Robert Davis

List of Publications by Year in descending order

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172 papers	8,315 citations	50276 46 h-index	51608 86 g-index
174 all docs	174 docs citations	174 times ranked	4669 citing authors

#	Article	IF	Citations
1	The behavior of suspensions and macromolecular solutions in crossflow microfiltration. Journal of Membrane Science, 1994, 96, 1-58.	8.2	1,180
2	The elastohydrodynamic collision of two spheres. Journal of Fluid Mechanics, 1986, 163, 479-497.	3.4	327
3	A Novel Sequential Photoinduced Living Graft Polymerization. Macromolecules, 2000, 33, 331-335.	4.8	288
4	The lubrication force between two viscous drops. Physics of Fluids A, Fluid Dynamics, 1989, 1, 77-81.	1.6	224
5	Protein Fouling of Track-Etched Polycarbonate Microfiltration Membranes. Journal of Colloid and Interface Science, 1994, 167, 104-116.	9.4	216
6	On the buoyancy-driven motion of a drop towards a rigid surface or a deformable interface. Journal of Fluid Mechanics, 1990, 217, 547-573.	3.4	184
7	A novel boundary-integral algorithm for viscous interaction of deformable drops. Physics of Fluids, 1997, 9, 1493-1511.	4.0	167
8	Modeling of Fouling of Crossflow Microfiltration Membranes. Separation and Purification Reviews, 1992, 21, 75-126.	0.8	165
9	Elastohydrodynamic collision and rebound of spheres: Experimental verification. Physics of Fluids, 1988, 31, 1324.	1.4	156
10	Motion of a particle between two parallel plane walls in low-Reynolds-number Poiseuille flow. Physics of Fluids, 2003, 15, 1711.	4.0	148
11	The rate of collisions due to Brownian or gravitational motion of small drops. Journal of Fluid Mechanics, 1991, 230, 479-504.	3.4	142
12	Close approach and deformation of two viscous drops due to gravity and van der waals forces. Journal of Colloid and Interface Science, 1991, 144, 412-433.	9.4	141
13	Membrane fouling during microfiltration of protein mixtures. Journal of Membrane Science, 1996, 119, 269-284.	8.2	136
14	Cross-flow microfiltration with high-frequency reverse filtration. AICHE Journal, 1995, 41, 501-508.	3.6	115
15	Spreading of the interface at the top of a slightly polydisperse sedimenting suspension. Journal of Fluid Mechanics, 1988, 196, 107-134.	3.4	111
16	The collision rate of small drops in linear flow fields. Journal of Fluid Mechanics, 1994, 265, 161-188.	3.4	111
17	Elastohydrodynamic rebound of spheres from coated surfaces. Journal of Fluid Mechanics, 2002, 468, 107-119.	3.4	105
18	The rate of coagulation of a dilute polydisperse system of sedimenting spheres. Journal of Fluid Mechanics, 1984, 145, 179.	3.4	104

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19	Cusping, capture, and breakup of interacting drops by a curvatureless boundary-integral algorithm. Journal of Fluid Mechanics, 1999, 391, 249-292.	3.4	101
20	Factors affecting membrane fouling reduction by surface modification and backpulsing. Journal of Membrane Science, 2001, 189, 255-270.	8.2	99
21	Inclined Sedimentation for Selective Retention of Viable Hybridomas in a Continuous Suspension Bioreactor. Biotechnology Progress, 1990, 6, 458-464.	2.6	98
22	Microfiltration of protein mixtures and the effects of yeast on membrane fouling. Journal of Membrane Science, 1999, 155, 113-122.	8.2	97
23	Buoyancy-driven coalescence of slightly deformable drops. Journal of Fluid Mechanics, 1997, 346, 117-148.	3.4	90
24	Hindered settling function with no empirical parameters for polydisperse suspensions. AICHE Journal, 1994, 40, 570-575.	3.6	89
25	Sedimentation of algae flocculated using naturally-available, magnesium-based flocculants. Algal Research, 2012, 1, 32-39.	4.6	89
26	Experimental verification of the shear-induced hydrodynamic diffusion model of crossflow microfiltration. Journal of Membrane Science, 1991, 62, 249-273.	8.2	88
27	An Efficient Algorithm for Hydrodynamical Interaction of Many Deformable Drops. Journal of Computational Physics, 2000, 157, 539-587.	3.8	86
28	The effect of slight deformation on droplet coalescence in linear flows. Physics of Fluids, 2001, 13, 1178-1190.	4.0	81
29	Modeling of concentration polarization and depolarization with high-frequency backpulsing. Journal of Membrane Science, 1996, 121, 229-242.	8.2	80
30	Low-Reynolds-number motion of a deformable drop between two parallel plane walls. International Journal of Multiphase Flow, 2007, 33, 182-206.	3.4	79
31	Direct visual observation of yeast deposition and removal during microfiltration. Journal of Membrane Science, 2001, 189, 217-230.	8.2	77
32	HYDRODYNAMIC MODEL AND EXPERIMENTS FOR CROSSFLOW MICROFILTRATION. Chemical Engineering Communications, 1987, 49, 217-234.	2.6	68
33	Flux enhancement for membrane filtration of bacterial suspensions using high-frequency backpulsing. Biotechnology and Bioengineering, 1998, 60, 77-87.	3.3	68
34	Shear flow of highly concentrated emulsions of deformable drops by numerical simulations. Journal of Fluid Mechanics, 2002, 455, 21-61.	3.4	68
35	The viscosity of a dilute suspension of rough spheres. Journal of Fluid Mechanics, 2000, 421, 339-367.	3.4	65
36	Dynamics of induced CAT expression inE. coli. Biotechnology and Bioengineering, 1991, 38, 749-760.	3.3	63

