

Philippe Moulin

List of Publications by Year in descending order

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115
papers

8,846
citations

94381

37
h-index

42364

92
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115
all docs

115
docs citations

115
times ranked

9520
citing authors

#	ARTICLE	IF	CITATIONS
1	Membrane characterisation from the support to the skin layer: Application to silicon carbide (SiC) membranes. <i>Journal of the European Ceramic Society</i> , 2022, 42, 3759-3769.	2.8	4
2	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
3	Toluene removal from gas streams by an ionic liquid membrane: Experiment and modeling. <i>Chemical Engineering Journal</i> , 2021, 404, 127109.	6.6	17
4	Solvent Regeneration in Complex Mixture Using Pervaporation. <i>Organic Process Research and Development</i> , 2021, 25, 469-485.	1.3	4
5	Ultrafiltration for environmental safety in shellfish production: A case of bloom emergence. <i>Water Science and Engineering</i> , 2021, 14, 46-53.	1.4	4
6	Ionic Liquid Membrane Process for Removal of Volatile Organic Compounds from Lab to Industrial Scale. <i>Chemical Engineering and Technology</i> , 2021, 44, 2159-2163.	0.9	4
7	Impact of Chlorinated-Assisted Backwash and Air Backwash on Ultrafiltration Fouling Management for Urban Wastewater Tertiary Treatment. <i>Membranes</i> , 2021, 11, 733.	1.4	2
8	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
9	An Efficient Method to Determine Membrane Molecular Weight Cut-Off Using Fluorescent Silica Nanoparticles. <i>Membranes</i> , 2020, 10, 271.	1.4	3
10	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
11	Removal of pathogens by ultrafiltration from sea water. <i>Environment International</i> , 2020, 142, 105809.	4.8	27
12	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
13	Coupling membrane filtration and wet air oxidation for advanced wastewater treatment: Performance at the pilot scale and process intensification potential. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 969-978.	0.9	6
14	Efficiency of a coagulation/flocculation-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
15	Optimization of Air Backwash Frequency during the Ultrafiltration of Seawater. <i>Membranes</i> , 2020, 10, 78.	1.4	9
16	Culture of Microalgae with Ultrafiltered Seawater: A Feasibility Study. <i>SciMedicine Journal</i> , 2020, 2, 56-62.	1.5	56
17	Purification of Pharmaceutical Solvents by Pervaporation through Hybrid Silica Membranes. <i>Membranes</i> , 2019, 9, 76.	1.4	11
18	Ultrafiltration: A solution to recycle the breeding waters in shellfish production. <i>Aquaculture</i> , 2019, 504, 30-38.	1.7	12

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19	Effects of Operating Parameters on Ionic Liquid Membrane to Remove Humidity in a Green Continuous Process. <i>Membranes</i> , 2019, 9, 65.	1.4	2
20	Ionic liquids combined with membrane separation processes: A review. <i>Separation and Purification Technology</i> , 2019, 222, 230-253.	3.9	203
21	Economic viability of treating ballast water of ships by ultrafiltration as a function of the process position. <i>Journal of Marine Science and Technology</i> , 2019, 24, 1197-1208.	1.3	5
22	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
23	Recurrent pancreatitis due to autoimmune hypertriglyceridemia in a patient with Gravesâ€™ disease. <i>Medicina Clínica</i> , 2018, 151, 295-296.	0.3	0
24	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
25	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
26	Mass flow rate and permeability measurements in microporous media. <i>Vacuum</i> , 2018, 158, 75-85.	1.6	11
27	On-Line NIR to Regulate Pervaporation Process: Application for Dehydration. <i>Membranes</i> , 2018, 8, 74.	1.4	1
28	Air Backwash Efficiency on Organic Fouling of UF Membranes Applied to Shellfish Hatchery Effluents. <i>Membranes</i> , 2018, 8, 48.	1.4	14
29	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
30	Effect of salinity and nanoparticle polydispersity on UF membrane retention fouling. <i>Journal of Membrane Science</i> , 2018, 563, 405-418.	4.1	7
31	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
32	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
33	Irradiation effects on RO membranes: Comparison of aerobic and anaerobic conditions. <i>Polymer Degradation and Stability</i> , 2016, 134, 126-135.	2.7	5
34	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
35	Application of membrane processes in fractionation of elements in river water. <i>Water Science and Technology</i> , 2015, 72, 2277-2290.	1.2	1
36	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

