Suzana P Nunes

List of Publications by Citations

276 papers	10,009 citations	53 h-index	87 g-index
293 ext. papers	11,319 ext. citations	7.1 avg, IF	6.72 L-index

#	Paper	IF	Citations
276	Recent membrane development for pervaporation processes. *Progress in Polymer Science*, **2016**, 57, 1-31	29.6	318
275	Inorganic modification of proton conductive polymer membranes for direct methanol fuel cells. *Journal of Membrane Science*, **2002**, 203, 215-225	9.6	307
274	CO2-Philic Polymer Membrane with Extremely High Separation Performance. *Macromolecules*, **2010**, 43, 326-333	5.5	252
273	Switchable pH-responsive polymeric membranes prepared via block copolymer micelle assembly. *ACS Nano*, **2011**, 5, 3516-22	16.7	241
272	Materials and membrane technologies for water and energy sustainability. *Sustainable Materials and Technologies*, **2016**, 7, 1-28	5.3	227
271	Selective separation of similarly sized proteins with tunable nanoporous block copolymer membranes. *ACS Nano*, **2013**, 7, 768-76	16.7	202
270	Developments in Membrane Research: from Material via Process Design to Industrial Application. *Advanced Engineering Materials*, **2006**, 8, 328-358	3.5	194
269	Membranes for gas separation based on poly(1-trimethylsilyl-1-propyne)â silica nanocomposites. *Journal of Membrane Science*, **2005**, 246, 13-25	9.6	184
268	Ultraporous Films with Uniform Nanochannels by Block Copolymer Micelles Assembly. *Macromolecules*, **2010**, 43, 8079-8085	5.5	182
267	Block Copolymer Membranes for Aqueous Solution Applications. *Macromolecules*, **2016**, 49, 2905-2916	5.5	166
266	Ultrafiltration membranes from PVDF/PMMA blends. *Journal of Membrane Science*, **1992**, 73, 25-35	9.6	162
265	Thinking the future of membranes: Perspectives for advanced and new membrane materials and manufacturing processes. *Journal of Membrane Science*, **2020**, 598, 117761	9.6	160
264	Dense hydrophilic composite membranes for ultrafiltration. *Journal of Membrane Science*, **1995**, 106, 49-56	9.6	141
263	Evidence for spinodal decomposition and nucleation and growth mechanisms during membrane formation. *Journal of Membrane Science*, **1996**, 111, 93-103	9.6	130
262	A hybrid microbial fuel cell membrane bioreactor with a conductive ultrafiltration membrane biocathode for wastewater treatment. *Environmental Science & Technology*, **2013**, 47, 11821-8	10.3	124
261	Proton electrolyte membrane properties and direct methanol fuel cell performance. *Journal of Power Sources*, **2005**, 140, 34-40	8.9	120
260	Polymer nanocomposite membranes for DMFC application. *Journal of Membrane Science*, **2005**, 254, 139-146	9.6	120