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37	Protein recovery from bacterial cell debris using crossflow microfiltration with backpulsing. Journal of Membrane Science, 1996, 118, 259-268.	8.2	61
38	Soft-lithography fabrication of microfluidic features using thiol-ene formulations. Lab on A Chip, 2011, 11, 2772.	6.0	59
39	Crossflow microfiltration of yeast suspensions in tubular filters. Biotechnology Progress, 1993, 9, 625-634.	2.6	56
40	Theoretical and experimental flux maximization by optimization of backpulsing. Journal of Membrane Science, 2000, 165, 225-236.	8.2	54
41	Effects of Added Yeast on Protein Transmission and Flux in Cross-Flow Membrane Microfiltration. Biotechnology Progress, 1999, 15, 472-479.	2.6	51
42	Shear stress of a monolayer of rough spheres. Journal of Fluid Mechanics, 2002, 452, 425-441.	3.4	50
43	A boundary-integral study of a drop squeezing through interparticle constrictions. Journal of Fluid Mechanics, 2006, 564, 227.	3.4	50
44	Effects of surface roughness on a sphere sedimenting through a dilute suspension of neutrally buoyant spheres. Physics of Fluids A, Fluid Dynamics, 1992, 4, 2607-2619.	1.6	49
45	Microfiltration of protein-cell mixtures with crossflushing or backflushing. Journal of Membrane Science, 2001, 183, 1-14.	8.2	49
46	Oblique collisions and rebound of spheres from a wetted surface. Journal of Fluid Mechanics, 2004, 509, 63-81.	3.4	47
47	Yeast cake layers as secondary membranes in dead-end microfiltration of bovine serum albumin. Journal of Membrane Science, 1994, 92, 247-256.	8.2	46
48	Cellulase Recovery via Membrane Filtration. Applied Biochemistry and Biotechnology, 2001, 91-93, 297-310.	2.9	46
49	The influence of pressure-dependent density and viscosity on the elastohydrodynamic collision and rebound of two spheres. Journal of Fluid Mechanics, 1989, 209, 501-519.	3.4	45
50	The lubrication force between spherical drops, bubbles and rigid particles in a viscous fluid. International Journal of Multiphase Flow, 1989, 15, 627-638.	3.4	43
51	Solidâ€“solid contacts due to surface roughness and their effects on suspension behaviour. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 871-894.	3.4	43
52	In situ fabrication of macroporous polymer networks within microfluidic devices by living radical photopolymerization and leaching. Lab on A Chip, 2005, 5, 151.	6.0	43
53	Modeling and Measurement of Yeast Flocculation. Biotechnology Progress, 1986, 2, 91-97.	2.6	42
54	Particle transport in Poiseuille flow in narrow channels. International Journal of Multiphase Flow, 2005, 31, 529-547.	3.4	42

