

Ling Xu

List of Publications by Year in descending order

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73
papers

4,234
citations

172386

29
h-index

110317

64
g-index

73
all docs

73
docs citations

73
times ranked

4388
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.	7.8	1,007
2	Conductive polymer composites with segregated structures. <i>Progress in Polymer Science</i> , 2014, 39, 1908-1933.	11.8	617
3	Stretchable and durable conductive fabric for ultrahigh performance electromagnetic interference shielding. <i>Carbon</i> , 2019, 144, 101-108.	5.4	186
4	Improved barrier properties of poly(lactic acid) with randomly dispersed graphene oxide nanosheets. <i>Journal of Membrane Science</i> , 2014, 464, 110-118.	4.1	170
5	Robustly Superhydrophobic Conductive Textile for Efficient Electromagnetic Interference Shielding. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 1680-1688.	4.0	136
6	Enhanced mechanical and thermal properties of rigid polyurethane foam composites containing graphene nanosheets and carbon nanotubes. <i>Polymer International</i> , 2012, 61, 1107-1114.	1.6	132
7	Highly Stretchable and Sensitive Strain Sensor with Porous Segregated Conductive Network. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37094-37102.	4.0	116
8	Ultralight Cellulose Porous Composites with Manipulated Porous Structure and Carbon Nanotube Distribution for Promising Electromagnetic Interference Shielding. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 40156-40167.	4.0	108
9	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.	3.8	93
10	Stretchable Liquid Metal-Based Conductive Textile for Electromagnetic Interference Shielding. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53230-53238.	4.0	85
11	Highly conductive and stretchable carbon nanotube/thermoplastic polyurethane composite for wearable heater. <i>Composites Science and Technology</i> , 2019, 181, 107695.	3.8	83
12	Extensional Stress-Induced Orientation and Crystallization can Regulate the Balance of Toughness and Stiffness of Polylactide Films: Interplay of Oriented Amorphous Chains and Crystallites. <i>Macromolecules</i> , 2019, 52, 5278-5288.	2.2	79
13	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.	2.7	79
14	Double-segregated carbon nanotube-polymer conductive composites as candidates for liquid sensing materials. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4177.	5.2	75
15	Mechanical properties and biocompatibility of melt processed, self-reinforced ultrahigh molecular weight polyethylene. <i>Biomaterials</i> , 2014, 35, 6687-6697.	5.7	69
16	Tuning the Superstructure of Ultrahigh-Molecular-Weight Polyethylene/Low-Molecular-Weight Polyethylene Blend for Artificial Joint Application. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1521-1529.	4.0	66
17	Wearable Polyethylene/Polyamide Composite Fabric for Passive Human Body Cooling. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41637-41644.	4.0	65
18	Nanotopography on titanium promotes osteogenesis via autophagy-mediated signaling between YAP and β -catenin. <i>Acta Biomaterialia</i> , 2019, 96, 674-685.	4.1	62