259	Membranes of poly(ether imide) and nanodispersed silica. *Journal of Membrane Science*, **1999**, 157, 219-226	9.6	119
258	Sulfonated montmorillonite/sulfonated poly(ether ether ketone) (SMMT/SPEEK) nanocomposite membrane for direct methanol fuel cells (DMFCs). *Journal of Membrane Science*, **2008**, 323, 337-346	9.6	118
257	Biomimetic block copolymer particles with gated nanopores and ultrahigh protein sorption capacity. *Nature Communications*, **2014**, 5, 4110	17.4	106
256	Organicâinorganic membranes prepared from polyether diamine and epoxy silane. *Journal of Membrane Science*, **1999**, 159, 197-207	9.6	106
255	Two-dimensional nanochannel membranes for molecular and ionic separations. *Chemical Society Reviews*, **2020**, 49, 1071-1089	58.5	103
254	Reduction of methanol permeability in polyetherketoneâheteropolyacid membranes. *Journal of Membrane Science*, **2003**, 217, 5-15	9.6	103
253	Self-Assembled Asymmetric Block Copolymer Membranes: Bridging the Gap from Ultra- to Nanofiltration. *Angewandte Chemie - International Edition*, **2015**, 54, 13937-41	16.4	101
252	Organic/inorganic composite membranes for application in DMFC. *Solid State Ionics*, **2003**, 162-163, 269-275	3.5	96
251	Synthesis and fabrication of nanostructured hydrophobic polyazole membranes for low-energy water recovery. *Journal of Membrane Science*, **2012**, 423-424, 11-19	9.6	93
250	From micelle supramolecular assemblies in selective solvents to isoporous membranes. *Langmuir*, **2011**, 27, 10184-90	4	92
249	Hybrid films of poly(ethylene oxide- b -amide-6) containing solâgel silicon or titanium oxide as inorganic fillers: effect of morphology and mechanical properties on gas permeability. *Polymer*, **2000**, 41, 5461-5470	3.9	92
248	In situ compatibilization of polyamide 6/natural rubber blends with maleic anhydride. *Polymer*, **2000**, 41, 5929-5935	3.9	92
247	Performance evaluation of the DCMD desalination process under bench scale and large scale module operating conditions. *Journal of Membrane Science*, **2014**, 455, 103-112	9.6	89
246	Self-assembly in casting solutions of block copolymer membranes. *Soft Matter*, **2013**, 9, 5557	3.6	88
245	Solution Small-Angle X-ray Scattering as a Screening and Predictive Tool in the Fabrication of Asymmetric Block Copolymer Membranes. *ACS Macro Letters*, **2012**, 1, 614-617	6.6	87
244	Performance and efficiency of a DMFC using non-fluorinated composite membranes operating at low/medium temperatures. *Journal of Power Sources*, **2005**, 145, 485-494	8.9	83
243	From Charge-Mosaic to Micelle Self-Assembly: Block Copolymer Membranes in the Last 40 Years. *Industrial & Engineering Chemistry Research*, **2013**, 52, 993-1003	3.9	82
242	Hydroxyl functionalized polytriazole-co-polyoxadiazole as substrates for forward osmosis membranes. *ACS Applied Materials & Interfaces*, **2015**, 7, 3960-73	9.5	78

241	Self-assembled isoporous block copolymer membranes with tuned pore sizes. *Angewandte Chemie - International Edition*, **2014**, 53, 10072-6	16.4	75
240	Characterization and application of composite membranes in DMFC. *Catalysis Today*, **2005**, 104, 205-212	5.3	73
239	Quaternary ammonium membrane materials for CO2 separation. *Journal of Membrane Science*, **2010**, 359, 44-53	9.6	72
238	Proton-conductive membranes of sulfonated polyphenylsulfone. *Journal of Applied Polymer Science* , **2002**, 86, 2820-2827	2.9	72
237	Structural Characterization of Catalytically Active Metal Nanoclusters in Poly(amide imide) Films with High Metal Loading. *Journal of Physical Chemistry B*, **1997**, 101, 1279-1291	3.4	69
236	Phase separation in PMMA/silica sol-gel systems. *Polymer*, **1995**, 36, 1425-1434	3.9	68
235	Isoporous PS-b-PEO ultrafiltration membranes via self-assembly and water-induced phase separation. *Journal of Membrane Science*, **2014**, 453, 471-477	9.6	67
234	Cellulose multilayer membranes manufacture with ionic liquid. *Journal of Membrane Science*, **2015**, 490, 282-293	9.6	63
233	Hybrids of perfluorosulfonic acid ionomer and silicon oxide by sol-gel reaction from solution: Morphology and thermal analysis. *Polymer*, **1998**, 39, 1309-1315	3.9	63
232	Block copolymer hollow fiber membranes with catalytic activity and pH-response. *ACS Applied Materials & Interfaces*, **2013**, 5, 7001-6	9.5	62
231	Proton conductive membranes of sulfonated poly(ether ketone ketone). *Journal of Membrane Science*, **2005**, 260, 181-186	9.6	62
230	Complexation-tailored morphology of asymmetric block copolymer membranes. *ACS Applied Materials & Interfaces*, **2013**, 5, 7152-9	9.5	61
229	Thermal degradation of polyetherimide joined by friction riveting (FricRiveting). Part I: Influence of rotation speed. *Polymer Degradation and Stability*, **2008**, 93, 1529-1538	4.7	61
228	Proton electrolyte membrane properties and direct methanol fuel cell performance: II. Fuel cell performance and membrane properties effects. *Journal of Power Sources*, **2005**, 140, 41-49	8.9	60
227	Membranes for direct methanol fuel cell based on modified heteropolyacids. *Desalination*, **2004**, 162, 383-391	10.3	59
226	Zirconium oxide hybrid membranes for direct methanol fuel cellsâEvaluation of transport properties. *Journal of Membrane Science*, **2006**, 284, 137-144	9.6	54
225	2D-dual-spacing channel membranes for high performance organic solvent nanofiltration. *Journal of Materials Chemistry A*, **2019**, 7, 11673-11682	13	53
224	Characterization of partially sulfonated polyoxadiazoles and oxadiazoleâEriazole copolymers. *Journal of Membrane Science*, **2007**, 295, 121-129	9.6	53

