

Seung-Hyeon Moon

List of Publications by Year in descending order

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145
papers

7,400
citations

41323

49
h-index

60583

81
g-index

146
all docs

146
docs citations

146
times ranked

5751
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation on removal of hardness ions by capacitive deionization (CDI) for water softening applications. <i>Water Research</i> , 2010, 44, 2267-2275.	5.3	370
2	Kinetics of adsorption of Co(II) removal from water and wastewater by ion exchange resins. <i>Water Research</i> , 2002, 36, 1783-1793.	5.3	299
3	Designing of an electrodialysis desalination plant. <i>Desalination</i> , 2002, 142, 267-286.	4.0	272
4	A review of current developments in non-aqueous redox flow batteries: characterization of their membranes for design perspective. <i>RSC Advances</i> , 2013, 3, 9095.	1.7	239
5	A review on recent developments of anion exchange membranes for fuel cells and redox flow batteries. <i>RSC Advances</i> , 2015, 5, 37206-37230.	1.7	209
6	Lactic acid recovery using two-stage electrodialysis and its modelling. <i>Journal of Membrane Science</i> , 1998, 145, 53-66.	4.1	175
7	Heterogeneity of Ion-Exchange Membranes: The Effects of Membrane Heterogeneity on Transport Properties. <i>Journal of Colloid and Interface Science</i> , 2001, 241, 120-126.	5.0	170
8	Effects of Natural Organic Matter and Ionic Species on Membrane Surface Charge. <i>Environmental Science & Technology</i> , 2002, 36, 3864-3871.	4.6	167
9	Effects of Electrolytes on the Transport Phenomena in a Cation-Exchange Membrane. <i>Journal of Colloid and Interface Science</i> , 2001, 238, 188-195.	5.0	162
10	An electrical impedance spectroscopic (EIS) study on transport characteristics of ion-exchange membrane systems. <i>Journal of Colloid and Interface Science</i> , 2006, 300, 655-662.	5.0	161
11	Determination of the limiting current density in electrodialysis desalination as an empirical function of linear velocity. <i>Desalination</i> , 2006, 190, 43-50.	4.0	138
12	Highly charged proton exchange membranes prepared by using water soluble polymer blends for fuel cells. <i>Journal of Membrane Science</i> , 2005, 247, 127-135.	4.1	135
13	Lactic acid recovery from fermentation broth using one-stage electrodialysis. <i>Journal of Chemical Technology and Biotechnology</i> , 2001, 76, 169-178.	1.6	132
14	Effects of pulsed electric fields on membrane fouling in electrodialysis of NaCl solution containing humate. <i>Separation and Purification Technology</i> , 2002, 27, 89-95.	3.9	128
15	Effects of metal ions on diffusion dialysis of inorganic acids. <i>Journal of Membrane Science</i> , 2000, 169, 95-105.	4.1	124
16	Fouling of an anion exchange membrane in the electrodialysis desalination process in the presence of organic foulants. <i>Desalination</i> , 2009, 238, 60-69.	4.0	124
17	An approach to fouling characterization of an ion-exchange membrane using current-voltage relation and electrical impedance spectroscopy. <i>Journal of Colloid and Interface Science</i> , 2006, 294, 129-138.	5.0	119
18	Preparation of ion exchanger layered electrodes for advanced membrane capacitive deionization (MCDI). <i>Water Research</i> , 2011, 45, 5375-5380.	5.3	119

