

Wenzheng Yu

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.

96
papers

2,523
citations

30
h-index

46
g-index

105
ext. papers

3,237
ext. citations

10.8
avg, IF

5.92
L-index

#	Paper	IF	Citations
96	Copper doped Fe-N-C as an excellent Fenton-like catalyst for membrane fouling mitigation against natural organic matters at neutral pH. <i>Journal of Cleaner Production</i> , 2022 , 335, 130368	10.3	0
95	Dual-site supported graphene oxide membrane with enhanced permeability and selectivity. <i>Journal of Membrane Science</i> , 2022 , 646, 120223	9.6	0
94	Efficient anodic chemical conversion to boost hydrogen evolution with low energy consumption over cobalt-doped nickel sulfide electrocatalyst. <i>Chemical Engineering Journal</i> , 2022 , 433, 134472	14.7	3
93	Reducing ROS generation and accelerating the photocatalytic degradation rate of PPCPs at neutral pH by doping Fe-N-C to g-C ₃ N ₄ . <i>Applied Catalysis B: Environmental</i> , 2022 , 301, 120790	21.8	6
92	Dynamic variations in DOM and DBPs formation potential during surface water treatment by ozonation-nanofiltration: Using spectroscopic indices approach. <i>Chemical Engineering Journal</i> , 2022 , 427, 132010	14.7	3
91	Preparation and evaluation of a high performance Ti ₃ C ₂ T _x -MXene membrane for drinking water treatment. <i>Journal of Membrane Science</i> , 2022 , 120469	9.6	2
90	The role of medium molecular weight organics on reducing disinfection by-products and fouling prevention in nanofiltration.. <i>Water Research</i> , 2022 , 215, 118263	12.5	3
89	Release of dissolved organic carbon from biochar and formation of humic-like component during photoreaction: Effects of Ca ²⁺ and pH. <i>Water Research</i> , 2022 , 118616	12.5	0
88	The influence of crystal structure and formation path of precursor on phosphate adsorption during oxidation-hydrolysis phase transition of siderite. <i>Chemical Engineering Journal</i> , 2021 , 431, 133358	14.7	0
87	Identifying active concentrations of biopolymers for enhancing membrane nanofiltration performance: From bench-scale tests to real production considerations. <i>Science of the Total Environment</i> , 2021 , 818, 151808	10.2	0
86	Towards microplastics contribution for membrane biofouling and disinfection by-products precursors: The effect on microbes. <i>Journal of Hazardous Materials</i> , 2021 , 426, 127797	12.8	2
85	Targeting membrane fouling with low dose oxidant in drinking water treatment: Beneficial effect and biological mechanism.. <i>Water Research</i> , 2021 , 209, 117953	12.5	0
84	The influence of various additives on coagulation process at different dosing point: From a perspective of structure properties. <i>Journal of Environmental Sciences</i> , 2021 , 101, 168-176	6.4	2
83	The Influence of Small Organic Molecules on Coagulation from the Perspective of Hydrolysis Competition and Crystallization. <i>Environmental Science & Technology</i> , 2021 , 55, 7456-7465	10.3	7
82	Enhancing ultrafiltration performance by gravity-driven up-flow slow biofilter pre-treatment to remove natural organic matters and biopolymer foulants. <i>Water Research</i> , 2021 , 195, 117010	12.5	8
81	Evaluating and improving the reliability of the UV-persulfate method for the determination of TOC/DOC in surface waters. <i>Water Research</i> , 2021 , 196, 116918	12.5	3
80	Unraveling membrane fouling induced by chlorinated water versus surface water: biofouling properties and microbiological investigation. <i>Engineering</i> , 2021 ,	9.7	3

