

Huaili Zheng

List of Publications by Year in descending order

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183
papers

7,126
citations

38660

50
h-index

82410

72
g-index

185
all docs

185
docs citations

185
times ranked

4662
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of coagulation/flocculation in oily wastewater treatment: A review. <i>Science of the Total Environment</i> , 2021, 765, 142795.	3.9	368
2	La ³⁺ /La(OH) ₃ loaded magnetic cationic hydrogel composites for phosphate removal: Effect of lanthanum species and mechanistic study. <i>Water Research</i> , 2017, 126, 433-441.	5.3	209
3	Novel anionic polyacrylamide-modify-chitosan magnetic composite nanoparticles with excellent adsorption capacity for cationic dyes and pH-independent adsorption capability for metal ions. <i>Chemical Engineering Journal</i> , 2020, 392, 123706.	6.6	169
4	Chemical coagulation process for the removal of heavy metals from water: a review. <i>Desalination and Water Treatment</i> , 2016, 57, 1733-1748.	1.0	160
5	Characterization and coagulation-flocculation behavior of polymeric aluminum ferric sulfate (PAFS). <i>Chemical Engineering Journal</i> , 2011, 178, 50-59.	6.6	145
6	Optimization for decolorization of azo dye acid green 20 by ultrasound and H ₂ O ₂ using response surface methodology. <i>Journal of Hazardous Materials</i> , 2009, 172, 1388-1393.	6.5	141
7	UV-initiated polymerization of hydrophobically associating cationic flocculants: Synthesis, characterization, and dewatering properties. <i>Chemical Engineering Journal</i> , 2013, 234, 318-326.	6.6	129
8	Removal of carbamazepine in water by electro-activated carbon fiber-peroxydisulfate: Comparison, optimization, recycle, and mechanism study. <i>Chemical Engineering Journal</i> , 2018, 343, 28-36.	6.6	119
9	Rapid and efficient removal of heavy metal and cationic dye by carboxylate-rich magnetic chitosan flocculants: Role of ionic groups. <i>Carbohydrate Polymers</i> , 2018, 181, 327-336.	5.1	109
10	Performance evaluation and optimization of flocculation process for removing heavy metal. <i>Chemical Engineering Journal</i> , 2020, 385, 123911.	6.6	104
11	Characterization and Evaluation of Dewatering Properties of PADB, a Highly Efficient Cationic Flocculant. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 2572-2582.	1.8	103
12	Investigations of coagulation-flocculation process by performance optimization, model prediction and fractal structure of flocs. <i>Desalination</i> , 2011, 269, 148-156.	4.0	101
13	Electrocatalytic oxidation of tetracycline by Bi-Sn-Sb/ γ -Al ₂ O ₃ three-dimensional particle electrode. <i>Journal of Hazardous Materials</i> , 2019, 370, 24-32.	6.5	95
14	Plasma-initiated polymerization of chitosan-based CS-g-P(AM-DMDAAC) flocculant for the enhanced flocculation of low-algal-turbidity water. <i>Carbohydrate Polymers</i> , 2017, 164, 222-232.	5.1	93
15	Characterization and coagulation behavior of polymeric aluminum ferric silicate for high-concentration oily wastewater treatment. <i>Chemical Engineering Research and Design</i> , 2017, 119, 23-32.	2.7	92
16	Preparation of a composite coagulant: Polymeric aluminum ferric sulfate (PAFS) for wastewater treatment. <i>Desalination</i> , 2012, 285, 315-323.	4.0	89
17	UV-Initiated Polymerization of Hydrophobically Associating Cationic Polyacrylamide Modified by a Surface-Active Monomer: A Comparative Study of Synthesis, Characterization, and Sludge Dewatering Performance. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 11193-11203.	1.8	87
18	Variations in macro and micro physicochemical properties of activated sludge under a moderate oxidation-in situ coagulation conditioning: Relationship between molecular structure and dewaterability. <i>Water Research</i> , 2019, 155, 245-254.	5.3	87

