

Greg Leslie

List of Publications by Year in descending order

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91
papers

3,959
citations

109264

35
h-index

128225

60
g-index

92
all docs

92
docs citations

92
times ranked

4078
citing authors

#	ARTICLE	IF	CITATIONS
1	Scale formation and control in high pressure membrane water treatment systems: A review. Journal of Membrane Science, 2011, 383, 1-16.	4.1	519
2	Degradation of 1,4-dioxane in water using TiO ₂ based photocatalytic and H ₂ O ₂ /UV processes. Journal of Hazardous Materials, 2007, 146, 496-501.	6.5	155
3	Assessing the oxidative degradation of polyamide reverse osmosis membraneâ€™ Accelerated ageing with hypochlorite exposure. Journal of Membrane Science, 2010, 347, 159-164.	4.1	138
4	Evaluation of effluent organic matter fouling in ultrafiltration treatment using advanced organic characterisation techniques. Journal of Membrane Science, 2011, 382, 50-59.	4.1	133
5	An integrated, solar-driven membrane distillation system for water purification and energy generation. Applied Energy, 2019, 237, 534-548.	5.1	127
6	Cake resistance and solute rejection in bacterial microfiltration: The role of the extracellular matrix. Journal of Membrane Science, 1993, 79, 35-53.	4.1	121
7	Extraordinary water adsorption characteristics of graphene oxide. Chemical Science, 2018, 9, 5106-5111.	3.7	112
8	Towards new opportunities for reuse, recycling and disposal of used reverse osmosis membranes. Desalination, 2012, 299, 103-112.	4.0	106
9	Environmental Benefits and Burdens of Phosphorus Recovery from Municipal Wastewater. Environmental Science & Technology, 2015, 49, 8611-8622.	4.6	106
10	Effect of ferric and ferrous iron addition on phosphorus removal and fouling in submerged membrane bioreactors. Water Research, 2015, 69, 210-222.	5.3	105
11	Removal Efficiency and Integrity Monitoring Techniques for Virus Removal by Membrane Processes. Critical Reviews in Environmental Science and Technology, 2012, 42, 891-933.	6.6	94
12	Mixing characterisation of full-scale membrane bioreactors: CFD modelling with experimental validation. Water Research, 2010, 44, 3181-3191.	5.3	93
13	Comparative life cycle assessment of end-of-life options for reverse osmosis membranes. Desalination, 2015, 357, 45-54.	4.0	82
14	Comparison of treatment options for removal of recalcitrant dissolved organic matter from paper mill effluent. Chemosphere, 2010, 81, 86-91.	4.2	80
15	CFD simulations of membrane filtration zone in a submerged hollow fibre membrane bioreactor using a porous media approach. Journal of Membrane Science, 2010, 363, 57-66.	4.1	78
16	In situ structural and functional characterization of reverse osmosis membranes using electrical impedance spectroscopy. Journal of Membrane Science, 2013, 425-426, 89-97.	4.1	72
17	Mechanical analysis of hollow fiber membrane integrity in water reuse applications. Desalination, 2005, 180, 5-14.	4.0	70
18	Relative impact of fouling and cleaning on PVDF membrane hydraulic performances. Separation and Purification Technology, 2012, 90, 204-212.	3.9	60

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19	Production and characterisation of UF membranes by chemical conversion of used RO membranes. <i>Journal of Membrane Science</i> , 2013, 447, 203-211.	4.1	60
20	Real-time monitoring of scale formation in reverse osmosis using electrical impedance spectroscopy. <i>Journal of Membrane Science</i> , 2014, 453, 320-327.	4.1	57
21	Surfactant modified graphene oxide laminates for filtration. <i>Carbon</i> , 2017, 116, 240-245.	5.4	55
22	Removal of phosphorus from wastewaters using ferrous salts – A pilot scale membrane bioreactor study. <i>Water Research</i> , 2014, 57, 140-150.	5.3	54
23	Natural versus wastewater derived dissolved organic carbon: Implications for the environmental fate of organic micropollutants. <i>Water Research</i> , 2011, 45, 4227-4237.	5.3	53
24	Numerical simulation of bubble induced shear in membrane bioreactors: Effects of mixed liquor rheology and membrane configuration. <i>Water Research</i> , 2015, 75, 131-145.	5.3	52
25	Free radical exit in emulsion polymerization. II. Model discrimination via experiment. <i>Journal of Polymer Science Part A</i> , 1994, 32, 631-649.	2.5	50
26	The Performance and Fouling Control of Submerged Hollow Fiber (HF) Systems: A Review. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 765.	1.3	47
27	Removal of contaminants of concern in water using advanced oxidation techniques. <i>Water Science and Technology</i> , 2007, 55, 301-306.	1.2	45
28	Computational fluid dynamics simulations of MBRs: Inside submerged versus outside submerged membranes. <i>Desalination</i> , 2009, 236, 244-251.	4.0	44
29	A numerical approach to module design for crossflow vacuum membrane distillation systems. <i>Journal of Membrane Science</i> , 2016, 510, 489-496.	4.1	44
30	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.	1.6	42
31	Pathways for integrated concentrated solar power - Desalination: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 119, 109609.	8.2	41
32	Phosphorus recovery from centralised municipal water recycling plants. <i>Chemical Engineering Research and Design</i> , 2012, 90, 78-85.	2.7	40
33	Surface modification of nanofiltration membranes to improve the removal of organic micropollutants: Linking membrane characteristics to solute transmission. <i>Water Research</i> , 2021, 203, 117520.	5.3	40
34	Potential upgrading of bio-refinery streams by electrodialysis. <i>Desalination</i> , 2017, 415, 20-28.	4.0	38
35	Evaluation of full-scale membrane bioreactor mixing performance and the effect of membrane configuration. <i>Journal of Membrane Science</i> , 2010, 350, 101-108.	4.1	36
36	Enhancement of reverse osmosis water recovery using interstage calcium precipitation. <i>Desalination</i> , 2012, 295, 43-52.	4.0	36