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19	Ultra-high gas barrier poly (vinyl alcohol) nanocomposite film filled with congregated and oriented Fe ₃ O ₄ @GO sheets induced by magnetic-field. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 97, 1-9.	3.8	48
20	Hydrophobic Graphene Oxide as a Promising Barrier of Water Vapor for Regenerated Cellulose Nanocomposite Films. <i>ACS Omega</i> , 2019, 4, 509-517.	1.6	46
21	In Situ Nanofibrillar Networks Composed of Densely Oriented Polylactide Crystals as Efficient Reinforcement and Promising Barrier Wall for Fully Biodegradable Poly(butylene succinate) Composite Films. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2887-2897.	3.2	43
22	Highly Thermally Conductive Graphene-Based Thermal Interface Materials with a Bilayer Structure for Central Processing Unit Cooling. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 25325-25333.	4.0	39
23	Preparation and properties of carbon black/polymer composites with segregated and double-percolated network structures. <i>Journal of Materials Science</i> , 2013, 48, 4892-4898.	1.7	36
24	Multifunctional Membrane for Thermal Management Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 19301-19311.	4.0	36
25	Improved performance balance of polyethylene by simultaneously forming oriented crystals and blending ultra-high-molecular-weight polyethylene. <i>RSC Advances</i> , 2014, 4, 1512-1520.	1.7	35
26	Ultrathin, flexible and sandwich-structured PHBV/silver nanowire films for high-efficiency electromagnetic interference shielding. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3307-3315.	2.7	34
27	Efficient electromagnetic interference shielding of lightweight carbon nanotube/polyethylene composites via compression molding plus salt-leaching. <i>RSC Advances</i> , 2018, 8, 8849-8855.	1.7	33
28	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.	1.4	32
29	Enhanced Mechanical Performance of Segregated Carbon Nanotube/Poly(lactic acid) Composite for Efficient Electromagnetic Interference Shielding. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 4454-4461.	1.8	32
30	Constructing robust chain entanglement network, well-defined nanosized crystals and highly aligned graphene oxide nanosheets: Towards strong, ductile and high barrier Poly(lactic acid) nanocomposite films for green packaging. <i>Composites Part B: Engineering</i> , 2021, 222, 109048.	5.9	29
31	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.	1.8	28
32	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.	3.8	28
33	Dual-functional thermal management materials for highly thermal conduction and effectively heat generation. <i>Composites Part B: Engineering</i> , 2022, 242, 110084.	5.9	27
34	Gradient Structure of Crystalline Morphology in Injection-Molded Polylactide Parts Tuned by Oscillation Shear Flow and Its Influence on Thermomechanical Performance. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 6295-6306.	1.8	25
35	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.	1.8	25
36	Green Production of Covalently Functionalized Boron Nitride Nanosheets via Saccharide-Assisted Mechanochemical Exfoliation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 11155-11162.	3.2	23

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37	Polyaniline-decorated carbon fibers for enhanced mechanical and electromagnetic interference shielding performances of epoxy composites. <i>Materials and Design</i> , 2022, 217, 110658.	3.3	22
38	Superhydrophobic, Self-Cleaning, and Robust Properties of Oriented Polylactide Imparted by Surface Structuring. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 6296-6304.	3.2	21
39	Ultra-high mechanical properties of porous composites based on regenerated cellulose and cross-linked poly(ethylene glycol). <i>Carbohydrate Polymers</i> , 2018, 179, 244-251.	5.1	20
40	Promoting osteoblast proliferation on polymer bone substitutes with bone-like structure by combining hydroxyapatite and bioactive glass. <i>Materials Science and Engineering C</i> , 2019, 96, 1-9.	3.8	19
41	A nacre-mimetic superstructure of poly(butylene succinate) structured by using an intense shear flow and ramie fiber as a promising strategy for simultaneous reinforcement and toughening. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22697-22707.	5.2	18
42	Robust hydrogel of regenerated cellulose by chemical crosslinking coupled with polyacrylamide network. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47811.	1.3	17
43	Structure and Properties of All-Cellulose Composites Prepared by Controlling the Dissolution Temperature of a NaOH/Urea Solvent. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 10428-10435.	1.8	17
44	Highly Efficient Three-Dimensional Gas Barrier Network for Biodegradable Nanocomposite Films at Extremely Low Loading Levels of Graphene Oxide Nanosheets. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 5818-5827.	1.8	16
45	Robust cellulose nanocomposite films based on covalently cross-linked network with effective resistance to water permeability. <i>Carbohydrate Polymers</i> , 2019, 211, 237-248.	5.1	15
46	Nanotopographical polymeric surface with mussel-inspired decoration to enhance osteoblast differentiation. <i>Applied Surface Science</i> , 2019, 481, 987-993.	3.1	15
47	Tunable liquid sensing performance of conducting carbon nanotube/polyethylene composites with a porous segregated structure. <i>RSC Advances</i> , 2013, 3, 19802.	1.7	14
48	Humidity sensitive cellulose composite aerogels with enhanced mechanical performance. <i>Cellulose</i> , 2020, 27, 6287-6297.	2.4	13
49	Non-isothermal crystallization kinetics of alkyl-functionalized graphene oxide/high-density polyethylene nanocomposites. <i>Composite Interfaces</i> , 2014, 21, 203-215.	1.3	12
50	Temperature dependence of molecular conformation in uniaxially deformed isotactic polypropylene investigated by combination of polarized FTIR spectroscopy and 2D correlation analysis. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 673-684.	2.4	12
51	Surface Epitaxial Crystallization-Directed Nanotopography for Accelerating Preosteoblast Proliferation and Osteogenic Differentiation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42956-42963.	4.0	12
52	Crystallization behavior and morphology of one-step reaction compatibilized microfibrillar reinforced isotactic polypropylene/poly(ethylene terephthalate) (iPP/PET) blends. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2011, 29, 540-551.	2.0	11
53	Robust propylene-ethylene copolymer/polypropylene films: Extensional stress-induced orientation realized at low temperature processing. <i>Polymer</i> , 2020, 206, 122848.	1.8	11
54	Coupling Effect of Mechanical and Thermal Rejuvenation for Polystyrene: Toward High Performance of Stiffness, Ductility, and Transparency. <i>Macromolecules</i> , 2021, 54, 8875-8885.	2.2	11

