

William B Krantz

List of Publications by Year in descending order

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161
papers

6,554
citations

38660

50
h-index

79541

73
g-index

164
all docs

164
docs citations

164
times ranked

5395
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation and characterization of polyamide membranes via interfacial polymerization. <i>Journal of Membrane Science</i> , 1994, 93, 175-192.	4.1	208
2	Emergency water supply: A review of potential technologies and selection criteria. <i>Water Research</i> , 2012, 46, 3125-3151.	5.3	204
3	A novel hybrid process of reverse electrodialysis and reverse osmosis for low energy seawater desalination and brine management. <i>Applied Energy</i> , 2013, 104, 592-602.	5.1	154
4	Real-time measurement of inorganic fouling of RO desalination membranes using ultrasonic time-domain reflectometry. <i>Journal of Membrane Science</i> , 1999, 159, 185-196.	4.1	151
5	Optimization of operating conditions for a continuous membrane distillation crystallization process with zero salty water discharge. <i>Journal of Membrane Science</i> , 2014, 450, 1-11.	4.1	146
6	Oxidative degradation of polyamide reverse osmosis membranes: Studies of molecular model compounds and selected membranes. <i>Journal of Applied Polymer Science</i> , 2003, 90, 1173-1184.	1.3	130
7	Towards temperature driven forward osmosis desalination using Semi-IPN hydrogels as reversible draw agents. <i>Water Research</i> , 2013, 47, 3773-3781.	5.3	125
8	Investigation of membrane fouling and cleaning using ultrasonic time-domain reflectometry. <i>Desalination</i> , 2000, 130, 45-60.	4.0	124
9	Effect of evaporation step on macrovoid formation in wet-cast polymeric membranes. <i>Journal of Membrane Science</i> , 1994, 91, 265-282.	4.1	118
10	Superabsorbent Cryogels Decorated with Silver Nanoparticles as a Novel Water Technology for Point-of-Use Disinfection. <i>Environmental Science & Technology</i> , 2013, 47, 9363-9371.	4.6	113
11	Investigation of corrugation phenomenon in the inner contour of hollow fibers during the non-solvent induced phase-separation process. <i>Journal of Membrane Science</i> , 2007, 299, 200-210.	4.1	112
12	Frost-boil ecosystems: complex interactions between landforms, soils, vegetation and climate. <i>Permafrost and Periglacial Processes</i> , 2004, 15, 171-188.	1.5	110
13	Enhancing the properties and gas separation performance of PBI/polyimides blend carbon molecular sieve membranes via optimization of the pyrolysis process. <i>Separation and Purification Technology</i> , 2014, 122, 278-289.	3.9	105
14	Vapor-induced phase separation—effect of the humid air exposure step on membrane morphology Part I. Insights from mathematical modeling. <i>Journal of Membrane Science</i> , 2005, 258, 140-156.	4.1	103
15	Dense polymer film and membrane formation via the dry-cast process part I. Model development. <i>Journal of Membrane Science</i> , 1994, 94, 255-280.	4.1	102
16	Stability of Thin Liquid Films Flowing Down a Plane. <i>Industrial & Engineering Chemistry Fundamentals</i> , 1971, 10, 91-101.	0.7	98
17	A review of fouling indices and monitoring techniques for reverse osmosis. <i>Desalination</i> , 2018, 434, 169-188.	4.0	98
18	Arctic patterned ground ecosystems: A synthesis of field studies and models along a North American Arctic Transect. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	96