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37	Metal-cation-modified graphene oxide membranes for water permeation. Carbon, 2020, 170, 646-657.	5.4	35
38	Impact of membrane ageing on reverse osmosis performance – Implications on validation protocol. Journal of Membrane Science, 2016, 520, 37-44.	4.1	34
39	Numerical simulations of impact of membrane module design variables on aeration patterns in membrane bioreactors. Journal of Membrane Science, 2016, 520, 201-213.	4.1	32
40	Optimising mixing and nutrient removal in membrane bioreactors: CFD modelling and experimental validation. Desalination, 2010, 250, 815-818.	4.0	31
41	CFD modelling of uneven flows behaviour in flat-sheet membrane bioreactors: From bubble generation to shear stress distribution. Journal of Membrane Science, 2019, 570-571, 146-155.	4.1	31
42	Cleaning strategies for iron-fouled membranes from submerged membrane bioreactor treatment of wastewaters. Journal of Membrane Science, 2015, 475, 9-21.	4.1	30
43	Scaling prediction based on thermodynamic equilibrium calculation – scopes and limitations. Desalination, 2009, 244, 31-47.	4.0	29
44	An alternative membrane treatment process to produce low-salt and high-nutrient recycled water suitable for irrigation purposes. Desalination, 2011, 274, 144-149.	4.0	27
45	Accelerated seeded precipitation pre-treatment of municipal wastewater to reduce scaling. Chemosphere, 2008, 72, 243-249.	4.2	26
46	MTBE and priority contaminant treatment with high energy electron beam injection. Radiation Physics and Chemistry, 2002, 65, 451-460.	1.4	25
47	Diagnosis of membrane bioreactor performance through residence time distribution measurements – a preliminary study. Desalination, 2009, 236, 120-126.	4.0	25
48	Particle deposition on flat sheet membranes under bubbly and slug flow aeration in coagulation-microfiltration process: Effects of particle characteristic and shear stress. Journal of Membrane Science, 2017, 541, 668-676.	4.1	25
49	Treatment and resource recovery options for first and second generation bioethanol spentwash – A review. Chemosphere, 2020, 241, 124975.	4.2	25
50	Improving the performance of vacuum membrane distillation using a 3D-printed helical baffle and a superhydrophobic nanocomposite membrane. Separation and Purification Technology, 2020, 248, 117072.	3.9	25
51	Impact of module design in forward osmosis and pressure assisted osmosis: An experimental and numerical study. Desalination, 2018, 426, 108-117.	4.0	24
52	Selective separation of contaminants from paper mill effluent using nanofiltration. Chemical Engineering Research and Design, 2012, 90, 576-583.	2.7	23
53	Diagnosis of dissolved organic matter removal by GAC treatment in biologically treated papermill effluents using advanced organic characterisation techniques. Chemosphere, 2012, 86, 829-836.	4.2	22
54	Development of a mobile groundwater desalination system for communities in rural India. Water Research, 2018, 144, 642-655.	5.3	22

