

Marek Bryjak

List of Publications by Year in descending order

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99
papers

3,193
citations

147801

31
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168389

53
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101
all docs

101
docs citations

101
times ranked

2814
citing authors

#	ARTICLE	IF	CITATIONS
1	ABE fermentation products recovery methodsâ€”A review. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 48, 648-661.	16.4	221
2	Methods for boron removal from aqueous solutions â€” A review. <i>Desalination</i> , 2013, 310, 18-24.	8.2	208
3	Boron in seawater and methods for its separation â€” A review. <i>Desalination</i> , 2010, 261, 212-217.	8.2	176
4	Modification of polysulfone membranes 1. CO2 plasma treatment. <i>European Polymer Journal</i> , 1999, 35, 1419-1428.	5.4	148
5	Modification of polysulfone membranes. <i>European Polymer Journal</i> , 2000, 36, 1563-1569.	5.4	119
6	Removal of boron from seawater by selective ion exchange resins. <i>Reactive and Functional Polymers</i> , 2007, 67, 1643-1650.	4.1	116
7	Modification of polysulfone membranes 4. Ammonia plasma treatment. <i>European Polymer Journal</i> , 2002, 38, 717-726.	5.4	115
8	Influence of hydrophobization conditions and ceramic membranes pore size on their properties in vacuum membrane distillation of waterâ€”organic solvent mixtures. <i>Journal of Membrane Science</i> , 2016, 499, 442-451.	8.2	106
9	Lithium capturing from geothermal water by hybrid capacitive deionization. <i>Desalination</i> , 2018, 436, 8-14.	8.2	79
10	Modification of polysulfone membranes 5. Effect of n-butylamine and allylamine plasma. <i>European Polymer Journal</i> , 2002, 38, 1937-1946.	5.4	67
11	Performances of novel chelating ion exchange resins for boron and arsenic removal from saline geothermal water using adsorption-membrane filtration hybrid process. <i>Desalination</i> , 2020, 491, 114504.	8.2	64
12	Pervaporative removal of acetone, butanol and ethanol from binary and multicomponent aqueous mixtures. <i>Separation and Purification Technology</i> , 2014, 132, 422-429.	7.9	59
13	Deposition of Zinc Oxide on Different Polymer Textiles and Their Antibacterial Properties. <i>Materials</i> , 2018, 11, 707.	2.9	59
14	How To Functionalize Ceramics by Perfluoroalkylsilanes for Membrane Separation Process? Properties and Application of Hydrophobized Ceramic Membranes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7564-7577.	8.0	56
15	Preparation of polymeric microspheres for removal of boron by means of sorption-membrane filtration hybrid. <i>Desalination</i> , 2011, 283, 193-197.	8.2	55
16	Removal of boron from aqueous solutions by a hybrid ion exchangeâ€”membrane process. <i>Desalination</i> , 2006, 198, 158-165.	8.2	54
17	Plasma modified polymers as a support for enzyme immobilization 1.. <i>European Polymer Journal</i> , 2003, 39, 1615-1622.	5.4	53
18	Equilibrium and kinetic study of chromium sorption on resins with quaternary ammonium and N-methyl- d -glucamine groups. <i>Chemical Engineering Journal</i> , 2016, 284, 395-404.	12.7	52

