

Arcadio Sotto

List of Publications by Year in descending order

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76
papers

4,897
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93792

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times ranked

4895
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel crosslinked brominated polyphenylene oxide composite nanofiltration membranes with organic solvent permeability and swelling property. <i>Journal of Membrane Science</i> , 2021, 620, 118784.	4.1	17
2	Homogeneous trimethylamine-quaternized polysulfone-based anion exchange membranes with crosslinked structure for electrodialysis desalination. <i>Separation and Purification Technology</i> , 2021, 257, 117874.	3.9	32
3	Effect of Microstructures of Side-Chain-Type Anion Exchange Membranes on Mono-/Bivalent Anion Permselectivity in Electrodialysis. <i>ACS Applied Polymer Materials</i> , 2021, 3, 342-353.	2.0	18
4	A two-step strategy for the preparation of anion-exchange membranes based on poly(vinylidene fluoride-co-hexafluoropropylene) for electrodialysis desalination. <i>Polymer</i> , 2021, 218, 123508.	1.8	13
5	Poly(vinyl chloride)-hyperbranched polyamidoamine ultrafiltration membranes with antifouling and antibiofouling properties. <i>Reactive and Functional Polymers</i> , 2020, 154, 104669.	2.0	21
6	Study on Recovering High-Concentration Lithium Salt from Lithium-Containing Wastewater Using a Hybrid Reverse Osmosis (RO) + Electrodesalination (ED) Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 13481-13490.	3.2	30
7	Three-Dimensional Stable Cation-Exchange Membrane with Enhanced Mechanical, Electrochemical, and Antibacterial Performance by in Situ Synthesis of Silver Nanoparticles. <i>ACS Omega</i> , 2019, 4, 16619-16628.	1.6	9
8	Thermo- and pH-responsive graphene oxide membranes with tunable nanochannels for water gating and permeability of small molecules. <i>Journal of Membrane Science</i> , 2019, 587, 117163.	4.1	53
9	Constructing an internally cross-linked structure for polysulfone to improve dimensional stability and alkaline stability of high performance anion exchange membranes. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 8279-8289.	3.8	31
10	Fabricating a pH-responsive membrane through interfacial in-situ assembly of microgels for water gating and self-cleaning. <i>Journal of Membrane Science</i> , 2019, 579, 230-239.	4.1	51
11	Effect of functionality of cross-linker on sulphonated polysulfone cation exchange membranes for electrodialysis. <i>Reactive and Functional Polymers</i> , 2019, 138, 104-113.	2.0	17
12	Integration of Bipolar Membrane Electrodialysis with Ion-Exchange Absorption for High-Quality H_3PO_4 Recovery from NaH_2PO_4 . <i>ACS Omega</i> , 2019, 4, 3983-3989.	1.6	15
13	Polyethyleneimine-modified original positive charged nanofiltration membrane: Removal of heavy metal ions and dyes. <i>Separation and Purification Technology</i> , 2019, 222, 117-124.	3.9	115
14	A facile approach to prepare crosslinked polysulfone-based anion exchange membranes with enhanced alkali resistance and dimensional stability. <i>RSC Advances</i> , 2019, 9, 36374-36385.	1.7	6
15	Highly conductive anion exchange membranes with low water uptake and performance evaluation in electrodialysis. <i>Separation and Purification Technology</i> , 2019, 211, 481-490.	3.9	29
16	Removal of aqueous copper(II) by using crosslinked chitosan films. <i>Reactive and Functional Polymers</i> , 2019, 134, 31-39.	2.0	23
17	Preparation of water-based anion-exchange membrane from PVA for anti-fouling in the electrodialysis process. <i>Journal of Membrane Science</i> , 2019, 570-571, 130-138.	4.1	31
18	Preparation and characterization of an amphiphilic polyamide nanofiltration membrane with improved antifouling properties by two-step surface modification method. <i>RSC Advances</i> , 2018, 8, 13353-13363.	1.7	28