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55	Influence of surface polarity of carbon nanotubes on electric field induced aligned conductive network formation in a polymer melt. <i>RSC Advances</i> , 2013, 3, 24185.	1.7	10
56	Enhanced toughness and strength of conductive cellulose-poly(butylene succinate) films filled with multiwalled carbon nanotubes. <i>Cellulose</i> , 2014, 21, 1803-1812.	2.4	10
57	Influences of interfacial adhesion on gas barrier property of functionalized graphene oxide/ultra-high-molecular-weight polyethylene composites with segregated structure. <i>Composite Interfaces</i> , 2017, 24, 729-741.	1.3	10
58	Simultaneously improving stiffness, toughness, and heat deflection resistance of polylactide using the strategy of orientation crystallization amplified by interfacial interactions. <i>Polymer Crystallization</i> , 2018, 1, e10004.	0.5	10
59	Short implants versus longer implants in the posterior alveolar region after an observation period of at least five years: A systematic review and meta-analysis. <i>Journal of Dentistry</i> , 2020, 100, 103386.	1.7	10
60	Rapid preparation and continuous processing of polylactide stereocomplex crystallite below its melting point. <i>Polymer Bulletin</i> , 2019, 76, 3371-3385.	1.7	9
61	Robust, transparent films of propylene-ethylene copolymer through isotropic-orientation transition at low temperature accelerated by adjustment of ethylene contents. <i>Polymer</i> , 2020, 187, 122099.	1.8	9
62	Superior Ductile and High-barrier Poly(lactic acid) Films by Constructing Oriented Nanocrystals as Efficient Reinforcement of Chain Entanglement Network and Promising Barrier Wall. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2022, 40, 1201-1212.	2.0	9
63	Effects of dodecyl amine functionalized graphene oxide on the crystallization behavior of isotactic polypropylene. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	8
64	Confined crystallization of poly(butylene succinate) intercalated into organoclays: role of surfactant polarity. <i>RSC Advances</i> , 2016, 6, 68072-68080.	1.7	7
65	Flow-Induced Precursor Formation of Poly(l-lactic acid) under Pressure. <i>ACS Omega</i> , 2018, 3, 15471-15481.	1.6	7
66	Polylactide porous biocomposites with high heat resistance by utilizing cellulose template-directed construction. <i>Cellulose</i> , 2020, 27, 3805-3819.	2.4	7
67	Enhanced melt-recrystallization process of propylene-ethylene copolymer during the uniaxial stretching with the aid of isotactic polypropylene. <i>Polymer</i> , 2022, 239, 124443.	1.8	7
68	Interconnected Microdomain Structure of a Cross-Linked Cellulose Nanocomposite Revealed by Micro-Raman Imaging and Its Influence on Water Permeability of a Film. <i>Biomacromolecules</i> , 2019, 20, 2754-2762.	2.6	6
69	Unique Banded Cylindrites of Polyoxymethylene/Poly(butylene succinate) Blends Induced by Interfacial Shear. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2741-2750.	2.0	4
70	Evolution of Polymorphic Structure in $\hat{2}$ -Nucleated Isotactic Polypropylene under a Certain Pressure: Effects of Temperature and Flow. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 5677-5685.	1.8	4
71	Quantitative Investigation on Structural Evolution of Co-continuous Phase under Shear Flow. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2022, 40, 593-601.	2.0	3
72	Role of pressure in flow-induced shish-kabab in binary blend of long- and short-chain Polyethylenes. <i>Polymer Crystallization</i> , 2019, 2, e10059.	0.5	1

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73	Crystallization of isotactic polypropylene inside dense networks of carbon nanofillers. Journal of Applied Polymer Science, 2014, 131, .	1.3	0