Ling Zhang

List of Publications by Year
in descending order

63 papers	2,515 citations	257357 24 h-index	197736 49 g-index
65 all docs	65 docs citations	65 times ranked	4414 citing authors

#	Article	IF	Citations
1	2D Monolayer MoS₂â€“Carbon Interoverlapped Superstructure: Engineering Ideal Atomic Interface for Lithium Ion Storage. Advanced Materials, 2015, 27, 3687-3695.	11.1	504
2	3D Ordered Macroporous MoS₂@C Nanostructure for Flexible Liâ€Ion Batteries. Advanced Materials, 2017, 29, 1603020.	11.1	350
3	Highly Stretchable Conductors Integrated with a Conductive Carbon Nanotube/Graphene Network and 3D Porous Poly(dimethylsiloxane). Advanced Functional Materials, 2014, 24, 7548-7556.	7.8	162
4	Fabrication of Highly Stretchable Conductors Based on 3D Printed Porous Poly(dimethylsiloxane) and Conductive Carbon Nanotubes/Graphene Network. ACS Applied Materials & Interfaces, 2016, 8, 2187-2192.	4.0	104
5	Interfacial structures and mechanical properties of PVC composites reinforced by CaCO3 with different particle sizes and surface treatments. Polymer International, 2006, 55, 158-164.	1.6	100
6	Synthesis and characterization of polypyrrole/graphite oxide composite by in situ emulsion polymerization. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 1329-1335.	2.4	89
7	Kirigami-patterned highly stretchable conductors from flexible carbon nanotube-embedded polymer films. Journal of Materials Chemistry C, 2017, 5, 8714-8722.	2.7	63
8	Preparation of polydopamine-functionalized grapheneâ€“Fe₃O₄ magnetic composites with high adsorption capacities. RSC Advances, 2014, 4, 30536-30541.	1.7	55
9	A Highly Stretchable, Sensitive, and Transparent Strain Sensor Based on Binary Hybrid Network Consisting of Hierarchical Multiscale Metal Nanowires. Advanced Materials Technologies, 2018, 3, 1800020.	3.0	55
10	Aluminum hydroxide filled ethylene vinyl acetate (EVA) composites: effect of the interfacial compatibilizer and the particle size. Journal of Materials Science, 2007, 42, 4227-4232.	1.7	51
11	Crystallization behavior and UVâ€protection property of PETâ€ZnO nanocomposites prepared by in situ polymerization. Journal of Applied Polymer Science, 2009, 114, 1303-1311.	1.3	51
12	Toughness mechanism in polypropylene composites: Polypropylene toughened with elastomer and calcium carbonate. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 1656-1662.	2.4	49
13	Bridging boron nitride nanosheets with oriented carbon nanotubes by electrospinning for the fabrication of thermal conductivity enhanced flexible nanocomposites. Composites Science and Technology, 2020, 200, 108429.	3.8	46
14	Highly Stretchable, Sensitive, and Transparent Strain Sensors with a Controllable In-Plane Mesh Structure. ACS Applied Materials & Interfaces, 2019, 11, 5316-5324.	4.0	44
15	Revealing the Sudden Alternation in Pt@hâ€BN Nanoreactors for Nearly 100% CO₂â€toâ€CH₄ Photoreduction. Advanced Functional Materials, 2021, 31, 2010780.	7.8	43
16	Toughness mechanism of polypropylene/elastomer/filler composites. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 1113-1123.	2.4	40
17	Highly enhanced thermal conductivity of epoxy composites by constructing dense thermal conductive network with combination of alumina and carbon nanotubes. Composites Part A: Applied Science and Manufacturing, 2019, 125, 105496.	3.8	37
18	Self-assembling few-layer MoS₂ nanosheets on a CNT backbone for high-rate and long-life lithium-ion batteries. RSC Advances, 2014, 4, 40368-40372.	1.7	35

