

# Robert Davis

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

169  
papers

7,251  
citations

43  
h-index

80  
g-index

174  
ext. papers

7,657  
ext. citations

4.8  
avg, IF

5.96  
L-index

#	Paper	IF	Citations
169	Effects of emulsifier concentration in a high-internal-phase, W/O emulsion binder on particle agglomeration. <i>Chemical Engineering Science</i> , <b>2022</b> , 248, 117098	4.4	0
168	Diffusion-limited osmotic swelling of droplets. <i>Physics of Fluids</i> , <b>2021</b> , 33, 117109	4.4	0
167	Gravitational collision efficiencies of small viscous drops at finite Stokes numbers and low Reynolds numbers. <i>International Journal of Multiphase Flow</i> , <b>2021</b> , 146, 103876	3.6	0
166	Water transport by osmosis through a high-internal-phase, water-in-oil emulsion. <i>Chemical Engineering Science</i> , <b>2021</b> , 232, 116348	4.4	6
165	Internal circulation and mixing within tight-squeezing deformable droplets. <i>Physical Review E</i> , <b>2021</b> , 103, 043106	2.4	0
164	Particle interactions with permeable drops in shear flow. <i>Powder Technology</i> , <b>2021</b> , 383, 410-417	5.2	1
163	Drop squeezing between arbitrary smooth obstacles. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 908,	3.7	2
162	Simulation of drop motion and breakup in narrow pores. <i>Chemical Engineering Science</i> , <b>2021</b> , 229, 116057.4	4.4	1
161	Modelling of particle capture by expanding droplets. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 912,	3.7	3
160	Algorithm for flow of highly-concentrated emulsions through a narrow constriction. <i>Journal of Computational Physics</i> , <b>2021</b> , 438, 110363	4.1	0
159	Boundary-integral study of a freely suspended drop in a T-shaped microchannel. <i>International Journal of Multiphase Flow</i> , <b>2020</b> , 130, 103379	3.6	4
158	Improving the faculty-student experience in chemical engineering. <i>AIChE Journal</i> , <b>2020</b> , 66, e16960	3.6	
157	Drops with insoluble surfactant squeezing through interparticle constrictions. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 878, 324-355	3.7	5
156	Microfiltration in Pharmaceuticals and Biotechnology <b>2019</b> , 29-67		6
155	Simultaneous and sequential collisions of three wetted spheres. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 881, 983-1009	3.7	2
154	Particle collection by permeable drops. <i>Physical Review Fluids</i> , <b>2018</b> , 3,	2.8	9
153	General rheology of highly concentrated emulsions with insoluble surfactant. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 816, 661-704	3.7	11

152	Motion of Deformable Drops Through Porous Media. <i>Annual Review of Fluid Mechanics</i> , <b>2017</b> , 49, 71-90	22	30
151	Extensional and shear flows, and general rheology of concentrated emulsions of deformable drops. <i>Journal of Fluid Mechanics</i> , <b>2015</b> , 779, 197-244	3.7	15
150	A generalized Oldroyd $\times$ model for non-Newtonian liquids with applications to a dilute emulsion of deformable drops. <i>Journal of Rheology</i> , <b>2014</b> , 58, 759-777	4.1	5
149	Growth of multiparticle aggregates in sedimenting suspensions. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 742, 577-617	3.7	4
148	Enhanced sediment flow in inclined settlers via surface modification or applied vibration for harvesting microalgae. <i>Algal Research</i> , <b>2013</b> , 2, 369-377	5	5
147	Emulsion flow through a packed bed with multiple drop breakup. <i>Journal of Fluid Mechanics</i> , <b>2013</b> , 725, 611-663	3.7	29
146	Fractionation of Organic Fuel Precursors from Electrolytes with Membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 10530-10539	3.9	5
145	Particle concentration using inclined sedimentation via sludge accumulation and removal for algae harvesting. <i>Chemical Engineering Science</i> , <b>2013</b> , 91, 79-85	4.4	22
144	Hydrodynamic separation of particles using pinched-flow fractionation. <i>AIChE Journal</i> , <b>2013</b> , 59, 3444-3457	3.5	11
143	Simulations of gravity-induced trapping of a deformable drop in a three-dimensional constriction. <i>Journal of Colloid and Interface Science</i> , <b>2012</b> , 383, 167-76	9.3	10
142	Sedimentation of algae flocculated using naturally-available, magnesium-based flocculants. <i>Algal Research</i> , <b>2012</b> , 1, 32-39	5	75
141	A moving-frame boundary-integral method for particle transport in microchannels of complex shape. <i>Physics of Fluids</i> , <b>2012</b> , 24, 043302	4.4	5
140	Mechanisms for agglomeration and deagglomeration following oblique collisions of wet particles. <i>Physical Review E</i> , <b>2012</b> , 86, 021303	2.4	15
139	Drop trapping in axisymmetric constrictions with arbitrary contact angle. <i>Physics of Fluids</i> , <b>2012</b> , 24, 062102	4.4	2
138	Agglomeration and de-agglomeration of rotating wet doublets. <i>Journal of Fluid Mechanics</i> , <b>2012</b> , 708, 128-148	3.7	14
137	Gravity-induced collisions of spherical drops covered with compressible surfactant. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 667, 369-402	3.7	6
136	Soft-lithography fabrication of microfluidic features using thiol-ene formulations. <i>Lab on A Chip</i> , <b>2011</b> , 11, 2772-8	7.2	54
135	Buoyancy-induced squeezing of a deformable drop through an axisymmetric ring constriction. <i>Physics of Fluids</i> , <b>2010</b> , 22, 082101	4.4	16

