

Antoine J B Kemperman

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,391
citations

331538

21
h-index

345118

36
g-index

36
all docs

36
docs citations

36
times ranked

1543
citing authors

#	ARTICLE	IF	CITATIONS
1	An improved flux-step method to determine the critical flux and the critical flux for irreversibility in a membrane bioreactor. <i>Journal of Membrane Science</i> , 2009, 332, 24-29.	4.1	133
2	Influence of membrane properties on fouling in submerged membrane bioreactors. <i>Journal of Membrane Science</i> , 2010, 348, 66-74.	4.1	133
3	pH stable thin film composite polyamine nanofiltration membranes by interfacial polymerisation. <i>Journal of Membrane Science</i> , 2015, 478, 75-84.	4.1	125
4	Interfacial polymerization of cyanuric chloride and monomeric amines: pH resistant thin film composite polyamine nanofiltration membranes. <i>Journal of Membrane Science</i> , 2017, 523, 487-496.	4.1	106
5	High loaded MBRs for organic matter recovery from wastewater: Effect of solids retention time on biofouling and on the role of extracellular polymers. <i>Water Research</i> , 2014, 56, 258-266.	5.3	73
6	Native protein recovery from potato fruit juice by ultrafiltration. <i>Desalination</i> , 2002, 144, 331-334.	4.0	63
7	Forward Osmosis: A Critical Review. <i>Processes</i> , 2020, 8, 404.	1.3	54
8	Tight ceramic UF membrane as RO pre-treatment: The role of electrostatic interactions on phosphate rejection. <i>Water Research</i> , 2014, 48, 498-507.	5.3	48
9	Fouling control mechanisms of demineralized water backwash: Reduction of charge screening and calcium bridging effects. <i>Water Research</i> , 2011, 45, 6289-6300.	5.3	47
10	Impacts of NF concentrate recirculation on membrane performance in an integrated MBR and NF membrane process for wastewater treatment. <i>Journal of Membrane Science</i> , 2014, 453, 359-368.	4.1	47
11	Silt Density Index and Modified Fouling Index relation, and effect of pressure, temperature and membrane resistance. <i>Desalination</i> , 2011, 273, 48-56.	4.0	46
12	Biofouling removal in spiral-wound nanofiltration elements using two-phase flow cleaning. <i>Journal of Membrane Science</i> , 2015, 475, 131-146.	4.1	44
13	Effect of dissolved oxygen concentration on the biofouling process in high loaded MBRs. <i>Water Research</i> , 2014, 66, 199-207.	5.3	43
14	Hydraulically irreversible fouling on ceramic MF/UF membranes: Comparison of fouling indices, foulant composition and irreversible pore narrowing. <i>Separation and Purification Technology</i> , 2015, 147, 303-310.	3.9	41
15	The influence of membrane properties on the Silt Density Index. <i>Journal of Membrane Science</i> , 2011, 384, 205-218.	4.1	40
16	Hydrogel-coated feed spacers in two-phase flow cleaning in spiral wound membrane elements: A novel platform for eco-friendly biofouling mitigation. <i>Water Research</i> , 2015, 71, 171-186.	5.3	35
17	Effect of testing conditions and filtration mechanisms on SDI. <i>Journal of Membrane Science</i> , 2011, 381, 142-151.	4.1	33
18	Using SDI, SDI+ and MFI to evaluate fouling in a UF/RO desalination pilot plant. <i>Desalination</i> , 2012, 285, 153-162.	4.0	31

#	ARTICLE	IF	CITATIONS
19	On image pre-processing for PIV of single- and two-phase flows over reflecting objects. <i>Experiments in Fluids</i> , 2010, 49, 525-530.	1.1	28
20	CO ₂ Nucleation in Membrane Spacer Channels Remove Biofilms and Fouling Deposits. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 10034-10039.	1.8	28
21	Towards controlled fouling and rejection in dead-end microfiltration of nanoparticles – Role of electrostatic interactions. <i>Journal of Membrane Science</i> , 2015, 496, 174-184.	4.1	25
22	Effectiveness of antiscalants in preventing calcium phosphate scaling in reverse osmosis applications. <i>Journal of Membrane Science</i> , 2021, 623, 119090.	4.1	23
23	Unraveling ultrafiltration of polysaccharides with flow field flow fractionation. <i>Journal of Membrane Science</i> , 2009, 338, 67-74.	4.1	19
24	SDI normalization and alternatives. <i>Desalination</i> , 2011, 279, 390-403.	4.0	15
25	Understanding the role of nanoparticle size and polydispersity in fouling development during dead-end microfiltration. <i>Journal of Membrane Science</i> , 2016, 516, 152-161.	4.1	15
26	Dominant factors controlling the efficiency of two-phase flow cleaning in spiral-wound membrane elements. <i>Desalination and Water Treatment</i> , 2016, 57, 17625-17636.	1.0	15
27	Desalination of brackish groundwater and concentrate disposal by deep well injection. <i>Desalination and Water Treatment</i> , 2013, 51, 1131-1136.	1.0	14
28	Multicomponent mass transport modeling of water desalination by reverse osmosis including ion pair formation. <i>Journal of Chemical Physics</i> , 2021, 154, 124501.	1.2	12
29	Fouling behavior during microfiltration of silica nanoparticles and polymeric stabilizers. <i>Journal of Membrane Science</i> , 2016, 505, 205-215.	4.1	11
30	Formation and ripening of alginate-like exopolymer gel layers during and after membrane filtration. <i>Water Research</i> , 2021, 195, 116959.	5.3	10
31	Fouling behavior of silica nanoparticle-surfactant mixtures during constant flux dead-end ultrafiltration. <i>Journal of Colloid and Interface Science</i> , 2017, 506, 308-318.	5.0	9
32	A solvent-shrinkage method for producing polymeric microsieves with sub-micron size pores. <i>Journal of Membrane Science</i> , 2013, 446, 10-18.	4.1	7
33	Application of a smart dosing pump algorithm in identifying real-time optimum dose of antiscalant in reverse osmosis systems. <i>Journal of Membrane Science</i> , 2022, 658, 120717.	4.1	7
34	Foulant Identification and Performance Evaluation of Antiscalants in Increasing the Recovery of a Reverse Osmosis System Treating Anaerobic Groundwater. <i>Membranes</i> , 2022, 12, 290.	1.4	5
35	Comparing the bacterial growth potential of ultra-low nutrient drinking water assessed by growth tests based on flow cytometric intact cell count versus adenosine triphosphate. <i>Water Research</i> , 2021, 203, 117506.	5.3	4
36	Sensitivity of SDI for experimental errors. <i>Desalination and Water Treatment</i> , 2012, 40, 100-117.	1.0	2