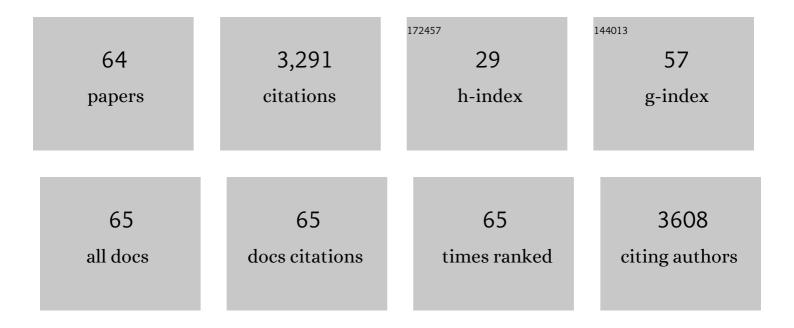
## Robert W Lovitt

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Fouling strategies and the cleaning system of NF membranes and factors affecting cleaning efficiency. Journal of Membrane Science, 2007, 303, 4-28.	8.2	484
2	Dielectric permittivity of microbial suspensions at radio frequencies: a novel method for the real-time estimation of microbial biomass. Enzyme and Microbial Technology, 1987, 9, 181-186.	3.2	242
3	Using microalgae in the circular economy to valorise anaerobic digestate: challenges and opportunities. Bioresource Technology, 2018, 267, 732-742.	9.6	159
4	Atomic Force Microscopy Study of the Adhesion of Saccharomyces cerevisiae. Journal of Colloid and Interface Science, 2001, 237, 54-61.	9.4	148
5	Complex Effluent Streams as a Potential Source of Volatile Fatty Acids. Waste and Biomass Valorization, 2013, 4, 557-581.	3.4	125
6	Cleaning results of new and fouled nanofiltration membrane characterized by zeta potential and permeability. Separation and Purification Technology, 2007, 54, 234-240.	7.9	119
7	A new technique for membrane characterisation: direct measurement of the force of adhesion of a single particle using an atomic force microscope. Journal of Membrane Science, 1998, 139, 269-274.	8.2	96
8	Direct measurement of the force of adhesion of a single biological cell using an atomic force microscope. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 136, 231-234.	4.7	95
9	The measurement ofBacillus mycoides spore adhesion using atomic force microscopy, simple counting methods, and a spinning disk technique. Biotechnology and Bioengineering, 2002, 79, 170-179.	3.3	92
10	Microbial synthesis gas utilization and ways to resolve kinetic and mass-transfer limitations. Bioresource Technology, 2015, 177, 361-374.	9.6	91
11	Effect of CO partial pressure on cell-recycled continuous CO fermentation by Eubacterium limosum KIST612. Process Biochemistry, 2001, 37, 411-421.	3.7	90
12	Integration of membrane technology in microalgae biorefineries. Journal of Membrane Science, 2014, 464, 86-99.	8.2	89
13	Direct Measurement of Interactions between Adsorbed Protein Layers Using an Atomic Force Microscope. Journal of Colloid and Interface Science, 1998, 197, 348-352.	9.4	86
14	Title is missing!. Biotechnology Letters, 2000, 22, 893-903.	2.2	83
15	An atomic force microscopy study of the adhesion of a silica sphere to a silica surface—effects of surface cleaning. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 157, 117-125.	4.7	81
16	Characterisation of membrane surfaces: direct measurement of biological adhesion using an atomic force microscope. Journal of Membrane Science, 1999, 154, 205-212.	8.2	79
17	Cleaning results of new and fouled nanofiltration membrane characterized by contact angle, updated DSPM, flux and salts rejection. Applied Surface Science, 2008, 254, 3983-3992.	6.1	72
18	Nanofiltration of treated digested agricultural wastewater for recovery of carboxylic acids. Journal of Cleaner Production, 2016, 112, 4749-4761.	9.3	68