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19	Enantioselective transport of amino acid through supported chiral liquid membranes. <i>Journal of Membrane Science</i> , 1993, 85, 221-228.	8.2	51
20	Utilization of renewable energy sources in desalination of geothermal water for agriculture. <i>Desalination</i> , 2021, 513, 115151.	8.2	46
21	A review of membrane crystallization, forward osmosis and membrane capacitive deionization for liquid mining. <i>Resources, Conservation and Recycling</i> , 2021, 168, 105273.	10.8	41
22	Removal of volatile organic compounds from aqueous solutions applying thermally driven membrane processes. 2. Air gap membrane distillation. <i>Journal of Membrane Science</i> , 2016, 499, 245-256.	8.2	40
23	Surface modification of electrospun nanofibrous membranes for oily wastewater separation. <i>RSC Advances</i> , 2017, 7, 56704-56712.	3.6	40
24	Plasma-modified polypropylene membranes as separators in high-power alkaline batteries. <i>Surface and Coatings Technology</i> , 2006, 201, 3676-3684.	4.8	37
25	Polymeric microspheres with N-methyl-d-glucamine ligands for boron removal from water solution by adsorption-membrane filtration process. <i>Environmental Geochemistry and Health</i> , 2010, 32, 349-352.	3.4	36
26	Modification of porous polyacrylonitrile membrane. <i>Angewandte Makromolekulare Chemie</i> , 1998, 260, 25-29.	0.2	35
27	Removal of boron from geothermal water by a novel boron selective resin. <i>Desalination</i> , 2013, 310, 102-108.	8.2	35
28	Amberlite IRA-400 and IRA-743 chelating resins for the sorption and recovery of molybdenum(VI) and vanadium(V): Equilibrium and kinetic studies. <i>Hydrometallurgy</i> , 2017, 169, 496-507.	4.3	33
29	Lithium dedicated adsorbent for the preparation of electrodes useful in the ion pumping method. <i>Separation and Purification Technology</i> , 2018, 194, 231-238.	7.9	33
30	Surface Evaluation of Plasma-Modified Polysulfone (Udel P-1700) Films. <i>Langmuir</i> , 1999, 15, 6400-6404.	3.5	32
31	Plasma deposited fluorinated films on porous membranes. <i>Materials Chemistry and Physics</i> , 2015, 151, 233-242.	4.0	31
32	Removal of volatile organic compounds from aqueous solutions applying thermally driven membrane processes. 1. Thermopervaporation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 94, 62-71.	3.6	30
33	Preparation of Fouling-Resistant Nanofibrous Composite Membranes for Separation of Oily Wastewater. <i>Polymers</i> , 2017, 9, 679.	4.5	30
34	Novel anion exchange membrane for concentration of lithium salt in hybrid capacitive deionization. <i>Desalination</i> , 2019, 452, 279-289.	8.2	30
35	Transport of amino acids and their phosphonic acid analogues through supported liquid membranes containing macrocyclic carriers. Experimental parameters. <i>Journal of Membrane Science</i> , 1991, 56, 167-180.	8.2	29
36	Adsorption-membrane filtration process in boron removal from first stage seawater RO permeate. <i>Desalination</i> , 2009, 241, 127-132.	8.2	28

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37	Plasma nanostructuring of porous polymer membranes. <i>Advances in Colloid and Interface Science</i> , 2010, 161, 2-9.	14.7	28
38	Performance of commercial composite hydrophobic membranes applied for pervaporative reclamation of acetone, butanol, and ethanol from aqueous solutions: Binary mixtures. <i>Separation and Purification Technology</i> , 2017, 188, 512-522.	7.9	28
39	Air plasma treatment of polyacrylonitrile porous membrane. <i>Angewandte Makromolekulare Chemie</i> , 1996, 234, 21-29.	0.2	27
40	A comparative study of removal of Cr(VI) by ion exchange resins bearing quaternary ammonium groups. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 851-857.	3.2	25
41	Plasma treatment of polyethylene ultrafiltration membranes. <i>Angewandte Makromolekulare Chemie</i> , 1994, 219, 117-124.	0.2	23
42	Poly(phenylene oxide) films modified with allylamine plasma as a support for invertase immobilization. <i>European Polymer Journal</i> , 2006, 42, 2430-2440.	5.4	23
43	Dewatering of 2,2,3,3-tetrafluoropropan-1-ol by hydrophilic pervaporation with poly(vinyl alcohol) based Pervapac membranes. <i>Separation and Purification Technology</i> , 2017, 174, 520-528.	7.9	22
44	Selective sorbents for recovery of lithium ions by hybrid capacitive deionization. <i>Desalination</i> , 2021, 520, 115324.	8.2	22
45	Boron removal by liquid-phase polymer-based retention technique using poly(glycidyl methacrylate) Tj ETQq1 1,0,784314,rgBT/O 2.6 21	2.6	21
46	Crown-ether mediated transport of amino acids through an immobilized liquid membrane. <i>Journal of Membrane Science</i> , 1988, 37, 287-291.	8.2	20
47	Sulfonated polysulfone membranes with antifouling activity. <i>Angewandte Makromolekulare Chemie</i> , 1995, 233, 23-31.	0.2	20
48	Donnan dialysis of borate anions through anion exchange membranes: A new method for regeneration of boron selective resins. <i>Reactive and Functional Polymers</i> , 2007, 67, 1635-1642.	4.1	19
49	Preparation of poly(styrene-co-divinylbenzene) microspheres by membrane emulsification. <i>Desalination</i> , 2009, 241, 331-336.	8.2	18
50	Anion-exchange membranes for separation of borates by Donnan dialysis. <i>Desalination</i> , 2013, 310, 39-42.	8.2	18
51	Modification of poly(vinyl chloride) films by aliphatic amines to prepare anion-exchange membranes for Cr (VI) removal. <i>Separation Science and Technology</i> , 2018, 53, 1191-1197.	2.5	18
52	pH-sensitive membranes for lithium separation. <i>Materials Chemistry and Physics</i> , 2014, 148, 548-553.	4.0	17
53	Hybrid capacitive deionization with anion-exchange membranes for lithium extraction. <i>E3S Web of Conferences</i> , 2017, 22, 00157.	0.5	17
54	Sorption of Phthalates on Molecularly Imprinted Polymers. <i>Separation Science and Technology</i> , 2012, 47, 1316-1321.	2.5	16

