

# Chaocan Zhang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68

papers

869

citations

17

h-index

27

g-index

73

ext. papers

1,028

ext. citations

3.5

avg, IF

4.16

L-index

#	Paper	IF	Citations
68	A hydrophilic coating capable of withstanding acid and alkali to modify PVDF membrane. <i>Journal of Water Process Engineering</i> , <b>2022</b> , 45, 102519	6.7	0
67	Antifouling and antimicrobial modification of polyvinylidene fluoride micropore membrane by plant tannic acid and polyhexamethylene guanidine. <i>Surfaces and Interfaces</i> , <b>2022</b> , 29, 101708	4.1	2
66	Fabrication of nanofiltration membranes via covalent layer-by-layer self-assembly for charged organic pollutants treatment. <i>Journal of Materials Science</i> , <b>2022</b> , 57, 9002-9017	4.3	
65	Study on Preparation of Polymer-Modified Bentonite and Sand Mixtures Based on Osmotic Pressure Principle. <i>Materials</i> , <b>2022</b> , 15, 3643	3.5	0
64	Preparation of refreshable membrane by partially sacrificial hydrophilic coating. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 10676-10690	4.3	1
63	Synthesis of CO <sub>2</sub> -based functional poly(carbonate-co-lactide). <i>Journal of Polymer Science</i> , <b>2021</b> , 59, 15282-1539	2.1	1
62	An exfoliated montmorillonite as the nanosheet nucleating agent in the subzero phase change material. <i>International Journal of Refrigeration</i> , <b>2021</b> , 129, 88-96	3.8	1
61	A sandwich-type photoelectrochemical aptasensor using Au/BiVO and CdS quantum dots for carcinoembryonic antigen assay. <i>Analyst, The</i> , <b>2021</b> , 146, 5904-5912	5	0
60	Nanocomposite Polymer Hydrogels Reinforced by Carbon Dots and Hectorite Clay. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2020</b> , 35, 287-292	1	3
59	Fabrication of Z-scheme Bi <sub>5</sub> O <sub>7</sub> I/MIL-53(Fe) hybrid with improved photocatalytic performance under visible light irradiation. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 4822-4835	2.1	7
58	Spatially ordered chelating resin based on liquid-crystal phase with highly selective removal of metal ions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 586, 124235	5.1	6
57	Density functional theory study on the inner shell of hydrated M <sup>2+</sup> (H <sub>2</sub> O) <sub>1-7</sub> cluster ions for M <sup>2+</sup> [Zn, Cd and Hg. <i>Computational and Theoretical Chemistry</i> , <b>2020</b> , 1171, 112666	2	7
56	Coralline-like CoP <sub>3</sub> @Cu as an efficient electrocatalyst for the hydrogen evolution reaction in acidic and alkaline solutions. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 18601-18607	3.6	3
55	Porous cobalt oxides/carbon foam hybrid materials for high supercapacitive performance. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 542, 102-111	9.3	10
54	Hydrophilic and antifouling modification of PVDF membranes by one-step assembly of tannic acid and polyvinylpyrrolidone. <i>Applied Surface Science</i> , <b>2019</b> , 483, 967-978	6.7	39
53	Preparation of Ag-doped Bi <sub>5</sub> O <sub>7</sub> I composites with enhanced visible-light-induced photocatalytic performance. <i>Research on Chemical Intermediates</i> , <b>2019</b> , 45, 2797-2809	2.8	4
52	Formation of Copolymer-Ag Nanoparticles Composite Micelles in Three-dimensional Co-flow Focusing Microfluidic Device. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2019</b> , 34, 1259-1265	1	

