

Philippe Moulin

List of Publications by Year in descending order

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115
papers

8,846
citations

94381

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h-index

42364

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docs citations

115
times ranked

9520
citing authors

#	ARTICLE	IF	CITATIONS
1	Reverse osmosis desalination: Water sources, technology, and today's challenges. <i>Water Research</i> , 2009, 43, 2317-2348.	5.3	2,496
2	Landfill leachate treatment: Review and opportunity. <i>Journal of Hazardous Materials</i> , 2008, 150, 468-493.	6.5	1,942
3	Treatment and reuse of reactive dyeing effluents. <i>Journal of Membrane Science</i> , 2006, 269, 15-34.	4.1	384
4	Removal of fluoride from electronic industrial effluent by RO membrane separation. <i>Desalination</i> , 2005, 173, 25-32.	4.0	221
5	Chemical cleaning/disinfection and ageing of organic UF membranes: A review. <i>Water Research</i> , 2014, 56, 325-365.	5.3	216
6	Ionic liquids combined with membrane separation processes: A review. <i>Separation and Purification Technology</i> , 2019, 222, 230-253.	3.9	203
7	Computational fluid dynamics applied to membranes: State of the art and opportunities. <i>Chemical Engineering and Processing: Process Intensification</i> , 2006, 45, 437-454.	1.8	191
8	Low-pressure membrane integrity tests for drinking water treatment: A review. <i>Water Research</i> , 2010, 44, 41-57.	5.3	163
9	Measurement of Two-Dimensional Movement Parameters of the Carotid Artery Wall for Early Detection of Arteriosclerosis: A Preliminary Clinical Study. <i>Ultrasound in Medicine and Biology</i> , 2011, 37, 1421-1429.	0.7	148
10	Decolourization of the reconstituted textile effluent by different process treatments: Enzymatic catalysis, coagulation/flocculation and nanofiltration processes. <i>Desalination</i> , 2011, 268, 27-37.	4.0	127
11	The effect of antiscalant addition on calcium carbonate precipitation for a simplified synthetic brackish water reverse osmosis concentrate. <i>Water Research</i> , 2010, 44, 2957-2969.	5.3	114
12	Coagulation-flocculation-decantation of dye house effluents: concentrated effluents. <i>Journal of Hazardous Materials</i> , 2004, 116, 57-64.	6.5	112
13	A new efficient absorption liquid to treat exhaust air loaded with toluene. <i>Chemical Engineering Journal</i> , 2006, 115, 225-231.	6.6	112
14	Coagulation and ultrafiltration: Understanding of the key parameters of the hybrid process. <i>Journal of Membrane Science</i> , 2008, 325, 520-527.	4.1	97
15	Mass transfer improvement by secondary flows: Dean vortices in coiled tubular membranes. <i>Journal of Membrane Science</i> , 1996, 114, 235-244.	4.1	94
16	Longitudinal Displacement of the Carotid Wall and Cardiovascular Risk Factors: Associations with Aging, Adiposity, Blood Pressure and Periodontal Disease Independent of Cross-Sectional Distensibility and Intima-Media Thickness. <i>Ultrasound in Medicine and Biology</i> , 2012, 38, 1705-1715.	0.7	84
17	Degradation of synthetic phenol-containing wastewaters by MBR. <i>Journal of Membrane Science</i> , 2006, 281, 288-296.	4.1	76
18	Milk polar lipids reduce lipid cardiovascular risk factors in overweight postmenopausal women: towards a gut sphingomyelin-cholesterol interplay. <i>Gut</i> , 2020, 69, 487-501.	6.1	68