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19	Synthesis of novel modified magnetic chitosan particles and their adsorption performance toward Cr(VI). <i>Bioresource Technology</i> , 2018, 267, 1-8.	4.8	86
20	Synthesis of anion polyacrylamide under UV initiation and its application in removing dioctyl phthalate from water through flocculation process. <i>Separation and Purification Technology</i> , 2014, 123, 35-44.	3.9	83
21	Performance evaluation of chitosan-based flocculants with good pH resistance and high heavy metals removal capacity. <i>Separation and Purification Technology</i> , 2019, 215, 208-216.	3.9	82
22	Oxidation of acidic dye Eosin Y by the solar photo-Fenton processes. <i>Journal of Hazardous Materials</i> , 2007, 141, 457-464.	6.5	81
23	Evaluation of a novel dextran-based flocculant on treatment of dye wastewater: Effect of kaolin particles. <i>Science of the Total Environment</i> , 2018, 640-641, 243-254.	3.9	81
24	Fabricating an enhanced sterilization chitosan-based flocculants: Synthesis, characterization, evaluation of sterilization and flocculation. <i>Chemical Engineering Journal</i> , 2017, 319, 119-130.	6.6	75
25	Roles of functional microbial flocculant in dyeing wastewater treatment: Bridging and adsorption. <i>Journal of Hazardous Materials</i> , 2020, 384, 121506.	6.5	72
26	A novel carboxyl-rich chitosan-based polymer and its application for clay flocculation and cationic dye removal. <i>Science of the Total Environment</i> , 2018, 640-641, 107-115.	3.9	71
27	UV-Initiated Graft Copolymerization of Cationic Chitosan-Based Flocculants for Treatment of Zinc Phosphate-Contaminated Wastewater. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 10025-10035.	1.8	68
28	Urea-assisted one-step fabrication of a novel nitrogen-doped carbon fiber aerogel from cotton as metal-free catalyst in peroxymonosulfate activation for efficient degradation of carbamazepine. <i>Chemical Engineering Journal</i> , 2020, 386, 124015.	6.6	67
29	Fabricating a Flocculant with Controllable Cationic Microblock Structure: Characterization and Sludge Conditioning Behavior Evaluation. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 2892-2902.	1.8	64
30	Structural design of magnetic biosorbents for the removal of ciprofloxacin from water. <i>Bioresource Technology</i> , 2020, 296, 122288.	4.8	64
31	UV-initiated synthesis of a novel chitosan-based flocculant with high flocculation efficiency for algal removal. <i>Science of the Total Environment</i> , 2017, 609, 410-418.	3.9	63
32	UV-initiated template copolymerization of AM and MAPTAC: Microblock structure, copolymerization mechanism, and flocculation performance. <i>Chemosphere</i> , 2017, 167, 71-81.	4.2	63
33	DOM removal by flocculation process: Fluorescence excitation-emission matrix spectroscopy (EEMs) characterization. <i>Desalination</i> , 2014, 346, 38-45.	4.0	62
34	Functioned hollow glass microsphere as a self-floating adsorbent: Rapid and high-efficient removal of anionic dye. <i>Journal of Hazardous Materials</i> , 2020, 381, 120971.	6.5	61
35	Biopolymer-based flocculants: a review of recent technologies. <i>Environmental Science and Pollution Research</i> , 2021, 28, 46934-46963.	2.7	61
36	Interactions of specific extracellular organic matter and polyaluminum chloride and their roles in the algae-polluted water treatment. <i>Journal of Hazardous Materials</i> , 2017, 332, 1-9.	6.5	60