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55	The nature of particle contacts in sedimentation. Physics of Fluids, 1996, 8, 1389-1396.	4.0	41
56	Buoyancy-driven viscous interaction of a rising drop with a smaller trailing drop. Physics of Fluids, 1999, 11, 1016-1028.	4.0	40
57	Largeâ€“scale simulations of concentrated emulsion flows. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 813-845.	3.4	40
58	Deposition of foulant particles during tangential flow filtration. Journal of Membrane Science, 2006, 271, 101-113.	8.2	39
59	Motion of Deformable Drops Through Porous Media. Annual Review of Fluid Mechanics, 2017, 49, 71-90.	25.0	39
60	The sedimentation of polydisperse suspensions in vessels having inclined walls. International Journal of Multiphase Flow, 1982, 8, 571-585.	3.4	38
61	Particle classification for dilute suspensions using an inclined settler. Industrial & Engineering Chemistry Research, 1989, 28, 785-793.	3.7	38
62	Yeast foulant removal by backpulses in crossflow microfiltration. Journal of Membrane Science, 2002, 208, 389-404.	8.2	38
63	Cellulase Retention and Sugar Removal by Membrane Ultrafiltration During Lignocellulosic Biomass Hydrolysis. Applied Biochemistry and Biotechnology, 2004, 114, 585-600.	2.9	38
64	Droplet Growth by Coalescence in Binary Fluid Mixtures. Physical Review Letters, 2001, 87, 098304.	7.8	37
65	Application of cross-flow microfiltration with rapid backpulsing to wastewater treatment. Journal of Hazardous Materials, 1998, 63, 179-197.	12.4	35
66	A multipole-accelerated algorithm for close interaction of slightly deformable drops. Journal of Computational Physics, 2005, 207, 695-735.	3.8	35
67	Near-contact electrophoretic particle motion. Journal of Fluid Mechanics, 1995, 288, 103-122.	3.4	34
68	Emulsion flow through a packed bed with multiple drop breakup. Journal of Fluid Mechanics, 2013, 725, 611-663.	3.4	33
69	Gravity-induced coalescence of drops at arbitrary PÃ©clet numbers. Journal of Fluid Mechanics, 1994, 280, 119-148.	3.4	32
70	Large-scale oligoribonucleotide production. Current Opinion in Biotechnology, 1995, 6, 213-217.	6.6	32
71	Hydrodynamic diffusion of a sphere sedimenting through a dilute suspension of neutrally buoyant spheres. Journal of Fluid Mechanics, 1992, 236, 513-533.	3.4	31
72	Protein recovery from cell debris using rotary and tangential crossflow microfiltration. Biotechnology and Bioengineering, 1995, 47, 155-164.	3.3	31

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73	Direct observation of membrane cleaning via rapid backpulsing. Desalination, 2002, 146, 135-140.	8.2	31
74	Collision rates of spherical drops or particles in a shear flow at arbitrary PÃ©clet numbers. Physics of Fluids, 1995, 7, 2310-2327.	4.0	30
75	Simultaneous sedimentation and coalescence of a dilute dispersion of small drops. Journal of Fluid Mechanics, 1995, 295, 247.	3.4	29
76	Electroosmotic flow in channels with step changes in zeta potential and cross section. Journal of Colloid and Interface Science, 2004, 270, 242-246.	9.4	28
77	A water-activated pump for portable microfluidic applications. Journal of Colloid and Interface Science, 2007, 305, 239-249.	9.4	28
78	Flotation rates of fine, spherical particles and droplets. Chemical Engineering Science, 1994, 49, 3923-3941.	3.8	27
79	Yeast-Fouling Effects in Cross-Flow Microfiltration with Periodic Reverse Filtration. Industrial & Engineering Chemistry Research, 2003, 42, 130-139.	3.7	27
80	Continuous recombinant bacterial fermentations utilizing selective flocculation and recycle. Biotechnology Progress, 1990, 6, 7-12.	2.6	26
81	Classification of concentrated suspensions using inclined settlers. International Journal of Multiphase Flow, 1996, 22, 563-574.	3.4	26
82	Algorithm for direct numerical simulation of emulsion flow through a granular material. Journal of Computational Physics, 2008, 227, 7841-7888.	3.8	26
83	Wave formation and growth during sedimentation in narrow tilted channels. Physics of Fluids, 1983, 26, 2055.	1.4	25
84	Application of Solution Equilibrium Analysis to in Vitro RNA Transcription. Biotechnology Progress, 1997, 13, 747-756.	2.6	25
85	Low-velocity collisions of particles with a dry or wet wall. Microgravity Science and Technology, 2005, 17, 18-25.	1.4	25
86	Combined Sedimentation and Filtration Process for Cellulase Recovery During Hydrolysis of Lignocellulosic Biomass. Applied Biochemistry and Biotechnology, 2002, 98-100, 1161-1172.	2.9	23
87	Elastohydrodynamic theory for wet oblique collisions. Powder Technology, 2006, 168, 42-52.	4.2	23
88	Particle concentration using inclined sedimentation via sludge accumulation and removal for algae harvesting. Chemical Engineering Science, 2013, 91, 79-85.	3.8	23
89	Microhydrodynamics of particulate. Advances in Colloid and Interface Science, 1993, 43, 17-50.	14.7	22
90	The flotation rates of fine spherical particles under Brownian and convective motion. Chemical Engineering Science, 1999, 54, 149-157.	3.8	22

