

John L Anderson

List of Publications by Year in descending order

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66
papers

3,641
citations

117625

34
h-index

128289

60
g-index

66
all docs

66
docs citations

66
times ranked

2051
citing authors

#	ARTICLE	IF	CITATIONS
1	Restricted Transport in Small Pores. <i>Biophysical Journal</i> , 1974, 14, 130-150.	0.5	371
2	Particle Clustering and Pattern Formation during Electrophoretic Deposition: A Hydrodynamic Model. <i>Langmuir</i> , 1997, 13, 6058-6068.	3.5	236
3	Mechanism of Osmotic Flow in Porous Membranes. <i>Biophysical Journal</i> , 1974, 14, 957-982.	0.5	180
4	Effect of nonuniform zeta potential on particle movement in electric fields. <i>Journal of Colloid and Interface Science</i> , 1985, 105, 45-54.	9.4	164
5	Diffusiophoresis of latex particles in electrolyte gradients. <i>Langmuir</i> , 1988, 4, 396-406.	3.5	158
6	ELECTROOSMOSIS THROUGH PORES WITH NONUNIFORMLY CHARGED WALLS. <i>Chemical Engineering Communications</i> , 1985, 38, 93-106.	2.6	154
7	Diffusiophoresis: Migration of Colloidal Particles in Gradients of Solute Concentration. <i>Separation and Purification Reviews</i> , 1984, 13, 67-103.	0.8	115
8	Particle diffusion as a function of concentration and ionic strength. <i>The Journal of Physical Chemistry</i> , 1978, 82, 608-616.	2.9	114
9	Rejection of polyelectrolytes from microporous membranes. <i>Journal of Membrane Science</i> , 1979, 5, 77-102.	8.2	106
10	Hindered diffusion of particles through small pores. <i>Chemical Engineering Science</i> , 1978, 33, 1429-1440.	3.8	96
11	Diffusion of spherical macromolecules at finite concentration. <i>Journal of Chemical Physics</i> , 1976, 64, 3240.	3.0	92
12	Hindered settling of a suspension at low Reynolds number. <i>AIChE Journal</i> , 1980, 26, 816-827.	3.6	79
13	Droplet interactions in thermocapillary motion. <i>International Journal of Multiphase Flow</i> , 1985, 11, 813-824.	3.4	79
14	Electrophoresis of slender particles. <i>Journal of Fluid Mechanics</i> , 1994, 279, 197-215.	3.4	79
15	Aggregation Dynamics for Two Particles during Electrophoretic Deposition under Steady Fields. <i>Langmuir</i> , 2000, 16, 9208-9216.	3.5	78
16	Electroosmosis and electrolyte conductance in charged microcapillaries. <i>AIChE Journal</i> , 1975, 21, 1176-1188.	3.6	75
17	Hydrodynamic Permeability of Hydrogels Stabilized within Porous Membranes. <i>Industrial & Engineering Chemistry Research</i> , 1996, 35, 3179-3185.	3.7	72
18	Polarization Effects on Diffusiophoresis in Electrolyte Gradients. <i>Journal of Colloid and Interface Science</i> , 1993, 155, 488-498.	9.4	69

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19	Transport Mechanisms of Biological Colloids. <i>Annals of the New York Academy of Sciences</i> , 1986, 469, 166-177.	3.8	68
20	Movement of a semipermeable vesicle through an osmotic gradient. <i>Physics of Fluids</i> , 1983, 26, 2871.	1.4	64
21	Diffusional boundary-layer resistance for membranes with low porosity. <i>AIChE Journal</i> , 1977, 23, 177-184.	3.6	63
22	Configurational effect on the reflection coefficient for rigid solutes in capillary pores. <i>Journal of Theoretical Biology</i> , 1981, 90, 405-426.	1.7	60
23	Transport of proteins through gel-filled porous membranes. <i>Journal of Membrane Science</i> , 1997, 131, 143-153.	8.2	57
24	Diffusion of Insulin-Like Growth Factor-I and Ribonuclease through Fibrin Gels. <i>Biophysical Journal</i> , 2007, 92, 4444-4450.	0.5	55
25	Electrokinetic parameters for capillaries of different geometries. <i>Journal of Colloid and Interface Science</i> , 1977, 59, 149-158.	9.4	50
26	Determining the Forces between Polystyrene Latex Spheres Using Differential Electrophoresis. <i>Langmuir</i> , 1996, 12, 4103-4110.	3.5	43
27	Thermocapillary Phenomena and Bubble Coalescence during Electrolytic Gas Evolution. <i>Journal of the Electrochemical Society</i> , 1998, 145, 1848-1855.	2.9	43
28	Rotation of a sphere in Brinkman fluids. <i>Physics of Fluids</i> , 1996, 8, 1119-1121.	4.0	42
29	Aggregation of pairs of particles on electrodes during electrophoretic deposition. <i>Powder Technology</i> , 2000, 110, 90-97.	4.2	42
30	Concentration dependence of the distribution coefficient for macromolecules in porous media. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1981, 19, 405-421.	1.0	41
31	Electrophoretic Mobility of Nonuniformly Charged Spherical Particles with Polarization of the Double Layer. <i>Journal of Colloid and Interface Science</i> , 1993, 158, 1-9.	9.4	41
32	Hydrodynamic studies of adsorbed diblock copolymers in porous membranes. <i>Macromolecules</i> , 1990, 23, 1026-1034.	4.8	37
33	Concentration dependence of electrophoretic mobility. <i>Journal of Colloid and Interface Science</i> , 1981, 82, 248-250.	9.4	34
34	Electrophoresis of heterogeneous colloids: doublets of dissimilar particles. <i>Langmuir</i> , 1992, 8, 2850-2854.	3.5	34
35	Probing the Structure of Colloidal Doublets by Electrophoretic Rotation. <i>Langmuir</i> , 1996, 12, 675-685.	3.5	34
36	Hindered transport through micropores with adsorbed polyelectrolytes. <i>Journal of Membrane Science</i> , 1989, 47, 163-182.	8.2	32