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37	Variations of moisture and organics in activated sludge during FeO/S ₂ O ₈ ²⁻ conditioning of horizontal electro-dewatering process. <i>Water Research</i> , 2018, 129, 83-93.	5.3	60
38	In Situ Regeneration of Phenol-Saturated Activated Carbon Fiber by an Electro-peroxymonosulfate Process. <i>Environmental Science & Technology</i> , 2020, 54, 10944-10953.	4.6	58
39	Adsorption behavior of heavy metal ions on a polymer-immobilized amphoteric biosorbent: Surface interaction assessment. <i>Journal of Hazardous Materials</i> , 2021, 403, 123801.	6.5	58
40	Synthesis and characterization of a dewatering reagent: cationic polyacrylamide (P(AM-DMC-DAC)) for activated sludge dewatering treatment. <i>Desalination and Water Treatment</i> , 2013, 51, 2791-2801.	1.0	57
41	Generation of Active Mn(III) by a Novel Heterogeneous Electro-permanganate Process with Manganese(II) as Promoter and Stabilizer. <i>Environmental Science & Technology</i> , 2019, 53, 9063-9072.	4.6	57
42	Effects of papermaking sludge-based polymer on coagulation behavior in the disperse and reactive dyes wastewater treatment. <i>Bioresource Technology</i> , 2017, 240, 59-67.	4.8	56
43	Novel chitosan-based flocculants for chromium and nickel removal in wastewater via integrated chelation and flocculation. <i>Journal of Environmental Management</i> , 2019, 248, 109241.	3.8	56
44	Ultrasound-initiated synthesis of cationic polyacrylamide for oily wastewater treatment: Enhanced interaction between the flocculant and contaminants. <i>Ultrasonics Sonochemistry</i> , 2018, 42, 31-41.	3.8	55
45	Use of a floating adsorbent to remove dyes from water: A novel efficient surface separation method. <i>Journal of Hazardous Materials</i> , 2019, 375, 138-148.	6.5	55
46	Modified magnetic chitosan microparticles as novel superior adsorbents with huge force field for capturing food dyes. <i>Journal of Hazardous Materials</i> , 2019, 367, 492-503.	6.5	54
47	Enhanced selective adsorption of lead(II) from complex wastewater by DTPA functionalized chitosan-coated magnetic silica nanoparticles based on anion-synergism. <i>Journal of Hazardous Materials</i> , 2022, 422, 126856.	6.5	54
48	Effect of Template on Structure and Properties of Cationic Polyacrylamide: Characterization and Mechanism. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 5624-5635.	1.8	53
49	Efficient cationic flocculant MHCS-g-P(AM-DAC) synthesized by UV-induced polymerization for algae removal. <i>Separation and Purification Technology</i> , 2019, 210, 10-19.	3.9	53
50	Simultaneous adsorption and reduction of hexavalent chromium on the poly(4-vinyl pyridine) decorated magnetic chitosan biopolymer in aqueous solution. <i>Bioresource Technology</i> , 2019, 293, 122038.	4.8	53
51	UV-initiated polymerization of acid- and alkali-resistant cationic flocculant P(AM-MAPTAC): Synthesis, characterization, and application in sludge dewatering. <i>Separation and Purification Technology</i> , 2017, 187, 244-254.	3.9	52
52	Electrochemical degradation of oxytetracycline by Ti-Sn-Sb/β-Al ₂ O ₃ three-dimensional electrodes. <i>Journal of Environmental Management</i> , 2019, 241, 22-31.	3.8	51
53	Synthesis of novel chitosan-based flocculants with amphiphilic structure and its application in sludge dewatering: Role of hydrophobic groups. <i>Journal of Cleaner Production</i> , 2020, 249, 119350.	4.6	51
54	Synthesis, characterization, and flocculation performance of anionic polyacrylamide P(AM-AA-AMPS). <i>Journal of Applied Polymer Science</i> , 2013, 129, 1984-1991.	1.3	50

