

Elias I Franses

List of Publications by Year in descending order

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83
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3,410
citations

172457

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docs citations

83
times ranked

2992
citing authors

#	ARTICLE	IF	CITATIONS
1	Relationship of Various Interfacial Tensions of Surfactants/Brine/Oil Formulations to Oil Recovery Efficiency. <i>Energy & Fuels</i> , 2021, 35, 7768-7777.	5.1	3
2	Effects of the Method of Preparation and Dispersion Media on the Optical Properties and Particle Sizes of Aqueous Dispersions of a Double-Chain Cationic Surfactant. <i>Langmuir</i> , 2021, 37, 8290-8304.	3.5	2
3	Rayleigh and Rayleigh-Debye-Gans light scattering intensities and spectroturbidimetry of dispersions of unilamellar vesicles and multilamellar liposomes. <i>Journal of Colloid and Interface Science</i> , 2020, 578, 471-483.	9.4	9
4	Accurate Determination of the Equilibrium Surface Tension Values with Area Perturbation Tests. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	1
5	Effects of Light Dispersed Particles on the Stability of Dense Suspended Particles Against Sedimentation. <i>Journal of Physical Chemistry B</i> , 2019, 123, 922-935.	2.6	5
6	Surface tension behavior of aqueous solutions of a propoxylated surfactant and interfacial tension behavior against a crude oil. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 537, 163-172.	4.7	17
7	A New "Quasi-Dynamic" Method for Determining the Hamaker Constant of Solids Using an Atomic Force Microscope. <i>Langmuir</i> , 2017, 33, 714-725.	3.5	12
8	Effect of Interparticle Interactions on Agglomeration and Sedimentation Rates of Colloidal Silica Microspheres. <i>Langmuir</i> , 2016, 32, 5111-5123.	3.5	22
9	Non-ideal diffusion effects, short-range ordering, and unsteady-state effects strongly influence Brownian aggregation rates in concentrated dispersions of interacting spheres. <i>Journal of Chemical Physics</i> , 2015, 143, 074706.	3.0	3
10	Use of Close-Packed Vesicular Dispersions to Stabilize Colloidal Particle Dispersions against Sedimentation. <i>Langmuir</i> , 2015, 31, 8802-8808.	3.5	10
11	Effect of sodium dodecylsulfate monomers and micelles on the stability of aqueous dispersions of titanium dioxide pigment nanoparticles against agglomeration and sedimentation. <i>Journal of Colloid and Interface Science</i> , 2015, 450, 434-445.	9.4	38
12	Effect of alcohol aggregation on the retention factors of chiral solutes with an amylose-based sorbent: Modeling and implications for the adsorption mechanism. <i>Journal of Chromatography A</i> , 2014, 1328, 52-65.	3.7	15
13	Insights into chromatographic enantiomeric separation of allenes on cellulose carbamate stationary phase. <i>Journal of Chromatography A</i> , 2014, 1362, 119-128.	3.7	28
14	Retention models and interaction mechanisms of acetone and other carbonyl-containing molecules with amylose tris[(S)-1-methylbenzylcarbamate] sorbent. <i>Journal of Chromatography A</i> , 2013, 1279, 36-48.	3.7	19
15	Chiral Recognition Mechanism of Acyloin-Containing Chiral Solutes by Amylose Tris[(S)-1-methylbenzylcarbamate]. <i>Journal of Physical Chemistry B</i> , 2013, 117, 9203-9216.	2.6	22
16	Mechanistic Studies of Chiral Discrimination in Polysaccharide Phases. <i>Advances in Chromatography</i> , 2012, 50, 47-91.	1.0	3
17	Infrared Spectroscopy and Molecular Simulations of a Polymeric Sorbent and Its Enantioselective Interactions with Benzoin Enantiomers. <i>Journal of Physical Chemistry B</i> , 2011, 115, 12785-12800.	2.6	28
18	Adsorption of Myrj 45 on copper phthalocyanine pigment nanoparticles and effect on their dispersion stability in aqueous solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 390, 74-85.	4.7	9