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37	Effects of Zeta Potential and Electrolyte on Particle Interactions on an Electrode under ac Polarization. Langmuir, 2002, 18, 5387-5391.	3.5	31
38	Pore size effects on diffusion of polystyrene in dilute solution. Industrial & Engineering Chemistry Research, 1988, 27, 866-871.	3.7	30
39	Model for hydrodynamic thickness of thin polymer layers at solid/liquid interfaces. Langmuir, 1991, 7, 162-166.	3.5	30
40	Two-particle dynamics on an electrode in ac electric fields. Advances in Colloid and Interface Science, 2002, 96, 131-142.	14.7	30
41	Ionic Conduction and Electrode Polarization in a Doped Nonpolar Liquid. Langmuir, 2005, 21, 8620-8629.	3.5	29
42	Movement of Colloidal Particles in Two-Dimensional Electric Fields. Langmuir, 2005, 21, 10941-10947.	3.5	28
43	Fluid dynamical effects of polymers adsorbed to spherical particles. Journal of Chemical Physics, 1987, 86, 5163-5173.	3.0	26
44	Diffusion and flow through polymer-lined micropores. Industrial & Engineering Chemistry Research, 1991, 30, 1008-1016.	3.7	25
45	Electrophoretic Motion of Two Spherical Particles with Thick Double Layers. Journal of Colloid and Interface Science, 1997, 191, 357-371.	9.4	25
46	HYDRODYNAMIC EFFECTS OF SURFACE LAYERS ON COLLOIDAL PARTICLES. Chemical Engineering Communications, 1996, 148-150, 291-314.	2.6	23
47	Thermocapillary Flow and Aggregation of Bubbles on a Solid Wall. Journal of Colloid and Interface Science, 2000, 232, 111-120.	9.4	22
48	Solvent Effects on the Permeability of Membrane-Supported Gels. Industrial & Engineering Chemistry Research, 2002, 41, 464-472.	3.7	21
49	Measuring Colloidal Forces Using Differential Electrophoresis. Langmuir, 2000, 16, 3372-3384.	3.5	20
50	The Relationship between Particle Size and Signal in Coulter-Type Counters. Review of Scientific Instruments, 1971, 42, 1257-1258.	1.3	19
51	Effects of Adsorbing-Block Molecular Weight on the Thickness of Adsorbed Diblock Copolymers. Langmuir, 1994, 10, 3156-3160.	3.5	18
52	Thermal Expansion and Contraction of Adsorbed Diblock Copolymers near θ Conditions. Langmuir, 1996, 12, 1040-1046.	3.5	17
53	Conduction in the small gap between two spheres. Physics of Fluids, 1997, 9, 1209-1217.	4.0	16
54	Configurational effects on polystyrene rejection from microporous membranes. Journal of Polymer Science, Part B: Polymer Physics, 1987, 25, 765-775.	2.1	13

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55	Interactions between two bubbles on a hot or cold wall. <i>Journal of Colloid and Interface Science</i> , 2004, 276, 239-247.	9.4	10
56	Effect of Solvated Block Size on the Layer Thickness of Copolymers Adsorbed to Liquid/Solid Interfaces. <i>Langmuir</i> , 1994, 10, 1539-1543.	3.5	9
57	Reply to the Comments by S. Alpert and G. Phillies on "Diffusion of spherical macromolecules at finite concentration". <i>Journal of Chemical Physics</i> , 1976, 65, 4336-4337.	3.0	8
58	STABLE CONCENTRATION GRADIENTS IN A VERTICAL TUBE. <i>Chemical Engineering Communications</i> , 1982, 18, 93-96.	2.6	8
59	Concentration effects on distribution of macromolecules in small pores. <i>Advances in Colloid and Interface Science</i> , 1982, 16, 391-401.	14.7	5
60	CHEMICALLY INDUCED MIGRATION OF PARTICLES ACROSS FLUID STREAMLINES. <i>Chemical Engineering Communications</i> , 1987, 55, 211-224.	2.6	5
61	Effects of adsorbed homopolymer and diblock copolymer on molecular transport in micropores. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1994, 86, 263-274.	4.7	5
62	Diffusion of neutral molecules in charged pores. <i>Journal of Colloid and Interface Science</i> , 1978, 64, 57-67.	9.4	4
63	Electrokinetic transport of colloidal particles with heterogeneous surfaces. <i>Journal of Electrostatics</i> , 1995, 34, 189-203.	1.9	3
64	Electrophoretic rotation of doublets composed of two spheres almost in contact. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1998, 140, 59-74.	4.7	3
65	Electrophoresis of Nonuniformly Charged Chains. <i>ACS Symposium Series</i> , 1993, , 67-85.	0.5	1
66	SOLUTE CONCENTRATION EFFECTS ON MEMBRANE TRANSPORT COEFFICIENTS. <i>Annals of the New York Academy of Sciences</i> , 1983, 404, 52-53.	3.8	0