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19	Removal of hardness ions from tap water using electromembrane processes. <i>Desalination</i> , 2007, 202, 1-8.	4.0	113
20	Water-swollen cation-exchange membranes prepared using poly(vinyl alcohol) (PVA)/poly(styrene) Tj ETQq0 0 0 rgBT ₁ /Overlock ₁₀ Tf 50	4.1	107
21	Removal of Heavy Metals from Soils using Enhanced Electrokinetic Soil Processing. <i>Water, Air, and Soil Pollution</i> , 2001, 125, 259-272.	1.1	103
22	Electrochemical properties of pore-filled anion exchange membranes and their ionic transport phenomena for vanadium redox flow battery applications. <i>Journal of Membrane Science</i> , 2013, 428, 17-23.	4.1	96
23	Characterization of anion exchange membranes fouled with humate during electrodialysis. <i>Journal of Membrane Science</i> , 2002, 203, 115-126.	4.1	90
24	A study on stack configuration of continuous electrodeionization for removal of heavy metal ions from the primary coolant of a nuclear power plant. <i>Water Research</i> , 2004, 38, 1911-1921.	5.3	87
25	Stability of composite anion exchange membranes with various functional groups and their performance for energy conversion. <i>Journal of Membrane Science</i> , 2013, 443, 28-35.	4.1	87
26	Covalent organic/inorganic hybrid proton-conductive membrane with semi-interpenetrating polymer network: Preparation and characterizations. <i>Journal of Power Sources</i> , 2008, 179, 458-466.	4.0	86
27	Preparation of porous composite ion-exchange membranes for desalination application. <i>Journal of Materials Chemistry</i> , 2011, 21, 7401.	6.7	83
28	Preparation of porous ion-exchange membranes (IEMs) and their characterizations. <i>Journal of Membrane Science</i> , 2011, 371, 37-44.	4.1	79
29	Recovery of ammonium sulfate from fermentation waste by electrodialysis. <i>Water Research</i> , 2003, 37, 1091-1099.	5.3	76
30	Direct Measurement of Concentration Distribution within the Boundary Layer of an Ion-Exchange Membrane. <i>Journal of Colloid and Interface Science</i> , 2002, 251, 311-317.	5.0	74
31	Sulfonated poly(2,6-dimethyl-1,4-phenylene oxide) (SPPO) electrolyte membranes reinforced by electrospun nanofiber porous substrates for fuel cells. <i>Journal of Membrane Science</i> , 2011, 367, 296-305.	4.1	74
32	Characterization of BSA-fouling of ion-exchange membrane systems using a subtraction technique for lumped data. <i>Journal of Membrane Science</i> , 2005, 246, 137-144.	4.1	73
33	Sulfonated polystyrene/polyvinyl chloride composite membranes for PEMFC applications. <i>Journal of Membrane Science</i> , 2008, 309, 156-164.	4.1	72
34	Effects of inorganic substances on water splitting in ion-exchange membranes. <i>Journal of Colloid and Interface Science</i> , 2004, 273, 523-532.	5.0	71
35	Electroenzymatic degradation of azo dye using an immobilized peroxidase enzyme. <i>Journal of Hazardous Materials</i> , 2005, 126, 183-188.	6.5	70
36	Fouling mitigation of anion exchange membrane by zeta potential control. <i>Journal of Colloid and Interface Science</i> , 2003, 259, 293-300.	5.0	69