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91	Interaction of two touching spheres in a viscous fluid. Chemical Engineering Science, 2002, 57, 1997-2006.	3.8	22
92	Modeling and verification of fluid-responsive polymer pumps for microfluidic systems. Chemical Engineering Science, 2004, 59, 5967-5974.	3.8	22
93	Mechanisms for agglomeration and deagglomeration following oblique collisions of wet particles. Physical Review E, 2012, 86, 021303.	2.1	21
94	Agglomeration and de-agglomeration of rotating wet doublets. Journal of Fluid Mechanics, 2012, 708, 128-148.	3.4	21
95	RNA Transcription from Immobilized DNA Templates. Biotechnology Progress, 1995, 11, 393-396.	2.6	20
96	Mass transfer to a surfactant-covered bubble or drop. AICHE Journal, 1999, 45, 1355-1358.	3.6	20
97	Motion of a sphere down a rough plane in a viscous fluid. International Journal of Multiphase Flow, 2002, 28, 1787-1800.	3.4	20
98	Competitive yeast fermentation with selective flocculation and recycle. Biotechnology and Bioengineering, 1989, 33, 767-776.	3.3	19
99	Near-contact thermocapillary motion of two non-conducting drops. Journal of Fluid Mechanics, 1993, 256, 107-131.	3.4	19
100	Empirical Evaluation of Inhibitory Product, Substrate, and Enzyme Effects During the Enzymatic Saccharification of Lignocellulosic Biomass. Applied Biochemistry and Biotechnology, 2010, 161, 468-482.	2.9	19
101	Buoyancy-induced squeezing of a deformable drop through an axisymmetric ring constriction. Physics of Fluids, 2010, 22, .	4.0	19
102	Extensional and shear flows, and general rheology of concentrated emulsions of deformable drops. Journal of Fluid Mechanics, 2015, 779, 197-244.	3.4	19
103	Dynamic simulation of spheroid motion between two parallel plane walls in low-Reynolds-number Poiseuille flow. Journal of Fluid Mechanics, 2006, 553, 187.	3.4	18
104	Modeling and optimization of a batch process for in vitro RNA production. , 1997, 56, 210-220.		17
105	Application of a Fed-Batch System To Produce RNA by In Vitro Transcription. Biotechnology Progress, 1999, 15, 174-184.	2.6	17
106	MEMBRANE SURFACE MODIFICATION AND BACKPULSING FOR WASTEWATER TREATMENT. Separation Science and Technology, 2001, 36, 1557-1573.	2.5	17
107	Ellipsoidal model for deformable drops and application to non-Newtonian emulsion flow. Journal of Non-Newtonian Fluid Mechanics, 2002, 102, 281-298.	2.4	17
108	Collisions of spheres with wet and dry porous layers on a solid wall. Chemical Engineering Science, 2006, 61, 417-427.	3.8	17