79	Comparative investigation on removal characteristics of tetracycline from water by modified wood membranes with different channel walls. <i>Science of the Total Environment</i> , 2021 , 775, 145617	10.2	3
78	Contribution of bacterial extracellular polymeric substances (EPS) in surface water purification. <i>Environmental Pollution</i> , 2021 , 280, 116998	9.3	2
77	Iron-nickel bimetallic metal-organic frameworks as bifunctional Fenton-like catalysts for enhanced adsorption and degradation of organic contaminants under visible light: Kinetics and mechanistic studies. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123261	12.8	46
76	Revisiting the bioelectrochemical system based biosensor for organic sensing and the prospect on constructed wetland-microbial fuel cell. <i>Chemosphere</i> , 2021 , 264, 128532	8.4	12
75	A comparison of the coagulation performance of PAFC and FeSO ₄ for the treatment of leach liquor from Stevia processing. <i>Separation and Purification Technology</i> , 2021 , 255, 117680	8.3	5
74	Evaluation of a novel composite chitosan/graphene oxide membrane for NOM removal during water treatment. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105716	6.8	6
73	Beneficial impacts of natural biopolymers during surface water purification by membrane nanofiltration. <i>Water Research</i> , 2021 , 201, 117330	12.5	4
72	Modulation of dual centers on cobalt-molybdenum oxides featuring synergistic effect of intermediate activation and radical mediator for electrocatalytic urea splitting. <i>Nano Energy</i> , 2021 , 87, 106217	17.1	14
71	A new process combination with high water flux and superior treatment performance for stevia sugar liquor. <i>Chemical Engineering Journal</i> , 2021 , 421, 129901	14.7	0
70	The stimulation of microbial activity by microplastic contributes to membrane fouling in ultrafiltration. <i>Journal of Membrane Science</i> , 2021 , 635, 119477	9.6	5
69	Removal of F and organic matter from coking wastewater by coupling dosing FeCl and AlCl. <i>Journal of Environmental Sciences</i> , 2021 , 110, 2-11	6.4	2
68	Biofouling by ultra-low pressure filtration of surface water: The paramount role of initial available biopolymers. <i>Journal of Membrane Science</i> , 2021 , 640, 119740	9.6	1
67	Discovery of Welcome Biopolymers in Surface Water: Improvements in Drinking Water Production. <i>Environmental Science & Technology</i> , 2021 , 55, 2076-2086	10.3	6
66	Abatement of the membrane biofouling: Performance of an in-situ integrated bioelectrochemical-ultrafiltration system. <i>Water Research</i> , 2020 , 179, 115892	12.5	10
65	Insight into the effect of in-situ galvanic micro-coagulation on membrane fouling mitigation treating surface water. <i>Journal of Membrane Science</i> , 2020 , 610, 118234	9.6	2
64	Citric acid modified wood membranes for efficient adsorption of tetracycline: Effect of alkali pretreatment concentration and adsorption mechanism. <i>Chemical Engineering Journal</i> , 2020 , 393, 124748	14.7	12
63	Transformation of siderite to goethite by humic acid in the natural environment. <i>Communications Chemistry</i> , 2020 , 3,	6.3	15
62	Carbon doped FeO peroxidase-like nanozyme for mitigating the membrane fouling by NOM at neutral pH. <i>Water Research</i> , 2020 , 174, 115637	12.5	11

61	Two-dimensional MXene incorporated graphene oxide composite membrane with enhanced water purification performance. <i>Journal of Membrane Science</i> , 2020 , 593, 117431	9.6	99
60	Tracking metal ion-induced organic membrane fouling in nanofiltration by adopting spectroscopic methods: Observations and predictions. <i>Science of the Total Environment</i> , 2020 , 708, 135051	10.2	3
59	The Fe-N-C oxidase-like nanozyme used for catalytic oxidation of NOM in surface water. <i>Water Research</i> , 2020 , 171, 115491	12.5	15
58	Evaluation of a novel polyamide-polyethylenimine nanofiltration membrane for wastewater treatment: Removal of Cu ²⁺ ions. <i>Chemical Engineering Journal</i> , 2020 , 392, 123769	14.7	23
57	The formation of planar crystalline flocs of FeOOH in Fe(II) coagulation and the influence of humic acid. <i>Water Research</i> , 2020 , 185, 116250	12.5	12
56	Enhancement of phosphate adsorption during mineral transformation of natural siderite induced by humic acid: Mechanism and application. <i>Chemical Engineering Journal</i> , 2020 , 393, 124730	14.7	17
55	Regulating the Interlayer Spacing of Graphene Oxide Membranes and Enhancing their Stability by Use of PACl. <i>Environmental Science & Technology</i> , 2019 , 53, 11949-11959	10.3	23
54	Application of Integrated Bioelectrochemical-Wetland Systems for Future Sustainable Wastewater Treatment. <i>Environmental Science & Technology</i> , 2019 , 53, 1741-1743	10.3	22
53	The variation of flocs activity during floc breakage and aging, adsorbing phosphate, humic acid and clay particles. <i>Water Research</i> , 2019 , 155, 131-141	12.5	29
52	2D kaolin ultrafiltration membrane with ultrahigh flux for water purification. <i>Water Research</i> , 2019 , 156, 425-433	12.5	21
51	Effect of pre-coagulation using different aluminium species on crystallization of cake layer and membrane fouling. <i>Npj Clean Water</i> , 2019 , 2,	11.2	3
50	Combining Magnetic Ion Exchange Media and Microsand before Coagulation as Pretreatment for Submerged Ultrafiltration: Biopolymers and Small Molecular Weight Organic Matter. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 18566-18573	8.3	5
49	Prevention of UF membrane fouling in drinking water treatment by addition of HO during membrane backwashing. <i>Water Research</i> , 2019 , 149, 394-405	12.5	24
48	Ultrafiltration and nanofiltration membrane fouling by natural organic matter: Mechanisms and mitigation by pre-ozonation and pH. <i>Water Research</i> , 2018 , 139, 353-362	12.5	89
47	Maximizing the energy harvest from a microbial fuel cell embedded in a constructed wetland. <i>Applied Energy</i> , 2018 , 214, 83-91	10.7	27
46	The antifouling performance of an ultrafiltration membrane with pre-deposited carbon nanofiber layers for water treatment. <i>Journal of Membrane Science</i> , 2018 , 557, 87-95	9.6	18
45	Applying multiple bio-cathodes in constructed wetland-microbial fuel cell for promoting energy production and bioelectrical derived nitrification-denitrification process. <i>Chemical Engineering Journal</i> , 2018 , 344, 105-113	14.7	62
44	Effect of crystallization of settled aluminum hydroxide precipitate on "dissolved Al". <i>Water Research</i> , 2018 , 143, 346-354	12.5	13