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55	Migration and distribution of water and organic matter for activated sludge during coupling magnetic conditioning of horizontal electro-dewatering (CM-HED). <i>Water Research</i> , 2016, 88, 93-103.	5.3	50
56	Flocculation activity and evaluation of chitosan-based flocculant CMCTS-g-P(AM-CA) for heavy metal removal. <i>Separation and Purification Technology</i> , 2020, 241, 116737.	3.9	50
57	Characterization and flocculation evaluation of a novel carboxylated chitosan modified flocculant by UV initiated polymerization. <i>Carbohydrate Polymers</i> , 2019, 208, 213-220.	5.1	49
58	Poly(2-acrylamido-2-methylpropane sulfonic acid) grafted magnetic chitosan microspheres: Preparation, characterization and dye adsorption. <i>International Journal of Biological Macromolecules</i> , 2018, 112, 648-655.	3.6	48
59	Simultaneous removal of cationic and anionic heavy metal contaminants from electroplating effluent by hydrotalcite adsorbent with disulfide ($Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 Td$ ($\text{http://www.v$ Intercalation. <i>Journal of Hazardous Materials</i> , 2020, 382, 121111.	6.5	48
60	Efficient removal of diclofenac from surface water by the functionalized multilayer magnetic adsorbent: Kinetics and mechanism. <i>Science of the Total Environment</i> , 2021, 760, 144307.	3.9	47
61	Using ultrasonic (US)-initiated template copolymerization for preparation of an enhanced cationic polyacrylamide (CPAM) and its application in sludge dewatering. <i>Ultrasonics Sonochemistry</i> , 2018, 44, 53-63.	3.8	45
62	Rapid removal of diclofenac in aqueous solution by soluble Mn(III) (aq) generated in a novel Electro-activated carbon fiber-permanganate (E-ACF-PM) process. <i>Water Research</i> , 2019, 165, 114975.	5.3	45
63	Electric field induced activated carbon fiber (ACF) cathode transition from an initiator/a promoter into an electrocatalyst in ozonation process. <i>Chemical Engineering Journal</i> , 2016, 304, 129-133.	6.6	43
64	Advanced treatment of actual textile dye wastewater by Fenton-flocculation process. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 1245-1252.	0.9	43
65	Simultaneously promoted reactive manganese species and hydroxyl radical generation by electro-permanganate with low additive ozone. <i>Water Research</i> , 2021, 189, 116623.	5.3	43
66	Effects of acid, acid-ZVI/PMS, Fe(II)/PMS and ZVI/PMS conditioning on the wastewater activated sludge (WAS) dewaterability and extracellular polymeric substances (EPS). <i>Journal of Environmental Sciences</i> , 2020, 91, 73-84.	3.2	42
67	Enhanced removal of tris(2-chloroethyl) phosphate using a resin-based nanocomposite hydrated iron oxide through a Fenton-like process: Capacity evaluation and pathways. <i>Water Research</i> , 2020, 175, 115655.	5.3	41
68	Fabricating an anionic polyacrylamide (APAM) with an anionic block structure for high turbidity water separation and purification. <i>RSC Advances</i> , 2017, 7, 28918-28930.	1.7	40
69	Polymer-Functionalized Magnetic Nanoparticles: Synthesis, Characterization, and Methylene Blue Adsorption. <i>Materials</i> , 2018, 11, 1312.	1.3	39
70	Template Polymerization of a Novel Cationic Polyacrylamide: Sequence Distribution, Characterization, and Flocculation Performance. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 9819-9828.	1.8	37
71	Ciprofloxacin removal by ultrasound-enhanced carbon nanotubes/permanganate process: In situ generation of free reactive manganese species via electron transfer. <i>Water Research</i> , 2021, 202, 117393.	5.3	37
72	Preparation of a graft modified flocculant based on chitosan by ultrasonic initiation and its synergistic effect with kaolin for the improvement of acid blue 83 (AB 83) removal. <i>International Journal of Biological Macromolecules</i> , 2020, 150, 617-630.	3.6	36

