

Yuan Wang

List of Publications by Citations

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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.

37
papers

934
citations

18
h-index

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g-index

39
ext. papers

1,121
ext. citations

9.2
avg. IF

4.31
L-index

#	Paper	IF	Citations
37	Effect of ferric and ferrous iron addition on phosphorus removal and fouling in submerged membrane bioreactors. <i>Water Research</i> , 2015 , 69, 210-222	12.5	91
36	An integrated, solar-driven membrane distillation system for water purification and energy generation. <i>Applied Energy</i> , 2019 , 237, 534-548	10.7	83
35	Mixing characterisation of full-scale membrane bioreactors: CFD modelling with experimental validation. <i>Water Research</i> , 2010 , 44, 3181-91	12.5	73
34	CFD simulations of membrane filtration zone in a submerged hollow fibre membrane bioreactor using a porous media approach. <i>Journal of Membrane Science</i> , 2010 , 363, 57-66	9.6	58
33	Calcium-mediated polysaccharide gel formation and breakage: Impact on membrane foulant hydraulic properties. <i>Journal of Membrane Science</i> , 2015 , 475, 395-405	9.6	48
32	Removal of phosphorus from wastewaters using ferrous salts - a pilot scale membrane bioreactor study. <i>Water Research</i> , 2014 , 57, 140-50	12.5	47
31	Iron and phosphorus speciation in Fe-conditioned membrane bioreactor activated sludge. <i>Water Research</i> , 2015 , 76, 213-26	12.5	44
30	Numerical simulation of bubble induced shear in membrane bioreactors: effects of mixed liquor rheology and membrane configuration. <i>Water Research</i> , 2015 , 75, 131-45	12.5	41
29	A numerical approach to module design for crossflow vacuum membrane distillation systems. <i>Journal of Membrane Science</i> , 2016 , 510, 489-496	9.6	38
28	Computational fluid dynamics simulations of MBRs: Inside submerged versus outside submerged membranes. <i>Desalination</i> , 2009 , 236, 244-251	10.3	38
27	Evaluation of full-scale membrane bioreactor mixing performance and the effect of membrane configuration. <i>Journal of Membrane Science</i> , 2010 , 350, 101-108	9.6	30
26	Impact of iron dosing of membrane bioreactors on membrane fouling. <i>Chemical Engineering Journal</i> , 2014 , 252, 239-248	14.7	27
25	Numerical simulations of impact of membrane module design variables on aeration patterns in membrane bioreactors. <i>Journal of Membrane Science</i> , 2016 , 520, 201-213	9.6	27
24	Optimising mixing and nutrient removal in membrane bioreactors: CFD modelling and experimental validation. <i>Desalination</i> , 2010 , 250, 815-818	10.3	26
23	Cleaning strategies for iron-fouled membranes from submerged membrane bioreactor treatment of wastewaters. <i>Journal of Membrane Science</i> , 2015 , 475, 9-21	9.6	25
22	Diagnosis of membrane bioreactor performance through residence time distribution measurements: a preliminary study. <i>Desalination</i> , 2009 , 236, 120-126	10.3	25
21	Impact of bubbly flow in feed channel of forward osmosis for wastewater treatment: Flux performance and biofouling. <i>Chemical Engineering Journal</i> , 2017 , 316, 1047-1058	14.7	23

20	Shear stress in a pressure-driven membrane system and its impact on membrane fouling from a hydrodynamic condition perspective: a review. <i>Journal of Chemical Technology and Biotechnology</i> , 2017 , 92, 463-478	3.5	22
19	Numerical study of CaCO ₃ scaling in submerged vacuum membrane distillation and crystallization (VMDC). <i>Journal of Membrane Science</i> , 2018 , 559, 87-97	9.6	18
18	Particle deposition on flat sheet membranes under bubbly and slug flow aeration in coagulation-microfiltration process: Effects of particle characteristic and shear stress. <i>Journal of Membrane Science</i> , 2017 , 541, 668-676	9.6	18
17	CFD modelling of uneven flows behaviour in flat-sheet membrane bioreactors: From bubble generation to shear stress distribution. <i>Journal of Membrane Science</i> , 2019 , 570-571, 146-155	9.6	17
16	Fluid Structure Interaction analysis of lateral fibre movement in submerged membrane reactors. <i>Journal of Membrane Science</i> , 2016 , 504, 240-250	9.6	16
15	Characterising nanostructure functionality of a cellulose triacetate forward osmosis membrane using electrical impedance spectroscopy. <i>Journal of Membrane Science</i> , 2014 , 467, 292-302	9.6	14
14	Development of a mobile groundwater desalination system for communities in rural India. <i>Water Research</i> , 2018 , 144, 642-655	12.5	13
13	Insights on pulsed bubble control of membrane fouling: Effect of bubble size and frequency. <i>Journal of Membrane Science</i> , 2018 , 554, 59-70	9.6	12
12	Evaluation of membrane bioreactor performance via residence time distribution: effects of membrane configuration and mixing. <i>Water Science and Technology</i> , 2008 , 57, 353-9	2.2	12
11	Simulation of NOM removal by capillary NF: A numerical method for full-scale plant design. <i>Journal of Membrane Science</i> , 2018 , 555, 229-236	9.6	11
10	Evaluation of novel hollow fibre membranes for NOM removal by advanced membrane autopsy. <i>Water Science and Technology: Water Supply</i> , 2016 , 16, 628-640	1.4	10
9	Membrane bioreactors: overview of the effects of module geometry on mixing energy. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2009 , 4, 322-333	1.3	8
8	Optimizing Hollow Fibre Nanofiltration for Organic Matter Rich Lake Water. <i>Water (Switzerland)</i> , 2016 , 8, 430	3	7
7	Impact of ferrous iron dosing on iron and phosphorus solids speciation and transformation in a pilot scale membrane bioreactor. <i>Environmental Science: Water Research and Technology</i> , 2019 , 5, 1400-1411	4.2	5
6	Scale-up and Modelling of Flow-electrode CDI Using Tubular Electrodes. <i>Water Research</i> , 2021 , 203, 117498	4.8	3
5	CFD Simulations of Mixing and Nutrient Removal in Full-Scale Membrane Bioreactors with Experimental Validation. <i>Proceedings of the Water Environment Federation</i> , 2009 , 2009, 5616-5625		1
4	Analysis of Concentration Polarisation in Full-Size Spiral Wound Reverse Osmosis Membranes Using Computational Fluid Dynamics. <i>Membranes</i> , 2021 , 11,	3.8	1
3	Optimization of constant-current operation in membrane capacitive deionization (MCDI) using variable discharging operations. <i>Water Research</i> , 2021 , 204, 117646	12.5	1

2	Influence of salinity on the heterogeneous catalytic ozonation process: Implications to treatment of high salinity wastewater. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127255	12.8	1
1	Electrochemical Ni-EDTA degradation and Ni removal from electroless plating wastewaters using an innovative Ni-doped PbO anode: Optimization and mechanism. <i>Journal of Hazardous Materials</i> , 2021 , 424, 127655	12.8	0