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19	Hydrogel Matrix Entrapping PLGA-Paclitaxel Microspheres: Drug Delivery with Near Zero-Order Release and Implantability Advantages for Malignant Brain Tumour Chemotherapy. <i>Pharmaceutical Research</i> , 2009, 26, 2101-2114.	1.7	95
20	Dense polymer film and membrane formation via the dry-cast process part II. Model validation and morphological studies. <i>Journal of Membrane Science</i> , 1994, 94, 281-298.	4.1	92
21	Unsteady-state shear strategies to enhance mass-transfer for the implementation of ultrapermeable membranes in reverse osmosis: A review. <i>Desalination</i> , 2015, 356, 328-348.	4.0	90
22	Effects of the support on the characteristics and permselectivity of thin film composite membranes. <i>Journal of Membrane Science</i> , 2019, 580, 12-23.	4.1	88
23	Energy-efficient desalination by forward osmosis using responsive ionic liquid draw solutes. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 341-347.	1.2	84
24	A morphological and structural study of Ultem/P84 copolyimide dual-layer hollow fiber membranes with delamination-free morphology. <i>Journal of Membrane Science</i> , 2007, 294, 132-146.	4.1	83
25	Linear stability theory model for finger formation in asymmetric membranes. <i>Journal of Membrane Science</i> , 1985, 23, 155-182.	4.1	82
26	CO ₂ switchable dual responsive polymers as draw solutes for forward osmosis desalination. <i>Chemical Communications</i> , 2013, 49, 8377.	2.2	82
27	Studies of oxidative degradation in polyamide RO membrane barrier layers using pendant drop mechanical analysis. <i>Journal of Membrane Science</i> , 2004, 243, 345-355.	4.1	81
28	A Model for Sorted Patterned-Ground Regularity. <i>Journal of Glaciology</i> , 1983, 29, 317-337.	1.1	77
29	Bactericidal Mechanisms Revealed for Rapid Water Disinfection by Superabsorbent Cryogels Decorated with Silver Nanoparticles. <i>Environmental Science & Technology</i> , 2015, 49, 2310-2318.	4.6	77
30	Poly(ethylene chlorotrifluoroethylene) membrane formation via thermally induced phase separation (TIPS). <i>Journal of Membrane Science</i> , 2010, 362, 211-220.	4.1	76
31	Geometrical Aspects of Sorted Patterned Ground in Recurrently Frozen Soil. <i>Science</i> , 1986, 232, 216-220.	6.0	73
32	Membrane formation via thermally induced phase separation (TIPS): Model development and validation. <i>Journal of Membrane Science</i> , 2006, 279, 50-60.	4.1	71
33	Differential frost heave model for patterned ground formation: Corroboration with observations along a North American arctic transect. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	71
34	The influence of filler concentration on the compaction and filtration properties of Zirfon [®] -composite ultrafiltration membranes. <i>Separation and Purification Technology</i> , 2001, 22-23, 663-669.	3.9	70
35	Energy-efficient reverse osmosis desalination process. <i>Journal of Membrane Science</i> , 2015, 473, 177-188.	4.1	69
36	A Generalized Secondary Frost Heave Model. <i>SIAM Journal on Applied Mathematics</i> , 1994, 54, 1650-1675.	0.8	67