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37	Amphoteric nanoporous polybenzimidazole membrane with extremely low crossover for a vanadium redox flow battery. <i>RSC Advances</i> , 2016, 6, 5198-5204.	1.7	68
38	Anion exchange membrane prepared from simultaneous polymerization and quaternization of 4-vinyl pyridine for non-aqueous vanadium redox flow battery applications. <i>Journal of Power Sources</i> , 2014, 255, 325-334.	4.0	66
39	Electrochemical characterization of poly(vinyl alcohol)/formyl methyl pyridinium (PVA-FP) anion-exchange membranes. <i>Journal of Membrane Science</i> , 2005, 250, 295-304.	4.1	65
40	The Influence of Inorganic Filler Particle Size on Composite Ion-Exchange Membranes for Desalination. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15124-15132.	1.5	65
41	Comparison of electrodialysis reversal (EDR) and electrodeionization reversal (EDIR) for water softening. <i>Desalination</i> , 2013, 314, 43-49.	4.0	61
42	Degradation of 2,4,6-trinitrotoluene by immobilized horseradish peroxidase and electrogenerated peroxide. <i>Water Research</i> , 2003, 37, 983-992.	5.3	60
43	Effect of current density on ionic transport and water dissociation phenomena in a continuous electrodeionization (CEDI). <i>Journal of Membrane Science</i> , 2007, 291, 165-171.	4.1	60
44	Characterization of uncharged and sulfonated porous poly(vinylidene fluoride) membranes and their performance in microbial fuel cells. <i>Journal of Membrane Science</i> , 2014, 463, 205-214.	4.1	55
45	Analysis of fouling potential in the electrodialysis process in the presence of an anionic surfactant foulant. <i>Journal of Membrane Science</i> , 2008, 325, 719-726.	4.1	54
46	Prediction of boron transport through seawater reverse osmosis membranes using solution- ϵ diffusion model. <i>Desalination</i> , 2009, 247, 33-44.	4.0	54
47	A lumped parameter model to predict hydrochloric acid recovery in diffusion dialysis. <i>Journal of Membrane Science</i> , 2001, 188, 61-70.	4.1	51
48	Investigation of the adsorption and transport of natural organic matter (NOM) in ion-exchange membranes. <i>Desalination</i> , 2003, 151, 11-20.	4.0	51
49	Pore-filled anion-exchange membranes for non-aqueous redox flow batteries with dual-metal-complex redox shuttles. <i>Journal of Membrane Science</i> , 2014, 454, 44-50.	4.1	49
50	Nitrogen-Deficient ORR Active Sites Formation by Iron-Assisted Water Vapor Activation of Electrospun Carbon Nanofibers. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7705-7714.	1.5	48
51	A feasibility study on water softening by electrodeionization with the periodic polarity change. <i>Desalination</i> , 2012, 284, 221-227.	4.0	45
52	Influence of the heterogeneous structure on the electrochemical properties of anion exchange membranes. <i>Journal of Membrane Science</i> , 2008, 320, 549-555.	4.1	43
53	Enhancement of electrodialysis performances using pulsing electric fields during extended period operation. <i>Journal of Colloid and Interface Science</i> , 2005, 287, 597-603.	5.0	42
54	Characterization of electroregeneration and determination of optimal current density in continuous electrodeionization. <i>Desalination</i> , 2007, 207, 276-285.	4.0	42

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55	Optimized coverage of gold nanoparticles at tyrosinase electrode for measurement of a pesticide in various water samples. <i>Journal of Hazardous Materials</i> , 2008, 156, 141-147.	6.5	42
56	Enzyme-catalyzed conversion of phenol by using immobilized horseradish peroxidase (HRP) in a membraneless electrochemical reactor. <i>Applied Catalysis A: General</i> , 2008, 337, 66-72.	2.2	41
57	Characterization of semi-interpenetrating polymer network polystyrene cation-exchange membranes. <i>Journal of Applied Polymer Science</i> , 2003, 88, 1488-1496.	1.3	40
58	Electrically aligned ion channels in cation exchange membranes and their polarized conductivity. <i>Journal of Membrane Science</i> , 2015, 478, 19-24.	4.1	40
59	Effects of the operating parameters on the reverse osmosis-electrodeionization performance in the production of high purity water. <i>Korean Journal of Chemical Engineering</i> , 2005, 22, 108-114.	1.2	39
60	Preparation of a highly sensitive enzyme electrode using gold nanoparticles for measurement of pesticides at the ppt level. <i>Journal of Environmental Monitoring</i> , 2008, 10, 632.	2.1	37
61	Interface resistances of anion exchange membranes in microbial fuel cells with low ionic strength. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3266-3271.	5.3	37
62	Facile surface modification of anion-exchange membranes for improvement of diffusion dialysis performance. <i>Journal of Colloid and Interface Science</i> , 2014, 416, 19-24.	5.0	36
63	Characterization of non-uniformly charged ion-exchange membranes prepared by plasma-induced graft polymerization. <i>Journal of Membrane Science</i> , 2006, 268, 165-174.	4.1	35
64	A flame retarding separator with improved thermal stability for safe lithium-ion batteries. <i>Electrochemistry Communications</i> , 2013, 35, 68-71.	2.3	35
65	A study on fouling mitigation using pulsing electric fields in electrodialysis of lactate containing BSA. <i>Korean Journal of Chemical Engineering</i> , 2002, 19, 880-887.	1.2	34
66	Process integration of electrodialysis for a cleaner environment. <i>Current Opinion in Chemical Engineering</i> , 2014, 4, 25-31.	3.8	34
67	Determination of an optimum frequency of square wave power for fouling mitigation in desalting electrodialysis in the presence of humate. <i>Separation and Purification Technology</i> , 2003, 30, 101-112.	3.9	33
68	Characterization of anion-exchange membranes containing pyridinium groups. <i>AIChE Journal</i> , 2003, 49, 3213-3220.	1.8	32
69	Effect of pressure on through-plane proton conductivity of polymer electrolyte membranes. <i>Journal of Membrane Science</i> , 2012, 417-418, 210-216.	4.1	30
70	Investigation of the performance determinants in the treatment of arsenic-contaminated water by continuous electrodeionization. <i>Separation and Purification Technology</i> , 2017, 179, 381-392.	3.9	30
71	Investigation of the effects of electric fields on the nanostructure of Nafion and its proton conductivity. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20836-20843.	5.2	30
72	Transport Characteristics of Co ²⁺ Through an Ion Exchange Textile in a Continuous Electrodeionization (CED) System Under Electro-Regeneration. <i>Separation Science and Technology</i> , 2005, 39, 3601-3619.	1.3	29