51	Self-assembly of fluorinated gradient copolymer in three-dimensional co-flow focusing microfluidic. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 526, 75-82	9.3	8
50	One-pot regioselective and stereoselective terpolymerization of rac-lactide, CO <sub>2</sub> and rac-propylene oxide with TPPMCl (M = Cr, Co, Al)/PPNCl binary catalyst. <i>Polymer International</i> , <b>2018</b> , 67, 883-893	3.3	3
49	Adsorption of Quaternized-chitosan-modified Reduced Graphene Oxide. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2018</b> , 33, 967-973	1	2
48	Aggregation prevention: reduction of graphene oxide in mixed medium of alkylphenol polyoxyethylene (7) ether and 2-methoxyethanol.. <i>RSC Advances</i> , <b>2018</b> , 8, 39140-39148	3.7	7
47	Hydrogel Cryopreservation System: An Effective Method for Cell Storage. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	25
46	Surface hydrophilic modification of PVDF membranes by trace amounts of tannin and polyethyleneimine. <i>Applied Surface Science</i> , <b>2018</b> , 457, 695-704	6.7	38
45	Destruction of chitosan capsules based on host-guest interaction and controllable release of encapsulated dyes. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134, 45229	2.9	2
44	A simple modified electrode based on MIL-53(Fe) for the highly sensitive detection of hydrogen peroxide and nitrite. <i>Analytical Methods</i> , <b>2017</b> , 9, 2082-2088	3.2	23
43	Facile synthesis of hierarchical porous carbon derived from carboxyl graphene oxide/phenolic foam for high performance supercapacitors. <i>RSC Advances</i> , <b>2017</b> , 7, 43965-43977	3.7	12
42	Electrochemically reduced graphene oxide as modified electrode material for determination of dihydroxybenzenes. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2017</b> , 32, 1220-1224	1.1	1
41	Biological effect studies of norfloxacin complexes on Tetrahymena and Escherichia coli by microcalorimetry. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2016</b> , 31, 684-688	1	
40	A Supramolecular Gel Approach to Minimize the Neural Cell Damage during Cryopreservation Process. <i>Macromolecular Bioscience</i> , <b>2016</b> , 16, 363-70	5.5	16
39	[Cu(phen) <sub>2</sub> ](2+) acts as electrochemical indicator and anchor to immobilize probe DNA in electrochemical DNA biosensor. <i>Analytical Biochemistry</i> , <b>2016</b> , 492, 56-62	3.1	17
38	Simultaneous determination of ascorbic acid, dopamine and uric acid using a glassy carbon electrode modified with the nickel(II)-bis(1,10-phenanthroline) complex and single-walled carbon nanotubes. <i>Mikrochimica Acta</i> , <b>2016</b> , 183, 1401-1408	5.8	37
37	Autoclave-free facile approach to the synthesis of highly tunable nanocrystal clusters for magnetic responsive photonic crystals. <i>RSC Advances</i> , <b>2016</b> , 6, 64434-64440	3.7	28
36	Hydrophilic modification of PVDF porous membrane via a simple dip-coating method in plant tannin solution. <i>RSC Advances</i> , <b>2016</b> , 6, 71287-71294	3.7	30
35	One-step synthesis of structure controlled vinyl functionalized hollow mesoporous silica nanospheres. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 287-294	3.6	18
34	The Cu-MOF-199/single-walled carbon nanotubes modified electrode for simultaneous determination of hydroquinone and catechol with extended linear ranges and lower detection limits. <i>Analytica Chimica Acta</i> , <b>2015</b> , 899, 57-65	6.6	116