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37	Use of ultrasonic TDR for real-time noninvasive measurement of compressive strain during membrane compaction. <i>Desalination</i> , 1998, 116, 115-122.	4.0	66
38	Impact of a biofouling layer on the vapor pressure driving force and performance of a membrane distillation process. <i>Journal of Membrane Science</i> , 2013, 438, 140-152.	4.1	65
39	Monitoring membrane biofouling via ultrasonic time-domain reflectometry enhanced by silica dosing. <i>Journal of Membrane Science</i> , 2013, 428, 24-37.	4.1	65
40	Ultrasound, gravimetric, and SEM studies of inorganic fouling in spiral-wound membrane modules. <i>Desalination</i> , 2007, 208, 277-293.	4.0	60
41	Theoretical study of the transport processes occurring during the evaporation step in asymmetric membrane casting. <i>Journal of Membrane Science</i> , 1986, 29, 11-36.	4.1	56
42	A novel primer to prevent nanoparticle agglomeration in mixed matrix membranes. <i>AIChE Journal</i> , 2007, 53, 2470-2475.	1.8	56
43	Finite-Amplitude, Long Waves on Liquid Films Flowing Down a Plane. <i>Industrial & Engineering Chemistry Fundamentals</i> , 1970, 9, 107-113.	0.7	55
44	A mechanism for differential frost heave and its implications for patterned-ground formation. <i>Journal of Glaciology</i> , 2003, 49, 69-80.	1.1	54
45	Fabrication of poly (ECTFE) membranes via thermally induced phase separation. <i>Journal of Membrane Science</i> , 2002, 210, 175-180.	4.1	53
46	Strategic Co-Location in a Hybrid Process Involving Desalination and Pressure Retarded Osmosis (PRO). <i>Membranes</i> , 2013, 3, 98-125.	1.4	53
47	A Model for Sorted Patterned-Ground Regularity. <i>Journal of Glaciology</i> , 1983, 29, 317-337.	1.1	52
48	Flow-visualization during macrovoid pore formation in dry-cast cellulose acetate membranes. <i>Journal of Membrane Science</i> , 2003, 211, 71-90.	4.1	52
49	Explorations of delamination and irregular structure in poly(amide-imide)-polyethersulfone dual layer hollow fiber membranes. <i>Journal of Membrane Science</i> , 2012, 423-424, 73-84.	4.1	51
50	Monitoring of colloidal fouling and its associated metastability using Ultrasonic Time Domain Reflectometry. <i>Journal of Membrane Science</i> , 2012, 401-402, 241-253.	4.1	51
51	Design and synthesis of ice-templated PSA cryogels for water purification: towards tailored morphology and properties. <i>Soft Matter</i> , 2013, 9, 224-234.	1.2	51
52	Exploration of using thermally responsive polyionic liquid hydrogels as draw agents in forward osmosis. <i>RSC Advances</i> , 2015, 5, 97143-97150.	1.7	51
53	Science in Pictures: Patterned Ground. <i>Scientific American</i> , 1988, 259, 68-76.	1.0	49
54	Evaporimetry: A novel technique for determining the pore-size distribution of membranes. <i>Journal of Membrane Science</i> , 2013, 438, 153-166.	4.1	48

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55	Effect of a macromolecular- or bio-fouling layer on membrane distillation. <i>Journal of Membrane Science</i> , 2014, 456, 66-76.	4.1	48
56	Influence of backwashing on the pore size of hollow fiber ultrafiltration membranes. <i>Journal of Membrane Science</i> , 2017, 521, 33-42.	4.1	47
57	The Performance and Fouling Control of Submerged Hollow Fiber (HF) Systems: A Review. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 765.	1.3	47
58	The linear hydrodynamic stability of film flow down a vertical cylinder. <i>AIChE Journal</i> , 1976, 22, 930-934.	1.8	43
59	Effect of humic-acid fouling on membrane distillation. <i>Journal of Membrane Science</i> , 2016, 504, 263-273.	4.1	41
60	Energy optimization of a multistage reverse osmosis process for seawater desalination. <i>Desalination</i> , 2018, 429, 1-11.	4.0	40
61	Comprehensive experimental studies of early-stage membrane scaling during nanofiltration. <i>Desalination</i> , 2011, 283, 40-51.	4.0	38
62	Realistic analysis of flow in wire-coating dies. <i>Polymer Engineering and Science</i> , 1979, 19, 1178-1187.	1.5	37
63	Characterization of nanofiltration and reverse osmosis membrane performance for aqueous salt solutions using irreversible thermodynamics. <i>Desalination</i> , 2007, 208, 1-18.	4.0	37
64	Macrovoid pore formation in dry-cast cellulose acetate membranes: buoyancy studies. <i>Journal of Membrane Science</i> , 2002, 205, 11-21.	4.1	36
65	Dense gas extraction using a hollow fiber membrane contactor: experimental results versus model predictions. <i>Journal of Membrane Science</i> , 2005, 257, 11-36.	4.1	36
66	Energy-efficient reverse osmosis desalination: Effect of retentate recycle and pump and energy recovery device efficiencies. <i>Desalination</i> , 2015, 366, 15-31.	4.0	36
67	Pressure-retarded osmosis with wastewater concentrate feed: Fouling process considerations. <i>Journal of Membrane Science</i> , 2017, 542, 233-244.	4.1	36
68	Use of axial membrane vibrations to enhance mass transfer in a hollow tube oxygenator. <i>Journal of Membrane Science</i> , 1997, 124, 283-299.	4.1	35
69	A model for wet-casting polymeric membranes incorporating nonequilibrium interfacial dynamics, vitrification and convection. <i>Journal of Membrane Science</i> , 2010, 354, 74-85.	4.1	35
70	Robust Digital Image Analysis of Pendant Drop Shapes. <i>Journal of Colloid and Interface Science</i> , 1996, 177, 658-665.	5.0	33
71	Laminar film flow over a sphere. <i>Industrial & Engineering Chemistry Fundamentals</i> , 1983, 22, 405-410.	0.7	29
72	Use of ultrasonic time-domain reflectometry for real-time measurement of thickness changes during evaporative casting of polymeric films. <i>Journal of Applied Polymer Science</i> , 1998, 69, 2013-2019.	1.3	29

