

Young-Nam Kwon

List of Publications by Year in descending order

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79
papers

5,253
citations

117571

34
h-index

82499

72
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79
all docs

79
docs citations

79
times ranked

4746
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of membrane chemistry and coating layer on physiochemical properties of thin film composite polyamide RO and NF membranes. <i>Desalination</i> , 2009, 242, 149-167.	4.0	818
2	Probing the nano- and micro-scales of reverse osmosis membranes—A comprehensive characterization of physiochemical properties of uncoated and coated membranes by XPS, TEM, ATR-FTIR, and streaming potential measurements. <i>Journal of Membrane Science</i> , 2007, 287, 146-156.	4.1	582
3	Effect of membrane chemistry and coating layer on physiochemical properties of thin film composite polyamide RO and NF membranes. <i>Desalination</i> , 2009, 242, 168-182.	4.0	424
4	Fouling of reverse osmosis and nanofiltration membranes by humic acid—Effects of solution composition and hydrodynamic conditions. <i>Journal of Membrane Science</i> , 2007, 290, 86-94.	4.1	328
5	Hypochlorite degradation of crosslinked polyamide membranesII. Changes in hydrogen bonding behavior and performance. <i>Journal of Membrane Science</i> , 2006, 282, 456-464.	4.1	308
6	Characterization of Humic Acid Fouled Reverse Osmosis and Nanofiltration Membranes by Transmission Electron Microscopy and Streaming Potential Measurements. <i>Environmental Science & Technology</i> , 2007, 41, 942-949.	4.6	173
7	Fate of engineered nanoparticles: Implications in the environment. <i>Coordination Chemistry Reviews</i> , 2015, 287, 64-78.	9.5	171
8	Hypochlorite degradation of crosslinked polyamide membranes. <i>Journal of Membrane Science</i> , 2006, 283, 21-26.	4.1	165
9	The role of foulant—foulant electrostatic interaction on limiting flux for RO and NF membranes during humic acid fouling—Theoretical basis, experimental evidence, and AFM interaction force measurement. <i>Journal of Membrane Science</i> , 2009, 326, 526-532.	4.1	138
10	Preparation of cellulose triacetate/cellulose acetate (CTA/CA)-based membranes for forward osmosis. <i>Journal of Membrane Science</i> , 2013, 433, 49-59.	4.1	128
11	Protection of polymeric membranes with antifouling surfacing via surface modifications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 506, 190-201.	2.3	119
12	Surface modification of a polyamide reverse osmosis membrane for chlorine resistance improvement. <i>Journal of Membrane Science</i> , 2012, 415-416, 192-198.	4.1	105
13	Synthesis of graphene—carbon sphere hybrid aerogel with silver nanoparticles and its catalytic and adsorption applications. <i>Chemical Engineering Journal</i> , 2014, 244, 160-167.	6.6	100
14	Interfacially synthesized chlorine-resistant polyimide thin film composite (TFC) reverse osmosis (RO) membranes. <i>Desalination</i> , 2013, 309, 18-26.	4.0	86
15	Effect of chlorination condition and permeability of chlorine species on the chlorination of a polyamide membrane. <i>Water Research</i> , 2012, 46, 5389-5400.	5.3	76
16	Effect of acidic aqueous solution on chemical and physical properties of polyamide NF membranes. <i>Applied Surface Science</i> , 2018, 444, 387-398.	3.1	71
17	Microplastics waste in environment: A perspective on recycling issues from PPE kits and face masks during the COVID-19 pandemic. <i>Environmental Technology and Innovation</i> , 2022, 26, 102290.	3.0	71
18	Use of atomic force microscopy and fractal geometry to characterize the roughness of nano-, micro-, and ultrafiltration membranes. <i>Journal of Membrane Science</i> , 2009, 340, 117-132.	4.1	69