33	CdS QDs-chitosan microcapsules with stimuli-responsive property generated by gas-liquid microfluidic technique. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2015</b> , 125, 21-7	6	16
32	Single-walled carbon nanotubes-carboxyl-functionalized graphene oxide-based electrochemical DNA biosensor for thermolabile hemolysin gene detection. <i>Analytical Methods</i> , <b>2015</b> , 7, 5303-5310	3.2	26
31	The toxicity of binary mixture of Cu (II) ion and phenols on <i>Tetrahymena thermophila</i> . <i>Ecotoxicology and Environmental Safety</i> , <b>2015</b> , 113, 412-7	7	5
30	Joint toxicity of heavy metals and chlorobenzenes to pyriformis <i>Tetrahymena</i> . <i>Chemosphere</i> , <b>2014</b> , 104, 177-83	8.4	11
29	Synthesis of fluorinated gradient copolymers by RAFT emulsifier-free emulsion polymerization and their compatibilization in copolymer blends. <i>Colloid and Polymer Science</i> , <b>2014</b> , 292, 2803-2809	2.4	13
28	Synthesis, characterization, and self-assembly of amphiphilic fluorinated gradient copolymer. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 127, 1485-1492	2.9	18
27	A glassy carbon electrode modified with the nickel(II)-bis(1,10-phenanthroline) complex and multi-walled carbon nanotubes, and its use as a sensor for ascorbic acid. <i>Mikrochimica Acta</i> , <b>2013</b> , 180, 1309-1316	5.8	14
26	Influence of annealing and additives on the crystallization behavior and properties of poly(vinyl chloride). <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2013</b> , 28, 1017-1022	1	1
25	Effects of silica sol content on the properties of poly(acrylamide)/silica composite hydrogel. <i>Polymer Bulletin</i> , <b>2012</b> , 68, 309-316	2.4	18
24	Properties of a Novel Siloxane-containing Epoxy Resin. <i>Polymers and Polymer Composites</i> , <b>2012</b> , 20, 103-106	10.6	10.6
23	Study on Morphology and Mechanical Properties of PVC with Ultrafine CaCO <sub>3</sub> Surface-modified by Acrylate Macromolecular Modifiers. <i>Polymers and Polymer Composites</i> , <b>2012</b> , 20, 191-196	0.8	0.8
22	The action of norfloxacin complexes on <i>Tetrahymena</i> investigated by microcalorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2012</b> , 109, 433-439	4.1	8
21	Effect of annealing on self-organized gradient film obtained from poly(3-[tris(trimethylsilyloxy)silyl] propyl methacrylate-co-methyl methacrylate)/poly(methyl methacrylate-co-n-butyl acrylate) blend latexes. <i>Colloid and Polymer Science</i> , <b>2012</b> , 290, 709-718	2.4	16
20	Preparation and characterization of gradient distribution of silicon in emulsion blend films. <i>Colloid and Polymer Science</i> , <b>2011</b> , 289, 323-331	2.4	3
19	Antiplasticizing effect of MOCA on poly(vinyl chloride). <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2011</b> , 26, 83-87	1	4
18	Combination of Silica Sol and Potassium Silicate via Isothermal Heat Conduction Microcalorimetry. <i>Chinese Journal of Chemistry</i> , <b>2011</b> , 29, 356-362	4.9	0
17	Synthesis and Thermal Properties of Poly(2-Chloroethyl Glycidyl Ether)-Based Side-Chain Liquid-Crystalline Polymers. <i>Molecular Crystals and Liquid Crystals</i> , <b>2010</b> , 533, 42-51	0.5	0.5
16	Synthesis and characterization of polyepichlorohydrin-based copolymers with biphenyl groups attached thioether unit. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2010</b> , 25, 487-491	1.491	2

15	Studies of mechanism of silica polymerization reactions in the combination of silica sol and potassium sodium waterglass via isothermal heat conduction microcalorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2010</b> , 101, 959-964	4.1	7
14	Rheological properties of konjac glucomannan/SiO <sub>2</sub> /organic-borate gels. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2009</b> , 24, 575-580	1	
13	Synthesis and thermal properties of polythioether-based liquid-crystalline polymers containing azobenzene in the side chain. <i>Polymer International</i> , <b>2009</b> , 58, 1071-1077	3.3	8
12	Synthesis and thermal behaviours of side-chain liquid-crystalline poly[N-(4-methoxyazobenzene-4'-oxyalkyl)ethyleneimine]. <i>Liquid Crystals</i> , <b>2009</b> , 36, 379-387	2.3	10
11	Synthesis, Characterization and Adsorption Performance of Semi-crystalline/Liquid Crystalline Polyether Chelating Resins. <i>E-Polymers</i> , <b>2009</b> , 9,	2.7	1
10	Synthesis and thermal properties of side-chain liquid crystalline poly[1-((4-methoxyazobenzene-4'-oxy)alkyl)thio]-2,3-epoxypropane]s. <i>Liquid Crystals</i> , <b>2008</b> , 35, 1321-1328	2.2	10
9	Preparation and Properties of Chitosan/Konjac Glucomannan Blend Fibers. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2007</b> , 44, 439-443	2.2	8
8	Structure and properties of blend fibers prepared from alginate and konjac glucomannan. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 106, 3903-3907	2.9	18
7	The influence of additives on crystallization of polyvinyl chloride. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2007</b> , 22, 271-275	1	6
6	Synthesis and characterization of side-chain liquid-crystalline poly(ethyleneimine)s with cyanobiphenyl groups. <i>Liquid Crystals</i> , <b>2007</b> , 34, 1275-1283	2.3	11
5	Chemical components and properties of core-shell acrylate latex containing fluorine in the shell and their films. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 99, 107-114	2.9	36
4	Investigation of fluorinated polyacrylate latex with core-shell structure. <i>Polymer International</i> , <b>2005</b> , 54, 1027-1033	3.3	55
3	Study of self-crosslinking acrylate latex containing fluorine. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 90, 3609-3616	2.9	24
2	Synthesis and adsorption properties of magnetic resin microbeads with amine and mercaptan as chelating groups. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 82, 1587-1592	2.9	52
1	Superwetting Polyvinylidene Fluoride Membranes with Micro-Nano Structure for Oil-in-Water Emulsion Separation. <i>Macromolecular Materials and Engineering</i> , 2100814	3.9	0