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55	Removal of boron from water through soluble polymer based on N-methyl-D-glucamine and regenerated-cellulose membrane. <i>Desalination and Water Treatment</i> , 2016, 57, 861-869.	1.0	16
56	Membrane assisted processing of acetone, butanol, and ethanol (ABE) aqueous streams. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 166, 108462.	3.6	16
57	N-butylamine plasma modifying ultrafiltration polysulfone membranes. <i>Desalination</i> , 2002, 146, 293-299.	8.2	15
58	Removal of Bisphenol A from Aqueous Solution by Molecularly Imprinted Polymers. <i>Separation Science and Technology</i> , 2014, 49, 1643-1653.	2.5	15
59	New Core-Shell Type Polymeric Supports Based on the Amberlite XAD Adsorbent: A Novel Synthesis Procedure. <i>Chinese Journal of Chemistry</i> , 2015, 33, 594-600.	4.9	15
60	Anion exchange membranes in lithium extraction by means of capacitive deionization system. , 0, 75, 331-341.		15
61	Transport of dipeptides and phosphono dipeptides through an immobilized liquid membrane. Stereoselectivity of the process. <i>Journal of Membrane Science</i> , 1993, 78, 83-91.	8.2	14
62	Performance of Reverse Electrodialysis System for Salinity Gradient Energy Generation by Using a Commercial Ion Exchange Membrane Pair with Homogeneous Bulk Structure. <i>Water (Switzerland)</i> , 2021, 13, 814.	2.7	14
63	The use of activated carbon modified with polypyrrole as a supporting electrode for lithium ions adsorption in capacitive deionization. , 0, 64, 251-254.		14
64	Molecularly imprinted polystyrene-divinylbenzene adsorbents for removal of bisphenol A. <i>Desalination and Water Treatment</i> , 2014, 52, 1885-1894.	1.0	13
65	Removal of Cr(VI) by a chelating resin containing N-methyl-d-glucamine. <i>Polymer Bulletin</i> , 2014, 71, 1813-1825.	3.3	13
66	Water-soluble polymer and photocatalysis for arsenic removal. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	13
67	Synthesis and properties of porous ion-exchange membranes, I. Polymer-polymer-filler system. <i>Angewandte Makromolekulare Chemie</i> , 1992, 200, 93-108.	0.2	12
68	Removal of As(V) using liquid-phase polymer-based retention (LPR) technique with regenerated cellulose membrane as a filter. <i>Polymer Bulletin</i> , 2013, 70, 2633-2644.	3.3	12
69	Charge-doped electrodes for power production using the salinity gradient in CapMix. <i>Desalination</i> , 2020, 495, 114670.	8.2	11
70	Adsorption of Bisphenol A from Water-Ethanol Mixtures on Pulverized Activated Carbon. <i>Separation Science and Technology</i> , 2014, 49, 763-772.	2.5	10
71	Interpolymer ion exchange membranes for CapMix process. <i>Desalination</i> , 2020, 482, 114384.	8.2	10
72	The evaluation of the effectiveness of lithium separation by hybrid capacitive deionization from geothermal water with the uncertainty measurement application. , 0, 128, 259-264.		10

