

Edward Cussler

List of Publications by Year in descending order

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61
papers

4,555
citations

201385

27
h-index

138251

58
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63
all docs

63
docs citations

63
times ranked

4494
citing authors

#	ARTICLE	IF	CITATIONS
1	Designing hollow-fiber contactors. <i>AIChE Journal</i> , 1986, 32, 1910-1916.	1.8	603
2	Self-Assembled Block Copolymer Thin Films as Water Filtration Membranes. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 847-853.	4.0	366
3	Protein extractions with hollow fibers. <i>AIChE Journal</i> , 1988, 34, 130-136.	1.8	225
4	Core-Shell Gyroid Morphology in a Poly(isoprene-block-styrene-block-dimethylsiloxane) Triblock Copolymer. <i>Journal of the American Chemical Society</i> , 1999, 121, 8457-8465.	6.6	194
5	Cylinder Orientation Mechanism in Block Copolymer Thin Films Upon Solvent Evaporation. <i>Macromolecules</i> , 2010, 43, 7763-7770.	2.2	193
6	Gels as size selective extraction solvents. <i>AIChE Journal</i> , 1984, 30, 578-582.	1.8	147
7	Polymer-zeolite composite membranes for direct methanol fuel cells. <i>AIChE Journal</i> , 2003, 49, 991-1001.	1.8	121
8	Temperature Sensitive Gels as Size Selective Absorbants. <i>Separation Science and Technology</i> , 1987, 22, 911-919.	1.3	120
9	Predicting the Texture of Liquid and Melting Semi-Solid Foods. <i>Journal of Food Science</i> , 1983, 48, 1221-1225.	1.5	119
10	Hollow fiber gas membranes. <i>AIChE Journal</i> , 1985, 31, 1548-1553.	1.8	97
11	Racemic leucine separation by hollow-fiber extraction. <i>AIChE Journal</i> , 1992, 38, 1493-1498.	1.8	97
12	Barrier membranes with tipped impermeable flakes. <i>AIChE Journal</i> , 1996, 42, 2-9.	1.8	89
13	Reactive barrier films. <i>AIChE Journal</i> , 2001, 47, 295-302.	1.8	86
14	Chemical product engineering. <i>AIChE Journal</i> , 2003, 49, 1072-1075.	1.8	82
15	Better Absorbents for Ammonia Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6536-6546.	3.2	63
16	Modeling and Optimal Design of Absorbent Enhanced Ammonia Synthesis. <i>Processes</i> , 2018, 6, 91.	1.3	57
17	Converting Wind Energy to Ammonia at Lower Pressure. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 827-834.	3.2	49
18	On separation efficiency. <i>AIChE Journal</i> , 2012, 58, 3825-3831.	1.8	44

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19	Hollow-fiber liquid chromatography. <i>AICHE Journal</i> , 1989, 35, 814-820.	1.8	40
20	Column absorption for reproducible cyclic separation in small scale ammonia synthesis. <i>AICHE Journal</i> , 2017, 63, 3058-3068.	1.8	37
21	Organic microporous materials made by bicontinuous microemulsion polymerization. <i>AICHE Journal</i> , 1995, 41, 907-914.	1.8	36
22	Integrated Ammonia Synthesis and Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18785-18792.	3.2	35
23	Polydisperse tube diameters compromise multiple open tubular chromatography. <i>AICHE Journal</i> , 1993, 39, 946-953.	1.8	34
24	Fractional extraction with hollow fibers with hydrogel-filled walls. <i>AICHE Journal</i> , 1991, 37, 855-862.	1.8	33
25	Rates of Ammonia Absorption and Release in Calcium Chloride. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11827-11835.	3.2	31
26	Distillation in hollow fibers. <i>AICHE Journal</i> , 2003, 49, 2344-2351.	1.8	30
27	Ammonia absorption at haber process conditions. <i>AICHE Journal</i> , 2012, 58, 3526-3532.	1.8	30
28	Optimizing the Conditions for Ammonia Production Using Absorption. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4019-4029.	3.2	28
29	Ammonia synthesis enhanced by magnesium chloride absorption. <i>AICHE Journal</i> , 2015, 61, 1364-1371.	1.8	24
30	Optimizing Ammonia Separation via Reactive Absorption for Sustainable Ammonia Synthesis. <i>ACS Applied Energy Materials</i> , 2020, 3, 2576-2584.	2.5	24
31	Dissolution and reprecipitation in porous solids. <i>AICHE Journal</i> , 1982, 28, 500-508.	1.8	23
32	Silica gels made by bicontinuous microemulsion polymerization. <i>AICHE Journal</i> , 1995, 41, 159-165.	1.8	23
33	Mechanisms of photoresist dissolution. <i>AICHE Journal</i> , 2002, 48, 661-672.	1.8	23
34	Fundamentals of Mass Transfer. , 2009, , 237-273.		21
35	The third parameter in reactive barrier films. <i>AICHE Journal</i> , 2005, 51, 456-463.	1.8	20
36	Hollow Fiber Array Affinity Chromatography. <i>Biotechnology Progress</i> , 1995, 11, 651-658.	1.3	18