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19	One-step rod coating of high-performance silver nanowireâ€“PEDOT:PSS flexible electrodes with enhanced adhesion after sulfuric acid post-treatment. RSC Advances, 2015, 5, 95280-95286.	1.7	32
20	Highly Stable, Transparent, and Conductive Electrode of Solution-Processed Silver Nanowire-Mxene for Flexible Alternating-Current Electroluminescent Devices. Industrial & Engineering Chemistry Research, 2019, 58, 21485-21492.	1.8	31
21	Highly transparent and scratch resistant polysiloxane coatings containing silica nanoparticles. Journal of Colloid and Interface Science, 2020, 559, 273-281.	5.0	31
22	Three-Dimensional Highly Stretchable Conductors from Elastic Fiber Mat with Conductive Polymer Coating. ACS Applied Materials & Interfaces, 2017, 9, 30772-30778.	4.0	28
23	L1₂ Atomic Ordered Substrate Enhanced Pt-Skin Cu₃Pt Catalyst for Efficient Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2018, 10, 38015-38023.	4.0	28
24	Mechanical properties of PVC/nano-CaCO3 composites. Journal of Materials Science, 2005, 40, 2097-2098.	1.7	27
25	Thermal conductivity and tribological properties of POMâ€Cu composites. Polymer Engineering and Science, 2010, 50, 2153-2159.	1.5	24
26	Effect of Surface Structure of Nano-CaCO₃ Particles on Mechanical and Rheological Properties of PVC Composites. Journal of Macromolecular Science - Physics, 2010, 49, 970-982.	0.4	24
27	Polyamide 6 composite with highly improved mechanical properties by PEI-CNT grafted glass fibers through interface wetting, infiltration and crystallization. Polymer, 2019, 172, 253-264.	1.8	24
28	Stretch induced photoluminescence enhanced perovskite quantum dot polymer composites. Journal of Materials Chemistry C, 2020, 8, 1413-1420.	2.7	23
29	Engineering the outermost layers of TiO₂ nanoparticles using in situ Mg doping in a flame aerosol reactor. AIChE Journal, 2017, 63, 870-880.	1.8	21
30	Multifunctional films with a highly oriented â€œnano-brick wallâ€•structure by regulating modified TiO₂@graphene oxide/poly(vinyl alcohol) nanocomposites. Nanoscale, 2019, 11, 7424-7432.	2.8	21
31	Modified cellulose nanocrystals based on <scp>Slâ€ATRP</scp> for enhancing interfacial compatibility and mechanical performance of biodegradable <scp>PLA</scp>/<scp>PBAT</scp> blend. Polymer Composites, 2022, 43, 3753-3764.	2.3	21
32	Evolution mechanism of surface hydroxyl groups of silica during heat treatment. Applied Surface Science, 2020, 513, 145766.	3.1	20
33	Polyamide 6 composites reinforced with glass fibers modified with electrostatically assembled multiwall carbon nanotubes. Journal of Materials Science, 2012, 47, 5446-5454.	1.7	19
34	Locally-ordered PtNiPb ternary nano-pompons as efficient bifunctional oxygen reduction and methanol oxidation catalysts. Nanoscale, 2019, 11, 16945-16953.	2.8	18
35	The Effects of Copper and Polytetrafluoroethylene (PTFE) on Thermal Conductivity and Tribological Behavior of Polyoxymethylene (POM) Composites. Journal of Macromolecular Science - Physics, 2011, 50, 2023-2033.	0.4	15
36	Zinc oxide with dominant (1â€¯0â€¯0) facets boosts vulcanization activity. European Polymer Journal, 2019, 113, 148-154.	2.6	15

