

# Yi Xie

## List of Publications by Year in descending order

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64  
papers

2,390  
citations

172443

29  
h-index

214788

47  
g-index

64  
all docs

64  
docs citations

64  
times ranked

2814  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tannic acid-inspiration and post-crosslinking of zwitterionic polymer as a universal approach towards antifouling surface. <i>Chemical Engineering Journal</i> , 2018, 337, 122-132.	12.7	131
2	Fabrication of metronidazole loaded poly ( $\epsilon$ -caprolactone)/zein core/shell nanofiber membranes via coaxial electrospinning for guided tissue regeneration. <i>Journal of Colloid and Interface Science</i> , 2017, 490, 270-278.	9.4	109
3	Design of Antibacterial Poly(ether sulfone) Membranes via Covalently Attaching Hydrogel Thin Layers Loaded with Ag Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 15962-15974.	8.0	91
4	Co-deposition towards mussel-inspired antifouling and antibacterial membranes by using zwitterionic polymers and silver nanoparticles. <i>Journal of Materials Chemistry B</i> , 2017, 5, 7186-7193.	5.8	89
5	Zwitterionic polymer functionalization of polysulfone membrane with improved antifouling property and blood compatibility by combination of ATRP and click chemistry. <i>Acta Biomaterialia</i> , 2016, 40, 162-171.	8.3	84
6	One-step synthesis of nitrogen-doped sludge carbon as a bifunctional material for the adsorption and catalytic oxidation of organic pollutants. <i>Science of the Total Environment</i> , 2019, 680, 51-60.	8.0	83
7	Functionalized polyethersulfone nanofibrous membranes with ultra-high adsorption capacity for organic dyes by one-step electrospinning. <i>Journal of Colloid and Interface Science</i> , 2019, 533, 526-538.	9.4	75
8	Metal-Phenolic Networks Nanoplatfrom to Mimic Antioxidant Defense System for Broad-Spectrum Radical Eliminating and Endotoxemia Treatment. <i>Advanced Functional Materials</i> , 2020, 30, 2002234.	14.9	74
9	Effects of deproteinization methods on primary structure and antioxidant activity of <i>Ganoderma lucidum</i> polysaccharides. <i>International Journal of Biological Macromolecules</i> , 2019, 126, 867-876.	7.5	71
10	Codeposition of Polydopamine and Zwitterionic Polymer on Membrane Surface with Enhanced Stability and Antibiofouling Property. <i>Langmuir</i> , 2019, 35, 1430-1439.	3.5	70
11	Ultrasonic-enhanced Fenton-like degradation of bisphenol A using a bio-synthesized schwertmannite catalyst. <i>Journal of Hazardous Materials</i> , 2018, 344, 689-697.	12.4	69
12	Heparin-mimicking polyethersulfone membranes with hemocompatibility, cytocompatibility, antifouling and antibacterial properties. <i>Journal of Membrane Science</i> , 2016, 498, 135-146.	8.2	68
13	Yeast biomass-induced Co2P/biochar composite for sulfonamide antibiotics degradation through peroxymonosulfate activation. <i>Environmental Pollution</i> , 2021, 268, 115930.	7.5	65
14	Effect of pretreatment on the enzymatic hydrolysis of kitchen waste for xanthan production. <i>Bioresource Technology</i> , 2017, 223, 84-90.	9.6	64
15	Hydrothermal route-enabled synthesis of sludge-derived carbon with oxygen functional groups for bisphenol A degradation through activation of peroxymonosulfate. <i>Journal of Hazardous Materials</i> , 2020, 388, 121801.	12.4	64
16	Integrating zwitterionic polymer and Ag nanoparticles on polymeric membrane surface to prepare antifouling and bactericidal surface via Schiff-based layer-by-layer assembly. <i>Journal of Colloid and Interface Science</i> , 2018, 510, 308-317.	9.4	63
17	Nanofibrous membranes with surface migration of functional groups for ultrafast wastewater remediation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13359-13372.	10.3	60
18	Molten salt induced nitrogen-doped biochar nanosheets as highly efficient peroxymonosulfate catalyst for organic pollutant degradation. <i>Environmental Pollution</i> , 2020, 260, 114053.	7.5	60

