

Laura Palacio

List of Publications by Year in descending order

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100
papers

2,734
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159358

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101
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101
docs citations

101
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Gas Permeability, Fractional Free Volume and Molecular Kinetic Diameters: The Effect of Thermal Rearrangement on ortho-hydroxy Polyamide Membranes Loaded with a Porous Polymer Network. <i>Membranes</i> , 2022, 12, 200.	1.4	5
2	Ecological Risk Evaluation and Removal of Emerging Pollutants in Urban Wastewater by a Hollow Fiber Forward Osmosis Membrane. <i>Membranes</i> , 2022, 12, 293.	1.4	6
3	Gas separation membranes obtained by partial pyrolysis of polyimides exhibiting polyethylene oxide moieties. <i>Polymer</i> , 2022, 247, 124789.	1.8	4
4	A Systematic Study of Ammonia Recovery from Anaerobic Digestate Using Membrane-Based Separation. <i>Membranes</i> , 2022, 12, 19.	1.4	7
5	Membrane Dialysis for Partial Dealcoholization of White Wines. <i>Membranes</i> , 2022, 12, 468.	1.4	4
6	Environment and Material Science Technology for Anaerobic Digestion-Based Circular Bioeconomy. , 2021, , 25-55.		2
7	Gas Separation by Mixed Matrix Membranes with Porous Organic Polymer Inclusions within o-Hydroxypolyamides Containing m-Terphenyl Moieties. <i>Polymers</i> , 2021, 13, 931.	2.0	10
8	Hydrogen Recovery by Mixed Matrix Membranes Made from 6FCl-APAF HPA with Different Contents of a Porous Polymer Network and Their Thermal Rearrangement. <i>Polymers</i> , 2021, 13, 4343.	2.0	4
9	Water viscosity in confined nanoporous media and flow through nanofiltration membranes. <i>Microporous and Mesoporous Materials</i> , 2020, 303, 110289.	2.2	6
10	Ultrafiltration membranes modified by PSS deposition and plasma treatment for Cr(VI) removal. <i>Separation and Purification Technology</i> , 2019, 210, 371-381.	3.9	27
11	Modeling the influence of divalent ions on membrane resistance and electric power in reverse electro dialysis. <i>Journal of Membrane Science</i> , 2019, 592, 117385.	4.1	35
12	Morphological, Electrical, and Chemical Characteristics of Poly(sodium 4-styrenesulfonate) Coated PVDF Ultrafiltration Membranes after Plasma Treatment. <i>Polymers</i> , 2019, 11, 1689.	2.0	9
13	Thermally rearranged polybenzoxazoles made from poly(ortho-hydroxyamide)s. Characterization and evaluation as gas separation membranes. <i>Reactive and Functional Polymers</i> , 2018, 127, 38-47.	2.0	29
14	Reduction of Pb(II) in water to safe levels by a small tubular membrane nanofiltration plant. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 329-343.	2.1	5
15	Impedance spectroscopy and membrane potential analysis of microfiltration membranes. The influence of surface fractality. <i>Chemical Engineering Science</i> , 2018, 178, 27-38.	1.9	8
16	Partially pyrolyzed gas-separation membranes made from blends of copolyetherimides and polyimides. <i>European Polymer Journal</i> , 2018, 103, 390-399.	2.6	11
17	Concentration-polarization in nanofiltration of low concentration Cr(VI) aqueous solutions. Effect of operative conditions on retention. <i>Journal of Cleaner Production</i> , 2017, 150, 243-252.	4.6	12
18	Aroma recovery of beer flavors by pervaporation through polydimethylsiloxane membranes. <i>Journal of Food Process Engineering</i> , 2017, 40, e12556.	1.5	24