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109	Gravity-driven motion of a deformable drop or bubble near an inclined plane at low Reynolds number. International Journal of Multiphase Flow, 2008, 34, 408-418.	3.4	17
110	The Effects of van der Waals Attractions on Cloud Droplet Growth by Coalescence. Journals of the Atmospheric Sciences, 1990, 47, 1075-1080.	1.7	16
111	Experimental study of two interacting drops in an immiscible fluid. Journal of Fluid Mechanics, 1993, 249, 227.	3.4	16
112	Microflotation of fine particles in the presence of a bulk-insoluble surfactant. International Journal of Multiphase Flow, 2000, 26, 891-920.	3.4	16
113	Buoyancy-driven interactions of viscous drops with deforming interfaces. Journal of Fluid Mechanics, 2001, 446, 253-269.	3.4	16
114	Squeezing of a periodic emulsion through a cubic lattice of spheres. Physics of Fluids, 2008, 20, 040803.	4.0	16
115	Sedimentation of axisymmetric particles in shear flows. Physics of Fluids A, Fluid Dynamics, 1991, 3, 2051-2060.	1.6	15
116	Hydrodynamic separation of particles using pinchedâ€flow fractionation. AICHE Journal, 2013, 59, 3444-3457.	3.6	15
117	Collective effects of temperature gradients and gravity on droplet coalescence. Physics of Fluids A, Fluid Dynamics, 1993, 5, 1602-1613.	1.6	14
118	Buoyancy-driven coalescence of spherical drops covered with incompressible surfactant at arbitrary PÃ©clet number. Journal of Colloid and Interface Science, 2004, 270, 205-220.	9.4	14
119	General rheology of highly concentrated emulsions with insoluble surfactant. Journal of Fluid Mechanics, 2017, 816, 661-704.	3.4	14
120	Low-Reynolds-number motion of a heavy sphere between two parallel plane walls. Chemical Engineering Science, 2006, 61, 1932-1945.	3.8	13
121	Motion of deformable drops through granular media and other confined geometries. Journal of Colloid and Interface Science, 2009, 334, 113-123.	9.4	12
122	EXPERIMENTAL DETERMINATION OF THE PERMEABILITY AND RELATIVE VISCOSITY FOR FINE LATEXES AND YEAST SUSPENSIONS. Chemical Engineering Communications, 1990, 91, 11-28.	2.6	11
123	General Ellipsoidal Model for Deformable Drops in Viscous Flows. Industrial & Engineering Chemistry Research, 2002, 41, 6270-6278.	3.7	11
124	Simplified model for droplet growth in shear flow. AICHE Journal, 2003, 49, 546-548.	3.6	11
125	Surfactant effects on buoyancy-driven viscous interactions of deformable drops. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 282-283, 50-60.	4.7	11
126	Simulations of gravity-induced trapping of a deformable drop in a three-dimensional constriction. Journal of Colloid and Interface Science, 2012, 383, 167-176.	9.4	11

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127	Particle collection by permeable drops. Physical Review Fluids, 2018, 3, .	2.5	11
128	Interaction of sedimenting spheres with multiple surface roughness scales. Journal of Fluid Mechanics, 2003, 492, 101-129.	3.4	10
129	Drops with insoluble surfactant squeezing through interparticle constrictions. Journal of Fluid Mechanics, 2019, 878, 324-355.	3.4	10
130	Microfiltration in Pharmaceutics and Biotechnology. , 2019, , 29-67.		10
131	Water transport by osmosis through a high-internal-phase, water-in-oil emulsion. Chemical Engineering Science, 2021, 232, 116348.	3.8	8
132	Electrokinetic isolation of vesicles and ribosomes derived from Serratia marcescens. Biotechnology Progress, 1992, 8, 429-435.	2.6	7
133	An adjustable expression system for controlling growth rate, plasmid maintenance, and culture dynamics. Biotechnology and Bioengineering, 1992, 40, 1027-1038.	3.3	7
134	Optimization of repeated-batch transcription for RNA production. Biotechnology and Bioengineering, 2000, 69, 679-687.	3.3	7
135	Infrasonic pulsing for foulant removal in crossflow microfiltration. Journal of Membrane Science, 2000, 180, 157-169.	8.2	7
136	Cellulase Retention and Sugar Removal by Membrane Ultrafiltration During Lignocellulosic Biomass Hydrolysis. , 2004, , 585-599.		7
137	Computational modeling and comparison of three co-laminar microfluidic mixing techniques. Microfluidics and Nanofluidics, 2008, 5, 43-53.	2.2	7
138	Simultaneous and sequential collisions of three wetted spheres. Journal of Fluid Mechanics, 2019, 881, 983-1009.	3.4	7
139	Simulation of drop motion and breakup in narrow pores. Chemical Engineering Science, 2021, 229, 116057.	3.8	7
140	Cell Separations Using Differential Sedimentation in Inclined Settlers. ACS Symposium Series, 1991, , 113-127.	0.5	6
141	MICROFLOTATION OF FINE OIL DROPLETS BY SMALL AIR BUBBLES: EXPERIMENT AND THEORY. Separation Science and Technology, 2001, 36, 1-15.	2.5	6
142	Gravity-induced collisions of spherical drops covered with compressible surfactant. Journal of Fluid Mechanics, 2011, 667, 369-402.	3.4	6
143	A moving-frame boundary-integral method for particle transport in microchannels of complex shape. Physics of Fluids, 2012, 24, 043302.	4.0	6
144	A generalized Oldroyd's model for non-Newtonian liquids with applications to a dilute emulsion of deformable drops. Journal of Rheology, 2014, 58, 759-777.	2.6	6

