

# Xu Zhang

## List of Publications by Year in descending order

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45  
papers

1,093  
citations

394421

19  
h-index

434195

31  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1121  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fused deposition modeling 3D printing of polyamide-based composites and its applications. <i>Composites Communications</i> , 2020, 21, 100413.	6.3	137
2	Waterborne polyurethane/graphene oxide-silica nanocomposites with improved mechanical and thermal properties for leather coatings using screen printing. <i>Polymer</i> , 2019, 170, 43-53.	3.8	81
3	Fabrication of thermoplastic functionally gradient composite parts with anisotropic thermal conductive properties based on multicomponent fused deposition modeling 3D printing. <i>Composites Communications</i> , 2020, 19, 142-146.	6.3	57
4	Mechanism underlying the bioleaching process of LiCoO <sub>2</sub> by sulfur-oxidizing and iron-oxidizing bacteria. <i>Journal of Bioscience and Bioengineering</i> , 2019, 128, 344-354.	2.2	56
5	Morphology Transformation of Hybrid Micelles Self-Assembled from Rod-Block Copolymer and Nanoparticles. <i>Langmuir</i> , 2012, 28, 4515-4524.	3.5	55
6	Hierarchical microstructures self-assembled from polymer systems. <i>Polymer</i> , 2013, 54, 3427-3442.	3.8	54
7	Enhanced enzymatic hydrolysis of rice straw pretreated by alkali assisted with photocatalysis technology. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 1240-1245.	3.2	52
8	The anammox coupled partial-denitrification process in an integrated granular sludge and fixed-biofilm reactor developed for mainstream wastewater treatment: Performance and community structure. <i>Water Research</i> , 2022, 210, 117964.	11.3	52
9	Absorption Rate into a MDEA Aqueous Solution Blended with Piperazine under a High CO <sub>2</sub> Partial Pressure. <i>Industrial &amp; Engineering Chemistry Research</i> , 2003, 42, 118-122.	3.7	49
10	3D printing of polycaprolactone-based composites with diversely tunable mechanical gradients via multi-material fused deposition modeling. <i>Composites Communications</i> , 2021, 23, 100600.	6.3	43
11	Dense Hydrogen-Bonding Network Boosts Ionic Conductive Hydrogels with Extremely High Toughness, Rapid Self-Recovery, and Autonomous Adhesion for Human-Motion Detection. <i>Research</i> , 2021, 2021, 9761625.	5.7	40
12	High performance POSS filled nanocomposites prepared via UV-curing based on 3D stereolithography printing. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 117, 276-286.	7.6	36
13	Effect of poly(lactic acid) crystallization on its mechanical and heat resistance performances. <i>Polymer</i> , 2021, 212, 123280.	3.8	35
14	A Review of Conductive Carbon Materials for 3D Printing: Materials, Technologies, Properties, and Applications. <i>Materials</i> , 2021, 14, 3911.	2.9	34
15	High Strength Conductive Polyamide 6 Nanocomposites Reinforced by Prebuilt Three-Dimensional Carbon Nanotube Networks. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 28103-28111.	8.0	26
16	Oxidative Stress Induced by Metal Ions in Bioleaching of LiCoO <sub>2</sub> by an Acidophilic Microbial Consortium. <i>Frontiers in Microbiology</i> , 2019, 10, 3058.	3.5	26
17	Hierarchical Response Network Boosts Solvent-Free Ionic Conductive Elastomers with Extreme Stretchability, Healability, and Recyclability for Ionic Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 8404-8416.	8.0	26
18	Fabrication of surface modified graphene oxide/unsaturated polyester nanocomposites via in-situ polymerization: Comprehensive property enhancement. <i>Applied Surface Science</i> , 2020, 502, 144164.	6.1	22