134	Empirical evaluation of inhibitory product, substrate, and enzyme effects during the enzymatic saccharification of lignocellulosic biomass. <i>Applied Biochemistry and Biotechnology</i> , <b>2010</b> , 161, 468-82	3.2	17
133	Creeping motion and pending breakup of drops and bubbles near an inclined wall. <i>Physics of Fluids</i> , <b>2009</b> , 21, 093303	4.4	4
132	Motion of deformable drops through granular media and other confined geometries. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 334, 113-23	9.3	10
131	Squeezing of a periodic emulsion through a cubic lattice of spheres. <i>Physics of Fluids</i> , <b>2008</b> , 20, 040803	4.4	14
130	Computational modeling and comparison of three co-laminar microfluidic mixing techniques. <i>Microfluidics and Nanofluidics</i> , <b>2008</b> , 5, 43-53	2.8	6
129	Algorithm for direct numerical simulation of emulsion flow through a granular material. <i>Journal of Computational Physics</i> , <b>2008</b> , 227, 7841-7888	4.1	23
128	Gravity-driven motion of a deformable drop or bubble near an inclined plane at low Reynolds number. <i>International Journal of Multiphase Flow</i> , <b>2008</b> , 34, 408-418	3.6	16
127	Low-Reynolds-number motion of a deformable drop between two parallel plane walls. <i>International Journal of Multiphase Flow</i> , <b>2007</b> , 33, 182-206	3.6	63
126	A water-activated pump for portable microfluidic applications. <i>Journal of Colloid and Interface Science</i> , <b>2007</b> , 305, 239-49	9.3	23
125	Collisions of spheres with wet and dry porous layers on a solid wall. <i>Chemical Engineering Science</i> , <b>2006</b> , 61, 417-427	4.4	17
124	A boundary-integral study of a drop squeezing through interparticle constrictions. <i>Journal of Fluid Mechanics</i> , <b>2006</b> , 564, 227	3.7	38
123	Dynamic simulation of spheroid motion between two parallel plane walls in low-Reynolds-number Poiseuille flow. <i>Journal of Fluid Mechanics</i> , <b>2006</b> , 553, 187	3.7	16
122	Low-Reynolds-number motion of a heavy sphere between two parallel plane walls. <i>Chemical Engineering Science</i> , <b>2006</b> , 61, 1932-1945	4.4	11
121	Surfactant effects on buoyancy-driven viscous interactions of deformable drops. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2006</b> , 282-283, 50-60	5.1	10
120	Elastohydrodynamic theory for wet oblique collisions. <i>Powder Technology</i> , <b>2006</b> , 168, 42-52	5.2	19
119	Deposition of foulant particles during tangential flow filtration. <i>Journal of Membrane Science</i> , <b>2006</b> , 271, 101-113	9.6	30
118	In situ fabrication of macroporous polymer networks within microfluidic devices by living radical photopolymerization and leaching. <i>Lab on A Chip</i> , <b>2005</b> , 5, 151-7	7.2	36
117	A multipole-accelerated algorithm for close interaction of slightly deformable drops. <i>Journal of Computational Physics</i> , <b>2005</b> , 207, 695-735	4.1	31