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73	Linear stability of planar reverse combustion in porous media. <i>Combustion and Flame</i> , 1985, 60, 125-140.	2.8	27
74	Epoxy-based broadband antireflection coating for millimeter-wave optics. <i>Applied Optics</i> , 2013, 52, 8102.	0.9	27
75	Colloidal metastability and membrane fouling – Effects of crossflow velocity, flux, salinity and colloid concentration. <i>Journal of Membrane Science</i> , 2014, 469, 174-187.	4.1	25
76	Effect of synthesis routes on the properties and bactericidal activity of cryogels incorporated with silver nanoparticles. <i>RSC Advances</i> , 2015, 5, 44626-44635.	1.7	25
77	A conceptual design of spacers with hairy structures for membrane processes. <i>Journal of Membrane Science</i> , 2016, 510, 314-325.	4.1	25
78	Development of pendant drop mechanical analysis as a technique for determining the stress-relaxation and water-permeation properties of interfacially polymerized barrier layers. <i>Journal of Applied Polymer Science</i> , 2003, 90, 2618-2628.	1.3	23
79	A novel process for membrane fabrication: thermally assisted evaporative phase separation (TAEPS). <i>Journal of Membrane Science</i> , 2004, 230, 99-109.	4.1	23
80	Investigation of the viscoelastic and transport properties of interfacially polymerized barrier layers using pendant drop mechanical analysis. <i>Journal of Applied Polymer Science</i> , 2004, 94, 558-568.	1.3	22
81	Predictive dynamic model of single-stage ultra-rapid pressure swing adsorption. <i>AIChE Journal</i> , 2004, 50, 953-962.	1.8	22
82	Evaporometry determination of pore-size distribution and pore fouling of hollow fiber membranes. <i>Journal of Membrane Science</i> , 2014, 470, 334-345.	4.1	22
83	Process economics and operating strategy for the energy-efficient reverse osmosis (EERO) process. <i>Desalination</i> , 2018, 443, 70-84.	4.0	22
84	Sensitivity analysis of the rapid decomposition of methane in an aerosol flow reactor. <i>International Journal of Hydrogen Energy</i> , 2004, 29, 57-65.	3.8	21
85	Studies on polymeric nanofiltration-based water softening and the effect of anion properties on the softening process. <i>European Polymer Journal</i> , 2008, 44, 2244-2252.	2.6	21
86	Dry-casting: Computer simulation, sensitivity analysis, experimental and phenomenological model studies. <i>Journal of Membrane Science</i> , 2010, 354, 178-188.	4.1	21
87	Development of a new technique to predict reverse osmosis fouling. <i>Journal of Membrane Science</i> , 2013, 448, 12-22.	4.1	21
88	Online monitor for the reverse osmosis spiral wound module – Development of the canary cell. <i>Desalination</i> , 2015, 368, 48-59.	4.0	21
89	Prediction of reverse osmosis fouling using the feed fouling monitor and salt tracer response technique. <i>Journal of Membrane Science</i> , 2015, 475, 433-444.	4.1	21
90	A study of transpiration from porous flat plates simulating plant leaves. <i>International Journal of Heat and Mass Transfer</i> , 1979, 22, 469-483.	2.5	20

