Arcadio Sotto

List of Publications by Year
in descending order

77 papers	4,897 citations	81900 39 h-index	91884 69 g-index
77 all docs	77 docs citations	77 times ranked	4269 citing authors

#	Article	IF	Citations
1	Novel crosslinked brominated polyphenylene oxide composite nanofiltration membranes with organic solvent permeability and swelling property. Journal of Membrane Science, 2021, 620, 118784.	8.2	17
2	Homogeneous trimethylamine-quaternized polysulfone-based anion exchange membranes with crosslinked structure for electrodialysis desalination. Separation and Purification Technology, 2021, 257, 117874.	7.9	32
3	Effect of Microstructures of Side-Chain-Type Anion Exchange Membranes on Mono-/Bivalent Anion Permselectivity in Electrodialysis. ACS Applied Polymer Materials, 2021, 3, 342-353.	4.4	18
4	A two-step strategy for the preparation of anion-exchange membranes based on poly(vinylidenefluoride-co-hexafluoropropylene) for electrodialysis desalination. Polymer, 2021, 218, 123508.	3.8	13
5	Poly(vinyl chloride)-hyperbranched polyamidoamine ultrafiltration membranes with antifouling and antibiofouling properties. Reactive and Functional Polymers, 2020, 154, 104669.	4.1	21
6	Study on Recovering High-Concentration Lithium Salt from Lithium-Containing Wastewater Using a Hybrid Reverse Osmosis (RO)â€“Electrodialysis (ED) Process. ACS Sustainable Chemistry and Engineering, 2019, 7, 13481-13490.	6.7	30
7	Three-Dimensional Stable Cation-Exchange Membrane with Enhanced Mechanical, Electrochemical, and Antibacterial Performance by in Situ Synthesis of Silver Nanoparticles. ACS Omega, 2019, 4, 16619-16628.	3.5	9
8	Thermo- and pH-responsive graphene oxide membranes with tunable nanochannels for water gating and permeability of small molecules. Journal of Membrane Science, 2019, 587, 117163.	8.2	53
9	Constructing an internally cross-linked structure for polysulfone to improve dimensional stability and alkaline stability of high performance anion exchange membranes. International Journal of Hydrogen Energy, 2019, 44, 8279-8289.	7.1	31
10	Fabricating a pH-responsive membrane through interfacial in-situ assembly of microgels for water gating and self-cleaning. Journal of Membrane Science, 2019, 579, 230-239.	8.2	51
11	Effect of functionality of cross-linker on sulphonated polysulfone cation exchange membranes for electrodialysis. Reactive and Functional Polymers, 2019, 138, 104-113.	4.1	17
12	Integration of Bipolar Membrane Electrodialysis with Ion-Exchange Absorption for High-Quality H₃PO₂ Recovery from NaH₂PO₂. ACS Omega, 2019, 4, 3983-3989.	3.5	15
13	Polythyleneimine-modified original positive charged nanofiltration membrane: Removal of heavy metal ions and dyes. Separation and Purification Technology, 2019, 222, 117-124.	7.9	115
14	A facile approach to prepare crosslinked polysulfone-based anion exchange membranes with enhanced alkali resistance and dimensional stability. RSC Advances, 2019, 9, 36374-36385.	3.6	6
15	Highly conductive anion exchange membranes with low water uptake and performance evaluation in electrodialysis. Separation and Purification Technology, 2019, 211, 481-490.	7.9	29
16	Removal of aqueous copper(II) by using crosslinked chitosan films. Reactive and Functional Polymers, 2019, 134, 31-39.	4.1	23
17	Preparation of water-based anion-exchange membrane from PVA for anti-fouling in the electrodialysis process. Journal of Membrane Science, 2019, 570-571, 130-138.	8.2	31
18	Preparation and characterization of an amphiphilic polyamide nanofiltration membrane with improved antifouling properties by two-step surface modification method. RSC Advances, 2018, 8, 13353-13363.	3.6	28