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37	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
38	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
39	Progressive Attenuation of the Longitudinal Kinetics in the Common Carotid Artery: Preliminary inAVivo Assessment. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 339-345.	0.7	23
40	Influence of ionic strength on membrane selectivity during the ultrafiltration of sulfated pentasaccharides. <i>Carbohydrate Polymers</i> , 2015, 116, 243-248.	5.1	7
41	Tracking arterial wall motion in a 2D+t volume. , 2014, , .		2
42	Clogging of microporous channels networks: role of connectivity and tortuosity. <i>Microfluidics and Nanofluidics</i> , 2014, 17, 85-96.	1.0	54
43	Chemical cleaning/disinfection and ageing of organic UF membranes: A review. <i>Water Research</i> , 2014, 56, 325-365.	5.3	216
44	Analysis of performance criteria for ultrafiltration membrane integrity test using magnetic nanoparticles. <i>Desalination</i> , 2014, 353, 21-29.	4.0	6
45	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
46	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
47	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
48	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
49	Pressure fields in an industrial UF module: effect of backwash. <i>Desalination and Water Treatment</i> , 2013, 51, 4907-4913.	1.0	2
50	Drinking water ultrafiltration: state of the art and experimental designs approach. <i>Desalination and Water Treatment</i> , 2013, 51, 4892-4900.	1.0	5
51	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
52	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
53	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
54	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

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55	Physico-chemical treatment applied to compost liquor: Feasibility study. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 1522-1528.	2.9	9
56	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
57	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
58	Membrane Characterization by Microscopic and Scattering Methods: Multiscale Structure. <i>Membranes</i> , 2011, 1, 91-97.	1.4	12
59	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
60	Modeling and control of the air system of a turbocharged gasoline engine. <i>Control Engineering Practice</i> , 2011, 19, 287-297.	3.2	47
61	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
62	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
63	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
64	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
65	Retreatment of silicon slurry by membrane processes. <i>Journal of Hazardous Materials</i> , 2011, 192, 440-450.	6.5	17
66	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
67	Optimizing the compacity of ceramic membranes. <i>Journal of Membrane Science</i> , 2010, 360, 483-492.	4.1	18
68	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
69	Low-pressure membrane integrity tests for drinking water treatment: A review. <i>Water Research</i> , 2010, 44, 41-57.	5.3	163
70	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
71	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
72	Determination of the Wall Shear Stress by Numerical Simulation: Membrane Process Applications. <i>Chemical Product and Process Modeling</i> , 2009, 4, .	0.5	2