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91	Reverse Combustion Instabilities in Tar Sands and Coal. Society of Petroleum Engineers Journal, 1980, 20, 267-277.	0.9	20
92	Spatial formulation of the Orr-Sommerfeld equation for thin liquid films flowing down a plane. AIChE Journal, 1973, 19, 1163-1169.	1.8	19
93	A model for evaporative casting of polymeric membranes incorporating convection due to density changes. Journal of Membrane Science, 2006, 284, 161-172.	4.1	19
94	Design of a two-step pulsed pressure-swing adsorption-based oxygen concentrator. AIChE Journal, 2010, 56, 354-370.	1.8	19
95	Spatially growing three-dimensional waves on falling film flow. International Journal of Multiphase Flow, 1977, 3, 609-614.	1.6	18
96	Thermal and electrical property measurements for coal. Fuel, 1989, 68, 185-192.	3.4	18
97	Study of membrane fouling and cleaning in spiral wound modules using ultrasonic time-domain reflectometry. Membrane Science and Technology, 2003, 8, 65-88.	0.5	18
98	Numerical approximation of solutions of a nonlinear inverse problem arising in olfaction experimentation. Mathematical and Computer Modelling, 2006, 43, 945-956.	2.0	18
99	High-performance protein separation by ion exchange membrane partitioned free-flow isoelectric focusing system. Chemical Engineering Science, 2008, 63, 2241-2251.	1.9	18
100	Improved design and protocol for evaporimetry determination of the pore-size distribution. Journal of Membrane Science, 2015, 496, 334-343.	4.1	18
101	Technical and economic feasibility of the concurrent desalination and boron removal (CDBR) process. Desalination, 2020, 486, 114474.	4.0	18
102	Evaluation and Treatment of Sternoclavicular, Clavicular, and Acromioclavicular Injuries. Primary Care - Clinics in Office Practice, 2013, 40, 911-923.	0.7	17
103	An Integrity Sensor for assessing the performance of low pressure membrane modules in the water industry. Desalination, 2011, 283, 117-122.	4.0	16
104	Effects of concentration polarization, temperature and pressure on ultrasound detection of inorganic fouling and cleaning in a spiral-wound membrane module. Desalination and Water Treatment, 2012, 50, 411-422.	1.0	16
105	Potential evaluation and perspectives on using sponge-like superabsorbent cryogels for onsite water treatment in emergencies. Desalination and Water Treatment, 2015, 53, 1506-1515.	1.0	16
106	Axial Dispersion in the Turbulent Flow of Power-Law Fluids in Straight Tubes. Industrial & Engineering Chemistry Fundamentals, 1974, 13, 56-62.	0.7	15
107	Characterization of colloidal fouling in forward osmosis via ultrasonic time- (UTDR) and frequency-domain reflectometry (UFDR). Journal of Membrane Science, 2020, 602, 117969.	4.1	15
108	Dispersion in the Laminar Flow of Power-Law Fluids through Straight Tubes. Industrial & Engineering Chemistry Fundamentals, 1976, 15, 249-254.	0.7	14