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19	Advanced desalination of dye/NaCl mixtures by a loose nanofiltration membrane for digital ink-jet printing. Separation and Purification Technology, 2018, 197, 27-35.	7.9	144
20	â€œSandwichâ€•like structure modified anion exchange membrane with enhanced monovalent selectivity and fouling resistant. Journal of Membrane Science, 2018, 556, 98-106.	8.2	66
21	A novel nanofiltration membrane inspired by an asymmetric porous membrane for selective fractionation of monovalent anions in electrodialysis. RSC Advances, 2018, 8, 30502-30511.	3.6	14
22	Engineering of thermo-/pH-responsive membranes with enhanced gating coefficients, reversible behaviors and self-cleaning performance through acetic acid boosted microgel assembly. Journal of Materials Chemistry A, 2018, 6, 11874-11883.	10.3	42
23	Stable cycloaliphatic quaternary ammonium-tethered anion exchange membranes for electrodialysis. Reactive and Functional Polymers, 2018, 130, 61-69.	4.1	24
24	Bioinspired dual stimuli-responsive membranes with enhanced gating ratios and reversible performances for water gating. Journal of Membrane Science, 2018, 564, 53-61.	8.2	31
25	Dual Functional Layers Modified Anion Exchange Membranes with Improved Fouling Resistant for Electrodialysis. Advanced Materials Interfaces, 2018, 5, 1800909.	3.7	20
26	A durable and antifouling monovalent selective anion exchange membrane modified by polydopamine and sulfonated reduced graphene oxide. Separation and Purification Technology, 2018, 207, 116-123.	7.9	42
27	Separation of divalent ions from seawater concentrate to enhance the purity of coarse salt by electrodialysis with monovalent-selective membranes. Desalination, 2017, 411, 28-37.	8.2	125
28	Process Economic Evaluation of Resource Valorization of Seawater Concentrate by Membrane Technology. ACS Sustainable Chemistry and Engineering, 2017, 5, 5820-5830.	6.7	43
29	Progress and perspectives for synthesis of sustainable antifouling composite membranes containing in situ generated nanoparticles. Journal of Membrane Science, 2017, 524, 502-528.	8.2	156
30	Fouling and biofouling resistance of metal-doped mesostructured silica/polyethersulfone ultrafiltration membranes. Journal of Membrane Science, 2017, 526, 252-263.	8.2	56
31	Internal cross-linked anion exchange membranes with improved dimensional stability for electrodialysis. Journal of Membrane Science, 2017, 542, 280-288.	8.2	49
32	Preparation and characterization of polyethersulfone mixed matrix membranes embedded with Ti- or Zr-incorporated SBA-15 materials. Journal of Industrial and Engineering Chemistry, 2017, 45, 257-265.	5.8	25
33	A facile avenue to modify polyelectrolyte multilayers on anion exchange membranes to enhance monovalent selectivity and durability simultaneously. Journal of Membrane Science, 2017, 543, 310-318.	8.2	56
34	Tight ultrafiltration membranes for enhanced separation of dyes and Na2SO4 during textile wastewater treatment. Journal of Membrane Science, 2016, 514, 217-228.	8.2	378
35	Effect of amine functionalization of SBA-15 used as filler on the morphology and permeation properties of polyethersulfone-doped ultrafiltration membranes. Journal of Membrane Science, 2016, 520, 8-18.	8.2	25
36	An anion exchange membrane modified by alternate electro-deposition layers with enhanced monovalent selectivity. Journal of Membrane Science, 2016, 520, 262-271.	8.2	141

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37	Fabrication of a MIL-53(Al) Nanocomposite Membrane and Potential Application in Desalination of Dye Solutions. Industrial & Engineering Chemistry Research, 2016, 55, 12099-12110.	3.7	62
38	Preparation of loose polypiperazine amide membranes. Effect of the nanocomposite sublayer on the NF process performance. Chemical Engineering Journal, 2016, 294, 431-438.	12.7	22
39	Novel Composite Anion Exchange Membranes Based on Quaternized Polyepichlorohydrin for Electromembrane Application. Industrial & Engineering Chemistry Research, 2016, 55, 7171-7178.	3.7	38
40	A comprehensive physico-chemical characterization of superhydrophilic loose nanofiltration membranes. Journal of Membrane Science, 2016, 501, 1-14.	8.2	93
41	Recovery of chemically degraded polyethyleneimine by a re-modification method: prolonging the lifetime of cation exchange membranes. RSC Advances, 2016, 6, 16548-16554.	3.6	29
42	Enhancement of polyethersulfone (PES) membrane doped by monodisperse StÃ¶ber silica for water treatment. Chemical Engineering and Processing: Process Intensification, 2016, 107, 194-205.	3.6	80
43	Fractionation of direct dyes and salts in aqueous solution using loose nanofiltration membranes. Journal of Membrane Science, 2015, 477, 183-193.	8.2	355
44	Unraveling flux behavior of superhydrophilic loose nanofiltration membranes during textile wastewater treatment. Journal of Membrane Science, 2015, 493, 690-702.	8.2	203
45	Toward Resource Recovery from Textile Wastewater: Dye Extraction, Water and Base/Acid Regeneration Using a Hybrid NF-BMED Process. ACS Sustainable Chemistry and Engineering, 2015, 3, 1993-2001.	6.7	109
46	Humic acid fouling in a submerged photocatalytic membrane reactor with binary TiO 2 â€“ZrO 2 particles. Journal of Industrial and Engineering Chemistry, 2015, 21, 779-786.	5.8	44
47	Enhanced ultrafiltration PES membranes doped with mesostructured functionalized silica particles. Desalination, 2015, 357, 16-25.	8.2	46
48	Preparation and characterization of <scp>MOFâ€PES</scp> ultrafiltration membranes. Journal of Applied Polymer Science, 2015, 132, .	2.6	48
49	Binary metal oxides for composite ultrafiltration membranes. Journal of Materials Chemistry A, 2014, 2, 7054-7064.	10.3	42
50	Data Mining with Enhanced Neural Networks-CMMSE. Mathematical Modelling and Algorithms, 2013, 12, 277-290.	0.5	1
51	Coupling membrane separation and photocatalytic oxidation processes for the degradation of pharmaceutical pollutants. Water Research, 2013, 47, 5647-5658.	11.3	103
52	Influence of the type, size, and distribution of metal oxide particles on the properties of nanocomposite ultrafiltration membranes. Journal of Membrane Science, 2013, 428, 131-141.	8.2	213
53	Embedding TiO2 nanoparticles versus surface coating by layer-by-layer deposition on nanoporous polymeric films. Microporous and Mesoporous Materials, 2013, 173, 121-128.	4.4	33
54	Nano-WS2 embedded PES membrane with improved fouling and permselectivity. Journal of Colloid and Interface Science, 2013, 396, 120-128.	9.4	52