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73	Synthesis and characterization of bipolar membrane using pyridine functionalized anion exchange layer. <i>Journal of Membrane Science</i> , 2006, 283, 201-208.	4.1	29
74	Substrate-bound tyrosinase electrode using gold nanoparticles anchored to pyrroloquinoline quinone for a pesticide biosensor. <i>Sensors and Actuators B: Chemical</i> , 2008, 133, 1-4.	4.0	29
75	Proof-of-concept experiments of an acid-base junction flow battery by reverse bipolar electro dialysis for an energy conversion system. <i>Electrochemistry Communications</i> , 2016, 72, 157-161.	2.3	29
76	In situ polymerization: A novel route for thermally stable proton-conductive membranes. <i>Journal of Membrane Science</i> , 2008, 325, 209-216.	4.1	28
77	Removal of hardness in fermentation broth by electro dialysis. <i>Journal of Chemical Technology and Biotechnology</i> , 2002, 77, 1005-1012.	1.6	27
78	Unique Properties of Four Lactobacilli in Amino Acid Production and Symbiotic Mixed Culture for Lactic Acid Biosynthesis. <i>Current Microbiology</i> , 2001, 43, 383-390.	1.0	26
79	A Study on Removal of Cobalt from a Primary Coolant by Continuous Electrodeionization with Various Conducting Spacers. <i>Separation Science and Technology</i> , 2003, 38, 2347-2371.	1.3	26
80	New morphological control for thick, porous membranes with a plasma graft-filling polymerization. <i>Journal of Polymer Science Part A</i> , 2003, 41, 1216-1224.	2.5	25
81	Degradation of azo dye by an electroenzymatic method using horseradish peroxidase immobilized on porous support. <i>Korean Journal of Chemical Engineering</i> , 2007, 24, 72-78.	1.2	25
82	Preparation and characterization of quasi-solid-state electrolytes using a brominated poly(2,6-dimethyl-1,4-phenylene oxide) electrospun nanofiber mat for dye-sensitized solar cells. <i>Electrochemistry Communications</i> , 2011, 13, 1391-1394.	2.3	25
83	Influence of membrane structure on the operating current densities of non-aqueous redox flow batteries: Organic-inorganic composite membranes based on a semi-interpenetrating polymer network. <i>Journal of Power Sources</i> , 2015, 296, 245-254.	4.0	25
84	Effects of silica sol on ion exchange membranes: Electrochemical characterization of anion exchange membranes in electro dialysis of silica sol containing-solutions. <i>Korean Journal of Chemical Engineering</i> , 2003, 20, 889-895.	1.2	24
85	Degradation of pentachlorophenol by an electroenzymatic method using immobilized peroxidase enzyme. <i>Korean Journal of Chemical Engineering</i> , 2005, 22, 52-60.	1.2	24
86	In situ generation of hydrogen peroxide and its use for enzymatic degradation of 2,4,6-trinitrotoluene. <i>Journal of Chemical Technology and Biotechnology</i> , 2001, 76, 811-819.	1.6	23
87	Influences of colloidal stability and electrokinetic property on electro dialysis performance in the presence of silica sol. <i>Journal of Colloid and Interface Science</i> , 2004, 270, 406-412.	5.0	23
88	Integrating electrochemical processes with electro dialysis reversal and electro-oxidation to minimize COD and T-N at wastewater treatment facilities of power plants. <i>Desalination</i> , 2007, 202, 400-410.	4.0	23
89	Preparation and characterization of UV-grafted ion-exchange textiles in continuous electrodeionization. <i>Journal of Chemical Technology and Biotechnology</i> , 2004, 79, 1395-1404.	1.6	22
90	A preparation of a single-layered enzyme-membrane using asymmetric pBPPO base film for development of pesticide detecting biosensor. <i>Journal of Membrane Science</i> , 2009, 330, 341-348.	4.1	22