116	Particle transport in Poiseuille flow in narrow channels. <i>International Journal of Multiphase Flow</i> , <b>2005</b> , 31, 529-547	3.6	37
115	Low-velocity collisions of particles with a dry or wet wall. <i>Microgravity Science and Technology</i> , <b>2005</b> , 17, 18-25	1.6	20
114	Buoyancy-driven coalescence of spherical drops covered with incompressible surfactant at arbitrary Péclet number. <i>Journal of Colloid and Interface Science</i> , <b>2004</b> , 270, 205-20	9.3	14
113	Secondary membranes for flux optimization in membrane filtration of biologic suspensions. <i>Applied Biochemistry and Biotechnology</i> , <b>2004</b> , 113-116, 417-32	3.2	1
112	Cellulase retention and sugar removal by membrane ultrafiltration during lignocellulosic biomass hydrolysis. <i>Applied Biochemistry and Biotechnology</i> , <b>2004</b> , 113-116, 585-99	3.2	33
111	Electroosmotic flow in channels with step changes in zeta potential and cross section. <i>Journal of Colloid and Interface Science</i> , <b>2004</b> , 270, 242-6	9.3	27
110	Modeling and verification of fluid-responsive polymer pumps for microfluidic systems. <i>Chemical Engineering Science</i> , <b>2004</b> , 59, 5967-5974	4.4	20
109	Oblique collisions and rebound of spheres from a wetted surface. <i>Journal of Fluid Mechanics</i> , <b>2004</b> , 509, 63-81	3.7	40
108	Cellulase Retention and Sugar Removal by Membrane Ultrafiltration During Lignocellulosic Biomass Hydrolysis <b>2004</b> , 585-599		5
107	Secondary Membranes for Flux Optimization in Membrane Filtration of Biologic Suspensions <b>2004</b> , 417-432		
106	Solid-solid contacts due to surface roughness and their effects on suspension behaviour. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2003</b> , 361, 871-94	3	37
105	Simplified model for droplet growth in shear flow. <i>AIChE Journal</i> , <b>2003</b> , 49, 546-548	3.6	10
104	Interaction of sedimenting spheres with multiple surface roughness scales. <i>Journal of Fluid Mechanics</i> , <b>2003</b> , 492, 101-129	3.7	7
103	Yeast-Fouling Effects in Cross-Flow Microfiltration with Periodic Reverse Filtration. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2003</b> , 42, 130-139	3.9	25
102	Large-scale simulations of concentrated emulsion flows. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2003</b> , 361, 813-45	3	34
101	Motion of a particle between two parallel plane walls in low-Reynolds-number Poiseuille flow. <i>Physics of Fluids</i> , <b>2003</b> , 15, 1711	4.4	132
100	Yeast foulant removal by backpulses in crossflow microfiltration. <i>Journal of Membrane Science</i> , <b>2002</b> , 208, 389-404	9.6	28
99	Ellipsoidal model for deformable drops and application to non-Newtonian emulsion flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2002</b> , 102, 281-298	2.7	15