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109	Effect of air bubbling on atrazine adsorption in water by powdered activated carbons – competitive adsorption of impurities. Separation and Purification Technology, 2005, 46, 79-87.	3.9	14
110	Percutaneous absorption of volatile solvents following transient liquid exposures II. Ethanol. Chemical Engineering Science, 2009, 64, 1665-1672.	1.9	14
111	Scaling analysis of the electrohydrodynamic atomization (EHDA) process for pharmaceutical particle fabrication. Chemical Engineering Science, 2012, 80, 81-90.	1.9	14
112	Generalized criterion for the onset of particle deposition in crossflow microfiltration via DOTM – Modeling and experimental validation. Journal of Membrane Science, 2014, 457, 128-138.	4.1	14
113	Flow-field mitigation of membrane fouling (FMMF) via manipulation of the convective flow in cross-flow membrane applications. Journal of Membrane Science, 2017, 526, 377-386.	4.1	14
114	Mitigation of membrane fouling by whey protein via water hammer. Journal of Membrane Science, 2022, 642, 119967.	4.1	14
115	Asymptotic structure of planar nonadiabatic reverse combustion fronts in porous media. Combustion and Flame, 1986, 65, 151-161.	2.8	13
116	Heat, Mass, and momentum transfer analogies for the fully developed turbulent flow of power law fluids in circular tubes. AIChE Journal, 1971, 17, 1360-1367.	1.8	12
117	Use of infrared thermography for temperature measurement during evaporative casting of thin polymeric films. Journal of Membrane Science, 1995, 107, 249-261.	4.1	12
118	Application of a Fully Predictive Model for Secondary Frost Heave. Arctic and Alpine Research, 1996, 28, 284.	1.3	12
119	Macrovoid growth during polymer membrane casting. Desalination, 2002, 145, 17-23.	4.0	12
120	Influence of dissolved air on the effectiveness of cyclic backwashing in submerged membrane systems. Journal of Membrane Science, 2014, 456, 77-84.	4.1	12
121	The involvement of lectins and lectin-like humic substances in biofilm formation on RO membranes - is TEP important?. Desalination, 2016, 399, 61-68.	4.0	12
122	Scaling and sensitivity analysis of a reverse flow reactor. Chemical Engineering Science, 2008, 63, 342-355.	1.9	11
123	Evaporimetry adaptation to determine the lumen-side pore-size distribution (PSD) of hollow fiber and tubular membranes. Journal of Membrane Science, 2017, 526, 1-8.	4.1	10
124	A novel energy-efficient concurrent desalination and boron removal (CDBR) process. Desalination, 2017, 423, 79-94.	4.0	10
125	Adaptation of evaporimetry (EP) to characterize the continuous pores and interpore connectivity in polymeric membranes. Journal of Membrane Science, 2019, 575, 17-27.	4.1	10
126	Taylor instability in rhyolite lava flows. Journal of Geophysical Research, 1989, 94, 5815-5828.	3.3	9

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127	Development of A Technique for the In-Situ Measurement of the Mechanical Properties of Ultra-Thin Interfacially Polymerized Films. Materials Research Society Symposia Proceedings, 1994, 356, 541.	0.1	9
128	Use of an electric field to alter membrane morphology in a polysulfone-polyvinylpyrrolidone blend. Journal of Membrane Science, 1993, 79, 115-122.	4.1	8
129	Studies of convective transport in evaporative casting of dense polymer films. Journal of Membrane Science, 1995, 108, 245-255.	4.1	8
130	Chemical Modification of Cellulose Acetate with Titanium Isopropoxide. International Journal of Polymer Analysis and Characterization, 2002, 7, 162-180.	0.9	8
131	Impact of solution chemistry on the properties and bactericidal activity of silver nanoparticles decorated on superabsorbent cryogels. Journal of Colloid and Interface Science, 2016, 461, 104-113.	5.0	8
132	Extending the uppermost pore diameter measureable via Evaporometry. Journal of Membrane Science, 2017, 524, 637-643.	4.1	8
133	Bimodal wave formation on thin liquid films flowing down a plane. AIChE Journal, 1971, 17, 494-496.	1.8	7
134	Bimodal terminal velocities using the falling needle viscometer. Review of Scientific Instruments, 1992, 63, 4200-4204.	0.6	7
135	A Correlation for Velocity and Eddy Diffusivity for the Flow of Power-Law Fluids Close to a Pipe Wall. Industrial & Engineering Chemistry Fundamentals, 1971, 10, 424-427.	0.7	6
136	Levitation of Solid Spheres in Pulsating Liquids. Industrial & Engineering Chemistry Fundamentals, 1973, 12, 391-396.	0.7	6
137	Stationary Wave Formation on Thin Liquid Films Flowing down a Plane. Industrial & Engineering Chemistry Fundamentals, 1975, 14, 33-39.	0.7	6
138	Laminar Film Flow down a Right Circular Cone. Industrial & Engineering Chemistry Fundamentals, 1976, 15, 91-94.	0.7	6
139	Non-parallel flow effects on the stability of film flow down a right circular cone. Journal of Fluid Mechanics, 1980, 96, 585-601.	1.4	6
140	Membrane Characterization by Ultrasonic Time-Domain Reflectometry. , 0, , 879-897.		6
141	Percutaneous absorption of volatile solvents following transient liquid exposures: I. Model development. Chemical Engineering Science, 2009, 64, 1027-1035.	1.9	6
142	Centrifugal reverse osmosis (CRO) - a novel energy-efficient membrane process for desalination near local thermodynamic equilibrium. Journal of Membrane Science, 2021, 637, 119630.	4.1	6
143	Additional comments on the spatial formulation of the Orr-Sommerfeld equation for thin liquid films. AIChE Journal, 1975, 21, 179-181.	1.8	5
144	Use of Solubility Parameters for Predicting the Separation Characteristics of Poly(dimethylsiloxane) and Siloxane-Containing Membranes. ACS Symposium Series, 2007, , 203-219.	0.5	5