223	Silver-enhanced block copolymer membranes with biocidal activity. *ACS Applied Materials & Interfaces*, **2014**, 6, 18497-501	9.5	52
222	Porous poly(l-lactide) films obtained by immersion precipitation process: morphology, phase separation and culture of VERO cells. *Polymer*, **1999**, 40, 3275-3289	3.9	52
221	Hybrids of SiO2 and poly(amide 6-b-ethylene oxide). *Polymer*, **1997**, 38, 5705-5712	3.9	51
220	Electrochemical impedance studies of hybrids of perfluorosulfonic acid ionomer and silicon oxide by sol-gel reaction from solution. *Journal of Electroanalytical Chemistry*, **1998**, 445, 39-45	4.1	51
219	Biomimetic artificial water channel membranes for enhanced desalination. *Nature Nanotechnology*, **2021**, 16, 190-196	28.7	51
218	Palladium-Catalyzed Phosphonation of Polyphenylsulfone. *Macromolecular Chemistry and Physics*, **2003**, 204, 61-67	2.6	50
217	Ultrathin 2D-Layered Cyclodextrin Membranes for High- Performance Organic Solvent Nanofiltration. *Advanced Functional Materials*, **2020**, 30, 1906797	15.6	50
216	Interfacial Polymerization of Zwitterionic Building Blocks for High-Flux Nanofiltration Membranes. *Langmuir*, **2019**, 35, 1284-1293	4	49
215	Single-step synthesis of sulfonated polyoxadiazoles and their use as proton conducting membranes. *Journal of Power Sources*, **2008**, 175, 49-59	8.9	48
214	Ion exchange membranes derived from sulfonated polyaramides. *Reactive and Functional Polymers*, **2003**, 57, 77-92	4.6	48
213	Time-resolved GISAXS and cryo-microscopy characterization of block copolymer membrane formation. *Polymer*, **2014**, 55, 1327-1332	3.9	46
212	Mass transport of direct methanol fuel cell species in sulfonated poly(ether ether ketone) membranes. *Electrochimica Acta*, **2006**, 51, 3699-3706	6.7	46
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210	Nanostructured membranes and electrodes with sulfonic acid functionalized carbon nanotubes. *Journal of Power Sources*, **2011**, 196, 911-919	8.9	43
209	Modified SPEEK membranes for direct ethanol fuel cell. *Journal of Power Sources*, **2010**, 195, 4036-4042	8.9	43
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206	Membrane biofouling in a wastewater nitrification reactor: Microbial succession from autotrophic colonization to heterotrophic domination. *Water Research*, **2016**, 88, 337-345	12.5	41