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55	Evaluation of ion exchange resins for the removal of dissolved organic matter from biologically treated paper mill effluent. <i>Chemosphere</i> , 2013, 90, 1461-1469.	4.2	21
56	Microfiltration of biomass and biofluids: Effects of membrane morphology and operating conditions. <i>Filtration and Separation</i> , 1991, 28, 332-331.	0.2	20
57	Numerical study of CaCO ₃ scaling in submerged vacuum membrane distillation and crystallization (VMDC). <i>Journal of Membrane Science</i> , 2018, 559, 87-97.	4.1	20
58	Comparison of reverse osmosis membrane fouling profiles from Australian water recycling plants. <i>Journal of Membrane Science</i> , 2012, 407-408, 8-16.	4.1	19
59	Fluid Structure Interaction analysis of lateral fibre movement in submerged membrane reactors. <i>Journal of Membrane Science</i> , 2016, 504, 240-250.	4.1	19
60	Characterising nanostructure functionality of a cellulose triacetate forward osmosis membrane using electrical impedance spectroscopy. <i>Journal of Membrane Science</i> , 2014, 467, 292-302.	4.1	18
61	Insights on pulsed bubble control of membrane fouling: Effect of bubble size and frequency. <i>Journal of Membrane Science</i> , 2018, 554, 59-70.	4.1	18
62	Non-microbial indicators for monitoring virus removal by ultrafiltration membranes. <i>Journal of Membrane Science</i> , 2014, 454, 193-199.	4.1	17
63	Organic Fouling of Ultrafiltration Membrane: Detailed Characterization by Liquid Chromatography with Organic Carbon Detector (LC-OCD). <i>Separation Science and Technology</i> , 2012, 48, 199-207.	1.3	15
64	Hazardous events in membrane bioreactors – Part 3: Impacts on microorganism log removal efficiencies. <i>Journal of Membrane Science</i> , 2016, 497, 514-523.	4.1	14
65	In situ electrical impedance characterization of fouling by calcium agents in reverse osmosis membrane systems using Maxwell Wagner and hydrodynamic models. <i>Desalination</i> , 2017, 403, 64-79.	4.0	14
66	Evaluation of membrane bioreactor performance via residence time distribution: effects of membrane configuration and mixing. <i>Water Science and Technology</i> , 2008, 57, 353-359.	1.2	13
67	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.	1.0	12
68	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.	4.1	12
69	Characterisation of dissolved organic matter in fermentation industry effluents and comparison with model compounds. <i>Chemosphere</i> , 2019, 234, 630-639.	4.2	12
70	Post-transition metal/polymer composites for the separation and sensing of alkali metal ions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19854-19864.	5.2	12
71	Membrane bioreactors: overview of the effects of module geometry on mixing energy. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2009, 4, 322-333.	0.8	11
72	Limitations for transferring lab-scale microfiltration results to large-scale membrane bioreactor (MBR) processes. <i>Separation and Purification Technology</i> , 2012, 95, 202-215.	3.9	11

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73	Numerical and experimental investigation of pulse bubble aeration with high packing density hollow-fibre MBRs. <i>Water Research</i> , 2019, 160, 60-69.	5.3	11
74	Thermodynamic efficiencies and GHG emissions of alternative desalination processes. <i>Water Science and Technology: Water Supply</i> , 2010, 10, 416-427.	1.0	10
75	Optimizing Hollow Fibre Nanofiltration for Organic Matter Rich Lake Water. <i>Water (Switzerland)</i> , 2016, 8, 430.	1.2	10
76	Using MF-NF-RO train to produce low salt and high nutrient value recycled water for agricultural irrigation. <i>Water Science and Technology</i> , 2008, 58, 1837-1840.	1.2	9
77	A New Method for Determining Propagation Rate Coefficients at High Fraction of Polymer. <i>Australian Journal of Chemistry</i> , 1988, 41, 279.	0.5	8
78	Evaluating the impact of recycled fiber content on effluent recycling in newsprint manufacture. <i>Chemosphere</i> , 2013, 92, 1513-1519.	4.2	8
79	In situ characterization of fouling in reverse osmosis membranes using electrical impedance spectroscopy. <i>Journal of Physics: Conference Series</i> , 2013, 434, 012089.	0.3	7
80	A Study of Failure Events in Drinking Water Systems as a Basis for Comparison and Evaluation of the Efficacy of Potable Reuse Schemes. <i>Environmental Health Insights</i> , 2015, 9s3, EHI.S31749.	0.6	7
81	Developing Bayesian networks in managing the risk of Legionella colonisation of groundwater aeration systems. <i>Water Research</i> , 2021, 193, 116854.	5.3	6
82	Polymer-Fraction Dependence of Entry Rate Coefficients in Emulsion Polymerization. <i>Australian Journal of Chemistry</i> , 1992, 45, 2057.	0.5	5
83	Transforming "value engineering"™ from an art form into a science " process resilience modelling. <i>Water Practice and Technology</i> , 2014, 9, 104-114.	1.0	5
84	Impact of FO Operating Pressure and Membrane Tensile Strength on Draw-Channel Geometry and Resulting Hydrodynamics. <i>Membranes</i> , 2020, 10, 111.	1.4	4
85	A statistical review of pathogen and indicator log removal values from membrane bioreactor literature. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 1866-1890.	6.6	3
86	Polymer leachates emulate naturally derived fluorescent dissolved organic matter: Understanding and managing sample container interferences. <i>Water Research</i> , 2021, 204, 117614.	5.3	3
87	Impact of Forward Osmosis Operating Pressure on Deformation, Efficiency and Concentration Polarisation with Novel Links to CFD. <i>Membranes</i> , 2021, 11, 161.	1.4	2
88	Log removal values in membrane bioreactors: Correlation of surrogate monitoring and operational parameters. <i>Journal of Water Process Engineering</i> , 2021, 41, 102032.	2.6	2
89	Technologies for Safe Water Supply in Arsenic Affected Villages of Bangladesh Utilizing a Pedal Pump. , 2007, , .		1
90	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.	0.0	1

#	ARTICLE	IF	CITATIONS
91	A holistic green system coupling hydrogen production with wastewater valorisation. EcoMat, 0, , .	6.8	1