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145	Boundary-integral study of a freely suspended drop in a T-shaped microchannel. International Journal of Multiphase Flow, 2020, 130, 103379.	3.4	6
146	Drop squeezing between arbitrary smooth obstacles. Journal of Fluid Mechanics, 2021, 908, .	3.4	6
147	Creeping motion and pending breakup of drops and bubbles near an inclined wall. Physics of Fluids, 2009, 21, .	4.0	5
148	Enhanced sediment flow in inclined settlers via surface modification or applied vibration for harvesting microalgae. Algal Research, 2013, 2, 369-377.	4.6	5
149	Fractionation of Organic Fuel Precursors from Electrolytes with Membranes. Industrial & Engineering Chemistry Research, 2013, 52, 10530-10539.	3.7	5
150	Modelling of particle capture by expanding droplets. Journal of Fluid Mechanics, 2021, 912, .	3.4	5
151	Oblique collisions of two wetted spheres. Physical Review Fluids, 2020, 5, .	2.5	5
152	Gravitational collision efficiencies of small viscous drops at finite Stokes numbers and low Reynolds numbers. International Journal of Multiphase Flow, 2022, 146, 103876.	3.4	5
153	Separation and classification of axisymmetric particles in an inclined settler. International Journal of Multiphase Flow, 1993, 19, 803-816.	3.4	4
154	Growth of multiparticle aggregates in sedimenting suspensions. Journal of Fluid Mechanics, 2014, 742, 577-617.	3.4	4
155	Algorithm for flow of highly-concentrated emulsions through a narrow constriction. Journal of Computational Physics, 2021, 438, 110363.	3.8	4
156	Cell separations using targeted monoclonal antibodies against overproduced surface proteins. Applied Biochemistry and Biotechnology, 1994, 45-46, 233-244.	2.9	3
157	Modeling of repeated-batch transcription for production of RNA. Journal of Biotechnology, 1999, 71, 25-37.	3.8	3
158	Internal circulation and mixing within tight-squeezing deformable droplets. Physical Review E, 2021, 103, 043106.	2.1	3
159	Optimal chemostat cascades for periplasmic protein production. Biotechnology Progress, 1990, 6, 430-436.	2.6	2
160	Secondary Membranes for Flux Optimization in Membrane Filtration of Biologic Suspensions. Applied Biochemistry and Biotechnology, 2004, 114, 417-432.	2.9	2
161	Drop trapping in axisymmetric constrictions with arbitrary contact angle. Physics of Fluids, 2012, 24, 062102.	4.0	2
162	Particle interactions with permeable drops in shear flow. Powder Technology, 2021, 383, 410-417.	4.2	2

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163	Diffusion-limited osmotic swelling of droplets. Physics of Fluids, 2021, 33, 117109.	4.0	2
164	Boundary-Integral Algorithm for Drop Squeezing through a Granular Material. AIP Conference Proceedings, 2008, , .	0.4	1
165	Effects of emulsifier concentration in a high-internal-phase, W/O emulsion binder on particle agglomeration. Chemical Engineering Science, 2022, 248, 117098.	3.8	1
166	Flux enhancement for membrane filtration of bacterial suspensions using high-frequency backpulsing. , 1998, 60, 77.		1
167	Combined Sedimentation and Filtration Process for Cellulase Recovery During Hydrolysis of Lignocellulosic Biomass. , 2002, , 1161-1172.		1
168	Interactions Between Aggregated Particles in Stokes Flow. AIP Conference Proceedings, 2008, , .	0.4	0
169	Direct Visual Observation of Microfiltration Membrane Fouling and Cleaning. , 0, , 9-32.		0
170	Improving the facultyâ€student experience in chemical engineering. AICHE Journal, 2020, 66, e16960.	3.6	0
171	BUOYANCY-DRIVEN INTERACTIONS OF VISCOUS DROPS WITH DEFORMING INTERFACES. , 2002, , 252-252.		0
172	Secondary Membranes for Flux Optimization in Membrane Filtration of Biologic Suspensions. , 2004, , 417-432.		0