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91	Effects of interface hydrophilicity and metallic compounds on water-splitting efficiency in bipolar membranes. <i>Korean Journal of Chemical Engineering</i> , 2002, 19, 99-106.	1.2	21
92	Morphologically Aligned Cation-Exchange Membranes by a Pulsed Electric Field for Reverse Electrodialysis. <i>Environmental Science & Technology</i> , 2015, 49, 8872-8877.	4.6	21
93	Fabrication of a composite anion exchange membrane with aligned ion channels for a high-performance non-aqueous vanadium redox flow battery. <i>RSC Advances</i> , 2020, 10, 5010-5025.	1.7	21
94	Structural effects of ion-exchange membrane on the separation of L-phenylalanine (L-Phe) from fermentation broth using electrodialysis. <i>Journal of Chemical Technology and Biotechnology</i> , 2002, 77, 785-792.	1.6	20
95	A study on hexachromic ion selective electrode based on supported liquid membranes. , 2001, 70, 167-180.		19
96	Development of carbon dioxide separation process using continuous hollow-fiber membrane contactor and water-splitting electrodialysis. <i>Separation Science and Technology</i> , 2002, 37, 1789-1806.	1.3	19
97	An electrodialysis model for determination of the optimal current density. <i>Desalination</i> , 2003, 153, 399-404.	4.0	19
98	Comparisons of fish meat extract desalination by electrodialysis using different configurations of membrane stack. <i>Journal of Food Engineering</i> , 2010, 101, 417-423.	2.7	19
99	Detoxification of simulated textile wastewater using a membraneless electrochemical reactor with immobilized peroxidase. <i>Journal of Hazardous Materials</i> , 2009, 162, 1014-1018.	6.5	18
100	Analyses of interfacial resistances in a membrane-electrode assembly for a proton exchange membrane fuel cell using symmetrical impedance spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 15291.	1.3	18
101	SPPO pore-filled composite membranes with electrically aligned ion channels via a lab-scale continuous caster for fuel cells: An optimal DC electric field strength-IEC relationship. <i>Journal of Membrane Science</i> , 2016, 501, 15-23.	4.1	18
102	A new preparation method for cation-exchange membrane using monomer sorption into reinforcing materials. <i>Desalination</i> , 2002, 146, 287-291.	4.0	17
103	Ion-Exchange Membranes. <i>International Journal of Chemical Engineering</i> , 2012, 2012, 1-3.	1.4	17
104	Proton exchange composite membranes from blends of brominated and sulfonated poly(2,6-dimethyl-1,4-phenylene oxide). <i>Journal of Applied Polymer Science</i> , 2012, 124, 3511-3519.	1.3	16
105	Surface modification and use of polymer complex agents to mitigate metal crossover of anion-exchange membranes. <i>Journal of Colloid and Interface Science</i> , 2014, 430, 24-30.	5.0	16
106	Preparation of high-conductivity QPPO (quaternary-aminated poly (2,6-dimethyl-1,4-phenyleneoxide)) membranes by electrical treatment. <i>Journal of Membrane Science</i> , 2018, 553, 82-89.	4.1	16
107	Degradation of Pentachlorophenol by Ozone Generated by a Pulsed Power Corona Discharge. <i>Water, Air, and Soil Pollution</i> , 2003, 145, 187-203.	1.1	15
108	Preparation and characterization of immobilized ion exchange polyurethanes (IEPU) and their applications for continuous electrodeionization (CED). <i>Korean Journal of Chemical Engineering</i> , 2004, 21, 867-873.	1.2	15