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19	Iron-rich microorganism-enabled synthesis of magnetic biocarbon for efficient adsorption of diclofenac from aqueous solution. <i>Bioresource Technology</i> , 2019, 282, 310-317.	9.6	55
20	Engineering of Tannic Acid Inspired Antifouling and Antibacterial Membranes through Co-deposition of Zwitterionic Polymers and Ag Nanoparticles. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 11689-11697.	3.7	52
21	Zwitterionic glycosyl modified polyethersulfone membranes with enhanced anti-fouling property and blood compatibility. <i>Journal of Colloid and Interface Science</i> , 2015, 443, 36-44.	9.4	51
22	Positively-charged polyethersulfone nanofibrous membranes for bacteria and anionic dyes removal. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 492-502.	9.4	43
23	Biosynthesis, structure and antioxidant activities of xanthan gum from <i>Xanthomonas campestris</i> with additional furfural. <i>Carbohydrate Polymers</i> , 2019, 216, 369-375.	10.2	41
24	A self-cleaning zwitterionic nanofibrous membrane for highly efficient oil-in-water separation. <i>Science of the Total Environment</i> , 2020, 729, 138876.	8.0	40
25	A versatile approach towards multi-functional surfaces via covalently attaching hydrogel thin layers. <i>Journal of Colloid and Interface Science</i> , 2016, 484, 60-69.	9.4	36
26	Preparation of temperature-sensitive Xanthan/NIPA hydrogel using citric acid as crosslinking agent for bisphenol A adsorption. <i>Carbohydrate Polymers</i> , 2019, 206, 94-101.	10.2	36
27	Cobalt-doped biogenic manganese oxides for enhanced tetracycline degradation by activation of peroxymonosulfate. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 752-760.	3.2	34
28	Multifunctional negatively-charged poly (ether sulfone) nanofibrous membrane for water remediation. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 648-659.	9.4	33
29	Cobalt oxide loaded graphitic carbon nitride as adsorptive photocatalyst for tetracycline removal from aqueous solution. <i>Chemosphere</i> , 2019, 218, 169-178.	8.2	33
30	Mechanism of efficient remediation of U(VI) using biogenic CMC-FeS complex produced by sulfate-reducing bacteria. <i>Journal of Hazardous Materials</i> , 2021, 420, 126645.	12.4	32
31	Functional polyethersulfone particles for the removal of bilirubin. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 28.	3.6	28
32	Direct catechol conjugation of mussel-inspired biomacromolecule coatings to polymeric membranes with antifouling properties, anticoagulant activity and cytocompatibility. <i>Journal of Materials Chemistry B</i> , 2017, 5, 3035-3046.	5.8	27
33	Utilization of food waste hydrolysate for microbial lipid and protein production by <i>Rhodospiridium toruloides</i> Y2. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 666-673.	3.2	27
34	Photoenhanced Dual-Functional Nanomedicine for Promoting Wound Healing: Shifting Focus from Bacteria Eradication to Host Microenvironment Modulation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 32316-32331.	8.0	27
35	Facile chemical modification of polysulfone membrane with improved hydrophilicity and blood compatibility. <i>Materials Letters</i> , 2014, 137, 192-195.	2.6	24
36	Direct conversion of wet sewage sludge to carbon catalyst for sulfamethoxazole degradation through peroxymonosulfate activation. <i>Science of the Total Environment</i> , 2020, 728, 138853.	8.0	24