98	Motion of a sphere down a rough plane in a viscous fluid. <i>International Journal of Multiphase Flow</i> , <b>2002</b> , 28, 1787-1800	3.6	17
97	Direct observation of membrane cleaning via rapid backpulsing. <i>Desalination</i> , <b>2002</b> , 146, 135-140	10.3	27
96	Interaction of two touching spheres in a viscous fluid. <i>Chemical Engineering Science</i> , <b>2002</b> , 57, 1997-2006	4.4	20
95	Combined sedimentation and filtration process for cellulase recovery during hydrolysis of lignocellulosic biomass. <i>Applied Biochemistry and Biotechnology</i> , <b>2002</b> , 98-100, 1161-72	3.2	23
94	General Ellipsoidal Model for Deformable Drops in Viscous Flows. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2002</b> , 41, 6270-6278	3.9	11
93	Elastohydrodynamic rebound of spheres from coated surfaces. <i>Journal of Fluid Mechanics</i> , <b>2002</b> , 468, 107-119	3.7	84
92	Shear flow of highly concentrated emulsions of deformable drops by numerical simulations. <i>Journal of Fluid Mechanics</i> , <b>2002</b> , 455, 21-61	3.7	61
91	Shear stress of a monolayer of rough spheres. <i>Journal of Fluid Mechanics</i> , <b>2002</b> , 452, 425-441	3.7	48
90	Combined Sedimentation and Filtration Process for Cellulase Recovery During Hydrolysis of Lignocellulosic Biomass <b>2002</b> , 1161-1172		
89	BUOYANCY-DRIVEN INTERACTIONS OF VISCOUS DROPS WITH DEFORMING INTERFACES <b>2002</b> , 252-252		
88	Microfiltration of protein-cell mixtures with crossflushing or backflushing. <i>Journal of Membrane Science</i> , <b>2001</b> , 183, 1-14	9.6	45
87	Direct visual observation of yeast deposition and removal during microfiltration. <i>Journal of Membrane Science</i> , <b>2001</b> , 189, 217-230	9.6	64
86	Factors affecting membrane fouling reduction by surface modification and backpulsing. <i>Journal of Membrane Science</i> , <b>2001</b> , 189, 255-270	9.6	92
85	Cellulase recovery via membrane filtration. <i>Applied Biochemistry and Biotechnology</i> , <b>2001</b> , 91-93, 297-309	3.2	41
84	Droplet growth by coalescence in binary fluid mixtures. <i>Physical Review Letters</i> , <b>2001</b> , 87, 098304	7.4	34
83	The effect of slight deformation on droplet coalescence in linear flows. <i>Physics of Fluids</i> , <b>2001</b> , 13, 1178-1190	1.9	72
82	MEMBRANE SURFACE MODIFICATION AND BACKPULSING FOR WASTEWATER TREATMENT. <i>Separation Science and Technology</i> , <b>2001</b> , 36, 1557-1573	2.5	14
81	MICROFLOTATION OF FINE OIL DROPLETS BY SMALL AIR BUBBLES: EXPERIMENT AND THEORY. <i>Separation Science and Technology</i> , <b>2001</b> , 36, 1-15	2.5	5

80	Buoyancy-driven interactions of viscous drops with deforming interfaces. <i>Journal of Fluid Mechanics</i> , <b>2001</b> , 446, 253-269	3.7	15
79	Optimization of repeated-batch transcription for RNA production. <i>Biotechnology and Bioengineering</i> , <b>2000</b> , 69, 679-87	4.9	5
78	An Efficient Algorithm for Hydrodynamical Interaction of Many Deformable Drops. <i>Journal of Computational Physics</i> , <b>2000</b> , 157, 539-587	4.1	74
77	Infrasonic pulsing for foulant removal in crossflow microfiltration. <i>Journal of Membrane Science</i> , <b>2000</b> , 180, 157-169	9.6	7
76	Theoretical and experimental flux maximization by optimization of backpulsing. <i>Journal of Membrane Science</i> , <b>2000</b> , 165, 225-236	9.6	47
75	Microflotation of fine particles in the presence of a bulk-insoluble surfactant. <i>International Journal of Multiphase Flow</i> , <b>2000</b> , 26, 891-920	3.6	15
74	The viscosity of a dilute suspension of rough spheres. <i>Journal of Fluid Mechanics</i> , <b>2000</b> , 421, 339-367	3.7	59
73	A Novel Sequential Photoinduced Living Graft Polymerization. <i>Macromolecules</i> , <b>2000</b> , 33, 331-335	5.5	272
72	Microfiltration of protein mixtures and the effects of yeast on membrane fouling. <i>Journal of Membrane Science</i> , <b>1999</b> , 155, 113-122	9.6	89
71	Application of a fed-batch system to produce RNA by in vitro transcription. <i>Biotechnology Progress</i> , <b>1999</b> , 15, 174-84	2.8	11
70	Effects of added yeast on protein transmission and flux in cross-flow membrane microfiltration. <i>Biotechnology Progress</i> , <b>1999</b> , 15, 472-9	2.8	42
69	The flotation rates of fine spherical particles under Brownian and convective motion. <i>Chemical Engineering Science</i> , <b>1999</b> , 54, 149-157	4.4	18
68	Mass transfer to a surfactant-covered bubble or drop. <i>AIChE Journal</i> , <b>1999</b> , 45, 1355-1358	3.6	18
67	Modeling of repeated-batch transcription for production of RNA. <i>Journal of Biotechnology</i> , <b>1999</b> , 71, 25-37	3.7	3
66	Buoyancy-driven viscous interaction of a rising drop with a smaller trailing drop. <i>Physics of Fluids</i> , <b>1999</b> , 11, 1016-1028	4.4	38
65	Cusping, capture, and breakup of interacting drops by a curvatureless boundary-integral algorithm. <i>Journal of Fluid Mechanics</i> , <b>1999</b> , 391, 249-292	3.7	90
64	Flux enhancement for membrane filtration of bacterial suspensions using high-frequency backpulsing. <i>Biotechnology and Bioengineering</i> , <b>1998</b> , 60, 77-87	4.9	57
63	Application of cross-flow microfiltration with rapid backpulsing to wastewater treatment. <i>Journal of Hazardous Materials</i> , <b>1998</b> , 63, 179-197	12.8	27