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109	Arsenic removal from groundwater using low-cost carbon composite electrodes for capacitive deionization. <i>Water Science and Technology</i> , 2016, 73, 3064-3071.	1.2	15
110	High-temperature operation of PEMFC using pore-filling PTFE/Nafion composite membrane treated with electric field. <i>International Journal of Energy Research</i> , 2021, 45, 19136-19146.	2.2	15
111	Preparation and characterization of cation-exchange media based on flexible polyurethane foams. <i>Journal of Applied Polymer Science</i> , 2002, 86, 1773-1781.	1.3	14
112	Purification of a primary coolant in a nuclear power plant using a magnetic filter - electrodeionization hybrid separation system. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2004, 262, 725-732.	0.7	14
113	Characterization of acrylic acid-grafted PP membranes prepared by plasma-induced graft polymerization. <i>Journal of Applied Polymer Science</i> , 2007, 105, 2314-2320.	1.3	14
114	Removal of nickel from water and synthetic nuclear power plant coolant water by ion exchange resins. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2002, 253, 241-245.	0.7	13
115	Enhanced stability and proton conductivity of sulfonated polystyrene/PVC composite membranes through proper copolymerization of styrene with α -methylstyrene and acrylonitrile. <i>Journal of Membrane Science</i> , 2010, 363, 80-86.	4.1	13
116	Flame retardant coated polyolefin separators for the safety of lithium ion batteries. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 285-289.	1.2	13
117	A Kinetic Study on Oxidation of Pentachlorophenol by Ozone. <i>Journal of the Air and Waste Management Association</i> , 2000, 50, 555-562.	0.9	12
118	By-product formation in cell-recycled continuous culture of <i>Lactobacillus casei</i> . <i>Biotechnology Letters</i> , 1997, 19, 237-240.	1.1	10
119	Integrated electroenzymatic and electrochemical treatment of petrochemical wastewater using a pilot scale membraneless system. <i>Process Biochemistry</i> , 2008, 43, 1371-1376.	1.8	10
120	Asymmetric polymer electrolyte membranes for water management of fuel cells. <i>Electrochemistry Communications</i> , 2010, 12, 148-151.	2.3	9
121	Reflection of the structural distinctions of source-different humic substances on organic fouling behaviors of SWRO membranes. <i>Desalination</i> , 2013, 318, 72-78.	4.0	9
122	Electroenzymatic mineralization of 2-chlorobiphenyl in synthetic wastewater. <i>Desalination</i> , 2007, 211, 212-221.	4.0	8
123	Use of biologically designed gold nanowire for biosensor application. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 1666-1669.	1.2	8
124	Boron removal from seawater by combined system of seawater reverse osmosis membranes and ion exchange process: a pilot-scale study. <i>Desalination and Water Treatment</i> , 2010, 15, 178-182.	1.0	7
125	Characterization of Commercial Membranes for Non-aqueous Vanadium Redox Flow Battery. <i>Korean Chemical Engineering Research</i> , 2013, 51, 615-621.	0.2	7
126	Desalination of fish meat extract by electrodialysis and characterization of membrane fouling. <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 575-582.	1.2	6