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19	Elimination of the Crystallinity of Long Polyethylene Oxide-Based Copolymers for Gas Separation Membranes by Using Electron Beam Irradiation. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1600441.	1.1	3
20	Application of pervaporation and nanofiltration membrane processes for the elaboration of full flavored low alcohol white wines. <i>Food and Bioproducts Processing</i> , 2017, 101, 11-21.	1.8	31
21	Fouling study of nanofiltration membranes for sugar control in grape must: Analysis of resistances and the role of osmotic pressure. <i>Separation Science and Technology</i> , 2016, 51, 525-541.	1.3	1
22	Polyacrylonitrile membranes modified with carbon nanotubes: characterization and micropollutants removal analysis. <i>Desalination and Water Treatment</i> , 2016, 57, 1344-1353.	1.0	9
23	Prediction of single salt rejection in nanofiltration membranes by independent measurements. <i>Desalination</i> , 2016, 382, 1-12.	4.0	18
24	Ageing of polyethersulfone ultrafiltration membranes under long-term exposures to alkaline and acidic cleaning solutions. <i>Chemical Engineering Science</i> , 2015, 134, 178-195.	1.9	40
25	Effect of dense CO ₂ on polymeric reverse osmosis and nanofiltration membranes and permeation of mixtures of macauba oil (<i>Acrocomia aculeata</i>) and CO ₂ . <i>Journal of Membrane Science</i> , 2015, 481, 195-206.	4.1	6
26	Fabrication and characterization of polyethersulfone nanocomposite membranes for the removal of endocrine disrupting micropollutants from wastewater. Mechanisms and performance. <i>Journal of Membrane Science</i> , 2015, 493, 66-79.	4.1	47
27	Evaluation of reverse osmosis and nanofiltration membranes performance in the permeation of organic solvents. <i>Journal of Membrane Science</i> , 2015, 492, 478-489.	4.1	31
28	Flux kinetics, limit and critical fluxes for low pressure dead-end microfiltration. The case of BSA filtration through a positively charged membrane. <i>Chemical Engineering Science</i> , 2015, 129, 58-68.	1.9	13
29	Alcohol reduction in red and white wines by nanofiltration of musts before fermentation. <i>Food and Bioproducts Processing</i> , 2015, 96, 285-295.	1.8	26
30	New aromatic polyamides and polyimides having an adamantane bulky group. <i>Materials Today Communications</i> , 2015, 5, 23-31.	0.9	36
31	Comparative study of red grape must nanofiltration: Laboratory and pilot plant scales. <i>Food and Bioproducts Processing</i> , 2015, 94, 610-620.	1.8	17
32	Advances in the design of co-poly(ether-imide) membranes for CO ₂ separations. Influence of aromatic rigidity on crystallinity, phase segregation and gas transport. <i>European Polymer Journal</i> , 2015, 62, 130-138.	2.6	24
33	Pore size analysis from retention of neutral solutes through nanofiltration membranes. The contribution of concentration polarization. <i>Desalination</i> , 2014, 344, 1-11.	4.0	43
34	Prediction of gas permeability of block-segregated polymeric membranes by an effective medium model. <i>Journal of Membrane Science</i> , 2014, 453, 27-35.	4.1	18
35	Pervaporation methodology for improving alcohol-free beer quality through aroma recovery. <i>Journal of Food Engineering</i> , 2014, 133, 1-8.	2.7	42
36	Charge and dielectric characterization of nanofiltration membranes by impedance spectroscopy. <i>Journal of Membrane Science</i> , 2014, 454, 163-173.	4.1	29

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37	Helium Recovery by Membrane Gas Separation Using Poly(<i>o</i> -acyloxyamide)s. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 12809-12818.	1.8	18
38	Purification and isolation of β -glucans from barley: Downstream process intensification. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014, 84, 90-97.	1.8	14
39	Properties of polyethersulfone ultrafiltration membranes modified with polyethylene glycols. <i>Polymer Engineering and Science</i> , 2014, 54, 1211-1221.	1.5	21
40	Liquid-liquid displacement porosimetry applied to several MF and UF membranes. <i>Desalination</i> , 2013, 327, 14-23.	4.0	17
41	Influence of low and high molecular weight compounds on the permeate flux decline in nanofiltration of red grape must. <i>Desalination</i> , 2013, 315, 124-134.	4.0	32
42	On the influence of the proportion of PEO in thermally controlled phase segregation of copoly(ether-imide)s for gas separation. <i>Journal of Membrane Science</i> , 2013, 434, 26-34.	4.1	27
43	Influence of the PEO length in gas separation properties of segregating aromatic-aliphatic copoly(ether-imide)s. <i>Chemical Engineering Science</i> , 2013, 104, 574-585.	1.9	16
44	Gas separation properties of systems with different amounts of long poly(ethylene oxide) segments for mixtures including carbon dioxide. <i>International Journal of Greenhouse Gas Control</i> , 2013, 12, 146-154.	2.3	22
45	Thermally Segregated Copolymers with PPO Blocks for Nitrogen Removal from Natural Gas. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 4312-4322.	1.8	16
46	Use of Nanofiltration Aromatic Polyamide Membranes. Case Study: Influence of Operating Conditions on the Rejection of Pb (II) in Aqueous Solutions at Industrial Pilot Plant. <i>Procedia Engineering</i> , 2012, 44, 2023-2025.	1.2	0
47	Improving the Permeation Properties by Plasma Surface Modification. <i>Procedia Engineering</i> , 2012, 44, 1353-1355.	1.2	1
48	Setting up of a Method of Pervaporation for Improving alcohol-Free Beer. <i>Procedia Engineering</i> , 2012, 44, 1005-1006.	1.2	3
49	Influence of Annealing Temperature in Permeation and Plasticization Resistance for Samples Containing Carboxylic Acid. <i>Procedia Engineering</i> , 2012, 44, 175-176.	1.2	0
50	Prediction of Single Salt Rejection in Nanofiltration Membranes. <i>Procedia Engineering</i> , 2012, 44, 1858.	1.2	0
51	Impact of Must Sugar Reduction by Membrane Applications on Volatile Composition of Verdejo Wines. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 7050-7063.	2.4	12
52	Phase Segregation and Gas Separation Properties of Thermally Treated Copoly(ether-imide) from an Aromatic Dianhydride, an Aromatic Diamine, and Various Aliphatic Diamines. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 3766-3775.	1.8	15
53	Evaluation of Nanofiltration Membranes for Sugar Reduction in Red Grape Must. <i>Procedia Engineering</i> , 2012, 44, 1716-1717.	1.2	1
54	Thermally treated copoly(ether-imide)s made from bpda and aliphatic plus aromatic diamines. GAS separation properties with different aromatic diamines. <i>Journal of Membrane Science</i> , 2012, 387-388, 54-65.	4.1	36