62	Flux enhancement for membrane filtration of bacterial suspensions using high-frequency backpulsing <b>1998</b> , 60, 77		1
61	A novel boundary-integral algorithm for viscous interaction of deformable drops. <i>Physics of Fluids</i> , <b>1997</b> , 9, 1493-1511	4.4	149
60	Buoyancy-driven coalescence of slightly deformable drops. <i>Journal of Fluid Mechanics</i> , <b>1997</b> , 346, 117-148	3.7	81
59	Application of solution equilibrium analysis to in vitro RNA transcription. <i>Biotechnology Progress</i> , <b>1997</b> , 13, 747-56	2.8	18
58	Modeling and optimization of a batch process for in vitro RNA production. <i>Biotechnology and Bioengineering</i> , <b>1997</b> , 56, 210-20	4.9	11
57	Protein recovery from bacterial cell debris using crossflow microfiltration with backpulsing. <i>Journal of Membrane Science</i> , <b>1996</b> , 118, 259-268	9.6	56
56	Membrane fouling during microfiltration of protein mixtures. <i>Journal of Membrane Science</i> , <b>1996</b> , 119, 269-284	9.6	122
55	Classification of concentrated suspensions using inclined settlers. <i>International Journal of Multiphase Flow</i> , <b>1996</b> , 22, 563-574	3.6	23
54	Modeling of concentration polarization and depolarization with high-frequency backpulsing. <i>Journal of Membrane Science</i> , <b>1996</b> , 121, 229-242	9.6	72
53	The nature of particle contacts in sedimentation. <i>Physics of Fluids</i> , <b>1996</b> , 8, 1389-1396	4.4	38
52	Large-scale oligoribonucleotide production. <i>Current Opinion in Biotechnology</i> , <b>1995</b> , 6, 213-7	11.4	28
51	Collision rates of spherical drops or particles in a shear flow at arbitrary Péclet numbers. <i>Physics of Fluids</i> , <b>1995</b> , 7, 2310-2327	4.4	26
50	Simultaneous sedimentation and coalescence of a dilute dispersion of small drops. <i>Journal of Fluid Mechanics</i> , <b>1995</b> , 295, 247	3.7	26
49	Near-contact electrophoretic particle motion. <i>Journal of Fluid Mechanics</i> , <b>1995</b> , 288, 103-122	3.7	33
48	RNA transcription from immobilized DNA templates. <i>Biotechnology Progress</i> , <b>1995</b> , 11, 393-6	2.8	18
47	Cross-flow microfiltration with high-frequency reverse filtration. <i>AIChE Journal</i> , <b>1995</b> , 41, 501-508	3.6	101
46	Protein recovery from cell debris using rotary and tangential crossflow microfiltration. <i>Biotechnology and Bioengineering</i> , <b>1995</b> , 47, 155-64	4.9	29
45	Protein Fouling of Track-Etched Polycarbonate Microfiltration Membranes. <i>Journal of Colloid and Interface Science</i> , <b>1994</b> , 167, 104-116	9.3	197