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73	Activation of MnFe ₂ O ₄ by sulfite for fast and efficient removal of arsenic(III) at circumneutral pH: Involvement of Mn(III). <i>Journal of Hazardous Materials</i> , 2021, 403, 123623.	6.5	36
74	Sulfite-assisted oxidation/adsorption coupled with a TiO ₂ supported CuO composite for rapid arsenic removal: Performance and mechanistic studies. <i>Journal of Hazardous Materials</i> , 2021, 413, 125449.	6.5	36
75	Polymer-grafted magnetic microspheres for enhanced removal of methylene blue from aqueous solutions. <i>RSC Advances</i> , 2017, 7, 47029-47037.	1.7	35
76	Enhanced adsorption of Orange G from aqueous solutions by quaternary ammonium group-rich magnetic nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 580, 123746.	2.3	35
77	Effect of the Cationic Block Structure on the Characteristics of Sludge Flocs Formed by Charge Neutralization and Patching. <i>Materials</i> , 2017, 10, 487.	1.3	33
78	The role of sulfonated chitosan-based flocculant in the treatment of hematite wastewater containing heavy metals. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 585, 124070.	2.3	32
79	Insights into the glyphosate removal efficiency by using magnetic powder activated carbon composite. <i>Separation and Purification Technology</i> , 2021, 254, 117662.	3.9	32
80	Magnetic phosphorylated chitosan composite as a novel adsorbent for highly effective and selective capture of lead from aqueous solution. <i>Journal of Hazardous Materials</i> , 2021, 405, 124195.	6.5	32
81	Hydrophobic modification of cationic microblocked polyacrylamide and its enhanced flocculation performance for oily wastewater treatment. <i>Journal of Materials Science</i> , 2019, 54, 10024-10040.	1.7	31
82	Flocculation of heavy metal by functionalized starch-based bioflocculants: Characterization and process evaluation. <i>Separation and Purification Technology</i> , 2021, 267, 118628.	3.9	31
83	Two-step synthesis of a single-layer grafting self-floating adsorbent for anionic dyes adsorption, surface separation and concentration. <i>Journal of Hazardous Materials</i> , 2020, 384, 121262.	6.5	30
84	Ultrasound-assisted polymerization of P(AM-DMDAAC): Synthesis, characterization and sludge dewatering performance. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 5439-5447.	3.3	29
85	Characterization and coagulation-flocculation performance of a composite coagulant: poly-ferric-aluminum-silicate-sulfate. <i>Desalination and Water Treatment</i> , 2015, 56, 1776-1786.	1.0	28
86	Adsorption and photocatalytic degradation of pharmaceuticals and pesticides by carbon doped-TiO ₂ coated on zeolites under solar light irradiation. <i>Water Science and Technology</i> , 2016, 73, 2868-2881.	1.2	28
87	An alternative method for preparation of polyaluminum chloride coagulant using fresh aluminum hydroxide gels: Characterization and coagulation performance. <i>Chemical Engineering Research and Design</i> , 2015, 104, 208-217.	2.7	27
88	Efficient removal of Cu(II) organic complexes by polymer-supported, nanosized, and hydrated Fe(III) oxides through a Fenton-like process. <i>Journal of Hazardous Materials</i> , 2020, 386, 121969.	6.5	27
89	Chitin-biocalcium as a novel superior composite for ciprofloxacin removal: Synergism of adsorption and flocculation. <i>Journal of Hazardous Materials</i> , 2022, 423, 126917.	6.5	27
90	Sterilization by flocculants in drinking water treatment. <i>Chemical Engineering Journal</i> , 2020, 382, 122961.	6.6	26