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55	Sugar reduction in white and red musts with nanofiltration membranes. <i>Desalination and Water Treatment</i> , 2011, 27, 167-174.	1.0	15
56	Selection of membranes for purification of fructooligosaccharides. <i>Desalination and Water Treatment</i> , 2011, 27, 18-24.	1.0	22
57	Analysis of the Grafting Process of PVP on a Silicon Surface by AFM and Contact Angle. <i>Langmuir</i> , 2011, 27, 11636-11649.	1.6	19
58	AFM analysis of the surface of nanoporous membranes: application to the nanofiltration of potassium clavulanate. <i>Journal of Materials Science</i> , 2011, 46, 3356-3369.	1.7	43
59	Electrical characterization of NF membranes. A modified model with charge variation along the pores. <i>Chemical Engineering Science</i> , 2011, 66, 2898-2911.	1.9	28
60	Liquid-liquid displacement porosimetry to estimate the molecular weight cut-off of ultrafiltration membranes. <i>Desalination</i> , 2011, 268, 174-181.	4.0	44
61	Multi-ionic nanofiltration of highly concentrated salt mixtures in the seawater range. <i>Desalination</i> , 2011, 277, 29-39.	4.0	51
62	Dielectric properties of electrolyte solutions in polymeric nanofiltration membranes. <i>Desalination and Water Treatment</i> , 2011, 27, 25-30.	1.0	10
63	Characterisation of polymeric UF membranes by liquid-liquid displacement porosimetry. <i>Journal of Membrane Science</i> , 2010, 348, 238-244.	4.1	39
64	Sugar reduction in musts with nanofiltration membranes to obtain low alcohol-content wines. <i>Separation and Purification Technology</i> , 2010, 76, 158-170.	3.9	71
65	Mass transfer and transport during purification of fructooligosaccharides by nanofiltration. <i>Journal of Membrane Science</i> , 2010, 365, 356-365.	4.1	62
66	Physical properties of films made of copoly(ether-imide)s with long poly(ethylene oxide) segments. <i>European Polymer Journal</i> , 2010, 46, 2352-2364.	2.6	25
67	Mixed matrix membranes of 6FDA-6FpDA with surface functionalized γ -alumina particles. An analysis of the improvement of permselectivity for several gas pairs. <i>Chemical Engineering Science</i> , 2010, 65, 2227-2235.	1.9	43
68	Comparison of the Volume Charge Density of Nanofiltration Membranes Obtained from Retention and Conductivity Experiments. <i>Langmuir</i> , 2010, 26, 11841-11849.	1.6	20
69	Functionalization of γ -alumina cores by polyvinylpyrrolidone: properties of the resulting biocompatible nanoparticles in aqueous suspension. <i>Journal of Nanoparticle Research</i> , 2009, 11, 341-354.	0.8	16
70	Relevance of hindrance factors and hydrodynamic pressure gradient in the modelization of the transport of neutral solutes across nanofiltration membranes. <i>Chemical Engineering Journal</i> , 2009, 149, 78-86.	6.6	22
71	Ceramic membranes from Moroccan natural clay and phosphate for industrial water treatment. <i>Desalination</i> , 2009, 245, 501-507.	4.0	41
72	Evaluation of several ultra- and nanofiltration membranes for sugar control in winemaking. <i>Desalination</i> , 2009, 245, 554-558.	4.0	26