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37	Vapor induced phase separation towards anion-/near-infrared-responsive pore channels for switchable anti-fouling membranes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8934-8948.	10.3	24
38	A robust way to prepare blood-compatible and anti-fouling polyethersulfone membrane. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 146, 326-333.	5.0	23
39	Extracorporeal hemoperfusion therapy for sepsis: Multi-lamellar microspheres towards cascade endotoxin removal and broad-spectrum radical eliminating. <i>Chemical Engineering Journal</i> , 2022, 444, 136499.	12.7	23
40	Inflammation-responsive self-regulated drug release from ultrathin hydrogel coating. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 158, 518-526.	5.0	22
41	Photo-responsive membrane surface: Switching from bactericidal to bacteria-resistant property. <i>Materials Science and Engineering C</i> , 2018, 84, 52-59.	7.3	22
42	Exposing Metal Oxide with Intrinsic Catalytic Activity by Near-Infrared Pulsed Laser: Laser-Induced Selective Metallization on Polymer Materials. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700937.	3.7	21
43	General Method for Synthesizing Transition-Metal Phosphide/N-Doped Carbon Nanomaterials for Hydrogen Evolution. <i>Langmuir</i> , 2019, 35, 9161-9168.	3.5	17
44	Sustainable production of nano $\text{Fe}_2\text{O}_3/\text{N}$ -doped biochar hybrid nanosheets for supercapacitors. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4522-4530.	4.9	17
45	Alloyed nanostructures integrated metal-phenolic nanoplatform for synergistic wound disinfection and revascularization. <i>Bioactive Materials</i> , 2022, 16, 95-106.	15.6	17
46	Direct Bonding of Polymer and Metal with an Ultrahigh Strength: Laser Treatment and Mechanical Interlocking. <i>Advanced Engineering Materials</i> , 2021, 23, 2001288.	3.5	16
47	Polymer-Metal Hybrid Material with an Ultra-High Interface Strength Based on Mechanical Interlocking via Nanopores Produced by Electrochemistry. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 12409-12420.	3.7	15
48	A bifunctional CoP/N-doped porous carbon composite derived from a single source precursor for bisphenol A removal. <i>RSC Advances</i> , 2020, 10, 9976-9984.	3.6	15
49	Janus Metal-Organic Frameworks/Wood Aerogel Composites for Boosting Catalytic Performance by Le Chatelier's Principle. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 51039-51047.	8.0	14
50	A new approach for excess sludge reduction by manganese dioxide oxidation: performance, kinetics, and mechanism studies. <i>Environmental Science and Pollution Research</i> , 2018, 25, 29356-29365.	5.3	13
51	Shape-controllable synthesis of $\text{MnO}_2$ nanostructures from manganese-contained wastewater for phenol degradation by activating peroxymonosulphate: performance and mechanism. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 2037-2048.	2.2	12
52	Bioconversion of Welan Gum from Kitchen Waste by a Two-Step Enzymatic Hydrolysis Pretreatment. <i>Applied Biochemistry and Biotechnology</i> , 2017, 183, 820-832.	2.9	11
53	Green Fabrication of Tannic Acid-Inspired Magnetic Composite Nanoparticles toward Cationic Dye Capture and Selective Degradation. <i>ACS Omega</i> , 2020, 5, 6566-6575.	3.5	11
54	Laser Direct Writing of Flexible Heaters on Polymer Substrates. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 11161-11170.	3.7	11

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55	Utilization of Waste Biomass (Kitchen Waste) Hydrolysis Residue as Adsorbent for Dye Removal: Kinetic, Equilibrium, and Thermodynamic Studies. <i>Applied Biochemistry and Biotechnology</i> , 2018, 185, 971-985.	2.9	10
56	CdS nanoparticles loaded on porous poly-melamine-formaldehyde polymer for photocatalytic dye degradation. <i>Research on Chemical Intermediates</i> , 2017, 43, 5083-5090.	2.7	8
57	One-pot hydrothermal synthesis of micaceous iron oxide pigment from jarosite waste. <i>Journal of Coatings Technology Research</i> , 2019, 16, 213-220.	2.5	6
58	Enhanced Cr(VI) removal by waste biomass derived nitrogen/oxygen co-doped microporous biocarbon. <i>Environmental Science and Pollution Research</i> , 2020, 27, 5433-5445.	5.3	6
59	Efficient and Simple Fabrication of High-Strength and High-Conductivity Metallization Patterns on Flexible Polymer Films. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 6987-6996.	3.7	6
60	Autocatalytic Laser Activator for Both UV and NIR Lasers: Preparation of Circuits on Polymer Substrates by Selective Metallization. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 31411-31423.	8.0	6
61	Design and preparation of rapid full bio-degradable plastic composites based on poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 4	4.6	4
62	Ionic conductivity of a novel solid polymer electrolyte. <i>Journal of Applied Polymer Science</i> , 2001, 80, 2176-2184.	2.6	3
63	Bioconversion of high-concentration chelated Cd to nano-CdS photocatalyst by sulfate-reducing bacteria. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 3003-3011.	3.2	3
64	Rapid synthesis of PEGylated multiblock polymers by sequence-controlled polymerization in H <sub>2</sub> O. <i>Polymer Chemistry</i> , 2020, 11, 417-424.	3.9	1