43	Effect of intermittent ultrasound on controlling membrane fouling with coagulation pre-treatment: Significance of the nature of adsorbed organic matter. <i>Journal of Membrane Science</i> , 2017 , 535, 168-177	9.6	21
42	Membrane fouling by extracellular polymeric substances after ozone pre-treatment: Variation of nano-particles size. <i>Water Research</i> , 2017 , 120, 146-155	12.5	48
41	Coagulation of surface water: Observations on the significance of biopolymers. <i>Water Research</i> , 2017 , 126, 144-152	12.5	49
40	Mitigation of NOM fouling of ultrafiltration membranes by pre-deposited heated aluminum oxide particles with different crystallinity. <i>Journal of Membrane Science</i> , 2017 , 544, 359-367	9.6	13
39	Development of a stable cation modified graphene oxide membrane for water treatment. <i>2D Materials</i> , 2017 , 4, 045006	5.9	50
38	Trivalent metal cation cross-linked graphene oxide membranes for NOM removal in water treatment. <i>Journal of Membrane Science</i> , 2017 , 542, 31-40	9.6	59
37	Application of polyacrylamide flocculation with and without alum coagulation for mitigating ultrafiltration membrane fouling: Role of floc structure and bacterial activity. <i>Chemical Engineering Journal</i> , 2017 , 307, 41-48	14.7	49
36	Prevention of PVDF ultrafiltration membrane fouling by coating MnO ₂ nanoparticles with ozonation. <i>Scientific Reports</i> , 2016 , 6, 30144	4.9	21
35	Application of pulsed UV-irradiation and pre-coagulation to control ultrafiltration membrane fouling in the treatment of micro-polluted surface water. <i>Water Research</i> , 2016 , 107, 83-92	12.5	43
34	Coagulation and oxidation for controlling ultrafiltration membrane fouling in drinking water treatment: Application of ozone at low dose in submerged membrane tank. <i>Water Research</i> , 2016 , 95, 1-10	12.5	91
33	Evaluation of ferrate as a coagulant aid/oxidant pretreatment for mitigating submerged ultrafiltration membrane fouling in drinking water treatment. <i>Chemical Engineering Journal</i> , 2016 , 298, 234-242	14.7	48
32	Effect of sludge retention on UF membrane fouling: The significance of sludge crystallization and EPS increase. <i>Water Research</i> , 2015 , 83, 319-28	12.5	44
31	Performance of an integrated granular media Ultrafiltration membrane process for drinking water treatment. <i>Journal of Membrane Science</i> , 2015 , 492, 164-172	9.6	28
30	Enhanced removal of manganese in organic-rich surface water by combined sodium hypochlorite and potassium permanganate during drinking water treatment. <i>RSC Advances</i> , 2015 , 5, 27970-27977	3.7	12
29	Pre-coagulation on the submerged membrane fouling in nano-scale: Effect of sedimentation process. <i>Chemical Engineering Journal</i> , 2015 , 262, 676-682	14.7	35
28	Dependence of floc properties on coagulant type, dosing mode and nature of particles. <i>Water Research</i> , 2015 , 68, 119-26	12.5	48
27	Application of Fe(II)/K ₂ MnO ₄ as a pre-treatment for controlling UF membrane fouling in drinking water treatment. <i>Journal of Membrane Science</i> , 2015 , 473, 283-291	9.6	36
26	Contribution of Fe ₃ O ₄ nanoparticles to the fouling of ultrafiltration with coagulation pre-treatment. <i>Scientific Reports</i> , 2015 , 5, 13067	4.9	6