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73	Ultrafiltration assisted by water-soluble poly(diallyl dimethyl ammonium chloride) for As(V) removal. Polymer Bulletin, 2016, 73, 241-254.	3.3	9
74	Removal of Cr(VI) from aqueous solution by a highly efficient chelating resin. Polymer Bulletin, 2017, 74, 2033-2044.	3.3	8
75	Polypropylene membranes with the double sensitivity effect. Journal of Applied Polymer Science, 2015, 132, .	2.6	7
76	Reclamation of RO permeate and concentrate of geothermal water by new chelating resins having N-methyl-D-glucamine ligands. Separation and Purification Technology, 2021, 254, 117558.	7.9	7
77	Electro-Driven Materials and Processes for Lithium Recovery—A Review. Membranes, 2022, 12, 343.	3.0	7
78	Title is missing!. Angewandte Makromolekulare Chemie, 1993, 207, 111-121.	0.2	6
79	Microwave plasma-initiated grafting of acrylic acid on Celgard 2500 membrane to prepare alkaline battery separators—Characteristics of process and product. Journal of Applied Polymer Science, 2010, 116, 868-875.	2.6	6
80	Molecularly Imprinted Membranes for Removal of Bisphenol A. Solvent Extraction and Ion Exchange, 2011, 29, 432-439.	2.0	6
81	Polypropylene membranes modified with interpenetrating polymer networks for the removal of chromium ions. Journal of Applied Polymer Science, 2015, 132, .	2.6	6
82	Preparation of various nanofibrous composite membranes using wire electrospinning for oil-water separation. IOP Conference Series: Materials Science and Engineering, 2017, 254, 102011.	0.6	6
83	Cr(III) REMOVAL FROM AQUEOUS SOLUTION BY ION EXCHANGE RESINS CONTAINING CARBOXYLIC ACID AND SULPHONIC ACID GROUPS. Journal of the Chilean Chemical Society, 2018, 63, 4012-4018.	1.2	6
84	Porous ion exchange membranes as potential antifoulants. Angewandte Makromolekulare Chemie, 1993, 208, 173-181.	0.2	5
85	Stimuli response polypropylene membranes as selective separators for alkaline ions. Desalination, 2012, 300, 64-69.	8.2	5
86	Boron Removal From Seawater Using Reverse Osmosis Integrated Processes. , 2015, , 219-235.		5
87	Modified Poly(vinylidene fluoride) by Diethylenetriamine as a Supported Anion Exchange Membrane for Lithium Salt Concentration by Hybrid Capacitive Deionization. Membranes, 2022, 12, 103.	3.0	5
88	Porous ion-exchange membranes, 2. Effect of adhesion promoters. Angewandte Makromolekulare Chemie, 1993, 205, 131-139.	0.2	4
89	Water-insoluble copolymer based on N-methyl-D-glucamine and quaternary ammonium groups with capability to remove arsenic. Environmental Progress and Sustainable Energy, 2014, 33, 1187-1193.	2.3	4
90	Surface-Activated Chelating Resins Containing N-Methyl-D-Glucamine Functional Groups for Desalination of Geothermal Water Aimed for Removal of Boron and Arsenic. Solvent Extraction and Ion Exchange, 2021, 39, 584-603.	2.0	4

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91	Membranes with a plasma deposited titanium isopropoxide layer. Chemical Papers, 2016, 70, .	2.2	3
92	Removal of boron and arsenic from geothermal water by ion-exchange. , 2018, , 135-155.		3
93	Concept for energy harvesting from the salinity gradient on the basis of geothermal water. WEENTECH Proceedings in Energy, 2018, 4, 88-96.	0.0	3
94	Molecularly Imprinting Microfiltration Membranes Able to Absorb Diethyl Phthalate from Water. Membranes, 2022, 12, 503.	3.0	3
95	Grand Challenges in Membrane Modules and Processes. , 2022, 1, .		3
96	Plasma Modification of Polymer Membranes. , 2012, , 179-214.		2
97	Bipolar nanofiltration membranes based on plasma modified microfilters. Journal of Applied Polymer Science, 2014, 131, .	2.6	1
98	Boron Removal From Water by Sorptionâ€“Membrane Filtration HybridÂ“Process. , 2015, , 237-248.		1
99	Current status of ion exchange membranes for electrodialysis/reverse electrodialysis and membrane capacitive deionization/capacitive mixing. , 2022, , 575-602.		0