	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
30	Enhanced thermal conductivity of polyethylene/boron nitride multilayer sheets through annealing. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 107, 135-143.	7.6	62
31	Injection molding of segregated carbon nanotube/polypropylene composite with enhanced electromagnetic interference shielding and mechanical performance. <i>Composites Science and Technology</i> , 2020, 197, 108253.	7.8	62
32	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
33	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
34	Enhanced Thermal Conductivity of Segregated Poly(vinylidene fluoride) Composites via Forming Hybrid Conductive Network of Boron Nitride and Carbon Nanotubes. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 10391-10397.	3.7	58
35	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
36	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

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37	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
38	Highly Anisotropic, Thermally Conductive, and Mechanically Strong Polymer Composites with Nacre-like Structure for Thermal Management Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 3312-3320.	5.0	48
39	Window of Pressure and Flow To Produce β -Crystals in Isotactic Polypropylene Mixed with β -Nucleating Agent. <i>Macromolecules</i> , 2017, 50, 4807-4816.	4.8	47
40	Understanding Nonlinear Dielectric Properties in a Biaxially Oriented Poly(vinylidene fluoride) Film at Both Low and High Electric Fields. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 455-465.	8.0	46
41	Progress and Perspective of All-Solid-State Lithium Batteries with High Performance at Room Temperature. <i>Energy & Fuels</i> , 2020, 34, 13456-13472.	5.1	44
42	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
43	Highly thermally conductive and mechanically robust composite of linear ultrahigh molecular weight polyethylene and boron nitride via constructing nacre-like structure. <i>Composites Science and Technology</i> , 2019, 184, 107858.	7.8	42
44	Three-dimensional alloy interface between $\text{Li}_6.4\text{La}_3\text{Zr}_{1.4}\text{Ta}_{0.6}\text{O}_{12}$ 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
45	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
46	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
47	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
48	Can Relaxor Ferroelectric Behavior Be Realized for Poly(vinylidene fluoride) Units in PVDF Crystals?. <i>Macromolecules</i> , 2018, 51, 5460-5472.	4.8	38
49	Melt processing and structural manipulation of highly linear disentangled ultrahigh molecular weight polyethylene. <i>Chemical Engineering Journal</i> , 2017, 315, 132-141.	12.7	37
50	Self-reinforced polyethylene blend for artificial joint application. <i>Journal of Materials Chemistry B</i> , 2014, 2, 971.	5.8	35
51	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
52	Effects of Rigid Amorphous Fraction and Lamellar Crystal Orientation on Electrical Insulation of Poly(ethylene terephthalate) Films. <i>Macromolecules</i> , 2020, 53, 3967-3977.	4.8	34
53	The Role of Melt Memory and Template Effect in Complete Stereocomplex Crystallization and Phase Morphology of Poly(lactides). <i>Crystal Growth and Design</i> , 2018, 18, 1613-1621.	3.0	32
54	Integrated Structure of Cathode and Double-Layer Electrolyte for Highly Stable and Dendrite-Free All-Solid-State Li-Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56995-57002.	8.0	32

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55	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
56	Capacity Loss Mechanism of the $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Microsphere Anode of Lithium-Ion Batteries at High Temperature and Rate Cycling Conditions. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37357-37364.	8.0	29
57	An efficient, food contact accelerator for stereocomplexation of high-molecular-weight poly() Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.8	29
58	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
59	Inducing Stereocomplex Crystals by Template Effect of Residual Stereocomplex Crystals during Thermal Annealing of Injection-Molded Polylactide. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 10896-10905.	3.7	28
60	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
61	Achieving high thermal conductivity and mechanical reinforcement in ultrahigh molecular weight polyethylene bulk material. <i>Polymer</i> , 2019, 180, 121760.	3.8	25
62	Facile Construction of a Superhydrophobic Surface on a Textile with Excellent Electrical Conductivity and Stretchability. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 7546-7553.	3.7	25
63	Inâ€¦Situ Construction of an Ultraâ€Stable Conductive Composite Interface for Highâ€Voltage Allâ€Solidâ€State Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2020, 132, 11882-11886.	2.0	25
64	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
65	Understanding reversible Maxwellian electroactuation in a 3M VHB dielectric elastomer with prestrain. <i>Polymer</i> , 2018, 144, 150-158.	3.8	24
66	Conductive network formation during annealing of an oriented polyethylene-based composite. <i>Journal of Materials Science</i> , 2012, 47, 3713-3719.	3.7	21
67	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
68	Toward biomimetic porous poly(μ -caprolactone) scaffolds: Structural evolution and morphological control during solid phase extrusion. <i>Composites Science and Technology</i> , 2018, 156, 192-202.	7.8	19
69	Efficient Utilization of Atactic Polypropylene in Its Isotactic Polypropylene Blends via â€Structuringâ€ Processing. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 10144-10154.	3.7	16
70	High thermal conductivity of chain-aligned bulk linear ultra-high molecular weight polyethylene. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	15
71	Progress and Perspective of Constructing Solid Electrolyte Interphase on Stable Lithium Metal Anode. <i>Frontiers in Materials</i> , 2020, 7, .	2.4	13
72	Coupling effect of pressure and flow fields on the crystallization of Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10,Tf 50 62 Td (fluoride	3.8	13

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73	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
74	A Criterion for Flow-Induced Oriented Crystals in Isotactic Polypropylene under Pressure. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700407.	3.9	12
75	Surface Epitaxial Crystallization-Directed Nanotopography for Accelerating Preosteoblast Proliferation and Osteogenic Differentiation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42956-42963.	8.0	12
76	Tuning wettability and mechanical property of polylactide composite films with in-situ nanofibrils of poly(butylene adipate-co-terephthalate). <i>Composites Communications</i> , 2020, 22, 100515.	6.3	12
77	Injection-molded hydroxyapatite/polyethylene bone-analogue biocomposites via structure manipulation. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7585-7593.	5.8	11
78	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
79	Bone-like Polymeric Composites with a Combination of Bioactive Glass and Hydroxyapatite: Simultaneous Enhancement of Mechanical Performance and Bioactivity. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 4434-4442.	5.2	10
80	Mesophase Structure-Enabled Electrostrictive Property in Nylon-Based Poly(ether block amide) Copolymers. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900330.	3.6	10
81	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
82	Oriented Polar Crystals in Poly(Vinylidene Fluoride) Produced by Simultaneously Applying Pressure and Flow. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800299.	2.2	6
83	Stable Interface Chemistry and Multiple Ion Transport of Composite Electrolyte Contribute to Ultra-Long Cycling Solid-State LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ /Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2021, 133, 24873-24880.	2.0	6
84	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