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19	Moving towards sustainable resources: Recovery and fractionation of nutrients from dairy manure digestate using membranes. Water Research, 2015, 80, 80-89.	11.3	67
20	Atomic force microscope studies of membranes: force measurement and imaging in electrolyte solutions. Journal of Membrane Science, 1997, 126, 77-89.	8.2	60
21	Utilising light-emitting diodes of specific narrow wavelengths for the optimization and co-production of multiple high-value compounds in Porphyridium purpureum. Bioresource Technology, 2016, 221, 607-615.	9.6	53
22	Atomic Force Microscope Studies of Membranes: Surface Pore Structures of Diaflo Ultrafiltration Membranes. Journal of Colloid and Interface Science, 1996, 180, 350-359.	9.4	52
23	Proline reduction byClostridium sporogenesis coupled to vectorial proton ejection. FEMS Microbiology Letters, 1986, 36, 269-273.	1.8	49
24	Solvent Production by Microorganisms. Critical Reviews in Biotechnology, 1988, 7, 107-186.	9.0	44
25	Formulation of defined media for carbon monoxide fermentation by Eubacterium limosum KIST612 and the growth characteristics of the bacterium. Journal of Bioscience and Bioengineering, 1999, 88, 682-685.	2.2	43
26	Valorising nutrient-rich digestate: Dilution, settlement and membrane filtration processing for optimisation as a waste-based media for microalgal cultivation. Waste Management, 2020, 118, 197-208.	7.4	43
27	Direct Quantification of Aspergillus niger Spore Adhesion in Liquid Using an Atomic Force Microscope. Journal of Colloid and Interface Science, 2000, 228, 428-433.	9.4	41
28	Selection for fitness at the individual or population levels: Modelling effects of genetic modifications in microalgae on productivity and environmental safety. Journal of Theoretical Biology, 2010, 263, 269-280.	1.7	38
29	Direct quantification of Aspergillus niger spore adhesion to mica in air using an atomic force microscope. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 173, 205-210.	4.7	37
30	Bulk and surface characterization of composite UF membranes Atomic force microscopy, gas adsorption-desorption and liquid displacement techniques. Journal of Membrane Science, 1997, 128, 7-21.	8.2	31
31	The filtration characteristics of anaerobic digester effluents employing cross flow ceramic membrane microfiltration for nutrient recovery. Desalination, 2014, 341, 27-37.	8.2	30
32	Minimizing the Energy Requirement of Dewatering Scenedesmus sp. by Microfiltration: Performance, Costs, and Feasibility. Environmental Science & Technology, 2014, 48, 845-853.	10.0	29
33	The effects of electrostatic interactions on the rejection of colloids by membrane pores—visualisation and quantification. Chemical Engineering Science, 1999, 54, 369-375.	3.8	28
34	Exploring microbial communities and differences of cartridge filters (CFs) and reverse osmosis (RO) membranes for seawater desalination processes. Desalination, 2012, 298, 85-92.	8.2	28
35	Formulation and utilisation of spent anaerobic digestate fluids for the growth and product formation of single cell algal cultures in heterotrophic and autotrophic conditions. Bioresource Technology, 2017, 244, 1445-1455.	9.6	27
36	Use of numerical profiles for studying bacterial diversity. Microbial Ecology, 1980, 6, 35-43.	2.8	26