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19	Advanced desalination of dye/NaCl mixtures by a loose nanofiltration membrane for digital ink-jet printing. <i>Separation and Purification Technology</i> , 2018, 197, 27-35.	3.9	144
20	“Sandwich”-like structure modified anion exchange membrane with enhanced monovalent selectivity and fouling resistant. <i>Journal of Membrane Science</i> , 2018, 556, 98-106.	4.1	66
21	A novel nanofiltration membrane inspired by an asymmetric porous membrane for selective fractionation of monovalent anions in electrodialysis. <i>RSC Advances</i> , 2018, 8, 30502-30511.	1.7	14
22	Engineering of thermo-/pH-responsive membranes with enhanced gating coefficients, reversible behaviors and self-cleaning performance through acetic acid boosted microgel assembly. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11874-11883.	5.2	42
23	Stable cycloaliphatic quaternary ammonium-tethered anion exchange membranes for electrodialysis. <i>Reactive and Functional Polymers</i> , 2018, 130, 61-69.	2.0	24
24	Bioinspired dual stimuli-responsive membranes with enhanced gating ratios and reversible performances for water gating. <i>Journal of Membrane Science</i> , 2018, 564, 53-61.	4.1	31
25	Dual Functional Layers Modified Anion Exchange Membranes with Improved Fouling Resistant for Electrodialysis. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800909.	1.9	20
26	A durable and antifouling monovalent selective anion exchange membrane modified by polydopamine and sulfonated reduced graphene oxide. <i>Separation and Purification Technology</i> , 2018, 207, 116-123.	3.9	42
27	Separation of divalent ions from seawater concentrate to enhance the purity of coarse salt by electrodialysis with monovalent-selective membranes. <i>Desalination</i> , 2017, 411, 28-37.	4.0	125
28	Process Economic Evaluation of Resource Valorization of Seawater Concentrate by Membrane Technology. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5820-5830.	3.2	43
29	Progress and perspectives for synthesis of sustainable antifouling composite membranes containing in situ generated nanoparticles. <i>Journal of Membrane Science</i> , 2017, 524, 502-528.	4.1	156
30	Fouling and biofouling resistance of metal-doped mesostructured silica/polyethersulfone ultrafiltration membranes. <i>Journal of Membrane Science</i> , 2017, 526, 252-263.	4.1	56
31	Internal cross-linked anion exchange membranes with improved dimensional stability for electrodialysis. <i>Journal of Membrane Science</i> , 2017, 542, 280-288.	4.1	49
32	Preparation and characterization of polyethersulfone mixed matrix membranes embedded with Ti- or Zr-incorporated SBA-15 materials. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 45, 257-265.	2.9	25
33	A facile avenue to modify polyelectrolyte multilayers on anion exchange membranes to enhance monovalent selectivity and durability simultaneously. <i>Journal of Membrane Science</i> , 2017, 543, 310-318.	4.1	56
34	Tight ultrafiltration membranes for enhanced separation of dyes and Na ₂ SO ₄ during textile wastewater treatment. <i>Journal of Membrane Science</i> , 2016, 514, 217-228.	4.1	378
35	Effect of amine functionalization of SBA-15 used as filler on the morphology and permeation properties of polyethersulfone-doped ultrafiltration membranes. <i>Journal of Membrane Science</i> , 2016, 520, 8-18.	4.1	25
36	An anion exchange membrane modified by alternate electro-deposition layers with enhanced monovalent selectivity. <i>Journal of Membrane Science</i> , 2016, 520, 262-271.	4.1	141