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145	Control and enhancement of permselectivity of membrane-based microcapsules for favorable biomolecular transport and immunoisolation. <i>AIChE Journal</i> , 2011, 57, 3052-3062.	1.8	5
146	Nonbuoyancy density-driven convective mass and heat transfer: Scaling analysis and solution methodology. <i>AIChE Journal</i> , 2012, 58, 678-689.	1.8	5
147	The equivalence of the spatial and temporal formulations for the linear stability of falling film flow. <i>AIChE Journal</i> , 1976, 22, 934-937.	1.8	4
148	Additional comments on spatially growing disturbances in liquid films. <i>AIChE Journal</i> , 1975, 21, 596-597.	1.8	2
149	Adsorption and Desorption at Dynamic Nonequilibrium Interfaces: Interfacial Stagnation Flow. <i>Industrial & Engineering Chemistry Fundamentals</i> , 1978, 17, 341-353.	0.7	2
150	Analysis of the Rapid Carbothermal Reduction Synthesis of Ultra-Fine Silicon Carbide Powders. <i>Aerosol Science and Technology</i> , 2002, 36, 1087-1098.	1.5	2
151	Characterization of a Biomedical Grade Silica-Filled Silicone Elastomer Using Ultrasound. <i>ACS Symposium Series</i> , 2010, , 85-98.	0.5	2
152	Novel Monitors Enable Early Detection of RO System Fouling. <i>IDA Journal of Desalination and Water Reuse</i> , 2012, 4, 36-48.	0.4	2
153	Linear Stability of a Planar Reverse Combustion Front Propagating Through a Porous Medium: Gas-Solid Combustion Model. , 1984, , 117-135.		2
154	Instrumentation for Studying Polymer Film Formation in Low Gravity. <i>ACS Symposium Series</i> , 2001, , 126-137.	0.5	1
155	Sliding-Cavity Fluid Contactors in Low-Gravity Fluids, Materials, and Biotechnology Research. <i>Annals of the New York Academy of Sciences</i> , 2002, 974, 581-590.	1.8	1
156	Observation of solutocapillary flow during polymer membrane casting. , 2001, , .		1
157	Capillary wave propagation at an interfacial stagnation line. <i>Journal of Colloid and Interface Science</i> , 1985, 107, 96-106.	5.0	0
158	Combustion and dielectric breakdown instabilities in porous media. <i>Earth-Science Reviews</i> , 1990, 29, 401-417.	4.0	0
159	Investigation of corrugation phenomenon in the inner contour of hollow fibers during the nonsolvent-induced phase-separation process. , 2021, , 85-104.		0
160	In memory of professor Sun-Tak Hwang. <i>Journal of Membrane Science</i> , 2022, 654, 120500.	4.1	0
161	Prototype commercial evapoporometer instrument. <i>Journal of Membrane Science</i> , 2022, 655, 120573.	4.1	0