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19	Membrane characterization by microscopic methods: Multiscale structure. <i>Journal of Membrane Science</i> , 2008, 315, 82-92.	4.1	65
20	Treatment process adapted to stabilized leachates: Lime precipitationâ€“prefiltrationâ€“reverse osmosis. <i>Journal of Membrane Science</i> , 2008, 313, 9-22.	4.1	60
21	Evaluation of a Kalman-based block matching method to assess the bi-dimensional motion of the carotid artery wall in B-mode ultrasound sequences. <i>Medical Image Analysis</i> , 2013, 17, 573-585.	7.0	58
22	Culture of Microalgae with Ultrafiltered Seawater: A Feasibility Study. <i>SciMedicine Journal</i> , 2020, 2, 56-62.	1.5	56
23	Treatment of radioactive liquid effluents by reverse osmosis membranes: From lab-scale to pilot-scale. <i>Water Research</i> , 2017, 123, 311-320.	5.3	55
24	Membrane-Based Processes Used in Municipal Wastewater Treatment for Water Reuse: State-Of-The-Art and Performance Analysis. <i>Membranes</i> , 2020, 10, 131.	1.4	55
25	Clogging of microporous channels networks: role of connectivity and tortuosity. <i>Microfluidics and Nanofluidics</i> , 2014, 17, 85-96.	1.0	54
26	Use of air sparging to improve backwash efficiency in hollow-fiber modules. <i>Journal of Membrane Science</i> , 1999, 161, 95-113.	4.1	53
27	Efficiency of a coagulation/flocculationâ€“membrane filtration hybrid process for the treatment of vegetable oil refinery wastewater for safe reuse and recovery. <i>Chemical Engineering Research and Design</i> , 2020, 135, 323-341.	2.7	53
28	Dead-end ultrafiltration in hollow fiber modules: Module design and process simulation. <i>Journal of Membrane Science</i> , 1998, 145, 159-172.	4.1	51
29	Removal of volatile organic components (VOCs) from water by pervaporation: separation improvement by Dean vortices. <i>Journal of Membrane Science</i> , 1998, 142, 129-141.	4.1	50
30	Purification of heterocyclic drug derivatives from concentrated saline solution by nanofiltration. <i>Journal of Membrane Science</i> , 2002, 196, 125-141.	4.1	49
31	Savings and re-use of salts and water present in dye house effluents. <i>Desalination</i> , 2004, 162, 13-22.	4.0	49
32	Modeling and control of the air system of a turbocharged gasoline engine. <i>Control Engineering Practice</i> , 2011, 19, 287-297.	3.2	47
33	Flux improvement by Dean vortices: ultrafiltration of colloidal suspensions and macromolecular solutions. <i>Journal of Membrane Science</i> , 1999, 156, 109-130.	4.1	46
34	Eausmose project desalination by reverse osmosis and batteryless solar energy: Design for a 1m3 per day delivery. <i>Desalination</i> , 2012, 301, 67-74.	4.0	46
35	Effect of antiscalant degradation on salt precipitation and solid/liquid separation of RO concentrate. <i>Journal of Membrane Science</i> , 2011, 366, 48-61.	4.1	44
36	Effect of antiscalants on precipitation of an RO concentrate: Metals precipitated and particle characteristics for several water compositions. <i>Water Research</i> , 2010, 44, 2672-2684.	5.3	43