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37	Fabrication of a MIL-53(AI) Nanocomposite Membrane and Potential Application in Desalination of Dye Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 12099-12110.	1.8	62
38	Preparation of loose polypiperazine amide membranes. Effect of the nanocomposite sublayer on the NF process performance. <i>Chemical Engineering Journal</i> , 2016, 294, 431-438.	6.6	22
39	Novel Composite Anion Exchange Membranes Based on Quaternized Polyepichlorohydrin for Electromembrane Application. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 7171-7178.	1.8	38
40	A comprehensive physico-chemical characterization of superhydrophilic loose nanofiltration membranes. <i>Journal of Membrane Science</i> , 2016, 501, 1-14.	4.1	93
41	Recovery of chemically degraded polyethyleneimine by a re-modification method: prolonging the lifetime of cation exchange membranes. <i>RSC Advances</i> , 2016, 6, 16548-16554.	1.7	29
42	Enhancement of polyethersulfone (PES) membrane doped by monodisperse Stober silica for water treatment. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 107, 194-205.	1.8	80
43	Fractionation of direct dyes and salts in aqueous solution using loose nanofiltration membranes. <i>Journal of Membrane Science</i> , 2015, 477, 183-193.	4.1	355
44	Unraveling flux behavior of superhydrophilic loose nanofiltration membranes during textile wastewater treatment. <i>Journal of Membrane Science</i> , 2015, 493, 690-702.	4.1	203
45	Toward Resource Recovery from Textile Wastewater: Dye Extraction, Water and Base/Acid Regeneration Using a Hybrid NF-BMED Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1993-2001.	3.2	109
46	Humic acid fouling in a submerged photocatalytic membrane reactor with binary TiO ₂ & ZrO ₂ particles. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 779-786.	2.9	44
47	Enhanced ultrafiltration PES membranes doped with mesostructured functionalized silica particles. <i>Desalination</i> , 2015, 357, 16-25.	4.0	46
48	Preparation and characterization of MOF@PES ultrafiltration membranes. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	48
49	Binary metal oxides for composite ultrafiltration membranes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7054-7064.	5.2	42
50	Data Mining with Enhanced Neural Networks-CMMSE. <i>Mathematical Modelling and Algorithms</i> , 2013, 12, 277-290.	0.5	1
51	Coupling membrane separation and photocatalytic oxidation processes for the degradation of pharmaceutical pollutants. <i>Water Research</i> , 2013, 47, 5647-5658.	5.3	103
52	Influence of the type, size, and distribution of metal oxide particles on the properties of nanocomposite ultrafiltration membranes. <i>Journal of Membrane Science</i> , 2013, 428, 131-141.	4.1	213
53	Embedding TiO ₂ nanoparticles versus surface coating by layer-by-layer deposition on nanoporous polymeric films. <i>Microporous and Mesoporous Materials</i> , 2013, 173, 121-128.	2.2	33
54	Nano-WS ₂ embedded PES membrane with improved fouling and permselectivity. <i>Journal of Colloid and Interface Science</i> , 2013, 396, 120-128.	5.0	52

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55	Fouling Resistant Polysulfone/PANI/TiO ₂ Ultrafiltration Nanocomposite Membranes. Industrial & Engineering Chemistry Research, 2013, 52, 9470-9479.	1.8	102
56	Sorption of phenolic compounds on NF/RO membrane surfaces: Influence on membrane performance. Desalination, 2013, 309, 64-73.	4.0	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 thin-film composite membranes. Journal of Applied Polymer Science, 2012, 125, 3755-3769.	1.3	45
60	Improved membrane structures for seawater desalination by studying the influence of sublayers. Desalination, 2012, 287, 317-325.	4.0	51
61	A new outlook on membrane enhancement with nanoparticles: The alternative of ZnO. Journal of Membrane Science, 2012, 389, 155-161.	4.1	355
62	Nanofiltration membranes enhanced with TiO ₂ nanoparticles: 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 TiO ₂ nanoparticles. Journal of Materials Chemistry, 2011, 21, 10311.	6.7	139
64	Effect of nanoparticle aggregation at low concentrations of TiO ₂ on the hydrophilicity, morphology, and fouling resistance of PES/TiO ₂ membranes. Journal of Colloid and Interface Science, 2011, 363, 540-550.	5.0	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.	4.1	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.	2.7	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.	3.9	17
68	Correlation between retention and adsorption of phenolic compounds in nanofiltration membranes. Desalination, 2010, 250, 829-832.	4.0	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.	3.9	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.	4.0	50
72	Retention of phenols and carboxylic acids by nanofiltration/reverse osmosis membranes: sieving and membrane-solute interaction effects. Desalination, 2006, 200, 731-733.	4.0	25

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73	Optical Properties of High Pressure Phases in ZnTe $1-x$ Se x . High Pressure Research, 2002, 22, 315-318.	0.4	9
74	Pressure Dependence of the Bandgap Bowing in Zinc-Blende ZnTe $1-x$ Se x . High Pressure Research, 2002, 22, 257-260.	0.4	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