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127	Influence of the ratio of resin to polymeric binder on the heterogeneity of cation-exchange membranes. <i>Desalination and Water Treatment</i> , 0, , 1-11.	1.0	6
128	High performance acidâ€“base junction flow batteries using an asymmetric bipolar membrane with an ion-channel aligned anion exchange layer. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7955-7966.	5.2	6
129	Fouling mitigation in the repeated batch runs of electrodialysis with humate foulant. <i>Korean Journal of Chemical Engineering</i> , 2004, 21, 629-634.	1.2	5
130	Purification of a primary coolant in a nuclear power plant using a magnetic filter ? electrodeionization hybrid separation system. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2005, 262, 725-732.	0.7	5
131	Estimation of approximate activation energy loss and mass transfer coefficient from a polarization curve of a polymer electrolyte fuel cell. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 1158-1162.	1.2	5
132	Behaviors of commercialized seawater reverse osmosis membranes under harsh organic fouling conditions. <i>Desalination and Water Treatment</i> , 2010, 15, 48-53.	1.0	4
133	Improved dimensional stability of Nafion membrane modified using a layer by layer self-assembly of biophilic polymers. <i>Current Applied Physics</i> , 2012, 12, 1235-1238.	1.1	4
134	In-situ analyses of triiodide formation in an iodine-free electrolyte for dye-sensitized solar cells using electro-diffuse-reflection spectroscopy (EDRS). <i>Journal of Power Sources</i> , 2015, 275, 675-680.	4.0	4
135	Rigorous model for spherical cell-support aggregate. <i>Biotechnology and Bioprocess Engineering</i> , 2001, 6, 42-50.	1.4	3
136	End-group cross-linked large-size composite membranes via a lab-made continuous caster: enhanced oxidative stability and scale-up feasibility in a 50 cm ² single-cell and a 220 W class 5-cell PEFC stack. <i>RSC Advances</i> , 2013, 3, 24154.	1.7	3
137	Influence of divalent cations adsorption on the performance of electromembrane process. <i>Desalination and Water Treatment</i> , 2015, 53, 2760-2766.	1.0	3
138	Use of cascade reduction potential for selective precipitation of Au, Cu, and Pb in hydrochloric acid solution. <i>Korean Journal of Chemical Engineering</i> , 2002, 19, 797-802.	1.2	2
139	Electrochemical characterization of phosphonic acid cation exchange membrane prepared by plasma-induced graft polymerization. <i>Korean Journal of Chemical Engineering</i> , 2008, 25, 1151-1153.	1.2	2
140	A model study on effects of vanadium ion diffusion through ion exchange membranes in a non-aqueous redox flow battery. <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, 034701.	0.8	2
141	Copper Removal from Kaolinite Using Enhanced Electrokinetic Soil Processing. <i>Geosystem Engineering</i> , 1998, 1, 35-45.	0.7	1
142	Determination of Cr(VI) Using a Pulse Amperometric Method with an Ionophore-Immobilized Membrane Electrode. <i>Electroanalysis</i> , 2004, 16, 932-937.	1.5	1
143	Analyses of structurally modified quasiâ€“solidâ€“state electrolytes using electrochemical impedance spectroscopy for dyeâ€“sensitized solar cells. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	1
144	Cold shock response in <i>Lactococcus lactis</i> ssp. <i>diacetylactis</i> . <i>Biotechnology and Bioprocess Engineering</i> , 1999, 4, 93-97.	1.4	0

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145	Substrate-bound Tyrosinase Electrode for a Pesticide Biosensor. Proceedings of the Water Environment Federation, 2009, 2009, 2996-3000.	0.0	0