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37	Oxygen barriers that use free radical chemistry. <i>AICHE Journal</i> , 2001, 47, 2725-2732.	1.8	17
38	Gas separations in hollow-fiber adsorbers. <i>AICHE Journal</i> , 1995, 41, 1413-1425.	1.8	16
39	Diffusion in nanoporous materials made from block copolymers. <i>Crystallography Reviews</i> , 2006, 12, 13-24.	0.4	15
40	Theories of precipitation induced by dissolution. <i>AICHE Journal</i> , 1988, 34, 2005-2010.	1.8	10
41	Possible air separations with superconducting membranes. <i>AICHE Journal</i> , 1999, 45, 2313-2325.	1.8	10
42	Understanding rate-limiting processes for the sublimation of small molecule organic semiconductors. <i>AICHE Journal</i> , 2014, 60, 1347-1354.	1.8	10
43	A hollow-fiber trickle-bed reactor. <i>AICHE Journal</i> , 1987, 33, 1754-1756.	1.8	9
44	Hydrogels as Ultrafiltration Devices. <i>Separation and Purification Reviews</i> , 1989, 18, 177-192.	0.8	9
45	Copper selective adsorption with a microemulsion-based resin. <i>AICHE Journal</i> , 1995, 41, 1165-1170.	1.8	9
46	Selective electrorefining with liquid membranes. <i>AICHE Journal</i> , 1983, 29, 144-149.	1.8	8
47	Microporous Vanadium Pentaoxide. 2. Making Solids from Colloidal Microemulsions. <i>Langmuir</i> , 1998, 14, 277-282.	1.6	8
48	More effective membrane chromatography. <i>AICHE Journal</i> , 2015, 61, 3871-3878.	1.8	8
49	The future of the lecture. <i>AICHE Journal</i> , 2015, 61, 1472-1477.	1.8	8
50	Will humans swim faster or slower in syrup?. <i>AICHE Journal</i> , 2004, 50, 2646-2647.	1.8	7
51	Efficient Water Pollution Abatement. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 22483-22487.	1.8	7
52	Desorption in Ammonia Manufacture from Stranded Wind Energy. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15475-15483.	3.2	6
53	Liquid Membrane Separations of Potassium Iodide from Mixed Brines. <i>Separation Science and Technology</i> , 1984, 19, 963-975.	1.3	5
54	Microporous Vanadium Pentaoxide. 1. Vanadyl Isopropoxide in Microemulsions. <i>Langmuir</i> , 1997, 13, 1496-1500.	1.6	5

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55	Ammonia Synthesis at Low Pressure. Journal of Visualized Experiments, 2017, , .	0.2	5
56	Bioseparations, Especially by Hollow Fibers. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1989, 93, 944-948.	0.9	4
57	Adsorption of Oxygen on YBa ₂ Cu ₃ O _{7-x} and (Bi,Pb) ₂ Sr ₂ Ca ₂ Cu ₃ O _x Superconducting Adsorbents. Langmuir, 1999, 15, 3950-3955.	1.6	4
58	Sorptive and Reactive Scavenger-Containing Sandwich Membranes as Contaminant Barriers. Journal of Environmental Engineering, ASCE, 2009, 135, 69-76.	0.7	4
59	Effect of Rapid Pressurization on the Solubility of Small Organic Molecules. Crystal Growth and Design, 2016, 16, 1404-1408.	1.4	4
60	Sublimation as a function of diffusion. AIChE Journal, 2016, 62, 861-867.	1.8	3
61	Volume diffusion in purification by sublimation. AIChE Journal, 2017, 63, 1757-1764.	1.8	1