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37	Branched Aggregates with Tunable Morphology via Hierarchical Selfâ€Assembly of Azobenzeneâ€Derived Molecular Double Brushes. Angewandte Chemie - International Edition, 2021, 60, 17707-17713.	7.2	15
38	Significant Improvement in the Flame Retardancy and Thermal Conductivity of the Epoxy Resin via Constructing a Branched Flame Retardant Based on SI-ATRP Initiated by Dopamine-Modified Boron Nitride. Industrial & Engineering Chemistry Research, 2022, 61, 8031-8042.	1.8	15
39	A novel approach to prepare PBT nanocomposites with elastomerâ€modified SiO₂ particles. Polymer Composites, 2009, 30, 673-679.	2.3	12
40	Functional mesoporous carbon-coated CNT network for high-performance supercapacitors. New Journal of Chemistry, 2013, 37, 1294.	1.4	12
41	Comparative Study on Optical Properties and Scratch Resistance of Nanocomposite Coatings Incorporated with Flame Spray Pyrolyzed Silica Modified via in-situ Route and ex-situ Route. Journal of Materials Science and Technology, 2016, 32, 251-258.	5.6	12
42	Direct Growth of Aligned Carbon Nanotubes on Quartz Fibers for Structural Epoxy Composites. Industrial & Engineering Chemistry Research, 2012, 51, 4927-4933.	1.8	11
43	Synthesis of glass fiberâ€multiwall carbon nanotube hybrid structures for highâ€performance conductive composites. Polymer Composites, 2013, 34, 1313-1320.	2.3	11
44	Transcrystalline induced by MWCNTs and organic nucleating agents at the interface of glass fiber/polypropylene. Polymer Composites, 2018, 39, 3424-3433.	2.3	11
45	Electrostatic Layer-by-Layer Assembly of Hierarchical Structure of Multi-Walled Carbon Nanotubes With Glass Fiber Cloth Reinforced Epoxy Composites. Journal of Macromolecular Science - Physics, 2014, 53, 673-682.	0.4	10
46	Facile fabrication of silicaâ€“polymerâ€“graphene collaborative nanostructure-based hybrid materials with high conductivity and robust mechanical performance. RSC Advances, 2015, 5, 25450-25456.	1.7	10
47	Largely enhanced transcrystalline formation and properties of polypropylene on the surface of glass fiber as induced by PEI-CNT and PEI-GO modification. Polymer, 2020, 186, 122025.	1.8	10
48	A general carbon monoxide-assisted strategy for synthesizing one-nanometer-thick Pt-based nanowires as effective electrocatalysts. Journal of Colloid and Interface Science, 2020, 572, 170-178.	5.0	10
49	Study of the Preparation and Properties of PBT/Epoxy/SiO₂ Nanocomposites. Journal of Macromolecular Science - Physics, 2011, 50, 967-974.	0.4	9
50	Promoting the dispersibility of silica and interfacial strength of rubber/silica composites prepared by latex compounding. Journal of Applied Polymer Science, 2020, 137, 49526.	1.3	9
51	Nonisothermal Crystallization Behaviors of Poly(butylene terephthalate) Nucleated with Elastomer-Modified Nano-SiO₂, a Commercial Nucleating Agent (P250), and Talc. Journal of Macromolecular Science - Physics, 2010, 49, 514-527.	0.4	8
52	Synthesis, Characterization and Electrochemical Capacitance of Urchin-Like Hierarchical Polyaniline Microspheres. Journal of Macromolecular Science - Physics, 2012, 51, 897-905.	0.4	8
53	The influence of thermoelastomers on the crystallization behavior of isotactic polypropylene under shear. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 1188-1198.	2.4	6
54	Batteries: 2D Monolayer MoS₂â€“Carbon Interoverlapped Superstructure: Engineering Ideal Atomic Interface for Lithium Ion Storage (Adv. Mater. 24/2015). Advanced Materials, 2015, 27, 3582-3582.	11.1	6

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55	Inactive step-edge Pt atoms boost oxygen reduction reaction by activating adsorbed hydrogen atoms. Applied Surface Science, 2020, 504, 144434.	3.1	6
56	Production of Flexible and Electrically Conductive Polyethyleneâ€“Carbon Nanotube Shish-Kebab Structures and Their Assembly into Thin Films. Industrial & Engineering Chemistry Research, 2012, 51, 5456-5460.	1.8	5
57	The synergetic effect of zinc phthalate and carboxymethyl cellulose â€“ carbon nanotube of glass fibers surfaces on improving strength and toughness of polypropylene composite. Journal of Polymer Science, 2020, 58, 2022-2031.	2.0	5
58	Highâ€thermalâ€conduction and lowâ€cost composite originated from the tight packing structure of boron nitride sheets and binary alumina balls. Polymer Composites, 2021, 42, 3562-3571.	2.3	5
59	<scp>Modified TiO₂</scp>@graphene oxide and montmorillonite synergistically enhanced multifunctional nanocomposite films. Polymer Composites, 2021, 42, 2511-2522.	2.3	4
60	Effect of perfluoroalkylmethacrylate esterâ€graftedâ€linear lowâ€density polyethylene on the tribological property of polyoxymethyleneâ€“linear lowâ€density polyethylene composites. Polymer Engineering and Science, 2011, 51, 925-930.	1.5	3
61	Direct Reductive Amination from Ketones, Aldehydes to Synthesize Amines Using N, S-Dual Doped Co/C Catalyst. Catalysis Letters, 0, , 1.	1.4	1
62	Branched Aggregates with Tunable Morphology via Hierarchical Selfâ€Assembly of Azobenzeneâ€Derived Molecular Double Brushes. Angewandte Chemie, 2021, 133, 17848-17854.	1.6	0
63	Preparation of flame retardant glass fiber via emulsion impregnation and application in polyamide 6. Journal of Polymer Engineering, 2022, .	0.6	0