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37	Application of magnetic nanoparticles for UF membrane integrity monitoring at low-pressure operation. <i>Journal of Membrane Science</i> , 2010, 350, 172-179.	4.1	39
38	Swimming pool water treatment by ultrafiltration-adsorption process. <i>Journal of Membrane Science</i> , 2008, 314, 50-57.	4.1	35
39	Oncological ward wastewater treatment by membrane bioreactor: Acclimation feasibility and pharmaceuticals removal performances. <i>Journal of Water Process Engineering</i> , 2018, 21, 9-26.	2.6	35
40	Hydrodynamics and mass transfer in a packed column: Case of toluene absorption with a viscous absorbent. <i>Chemical Engineering Science</i> , 2006, 61, 5094-5106.	1.9	34
41	Dynamic viscosity of olive oil as a function of composition and temperature: A first approach. <i>European Journal of Lipid Science and Technology</i> , 2011, 113, 1019-1025.	1.0	34
42	Dean vortices: comparison of numerical simulation of shear stress and improvement of mass transfer in membrane processes at low permeation fluxes. <i>Journal of Membrane Science</i> , 2001, 183, 149-162.	4.1	33
43	Dean vortices applied to membrane process. <i>Journal of Membrane Science</i> , 2007, 288, 307-320.	4.1	33
44	Study of polyamide composite reverse osmosis membrane degradation in water under gamma rays. <i>Journal of Membrane Science</i> , 2015, 480, 64-73.	4.1	29
45	Treatment of gas containing hydrophobic VOCs by a hybrid absorption-pervaporation process: The case of toluene. <i>Chemical Engineering Science</i> , 2007, 62, 2576-2589.	1.9	27
46	Removal of pathogens by ultrafiltration from sea water. <i>Environment International</i> , 2020, 142, 105809.	4.8	27
47	Volatile Organic Compound (VOC) Removal by Vapor Permeation at Low VOC Concentrations: Laboratory Scale Results and Modeling for Scale Up. <i>Membranes</i> , 2011, 1, 80-90.	1.4	26
48	Dean vortices: a comparison of woven versus helical and straight hollow fiber membrane modules. <i>Journal of Membrane Science</i> , 2000, 171, 59-65.	4.1	25
49	Purification and dehydration of methylal by pervaporation. <i>Journal of Membrane Science</i> , 2003, 217, 159-171.	4.1	25
50	Amelioration of ultrafiltration process by lime treatment: Case of landfill leachate. <i>Desalination</i> , 2009, 249, 72-82.	4.0	25
51	Dead-end and crossflow ultrafiltration process modelling: Application on chemical mechanical polishing wastewaters. <i>Chemical Engineering Research and Design</i> , 2020, 158, 164-176.	2.7	24
52	In Vitro Glycosidized Low-Density Lipoproteins and Low-Density Lipoproteins Isolated from Type 2 Diabetic Patients Activate Platelets via p38 Mitogen-Activated Protein Kinase. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2007, 92, 1961-1964.	1.8	23
53	Progressive Attenuation of the Longitudinal Kinetics in the Common Carotid Artery: Preliminary in Vivo Assessment. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 339-345.	0.7	23
54	CHARACTERIZATION (TWO-DIMENSIONAL - THREE-DIMENSIONAL) OF CERAMIC MICROFILTRATION MEMBRANE BY SYNCHROTRON RADIATION: NEW AND ABRADED MEMBRANES. <i>Journal of Porous Media</i> , 2013, 16, 537-545.	1.0	22

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55	The use of Dean vortices in coiled hollow-fibre ultrafiltration membranes for water and wastewater treatment. <i>Desalination</i> , 1998, 118, 73-79.	4.0	21
56	Recovery of toluene from high temperature boiling absorbents by pervaporation. <i>Journal of Membrane Science</i> , 2006, 284, 145-154.	4.1	20
57	An overview of solid/liquid separation methods and size fractionation techniques for engineered nanomaterials in aquatic environment. <i>Environmental Technology Reviews</i> , 2013, 2, 55-70.	2.1	20
58	Characterization of ultrafiltration membranes fouled by quantum dots by confocal laser scanning microscopy. <i>Journal of Membrane Science</i> , 2014, 470, 40-51.	4.1	20
59	Analysis and control of the air system of a turbocharged gasoline engine. , 2008, , .		19
60	Optimizing the compacity of ceramic membranes. <i>Journal of Membrane Science</i> , 2010, 360, 483-492.	4.1	18
61	Dean vortices applied to membrane process. <i>Journal of Membrane Science</i> , 2007, 288, 321-335.	4.1	17
62	Separation of particles from hot gases using metallic foams. <i>Journal of Materials Processing Technology</i> , 2009, 209, 3859-3868.	3.1	17
63	Retreatment of silicon slurry by membrane processes. <i>Journal of Hazardous Materials</i> , 2011, 192, 440-450.	6.5	17
64	Toluene removal from gas streams by an ionic liquid membrane: Experiment and modeling. <i>Chemical Engineering Journal</i> , 2021, 404, 127109.	6.6	17
65	Numerical simulation of Dean vortices: fluid trajectories. <i>Journal of Membrane Science</i> , 2002, 197, 157-172.	4.1	16
66	Nanofiltration of Bayer process solutions. <i>Journal of Membrane Science</i> , 2006, 281, 260-267.	4.1	16
67	Membrane characterization by optical methods: Ellipsometry of the scattered field. <i>Journal of Membrane Science</i> , 2008, 318, 145-153.	4.1	16
68	Static dissolution rate of tungsten film versus chemical adjustments of a reused slurry for chemical mechanical polishing. <i>Applied Surface Science</i> , 2011, 257, 6163-6170.	3.1	16
69	Vapour permeation of VOC emitted from petroleum activities: Application for low concentrations. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 1339-1352.	2.9	16
70	Study of the Effect of Geometry on Wall Shear Stress and Permeate Flux for Ceramic Membranes: CFD and Experimental Approaches. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2010, 4, 17-28.	1.5	14
71	Air Backwash Efficiency on Organic Fouling of UF Membranes Applied to Shellfish Hatchery Effluents. <i>Membranes</i> , 2018, 8, 48.	1.4	14
72	Lime treatment of stabilized leachates. <i>Water Science and Technology</i> , 2009, 59, 673-685.	1.2	12