205	PVDF hollow fiber and nanofiber membranes for fresh water reclamation using membrane distillation. *Journal of Materials Science*, **2014**, 49, 2045-2053	4.3	41
204	Fabrication of electrospun nanofibrous membranes for membrane distillation application. *Desalination and Water Treatment*, **2013**, 51, 1337-1343		41
203	Mixed conductive blends of SPEEK/PANI. *Solid State Ionics*, **2005**, 176, 1411-1417	3.3	40
202	Outer-selective thin film composite (TFC) hollow fiber membranes for osmotic power generation. *Journal of Membrane Science*, **2016**, 505, 157-166	9.6	39
201	Sulfonated polynaphthalimides with benzimidazole pendant groups. *Polymer*, **2008**, 49, 3875-3883	3.9	38
200	Porous polymeric membranes with thermal and solvent resistance. *Journal of Membrane Science*, **2017**, 539, 187-196	9.6	37
199	Development of polyoxadiazole nanocomposites for high temperature polymer electrolyte membrane fuel cells. *Journal of Membrane Science*, **2008**, 322, 406-415	9.6	37
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195	Hollow fiber membrane lumen modified by polyzwitterionic grafting. *Journal of Membrane Science*, **2017**, 522, 1-11	9.6	35
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192	Phosphonated and sulfonated polyhphenylsulfone membranes for fuel cell application. *Journal of Membrane Science*, **2006**, 285, 206-213	9.6	34
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189	Membrane manufacture for peptide separation. *Green Chemistry*, **2016**, 18, 5151-5159	10	33
188	Temporal changes in extracellular polymeric substances on hydrophobic and hydrophilic membrane surfaces in a submerged membrane bioreactor. *Water Research*, **2016**, 95, 27-38	12.5	33

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184	Cellulose hollow fibers for organic resistant nanofiltration. *Journal of Membrane Science*, **2019**, 586, 151-161	9.61	31
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181	Highways for water molecules: Interplay between nanostructure and water vapor transport in block copolymer membranes. *Journal of Membrane Science*, **2019**, 572, 641-649	9.6	31
180	Ionic liquids as self-assembly guide for the formation of nanostructured block copolymer membranes. *Journal of Membrane Science*, **2015**, 492, 568-577	9.6	30
179	Oilâ Water Separation using Membranes Manufactured from Cellulose/Ionic Liquid Solutions. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 5649-5659	8.3	30
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174	Synthesis and characterization of flexible polyoxadiazole films through cyclodehydration of polyhydrazides. *Polymer*, **2003**, 44, 3633-3639	3.9	28
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171	One-pot synthesis of high molecular weight sulfonated poly(oxadiazoleâ triazole) copolymers for proton conductive membranes. *Journal of Membrane Science*, **2008**, 319, 14-22	9.6	27
170	Vacuum membrane distillation of liquid desiccants utilizing hollow fiber membranes. *Separation and Purification Technology*, **2018**, 199, 57-63	8.3	26

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162	Hollow ZIF-8 Nanoworms from Block Copolymer Templates. *Scientific Reports*, **2015**, 5, 15275	4.9	24
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160	Hybrid electrolytes of poly(ethylene oxide) copolymers/LiClO4/SiO2: thermal analysis, mechanical properties and chemometric study of ionic conductivity. *Acta Polymerica*, **1997**, 48, 193-198		24
159	Ultrafiltration membranes from poly(ether sulfonamide)/poly(ether imide) blends. *Journal of Membrane Science*, **1993**, 79, 83-91	9.6	24
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157	Investigation of the role of benzimidazole-based model compounds on thermal stability and anhydrous proton conductivity of sulfonated poly(ether ether ketone). *Solid State Ionics*, **2009**, 180, 738-745	3.1	23
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148	Proton exchange membranes for direct methanol fuel cells: Properties critical study concerning methanol crossover and proton conductivity. *Journal of Membrane Science*, **2006**, 276, 126-134	9.6	22
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142	Membranes in Fuel Cells. *Journal of Membrane Science*, **2001**, 185, 1	9.6	20
141	Thin porphyrin composite membranes with enhanced organic solvent transport. *Journal of Membrane Science*, **2018**, 563, 684-693	9.6	19
140	Design of block copolymer membranes using segregation strength trend lines. *Molecular Systems Design and Engineering*, **2016**, 1, 278-289	4.6	19
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138	Hybrid membranes based on SiO2/polyether-b-polyamide: Morphology and applications. *Journal of Applied Polymer Science*, **2001**, 82, 178-185	2.9	19
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114	Proton conductive membranes based on doped sulfonated polytriazole. *International Journal of Hydrogen Energy*, **2010**, 35, 12054-12064	6.7	14
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