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37	Strategies for enhanced malolactic fermentation in wine and cider maturation. Journal of Chemical Technology and Biotechnology, 2006, 81, 1130-1140.	3.2	26
38	Conductimetric assessment of the biomass content in suspensions of immobilised (gel-entrapped) microorganisms. Applied Microbiology and Biotechnology, 1986, 23, 168.	3.6	23
39	Modelling and simulation of cell growth dynamics, substrate consumption, and lactic acid production kinetics of Lactococcus lactis. Biotechnology and Bioprocess Engineering, 2013, 18, 52-64.	2.6	23
40	Light Intensity and Nitrogen Concentration Impact on the Biomass and Phycoerythrin Production by Porphyridium purpureum. Marine Drugs, 2019, 17, 460.	4.6	22
41	Separation of lactobacilli bacteriocins from fermented broths using membranes. Process Biochemistry, 2013, 48, 1252-1261.	3.7	20
42	Nutrient recovery and fractionation of anaerobic digester effluents employing pilot scale membrane technology. Journal of Water Process Engineering, 2019, 31, 100846.	5.6	15
43	Performance assessment of malolactic fermenting bacteria Oenococcus oeni and Lactobacillus brevis in continuous culture. Applied Microbiology and Biotechnology, 2006, 69, 658-664.	3.6	14
44	A comparative study of the growth of lactic acid bacteria in a pilot scale membrane bioreactor. Journal of Chemical Technology and Biotechnology, 2010, 85, 1250-1259.	3.2	14
45	Valorization of spent anaerobic digester effluents through production of platform chemicals using Clostridium butyricum. Biomass and Bioenergy, 2015, 81, 294-303.	5.7	14
46	Polymer enhanced membrane filtration of metals: retention of single and mixed species of metal ions based on adsorption isotherms. Desalination and Water Treatment, 2011, 28, 130-136.	1.0	13
47	Use of an industrial grade medium and medium enhancing effects on high cell density CO fermentation by Eubacterium limosum KIST612. Biotechnology Letters, 2007, 29, 1183-1187.	2.2	12
48	Determination of volumetric gas–liquid mass transfer coefficient of carbon monoxide in a batch cultivation system using kinetic simulations. Bioresource Technology, 2017, 239, 387-393.	9.6	10
49	Partially chemically defined liquid medium development for intensive propagation of industrial fermentation lactobacilli strains. Annals of Microbiology, 2013, 63, 1235-1245.	2.6	9
50	The performance of a membrane bioreactor for the malolactic fermentation of media containing ethanol. Desalination, 2006, 199, 435-437.	8.2	7
51	Low molecular weight liquid media development for Lactobacilli producing bacteriocins. Journal of Chemical Technology and Biotechnology, 2013, 88, 72-80.	3.2	7
52	Electrosynthesis and electroanalysis using Clostridium sporogenes. Bioelectrochemistry, 1988, 20, 21-32.	1.0	6
53	Ab Initio Prediction of the Performance of Membrane Separation Processes. Comprehensive Chemical Kinetics, 1999, 37, 523-541.	2.3	5
54	Testing the Waste Based Biorefinery Concept: Pilot Scale Cultivation of Microalgal Species on Spent Anaerobic Digestate Fluids, Waste and Biomass Valorization, 2020, 11, 3883-3896	3.4	5

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55	Electromicrobial transformations using the pyruvate synthase system of Clostridium sporogenes. Bioelectrochemistry, 1989, 21, 245-259.	1.0	4
56	Fluorescence imaging for biofoulants detection and monitoring of biofouled strength in reverse osmosis membrane. Analytical Methods, 2014, 6, 993-1000.	2.7	4
57	Structural heterogeneity yet high similarity of the microbial community on reverse osmosis membrane-driven biofilms during seawater desalination. Environmental Science: Water Research and Technology, 2020, 6, 3066-3079.	2.4	4
58	Deriving Economic Value from Metabolites in Cyanobacteria. Grand Challenges in Biology and Biotechnology, 2019, , 535-576.	2.4	3
59	An investigation of pH mediated extraction and precipitation of phosphorus from sludge using microfiltration: processing and costs. Separation Science and Technology, 2015, , 150527095459001.	2.5	2
60	Intensive Production of Carboxylic Acids Using C. butyricum in a Membrane Bioreactor (MBR). Fermentation, 2018, 4, 81.	3.0	2
61	Electrosynthesis and electroanalysis using Clostridium sporogenes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1988, 254, 21-32.	0.1	1
62	Adhesion potential of bacteria retrieved from intake seawater and membrane biofilms on full-scale reverse osmosis desalination process. Desalination and Water Treatment, 2016, 57, 26629-26640.	1.0	1
63	Electromicrobial transformations using the pyruvate synthase system of Clostridium sporogenes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1989, 275, 245-259.	0.1	0

64 MICROSCOPY | Atomic Force Microscopy., 1999, , 1418-1425.