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73	Membrane Characterization by Microscopic and Scattering Methods: Multiscale Structure. <i>Membranes</i> , 2011, 1, 91-97.	1.4	12
74	Real-time ultrasound tagging to track the 2D motion of the common carotid artery wall <i>in vivo</i> . <i>Medical Physics</i> , 2015, 42, 820-830.	1.6	12
75	Effect of gamma irradiation at intermediate doses on the performance of reverse osmosis membranes. <i>Radiation Physics and Chemistry</i> , 2016, 124, 241-245.	1.4	12
76	Ultrafiltration: A solution to recycle the breeding waters in shellfish production. <i>Aquaculture</i> , 2019, 504, 30-38.	1.7	12
77	Cholesterol removal by nanofiltration: Applications in nutraceuticals and nutritional supplements. <i>Journal of Membrane Science</i> , 2006, 269, 109-117.	4.1	11
78	Mass flow rate and permeability measurements in microporous media. <i>Vacuum</i> , 2018, 158, 75-85.	1.6	11
79	Purification of Pharmaceutical Solvents by Pervaporation through Hybrid Silica Membranes. <i>Membranes</i> , 2019, 9, 76.	1.4	11
80	Performance of a biomass adapted to oncological ward wastewater vs. biomass from municipal WWTP on the removal of pharmaceutical molecules. <i>Water Research</i> , 2018, 128, 193-205.	5.3	10
81	Developing Lengths in Woven and Helical Tubes with Dean Vortices Flows. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2009, 3, 123-134.	1.5	9
82	Physico-chemical treatment applied to compost liquor: Feasibility study. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 1522-1528.	2.9	9
83	Optimization of Air Backwash Frequency during the Ultrafiltration of Seawater. <i>Membranes</i> , 2020, 10, 78.	1.4	9
84	Transportable membrane process to produce drinking water. <i>Desalination</i> , 2009, 248, 58-63.	4.0	8
85	Determination of pressure and velocity fields in ultrafiltration membrane modules used in drinking water production. <i>Journal of Membrane Science</i> , 2013, 431, 221-232.	4.1	8
86	Ultrafiltration for environment safety in shellfish production: Removal of oyster gametes in hatchery effluents. <i>Aquacultural Engineering</i> , 2019, 84, 80-90.	1.4	8
87	Influence of ionic strength on membrane selectivity during the ultrafiltration of sulfated pentasaccharides. <i>Carbohydrate Polymers</i> , 2015, 116, 243-248.	5.1	7
88	Effect of salinity and nanoparticle polydispersity on UF membrane retention fouling. <i>Journal of Membrane Science</i> , 2018, 563, 405-418.	4.1	7
89	Assessment and optimization of wet air oxidation for treatment of landfill leachate concentrated with reverse osmosis. <i>Chemical Engineering Research and Design</i> , 2022, 162, 765-774.	2.7	7
90	Electrochemical measurement of velocity gradient at the wall of a helical tube. <i>AIChE Journal</i> , 2003, 49, 1972-1979.	1.8	6