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19	Controllable interfacial adhesion behaviors of polymer-on-polymer surfaces during fused deposition modeling 3D printing process. <i>Chemical Physics Letters</i> , 2020, 739, 136959.	2.6	21
20	Controllable Hierarchical Microstructures Self-Assembled from Multiblock Copolymers Confined in Thin Films. <i>Langmuir</i> , 2015, 31, 2533-2544.	3.5	19
21	Enhancement of Lightweight Composite Parts with Robust Cellular Structures by Combining Fused Deposition Modeling and Electromagnetic Induction Heating. <i>Advanced Engineering Materials</i> , 2018, 20, 1800215.	3.5	18
22	Mechanically robust nanocomposites from screen-printable polymer/graphene nanosheet pastes. <i>Nanoscale</i> , 2019, 11, 2343-2354.	5.6	18
23	Strong-Weak Response Network-Enabled Ionic Conductive Hydrogels with High Stretchability, Self-Healability, and Self-Adhesion for Ionic Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 32551-32560.	8.0	16
24	Water dispersible magnetite graphene oxide anchored sulfonic acid hybrid for mechanical enhancement of waterborne epoxy nanocomposites. <i>Composites Part B: Engineering</i> , 2019, 171, 119-129.	12.0	15
25	Metagenomics and metatranscriptomics uncover the microbial community associated with high SO <sub>2</sub> production in a denitrifying desulfurization granular sludge reactor. <i>Water Research</i> , 2021, 203, 117505.	11.3	12
26	Distinct Mechanical Properties of Polymer/Polymer-Grafting-Graphene Nanocomposites. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800161.	2.2	11
27	Supramolecular assembly of diblock copolymer blends with hydrogen-bonding interactions modeled by Yukawa potentials. <i>Polymer</i> , 2015, 78, 69-80.	3.8	10
28	Characteristics of oxidative stress and antioxidant defenses by a mixed culture of acidophilic bacteria in response to Co <sup>2+</sup> exposure. <i>Extremophiles</i> , 2020, 24, 485-499.	2.3	8
29	The role of microenvironment in aggregation of the 293-human embryonic Kidney cells. <i>Korean Journal of Chemical Engineering</i> , 2007, 24, 796-799.	2.7	7
30	Lipase-Catalyzed Fully Aliphatic Copolyesters Based on Renewable Isohexide Isomers. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1599-1612.	6.7	7
31	Phase behaviors of supramolecular graft copolymers with reversible bonding. <i>Journal of Chemical Physics</i> , 2013, 139, 184901.	3.0	6
32	Hierarchical Microstructures Self-Assembled from Linear Multiblock Copolymers in Thin Films. <i>Macromolecular Theory and Simulations</i> , 2015, 24, 468-476.	1.4	6
33	Morphology transformation of micelles self-assembled from amphiphilic coil-coil diblock copolymer/nanoparticle mixture in dilute solution by combining self-consistent field theory and density functional theory. <i>Chemical Physics Letters</i> , 2018, 710, 215-220.	2.6	6
34	Effects of calcium ion on adenovirus production with high densities of HEK293 cells. <i>Biotechnology and Bioprocess Engineering</i> , 2010, 15, 414-420.	2.6	5
35	Physical Origin of Distinct Mechanical Properties of Polymer Tethered Graphene Nanosheets Reinforced Polymer Nanocomposites Revealed by Nonequilibrium Molecular Dynamics Simulations. <i>Macromolecular Theory and Simulations</i> , 0, , 2100044.	1.4	5
36	Biodegradable Copolyesters with Unexpected Highly Blocky Microstructures and Enhanced Thermal Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 4438-4450.	6.7	5

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37	Dual Carbon-Supported ZnO/CuO Nanocomposites as an Anode with Improved Performance for Li-Ion Batteries. <i>Energy &amp; Fuels</i> , 2022, 36, 5483-5491.	5.1	5
38	Resveratrol improves ex vivo expansion of CD34 <sup>+</sup> cells via downregulating intracellular reactive oxygen species level. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 7778-7787.	2.6	4
39	Supramolecular Self-assembly Behaviors of Asymmetric Diblock Copolymer Blends with Hydrogen Bonding Interactions between Shorter Blocks Modelled by Yukawa Potentials. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021, 39, 1502-1509.	3.8	3
40	Determination of Optimal Reaction Conditions and Influence of Metal Ions on Cellulose Degradation by Cellulase in the Dioctyl Sulfosuccinate Sodium Salt (AOT)/n-Hexanol/Cyclohexane Reversed Micelle System. <i>Journal of Dispersion Science and Technology</i> , 2014, 35, 14-21.	2.4	2
41	Self-assembly behaviors of graft copolymer structured fluid droplets on flat solid surfaces. <i>Chemical Physics Letters</i> , 2019, 721, 43-48.	2.6	2
42	Design, synthesis, and theoretical analysis of thermal stability epoxy resins obtained through a facile and cost-effective approach. <i>Chemical Physics Letters</i> , 2019, 727, 38-44.	2.6	1
43	Study of CMC and Thermodynamic Properties on Formation Micelle of 1-Phenyl-3-methyl-4-benzoyl-pyrazolane-5 Salts in the Organic Solvent +Sec-octyl Alcohol Systems at 298.15ÅK Using a Microcalorimetric Method. <i>Journal of Dispersion Science and Technology</i> , 2011, 32, 299-304.	2.4	0
44	Discovery of unusual morphological evolution of A-graft-(B-block-C) graft terpolymers by tuning the length of B component. <i>Chemical Physics Letters</i> , 2021, 784, 139090.	2.6	0
45	Carbon composites from iron-chelating pyridine nitrogen-rich coordinated nanosheets for oxygen reduction. <i>Functional Composite Materials</i> , 2022, 3, .	1.4	0