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73	Lime treatment of stabilized leachates. <i>Water Science and Technology</i> , 2009, 59, 673-685.	1.2	12
74	Separation of particles from hot gases using metallic foams. <i>Journal of Materials Processing Technology</i> , 2009, 209, 3859-3868.	3.1	17
75	Transportable membrane process to produce drinking water. <i>Desalination</i> , 2009, 248, 58-63.	4.0	8
76	Amelioration of ultrafiltration process by lime treatment: Case of landfill leachate. <i>Desalination</i> , 2009, 249, 72-82.	4.0	25
77	Reverse osmosis desalination: Water sources, technology, and today's challenges. <i>Water Research</i> , 2009, 43, 2317-2348.	5.3	2,496
78	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
79	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
80	Swimming pool water treatment by ultrafiltration+adsorption process. <i>Journal of Membrane Science</i> , 2008, 314, 50-57.	4.1	35
81	Landfill leachate treatment: Review and opportunity. <i>Journal of Hazardous Materials</i> , 2008, 150, 468-493.	6.5	1,942
82	Treatment process adapted to stabilized leachates: Lime precipitation+prefiltration+reverse osmosis. <i>Journal of Membrane Science</i> , 2008, 313, 9-22.	4.1	60
83	Membrane characterization by microscopic methods: Multiscale structure. <i>Journal of Membrane Science</i> , 2008, 315, 82-92.	4.1	65
84	Membrane characterization by optical methods: Ellipsometry of the scattered field. <i>Journal of Membrane Science</i> , 2008, 318, 145-153.	4.1	16
85	Biodegradation of High Phenol Concentration in a Membrane Bioreactor. <i>International Journal of Chemical Reactor Engineering</i> , 2008, 6, .	0.6	6
86	Analysis and control of the air system of a turbocharged gasoline engine. , 2008, , .		19
87	In Vitro Glycosylated 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
88	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
89	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
90	Dean vortices applied to membrane process. <i>Journal of Membrane Science</i> , 2007, 288, 307-320.	4.1	33

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91	Dean vortices applied to membrane process. Journal of Membrane Science, 2007, 288, 321-335.	4.1	17
92	Hydrodynamics and mass transfer in a packed column: Case of toluene absorption with a viscous absorbent. Chemical Engineering Science, 2006, 61, 5094-5106.	1.9	34
93	Computational fluid dynamics applied to membranes: State of the art and opportunities. Chemical Engineering and Processing: Process Intensification, 2006, 45, 437-454.	1.8	191
94	Degradation of synthetic phenol-containing wastewaters by MBR. Journal of Membrane Science, 2006, 281, 288-296.	4.1	76
95	Nanofiltration of Bayer process solutions. Journal of Membrane Science, 2006, 281, 260-267.	4.1	16
96	A new efficient absorption liquid to treat exhaust air loaded with toluene. Chemical Engineering Journal, 2006, 115, 225-231.	6.6	112
97	Treatment and reuse of reactive dyeing effluents. Journal of Membrane Science, 2006, 269, 15-34.	4.1	384
98	Cholesterol removal by nanofiltration: Applications in nutraceuticals and nutritional supplements. Journal of Membrane Science, 2006, 269, 109-117.	4.1	11
99	Recovery of toluene from high temperature boiling absorbents by pervaporation. Journal of Membrane Science, 2006, 284, 145-154.	4.1	20
100	Removal of fluoride from electronic industrial effluent by RO membrane separation. Desalination, 2005, 173, 25-32.	4.0	221
101	Coagulation-flocculation-decantation of dye house effluents: concentrated effluents. Journal of Hazardous Materials, 2004, 116, 57-64.	6.5	112
102	Savings and re-use of salts and water present in dye house effluents. Desalination, 2004, 162, 13-22.	4.0	49
103	Electrochemical measurement of velocity gradient at the wall of a helical tube. AIChE Journal, 2003, 49, 1972-1979.	1.8	6
104	Purification and dehydration of methylal by pervaporation. Journal of Membrane Science, 2003, 217, 159-171.	4.1	25
105	Purification of heterocyclic drug derivatives from concentrated saline solution by nanofiltration. Journal of Membrane Science, 2002, 196, 125-141.	4.1	49
106	Treatment and valorisation of an industrial effluent by pervaporation. Journal of Membrane Science, 2002, 197, 103-115.	4.1	5
107	Numerical simulation of Dean vortices: fluid trajectories. Journal of Membrane Science, 2002, 197, 157-172.	4.1	16
108	Dean vortices: comparison of numerical simulation of shear stress and improvement of mass transfer in membrane processes at low permeation fluxes. Journal of Membrane Science, 2001, 183, 149-162.	4.1	33

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109	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
110	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
111	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
112	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
113	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
114	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
115	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