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91	Biodegradation of High Phenol Concentration in a Membrane Bioreactor. International Journal of Chemical Reactor Engineering, 2008, 6, .	0.6	6
92	Analysis of performance criteria for ultrafiltration membrane integrity test using magnetic nanoparticles. Desalination, 2014, 353, 21-29.	4.0	6
93	Coupling membrane filtration and wet air oxidation for advanced wastewater treatment: Performance at the pilot scale and process intensification potential. Canadian Journal of Chemical Engineering, 2020, 98, 969-978.	0.9	6
94	Treatment and valorisation of an industrial effluent by pervaporation. Journal of Membrane Science, 2002, 197, 103-115.	4.1	5
95	Drinking water ultrafiltration: state of the art and experimental designs approach. Desalination and Water Treatment, 2013, 51, 4892-4900.	1.0	5
96	Irradiation effects on RO membranes: Comparison of aerobic and anaerobic conditions. Polymer Degradation and Stability, 2016, 134, 126-135.	2.7	5
97	Economic viability of treating ballast water of ships by ultrafiltration as a function of the process position. Journal of Marine Science and Technology, 2019, 24, 1197-1208.	1.3	5
98	Solvent Regeneration in Complex Mixture Using Pervaporation. Organic Process Research and Development, 2021, 25, 469-485.	1.3	4
99	Ultrafiltration for environmental safety in shellfish production: A case of bloom emergence. Water Science and Engineering, 2021, 14, 46-53.	1.4	4
100	Ionic Liquid Membrane Process for Removal of Volatile Organic Compounds from Lab to Industrial Scale. Chemical Engineering and Technology, 2021, 44, 2159-2163.	0.9	4
101	Membrane characterisation from the support to the skin layer: Application to silicon carbide (SiC) membranes. Journal of the European Ceramic Society, 2022, 42, 3759-3769.	2.8	4
102	An Efficient Method to Determine Membrane Molecular Weight Cut-Off Using Fluorescent Silica Nanoparticles. Membranes, 2020, 10, 271.	1.4	3
103	Determination of the Wall Shear Stress by Numerical Simulation: Membrane Process Applications. Chemical Product and Process Modeling, 2009, 4, .	0.5	2
104	Pressure fields in an industrial UF module: effect of backwash. Desalination and Water Treatment, 2013, 51, 4907-4913.	1.0	2
105	Tracking arterial wall motion in a 2D+t volume. , 2014, , .		2
106	Effects of Operating Parameters on Ionic Liquid Membrane to Remove Humidity in a Green Continuous Process. Membranes, 2019, 9, 65.	1.4	2
107	Impact of Chlorinated-Assisted Backwash and Air Backwash on Ultrafiltration Fouling Management for Urban Wastewater Tertiary Treatment. Membranes, 2021, 11, 733.	1.4	2
108	Control Design for a Second Order Dynamic System : Two-Stage Turbocharger. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 470-476.	0.4	1

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109	Application of membrane processes in fractionation of elements in river water. <i>Water Science and Technology</i> , 2015, 72, 2277-2290.	1.2	1
110	On-Line NIR to Regulate Pervaporation Process: Application for Dehydration. <i>Membranes</i> , 2018, 8, 74.	1.4	1
111	Relationship between fatty acid composition of low density lipoproteins and platelet activation in type 2 diabetes. <i>Chemistry and Physics of Lipids</i> , 2007, 149, S58.	1.5	0
112	Computational fluid dynamics simulations of membrane filtration process adapted for water treatment of aerated sewage lagoons. <i>Water Science and Technology</i> , 2015, 71, 197-202.	1.2	0
113	Size fractionation of elements and nanoparticles in natural water by both dead-end and tangential flow filtration. <i>Desalination and Water Treatment</i> , 2016, 57, 8194-8203.	1.0	0
114	Recurrent pancreatitis due to autoimmune hypertriglyceridemia in a patient with Gravesâ€™ disease. <i>Medicina Clínica</i> , 2018, 151, 295-296.	0.3	0
115	Development of a new method for measuring the abrasive potential of water: risk of membrane failure in water treatment plants. <i>Water Science and Technology</i> , 2018, 77, 2781-2793.	1.2	0