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19	Acid-catalyzed hydrolysis of semi-aromatic polyamide NF membrane and its application to water softening and antibiotics enrichment. <i>Chemical Engineering Journal</i> , 2018, 332, 419-430.	6.6	61
20	Change of membrane performance due to chlorination of crosslinked polyamide membranes. <i>Journal of Applied Polymer Science</i> , 2006, 102, 5895-5902.	1.3	59
21	Synthesis and characterization of metal-doped reduced graphene oxide composites, and their application in removal of <i>Escherichia coli</i> , arsenic and 4-nitrophenol. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 29, 282-288.	2.9	57
22	Change of chemical composition and hydrogen bonding behavior due to chlorination of crosslinked polyamide membranes. <i>Journal of Applied Polymer Science</i> , 2008, 108, 2061-2066.	1.3	56
23	Raspberry derived mesoporous carbon-tubules and fixed-bed adsorption of pharmaceutical drugs. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 1126-1132.	2.9	56
24	Adsorption of perfluorinated compounds on thin-film composite polyamide membranes. <i>Journal of Applied Polymer Science</i> , 2012, 124, 1042-1049.	1.3	53
25	Adsorption of As(V) by boehmite and alumina of different morphologies prepared under hydrothermal conditions. <i>Chemosphere</i> , 2017, 169, 99-106.	4.2	53
26	Surface modification of SWRO membranes using hydroxyl poly(oxyethylene) methacrylate and zwitterionic carboxylated polyethyleneimine. <i>Journal of Membrane Science</i> , 2015, 486, 97-105.	4.1	51
27	Surface modification of seawater reverse osmosis (SWRO) membrane using methyl methacrylate-hydroxy poly(oxyethylene) methacrylate (MMA-HPOEM) comb-polymer and its performance. <i>Desalination</i> , 2012, 291, 1-7.	4.0	47
28	Realization of continuous Zachariasen carbon monolayer. <i>Science Advances</i> , 2017, 3, e1601821.	4.7	46
29	Comparison of integrally asymmetric and thin film composite structures for a desirable fashion of forward osmosis membranes. <i>Journal of Membrane Science</i> , 2015, 495, 457-470.	4.1	44
30	Tailoring interlayer structure of molecular layer-by-layer assembled polyamide membranes for high separation performance. <i>Applied Surface Science</i> , 2015, 356, 659-667.	3.1	38
31	Protocol for development of various plants leaves extract in single-pot synthesis of metal nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 103, 134-142.	2.0	37
32	The application of polyethyleneimine draw solution in a combined forward osmosis/nanofiltration system. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	36
33	Preparation and applications of poly vinyl alcohol (PVA) modified cellulose acetate (CA) membranes for forward osmosis (FO) processes. <i>Desalination and Water Treatment</i> , 2015, 53, 1-7.	1.0	36
34	Chemical and surface engineered superhydrophobic patterned membrane with enhanced wetting and fouling resistance for improved membrane distillation performance. <i>Journal of Membrane Science</i> , 2021, 629, 119280.	4.1	35
35	Effect of bromide on the chlorination of a polyamide membrane. <i>Desalination</i> , 2011, 280, 80-86.	4.0	34
36	The chlorination mechanism of integrally asymmetric cellulose triacetate (CTA)-based and thin film composite polyamide-based forward osmosis membrane. <i>Journal of Membrane Science</i> , 2017, 523, 111-121.	4.1	34

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37	Degradation of full aromatic polyamide NF membrane by sulfuric acid and hydrogen halides: Change of the surface/permeability properties. <i>Polymer Degradation and Stability</i> , 2019, 162, 1-11.	2.7	33
38	Effect of feed spacer thickness on the fouling behavior in reverse osmosis process – A pilot scale study. <i>Desalination</i> , 2016, 379, 155-163.	4.0	30
39	Surface innovation to enhance anti-droplet and hydrophobic behavior of breathable compressed-polyurethane masks. <i>Environmental Technology and Innovation</i> , 2020, 20, 101093.	3.0	30
40	Distinct adsorption enhancement of bi-component metals (cobalt and nickel) by Fireweed-derived carbon compared to activated carbon: Incorporation of surface group distributions for increased efficiency. <i>Chemical Engineering Journal</i> , 2015, 281, 713-723.	6.6	29
41	Review on Blueprint of Designing Anti-Wetting Polymeric Membrane Surfaces for Enhanced Membrane Distillation Performance. <i>Polymers</i> , 2020, 12, 23.	2.0	29
42	Assessing the effects of bacterial predation on membrane biofouling. <i>Water Research</i> , 2013, 47, 6024-6032.	5.3	26
43	Investigation of Hydrate-induced Ice Desalination (HIID) and its application to a pretreatment of reverse osmosis (RO) process. <i>Desalination</i> , 2016, 395, 8-16.	4.0	26
44	Cellulose acetate graft-(glycidylmethacrylate-g-PEG) for modification of AMC ultrafiltration membranes to mitigate organic fouling. <i>RSC Advances</i> , 2015, 5, 48290-48300.	1.7	25
45	Long-Term Stability of Low-Pressure Reverse Osmosis (RO) Membrane Operation – A Pilot Scale Study. <i>Water (Switzerland)</i> , 2018, 10, 93.	1.2	21
46	Single-step green synthesis of imine-functionalized carbon spheres and their application in uranium removal from aqueous solution. <i>RSC Advances</i> , 2014, 4, 46114-46121.	1.7	20
47	Surface modification of TFC FO membrane using N-isopropylacrylamide (NIPAM) to enhance fouling resistance and cleaning efficiency. , 0, 65, 11-21.		17
48	Poly(isophthalamide) based graft copolymer for the modification of cellulose acetate ultrafiltration membranes and a fouling study by AFM imaging. <i>Journal of Membrane Science</i> , 2014, 465, 117-128.	4.1	16
49	Concentration polarization effect and preferable membrane configuration at pressure-retarded osmosis operation. <i>Desalination</i> , 2016, 389, 58-67.	4.0	16
50	Surface modification of polyvinylidene fluoride membrane for enhanced wetting resistance. <i>Applied Surface Science</i> , 2019, 491, 32-42.	3.1	16
51	Application of a FO/MD-combined system for the desalination of saline solution. <i>Desalination and Water Treatment</i> , 2016, 57, 14347-14354.	1.0	14
52	Preparation and characterization of antifouling poly(vinylidene fluoride) blended membranes. <i>Journal of Applied Polymer Science</i> , 2012, 123, 286-291.	1.3	13
53	Investigation on the factors determining permeate pH in reverse osmosis membrane processes. <i>Desalination</i> , 2018, 430, 147-158.	4.0	13
54	Exploration of time series model for predictive evaluation of long-term performance of membrane distillation desalination. <i>Chemical Engineering Research and Design</i> , 2022, 160, 1-12.	2.7	12