44	Flotation rates of fine, spherical particles and droplets. <i>Chemical Engineering Science</i> , <b>1994</b> , 49, 3923-3944	4.4	24
43	Hindered settling function with no empirical parameters for polydisperse suspensions. <i>AIChE Journal</i> , <b>1994</b> , 40, 570-575	3.6	70
42	Yeast cake layers as secondary membranes in dead-end microfiltration of bovine serum albumin. <i>Journal of Membrane Science</i> , <b>1994</b> , 92, 247-256	9.6	41
41	The behavior of suspensions and macromolecular solutions in crossflow microfiltration. <i>Journal of Membrane Science</i> , <b>1994</b> , 96, 1-58	9.6	1050
40	Cell separations using targeted monoclonal antibodies against overproduced surface proteins. <i>Applied Biochemistry and Biotechnology</i> , <b>1994</b> , 45-46, 233-44	3.2	3
39	Gravity-induced coalescence of drops at arbitrary Péclet numbers. <i>Journal of Fluid Mechanics</i> , <b>1994</b> , 280, 119-148	3.7	28
38	The collision rate of small drops in linear flow fields. <i>Journal of Fluid Mechanics</i> , <b>1994</b> , 265, 161-188	3.7	97
37	Near-contact thermocapillary motion of two non-conducting drops. <i>Journal of Fluid Mechanics</i> , <b>1993</b> , 256, 107-131	3.7	14
36	Experimental study of two interacting drops in an immiscible fluid. <i>Journal of Fluid Mechanics</i> , <b>1993</b> , 249, 227	3.7	15
35	Collective effects of temperature gradients and gravity on droplet coalescence. <i>Physics of Fluids A, Fluid Dynamics</i> , <b>1993</b> , 5, 1602-1613		14
34	Separation and classification of axisymmetric particles in an inclined settler. <i>International Journal of Multiphase Flow</i> , <b>1993</b> , 19, 803-816	3.6	4
33	Crossflow microfiltration of yeast suspensions in tubular filters. <i>Biotechnology Progress</i> , <b>1993</b> , 9, 625-34	2.8	48
32	Microhydrodynamics of particulate. <i>Advances in Colloid and Interface Science</i> , <b>1993</b> , 43, 17-50	14.3	18
31	Effects of surface roughness on a sphere sedimenting through a dilute suspension of neutrally buoyant spheres. <i>Physics of Fluids A, Fluid Dynamics</i> , <b>1992</b> , 4, 2607-2619		47
30	Modeling of Fouling of Crossflow Microfiltration Membranes. <i>Separation and Purification Reviews</i> , <b>1992</b> , 21, 75-126		145
29	Hydrodynamic diffusion of a sphere sedimenting through a dilute suspension of neutrally buoyant spheres. <i>Journal of Fluid Mechanics</i> , <b>1992</b> , 236, 513-533	3.7	29
28	Electrokinetic isolation of vesicles and ribosomes derived from <i>Serratia marcescens</i> . <i>Biotechnology Progress</i> , <b>1992</b> , 8, 429-35	2.8	7
27	An adjustable expression system for controlling growth rate, plasmid maintenance, and culture dynamics. <i>Biotechnology and Bioengineering</i> , <b>1992</b> , 40, 1027-38	4.9	7