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91	Waste activated sludge (WAS) dewatering properties of an original hydrophobically modified polyacrylamide containing a cationic microblock structure. <i>RSC Advances</i> , 2017, 7, 28733-28745.	1.7	26
92	Characterization and sludge dewatering performance evaluation of the photo-initiated cationic flocculant PDD. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 93, 253-262.	2.7	25
93	Enhanced municipal sludge dewaterability using an amphiphilic microblocked cationic polyacrylamide synthesized through ultrasonic-initiation: Copolymerization and flocculation mechanisms. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 594, 124645.	2.3	25
94	Birnessite MnO ₂ -decorated hollow dandelion-like CuO architectures for supercapacitor electrodes. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 4212-4220.	1.1	24
95	Formation of cationic hydrophobic micro-blocks in P(AM-DMC) by template assembly: characterization and application in sludge dewatering. <i>RSC Advances</i> , 2017, 7, 6114-6122.	1.7	24
96	Efficient Removal of TiO ₂ Nanoparticles by Enhanced Flocculation-Coagulation. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 14528-14537.	1.8	24
97	Magnetic flocculation of Cu(II) wastewater by chitosan-based magnetic composite flocculants with recyclable properties. <i>Carbohydrate Polymers</i> , 2021, 261, 117891.	5.1	24
98	Synergetic removal of oppositely charged dyes by co-precipitation and amphoteric self-floating capturer: Mechanism investigation by molecular simulation. <i>Chemosphere</i> , 2022, 296, 134033.	4.2	24
99	Effects of Surfactants on the Improvement of Sludge Dewaterability Using Cationic Flocculants. <i>PLoS ONE</i> , 2014, 9, e111036.	1.1	23
100	Optimized preparation of micro-block CPAM by response surface methodology and evaluation of dewatering performance. <i>RSC Advances</i> , 2017, 7, 208-217.	1.7	23
101	Better understanding the polymerization kinetics of ultrasonic-template method and new insight on sludge floc characteristics research. <i>Science of the Total Environment</i> , 2019, 689, 546-556.	3.9	23
102	Ultrasound-assisted synthesis of the β -cyclodextrin based cationic polymeric flocculants and evaluation of flocculation performance: Role of β -cyclodextrin. <i>Separation and Purification Technology</i> , 2019, 228, 115735.	3.9	23
103	The graceful art, significant function and wide application behavior of ultrasound research and understanding in carbamazepine (CBZ) enhanced removal and degradation by FeO/PDS/US. <i>Chemosphere</i> , 2021, 278, 130368.	4.2	23
104	Relationship between the structure of chitosan-based flocculants and their performances in the treatment of model azo dyeing wastewater. <i>Chemosphere</i> , 2020, 247, 125920.	4.2	23
105	Effective treatment of high phosphorus pharmaceutical wastewater by chemical precipitation. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 1585-1593.	0.9	22
106	Enhancement of textile-dyeing sludge dewaterability using a novel cationic polyacrylamide: role of cationic block structures. <i>RSC Advances</i> , 2017, 7, 11626-11635.	1.7	22
107	Ultrasonic-template technology inducing and regulating cationic microblocks in CPAM: characterization, mechanism and sludge flocculation performance. <i>RSC Advances</i> , 2017, 7, 23444-23456.	1.7	22
108	Magnetic micro-particle conditioning-pressurized vertical electro-osmotic dewatering (MPEOD) of activated sludge: Role and behavior of moisture and organics. <i>Journal of Environmental Sciences</i> , 2018, 74, 147-158.	3.2	22

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109	Effect of fine structure of chitosan-based flocculants on the flocculation of bentonite and humic acid: Evaluation and modeling. <i>Chemosphere</i> , 2021, 264, 128525.	4.2	21
110	Algae removal from raw water by flocculation and the fractal characteristics of flocs. <i>Desalination and Water Treatment</i> , 2015, 56, 894-904.	1.0	20
111	Comparison of initiation methods in the structure of CPAM and sludge flocs properties. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	20
112	Plasma-induced synthesis of chitosan-g-polyacrylamide and its flocculation performance for algae removal. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 954-968.	1.2	20
113	Insight to peroxone-Fe(III) joint conditioning-horizontal electro-dewatering process on water reduction in activated sludge: Performance and mechanisms. <i>Journal of Hazardous Materials</i> , 2021, 402, 123441.	6.5	20
114	The investigation of the specific behavior of a cationic block structure and its excellent flocculation performance in high-turbidity water treatment. <i>RSC Advances</i> , 2018, 8, 15119-15133.	1.7	19
115	Low-pressure UV-initiated synthesis of cationic starch-based flocculant with high flocculation performance. <i>Carbohydrate Polymers</i> , 2021, 273, 118379.	5.1	18
116	Preparation, characterization, and flocculation performance of polyacrylamide-co-diallyldimethylammonium chloride by UV-initiated template polymerization. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	17
117	Degradation of emerging contaminants by Co (III) ions in situ generated on anode surface in aqueous solution. <i>Chemosphere</i> , 2019, 221, 543-553.	4.2	17
118	Sulfonic acid-modified polyacrylamide magnetic composite with wide pH applicability for efficient removal of cationic dyes. <i>Journal of Molecular Liquids</i> , 2020, 319, 114161.	2.3	17
119	Functionalized chitosan-magnetic flocculants for heavy metal and dye removal modeled by an artificial neural network. <i>Separation and Purification Technology</i> , 2022, 282, 120002.	3.9	17
120	Improvement of Sludge Dewaterability by Ultrasound-Initiated Cationic Polyacrylamide with Microblock Structure: The Role of Surface-Active Monomers. <i>Materials</i> , 2017, 10, 282.	1.3	16
121	In-situ pre-concentration through repeated sampling and pyrolysis for ultrasensitive determination of thallium in drinking water by electrothermal atomic absorption spectrometry. <i>Talanta</i> , 2018, 179, 86-91.	2.9	16
122	Evaluation a self-assembled anionic polyacrylamide flocculant for the treatment of hematite wastewater: Role of microblock structure. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 95, 11-20.	2.7	16
123	Assessment of a novel nanostructured flocculant with elevated flocculation and antimicrobial activity. <i>Chemosphere</i> , 2020, 239, 124736.	4.2	16
124	Synthesis and characterization of composite flocculant PAFS-CPAM for the treatment of textile dye wastewater. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	15
125	Fabrication of Tannin-Based Dithiocarbamate Biosorbent and Its Application for Ni(II) Ion Removal. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	1.1	15
126	The catalytic oxidation of malachite green by the microwave-Fenton processes. <i>Water Science and Technology</i> , 2010, 62, 1304-1311.	1.2	14