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55	Fouling Resistant Polysulfoneâ€“PANI/TiO₂ Ultrafiltration Nanocomposite Membranes. Industrial & Engineering Chemistry Research, 2013, 52, 9470-9479.	3.7	102
56	Sorption of phenolic compounds on NF/RO membrane surfaces: Influence on membrane performance. Desalination, 2013, 309, 64-73.	8.2	50
57	Prediction of the Amount of Wood Using Neural Networks. Mathematical Modelling and Algorithms, 2012, 11, 295-307.	0.5	6
58	Nanofiltration removal of pharmaceutically active compounds. Desalination and Water Treatment, 2012, 42, 138-143.	1.0	16
59	Effect of the manufacturing conditions on the structure and performance of thinâ€film composite membranes. Journal of Applied Polymer Science, 2012, 125, 3755-3769.	2.6	45
60	Improved membrane structures for seawater desalination by studying the influence of sublayers. Desalination, 2012, 287, 317-325.	8.2	51
61	A new outlook on membrane enhancement with nanoparticles: The alternative of ZnO. Journal of Membrane Science, 2012, 389, 155-161.	8.2	355
62	Nanofiltration membranes enhanced with TiO₂nanoparticles: a comprehensive study. Desalination and Water Treatment, 2011, 34, 179-183.	1.0	21
63	Doping of polyethersulfone nanofiltration membranes: antifouling effect observed at ultralow concentrations of TiO2 nanoparticles. Journal of Materials Chemistry, 2011, 21, 10311.	6.7	139
64	Effect of nanoparticle aggregation at low concentrations of TiO2 on the hydrophilicity, morphology, and fouling resistance of PESâ€“TiO2 membranes. Journal of Colloid and Interface Science, 2011, 363, 540-550.	9.4	185
65	Influence of type and position of functional groups of phenolic compounds on NF/RO performance. Journal of Membrane Science, 2011, 372, 380-386.	8.2	38
66	Application of tailor-made membranes in a multi-stage process for the purification of sweeteners from Stevia rebaudiana. Journal of Food Engineering, 2011, 103, 285-293.	5.2	45
67	Separation of phenols and their advanced oxidation intermediate products in aqueous solution by NF/RO membranes. Separation and Purification Technology, 2010, 71, 246-251.	7.9	17
68	Correlation between retention and adsorption of phenolic compounds in nanofiltration membranes. Desalination, 2010, 250, 829-832.	8.2	52
69	Membrane treatment applied to aqueous solutions containing atrazine photocatalytic oxidation products. Desalination and Water Treatment, 2010, 21, 175-180.	1.0	9
70	Influence of membrane, solute and solution properties on the retention of phenolic compounds in aqueous solution by nanofiltration membranes. Separation and Purification Technology, 2009, 66, 194-201.	7.9	127
71	Temperature, pH and concentration effects on retention and transport of organic pollutants across thin-film composite nanofiltration membranes. Desalination, 2008, 221, 253-258.	8.2	50
72	Retention of phenols and carboxylic acids by nanofiltration/reverse osmosis membranes: sieving and membrane-solute interaction effects. Desalination, 2006, 200, 731-733.	8.2	25

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73	Optical Properties of High Pressure Phases in ZnTe 1âˆ’ x Se x. High Pressure Research, 2002, 22, 315-318.	1.2	9
74	Pressure Dependence of the Bandgap Bowing in Zinc-Blende ZnTe 1âˆ’ x Se x. High Pressure Research, 2002, 22, 257-260.	1.2	5
75	Nanofiltration removal of pharmaceutically active compounds. , 0, 42, 138-143.		1
76	Influence of amine functionalization of silica particles fillers on the morphology and water permeation of polyethersulfone nanocomposite ultrafiltration membranes. , 0, 69, 18-28.		0
77	Prediction of the Amount of Wood Using Neural Networks. Mathematical Modelling and Algorithms, 0, , .	0.5	0