26	Experimental verification of the shear-induced hydrodynamic diffusion model of crossflow microfiltration. <i>Journal of Membrane Science</i> , <b>1991</b> , 62, 249-273	9.6	78
25	Cell Separations Using Differential Sedimentation in Inclined Settlers. <i>ACS Symposium Series</i> , <b>1991</b> , 113-127	12.7	5
24	Dynamics of induced CAT expression in E. coli. <i>Biotechnology and Bioengineering</i> , <b>1991</b> , 38, 749-60	4.9	58
23	Close approach and deformation of two viscous drops due to gravity and van der waals forces. <i>Journal of Colloid and Interface Science</i> , <b>1991</b> , 144, 412-433	9.3	127
22	Sedimentation of axisymmetric particles in shear flows. <i>Physics of Fluids A, Fluid Dynamics</i> , <b>1991</b> , 3, 2051-2060		15
21	The rate of collisions due to Brownian or gravitational motion of small drops. <i>Journal of Fluid Mechanics</i> , <b>1991</b> , 230, 479-504	3.7	131
20	The Effects of van der Waals Attractions on Cloud Droplet Growth by Coalescence. <i>Journals of the Atmospheric Sciences</i> , <b>1990</b> , 47, 1075-1080	2.1	14
19	Continuous recombinant bacterial fermentations utilizing selective flocculation and recycle. <i>Biotechnology Progress</i> , <b>1990</b> , 6, 7-12	2.8	22
18	Optimal chemostat cascades for periplasmic protein production. <i>Biotechnology Progress</i> , <b>1990</b> , 6, 430-6	2.8	1
17	Inclined sedimentation for selective retention of viable hybridomas in a continuous suspension bioreactor. <i>Biotechnology Progress</i> , <b>1990</b> , 6, 458-64	2.8	90
16	EXPERIMENTAL DETERMINATION OF THE PERMEABILITY AND RELATIVE VISCOSITY FOR FINE LATEXES AND YEAST SUSPENSIONS. <i>Chemical Engineering Communications</i> , <b>1990</b> , 91, 11-28	2.2	11
15	On the buoyancy-driven motion of a drop towards a rigid surface or a deformable interface. <i>Journal of Fluid Mechanics</i> , <b>1990</b> , 217, 547-573	3.7	165
14	The lubrication force between two viscous drops. <i>Physics of Fluids A, Fluid Dynamics</i> , <b>1989</b> , 1, 77-81		182
13	Competitive yeast fermentation with selective flocculation and recycle. <i>Biotechnology and Bioengineering</i> , <b>1989</b> , 33, 767-76	4.9	13
12	The lubrication force between spherical drops, bubbles and rigid particles in a viscous fluid. <i>International Journal of Multiphase Flow</i> , <b>1989</b> , 15, 627-638	3.6	35
11	The influence of pressure-dependent density and viscosity on the elasto-hydrodynamic collision and rebound of two spheres. <i>Journal of Fluid Mechanics</i> , <b>1989</b> , 209, 501-519	3.7	38
10	Particle classification for dilute suspensions using an inclined settler. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1989</b> , 28, 785-793	3.9	36
9	Spreading of the interface at the top of a slightly polydisperse sedimenting suspension. <i>Journal of Fluid Mechanics</i> , <b>1988</b> , 196, 107-134	3.7	99

8	Elastohydrodynamic collision and rebound of spheres: Experimental verification. <i>Physics of Fluids</i> , <b>1988</b> , 31, 1324		129
7	HYDRODYNAMIC MODEL AND EXPERIMENTS FOR CROSSFLOW MICROFILTRATION. <i>Chemical Engineering Communications</i> , <b>1987</b> , 49, 217-234	2.2	61
6	Modeling and measurement of yeast flocculation. <i>Biotechnology Progress</i> , <b>1986</b> , 2, 91-7	2.8	40
5	The elastohydrodynamic collision of two spheres. <i>Journal of Fluid Mechanics</i> , <b>1986</b> , 163, 479-497	3.7	280
4	The rate of coagulation of a dilute polydisperse system of sedimenting spheres. <i>Journal of Fluid Mechanics</i> , <b>1984</b> , 145, 179	3.7	82
3	Wave formation and growth during sedimentation in narrow tilted channels. <i>Physics of Fluids</i> , <b>1983</b> , 26, 2055		17
2	The sedimentation of polydisperse suspensions in vessels having inclined walls. <i>International Journal of Multiphase Flow</i> , <b>1982</b> , 8, 571-585	3.6	35
1	Direct Visual Observation of Microfiltration Membrane Fouling and Cleaning9-32		