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55	Distinctive green recovery of silver species from modified cellulose: Mechanism and spectroscopic studies. <i>International Journal of Biological Macromolecules</i> , 2015, 76, 109-118.	3.6	10
56	Fouling control through the hydrophilic surface modification of poly(vinylidene fluoride) membranes. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	10
57	Facile approach for designing a novel micropatterned antiwetting membrane by utilizing 3D printed molds for improved desalination performance. <i>Journal of Membrane Science</i> , 2021, 637, 119641.	4.1	10
58	Development of fouling-resistant RO membranes using PEGA macromer. <i>Desalination and Water Treatment</i> , 2010, 15, 54-61.	1.0	9
59	Suppression of gold nanoparticle agglomeration and its separation via nylon membranes. <i>Chinese Journal of Chemical Engineering</i> , 2017, 25, 931-937.	1.7	8
60	Preparation of newly synthesized forward osmosis membrane. <i>Desalination and Water Treatment</i> , 2013, 51, 5191-5195.	1.0	7
61	Pretreatment with alum or powdered activated carbon reduces bacterial predation-associated irreversible fouling of membranes. <i>Biofouling</i> , 2014, 30, 1225-1233.	0.8	6
62	Fluorine-free anti-droplet surface modification by hexadecyltrimethoxysilane-modified silica nanoparticles-coated carbon nanofibers for self-cleaning applications. <i>Progress in Organic Coatings</i> , 2021, 153, 106165.	1.9	6
63	Acid-Resistance Enhancement of Thin-Film Composite Membrane Using Barrier Effect of Graphene Oxide Nanosheets. <i>Materials</i> , 2021, 14, 3151.	1.3	6
64	Preparation of dual-layer acetylated methyl cellulose hollow fiber membranes via co-extrusion using thermally induced phase separation and non-solvent induced phase separation methods. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	4
65	Application of AMC UF membranes blended with hydrophilic CA-graft copolymer for rejection of Fe(II)/(III) ions using various ligands. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 51, 54-63.	2.9	4
66	Acid stability of polyamide membranes. <i>Polymer</i> , 2022, 241, 124516.	1.8	4
67	Preparation of ultrafiltration membrane by newly synthesized AMC polymer. <i>Desalination and Water Treatment</i> , 2013, 51, 5196-5203.	1.0	3
68	Preparation of EVOH and aramid-modified polar nylon membrane for the removal of hard and soft colloidal particles. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 65, 72-81.	2.9	3
69	Three-layered hollow fiber (HF) membrane and its modification to enhance wetting resistance for membrane distillation (MD). <i>Environmental Technology and Innovation</i> , 2021, 21, 101227.	3.0	3
70	Enhancing the anti-fouling property of the SWRO membrane through the surface coating with the Styrene-PEGA copolymer. <i>Desalination and Water Treatment</i> , 2010, 15, 183-189.	1.0	2
71	Investigation of a Gas Hydrate Dissociation-Energy-Based Quick-Freezing Treatment for Sludge Cell Lysis and Dewatering. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 3611.	1.2	2
72	Structured pattern hollow fiber membrane designed via reverse thermally induced phase separation method for ultrafiltration applications. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	2

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73	Preparation and Characterization of Titania-Deposited Silica Composite Hollow Fiber Membranes with High Hydrothermal Stability. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 7658-7663.	0.9	1
74	Preparation of a Methylcellulose-graft-Methyl Methacrylate Copolymer as an Ultrafiltration Membrane Material. <i>Macromolecular Symposia</i> , 2015, 351, 8-18.	0.4	1
75	Science Walden: Exploring the Convergence of Environmental Technologies with Design and Art. <i>Sustainability</i> , 2017, 9, 35.	1.6	1
76	Surface modification of TFC FO membrane using N-isopropylacrylamide (NIPAM) to enhance fouling resistance and cleaning efficiency. , 0, , 11-21.		0
77	Effects of interfacial polymerization conditions on performance of polyamide reverse osmosis membranes and optimization of polymerization conditions by statistical methodology. , 0, 74, 1-11.		0
78	Improved water quality and phenol degradation via a combination of electron-beam irradiation (EBI) and activated carbon fiber (ACF). , 0, 64, 118-126.		0
79	Enhanced boron rejection of a thin-film composite membrane by embedding additives including hydroxyl groups. , 0, 162, 112-116.		0