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73	Alternative pore hindrance factors: What one should be used for nanofiltration modelization?. Desalination, 2009, 245, 606-613.	4.0	24
74	The passing of Miguel A. Mattea. Journal of Membrane Science, 2008, 321, 131.	4.1	0
75	Gas separation of 6FDA-6FpDA membranesEffect of the solvent on polymer surfaces and permselectivity. Journal of Membrane Science, 2007, 293, 22-28.	4.1	68
76	Hydrofluoric acid treatment for improved performance of a nanofiltration membrane. Desalination, 2006, 191, 273-278.	4.0	30
77	Permeability and selectivity of 6FDA-6FpDA gas membranes prepared from different solvents. Desalination, 2006, 200, 225-226.	4.0	9
78	Effect of phosphoric and hydrofluoric acid on the charge density of a nanofiltration membrane. Desalination, 2006, 200, 361-363.	4.0	3
79	Structural and functional study of two nanofiltration membranes. Desalination, 2006, 200, 354-355.	4.0	5
80	Morphology and structure of ABS membranes filled with two different activated carbons. Chemical Engineering Science, 2006, 61, 5448-5454.	1.9	34
81	Atomic force microscopy as a suitable technique for surface characterization of activated composite membranes for metal ion facilitated transport. Applied Physics A: Materials Science and Processing, 2006, 84, 277-284.	1.1	20
82	Effect of phosphoric and hydrofluoric acid on the structure and permeation of a nanofiltration membrane. Journal of Membrane Science, 2006, 281, 177-185.	4.1	17
83	Electrostatic interactions as governing the fouling in protein microfiltration. European Physical Journal Special Topics, 2005, 123, 371-375.	0.2	0
84	AFM characterization of the growth of MFI-type zeolite films on alumina substrates. Microporous and Mesoporous Materials, 2004, 71, 33-37.	2.2	22
85	Preparation and characterization of non-supported microfiltration membranes from aluminosilicates. Journal of Membrane Science, 2004, 241, 95-103.	4.1	67
86	Fouling behaviour of polyethersulfone UF membranes made with different PVP. Journal of Membrane Science, 2003, 211, 1-11.	4.1	160
87	Zeta potential of membranes as a function of pH Optimization of isoelectric point evaluation. Journal of Membrane Science, 2003, 213, 225-230.	4.1	57
88	Fouling with protein mixtures in microfiltration: BSA-lysozyme and BSA-pepsin. Journal of Membrane Science, 2003, 222, 41-51.	4.1	72
89	Application of a pore-blockage?Cake-filtration model to protein fouling during microfiltration. Biotechnology and Bioengineering, 2002, 79, 260-270.	1.7	72
90	Effect of Hydration of Polyamide Membranes on the Surface Electrokinetic Parameters: Surface Characterization by X-Ray Photoelectronic Spectroscopy and Atomic Force Microscopy. Journal of Colloid and Interface Science, 2002, 247, 149-158.	5.0	50

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91	Streaming potential through and on ultrafiltration membranes. Journal of Membrane Science, 2002, 206, 431-441.	4.1	29
92	Protein adsorption onto an inorganic microfiltration membrane. Journal of Membrane Science, 2002, 207, 199-207.	4.1	25
93	Phase-contrast scanning force microscopy and chemical heterogeneity of GR polysulfone ultrafiltration membranes. Applied Physics A: Materials Science and Processing, 2001, 73, 555-560.	1.1	14
94	Pore size distributions based on AFM imaging and retention of multidisperse polymer solutes. Journal of Membrane Science, 2001, 187, 227-237.	4.1	153
95	Protein Adsorption and Deposition onto Microfiltration Membranes: The Role of Solute-Solid Interactions. Journal of Colloid and Interface Science, 2000, 221, 254-261.	5.0	44
96	Porosity measurements by a gas penetration method and other techniques applied to membrane characterization. Thin Solid Films, 1999, 348, 22-29.	0.8	91
97	Contact angles and external protein adsorption onto UF membranes. Journal of Membrane Science, 1999, 152, 189-201.	4.1	104
98	Fouling, structure and charges of a composite inorganic microfiltration membrane.. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 138, 291-299.	2.3	18
99	Surface structure of microporous membranes by computerized SEM image analysis applied to Anopore filters. Journal of Membrane Science, 1997, 137, 89-97.	4.1	53
100	Scanning Probe Microscopy Techniques in the Investigation of Homogeneous and Heterogeneous Dense Membranes: The Case for Gas Separation Membranes. , 0, , 77-103.		0