25	Modification of ultrafiltration membrane with nanoscale zerovalent iron layers for humic acid fouling reduction. <i>Water Research</i> , 2015 , 71, 140-9	12.5	44
24	Effect of low dosage of coagulant on the ultrafiltration membrane performance in feedwater treatment. <i>Water Research</i> , 2014 , 51, 277-83	12.5	49
23	Pre-treatment for ultrafiltration: effect of pre-chlorination on membrane fouling. <i>Scientific Reports</i> , 2014 , 4, 6513	4.9	33
22	Comparison of iron (III) and alum salt on ultrafiltration membrane fouling by alginate. <i>Desalination</i> , 2014 , 354, 153-159	10.3	15
21	Investigation of pre-coagulation and powder activate carbon adsorption on ultrafiltration membrane fouling. <i>Journal of Membrane Science</i> , 2014 , 459, 157-168	9.6	58
20	Investigation of the property of kaolin-alum flocs at acidic pH. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 443, 177-181	5.1	11
19	The pre-treatment of submerged ultrafiltration membrane by coagulation-Effect of polyacrylamide as a coagulant aid. <i>Journal of Membrane Science</i> , 2013 , 446, 50-58	9.6	49
18	Comparison of submerged coagulation and traditional coagulation on membrane fouling: Effect of active flocs. <i>Desalination</i> , 2013 , 309, 11-17	10.3	14
17	Effect of humic acid on coagulation performance during aggregation at low temperature. <i>Chemical Engineering Journal</i> , 2013 , 223, 412-417	14.7	20
16	Comparison of FeCl ₃ and alum pre-treatment on UF membrane fouling. <i>Chemical Engineering Journal</i> , 2013 , 234, 158-165	14.7	49
15	Effect of iron/aluminum hydrolyzed precipitate layer on ultrafiltration membrane. <i>Desalination</i> , 2013 , 330, 16-21	10.3	16
14	Membrane fouling by Fe-Humic cake layers in nano-scale: Effect of in-situ formed Fe(III) coagulant. <i>Journal of Membrane Science</i> , 2013 , 431, 47-54	9.6	16
13	Aggregation of nano-sized alum-humic primary particles. <i>Separation and Purification Technology</i> , 2012 , 99, 44-49	8.3	13
12	Effect of dosage strategy on Al-humic flocs growth and re-growth. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 404, 106-111	5.1	26
11	Characterization of organic membrane foulants in a submerged membrane bioreactor with pre-ozonation using three-dimensional excitation-emission matrix fluorescence spectroscopy. <i>Water Research</i> , 2011 , 45, 2111-21	12.5	195
10	Effect of two-stage coagulant addition on coagulation-ultrafiltration process for treatment of humic-rich water. <i>Water Research</i> , 2011 , 45, 4260-8	12.5	67
9	Breakage and re-growth of flocs: effect of additional doses of coagulant species. <i>Water Research</i> , 2011 , 45, 6718-24	12.5	42
8	Influence of flocs breakage process on submerged ultrafiltration membrane fouling. <i>Journal of Membrane Science</i> , 2011 , 385-386, 194-199	9.6	24

7	The role of mixing conditions on floc growth, breakage and re-growth. <i>Chemical Engineering Journal</i> , 2011 , 171, 425-430	14.7	83
6	Effect of enhanced coagulation by KMnO ₄ on the fouling of ultrafiltration membranes. <i>Water Science and Technology</i> , 2011 , 64, 1497-502	2.2	13
5	Effect of Coagulation and Applied Breakage Shear on the Regrowth of Kaolin Floccs. <i>Environmental Engineering Science</i> , 2010 , 27, 483-492	2	15
4	Breakage and regrowth of Al-humic floccs--effect of additional coagulant dosage. <i>Environmental Science & Technology</i> , 2010 , 44, 6371-6	10.3	77
3	Breakage and re-growth of floccs formed by charge neutralization using alum and polyDADMAC. <i>Water Research</i> , 2010 , 44, 3959-65	12.5	59
2	The effect of additional coagulant on the re-growth of alumKaolin floccs. <i>Separation and Purification Technology</i> , 2010 , 74, 305-309	8.3	37
1	Breakage and re-growth of floccs formed by alum and PACl. <i>Powder Technology</i> , 2009 , 189, 439-443	5.2	92