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127	Evaluation of Dewatering Performance and Fractal Characteristics of Alum Sludge. PLoS ONE, 2015, 10, e0130683.	1.1	14
128	Effective sludge dewatering technique using the combination of Fenton's reagent and CPAM. Canadian Journal of Chemical Engineering, 2018, 96, 1256-1263.	0.9	14
129	Synthesis and Characterization of Ampholytic Flocculant CPCTS-g-P (CTA-DMDAAC) and Its Flocculation Properties for Microcystis Aeruginosa Removal. Processes, 2018, 6, 54.	1.3	14
130	Optimization and mechanism of Acid Orange 7 removal by powdered activated carbon coupled with persulfate by response surface method. Water Science and Technology, 2019, 79, 1195-1205.	1.2	14
131	Preparation and Characterization of a Composite Coagulant: Polyferric Titanium Sulfate. Water, Air, and Soil Pollution, 2016, 227, 1.	1.1	13
132	Synthesis of a cationic polyacrylamide by a photocatalytic surface-initiated method and evaluation of its flocculation and dewatering performance: nano-TiO ₂ as a photo initiator. RSC Advances, 2018, 8, 28329-28340.	1.7	13
133	Functionalized Carbon Nanotube-Mediated Transport in Membranes Containing Fixed-Site Carriers for Fast Pervaporation Desalination. ACS Applied Materials & Interfaces, 2020, 12, 50918-50928.	4.0	13
134	Combination of bacitracin-based flocculant and surface enhanced Raman scattering labels for flocculation, identification and sterilization of multiple bacteria in water treatment. Journal of Hazardous Materials, 2021, 407, 124389.	6.5	13
135	Role of driven approach on the piezoelectric ozonation processes: Comparing ultrasound with hydro-energy as driving forces. Journal of Hazardous Materials, 2021, 418, 126392.	6.5	13
136	Efficient removal of both positively and negatively charged colloidal contaminants using amphoteric starch-based flocculants synthesized by low-pressure UV initiation. Separation and Purification Technology, 2022, 282, 120120.	3.9	13
137	Effect of fresh aluminum hydroxide gels on algae removal from micro-polluted water by polyaluminum chloride coagulant. Journal of the Taiwan Institute of Chemical Engineers, 2016, 63, 195-201.	2.7	12
138	Degradation of chloramphenicol using TiO ₂ /attapulgitite ceramsite particle electrodes. Water Environment Research, 2019, 91, 756-769.	1.3	12
139	Matrix-Assisted Photochemical Vapor Generation for the Direct Determination of Mercury in Domestic Wastewater by Atomic Fluorescence Spectrometry. Spectroscopy Letters, 2014, 47, 604-610.	0.5	10
140	Fabricating a hydrophobic modified flocculant through UVC irradiation initiation for metalworking wastewater treatment. Chemical Engineering Research and Design, 2020, 153, 220-232.	2.7	10
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