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19	Experimental and computational studies of enantioseparation of structurally similar chiral compounds on amylose tris(3,5-dimethylphenylcarbamate). <i>Chirality</i> , 2010, 22, 565-579.	2.6	34
20	Effect of a PEGylated Lipid on the Dispersion Stability and Dynamic Surface Tension of Aqueous DPPC and on the Interactions with Albumin. <i>Langmuir</i> , 2010, 26, 6932-6942.	3.5	13
21	Surface tension and adsorption behavior of mixtures of diacyl glycerol arginine-based surfactants with DPPC and DMPC phospholipids. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 74, 67-74.	5.0	10
22	Effect of buffer composition and preparation protocol on the dispersion stability and interfacial behavior of aqueous DPPC dispersions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 67, 253-260.	5.0	11
23	Experimental probing and modeling of key sorbent-solute interactions of norephedrine enantiomers with polysaccharide-based chiral stationary phases. <i>Journal of Chromatography A</i> , 2008, 1190, 110-119.	3.7	61
24	Effects of Backbone and Side Chain on the Molecular Environments of Chiral Cavities in Polysaccharide-Based Biopolymers. <i>Biomacromolecules</i> , 2007, 8, 1676-1685.	5.4	85
25	Effect of sonication and freezing-thawing on the aggregate size and dynamic surface tension of aqueous DPPC dispersions. <i>Journal of Colloid and Interface Science</i> , 2007, 311, 217-227.	9.4	28
26	Direct Probing of Sorbent-Solvent Interactions for Amylose Tris(3,5-dimethylphenylcarbamate) Using Infrared Spectroscopy, X-ray Diffraction, Solid-state NMR, and DFT Modeling. <i>Journal of Physical Chemistry B</i> , 2006, 110, 14114-14122.	2.6	66
27	Effects of dynamic surface tension and fluid flow on the oscillations of a supported bubble. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 282-283, 183-202.	4.7	18
28	Competitive adsorption of fibrinogen and dipalmitoylphosphatidylcholine at the air/aqueous interface. <i>Journal of Colloid and Interface Science</i> , 2006, 295, 84-92.	9.4	29
29	Interpretation of chromatographic retentions of simple solutes with an amylose-based sorbent using infrared spectroscopy and DFT modeling. <i>Adsorption</i> , 2006, 12, 405-416.	3.0	21
30	Deformation and breakup of a stretching liquid bridge covered with an insoluble surfactant monolayer. <i>Physics of Fluids</i> , 2006, 18, 022101.	4.0	71
31	Self-aggregation in dimeric arginine-based cationic surfactants solutions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 255, 73-78.	4.7	23
32	Adsorption of bovine serum albumin at solid/aqueous interfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 260, 265-275.	4.7	116
33	New protocols for preparing dipalmitoylphosphatidylcholine dispersions and controlling surface tension and competitive adsorption with albumin at the air/aqueous interface. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005, 43, 256-266.	5.0	38
34	Expulsion of bovine serum albumin from the air/water interface by a sparingly soluble lecithin lipid. <i>Journal of Colloid and Interface Science</i> , 2004, 275, 477-487.	9.4	17
35	Hydrodynamic effects on the oscillations of supported bubbles: implications for accurate measurements of surface properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 250, 367-384.	4.7	13
36	Dynamic Adsorption and Surface Tension of Aqueous Dilauroylphosphatidylcholine Dispersions under Physiological Conditions. <i>Langmuir</i> , 2004, 20, 4004-4010.	3.5	13

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37	Micellar dissolution and diffusion effects on adsorption dynamics of surfactants. <i>AIChE Journal</i> , 2003, 49, 3229-3240.	3.6	17
38	Computation of dynamic adsorption with adaptive integral, finite difference, and finite element methods. <i>Journal of Colloid and Interface Science</i> , 2003, 258, 310-321.	9.4	11
39	New thermodynamic/electrostatic models of adsorption and tension equilibria of aqueous ionic surfactant mixtures: application to sodium dodecyl sulfate/sodium dodecyl sulfonate systems. <i>Journal of Colloid and Interface Science</i> , 2003, 263, 606-615.	9.4	17
40	Adsorption and surface tension of fibrinogen at the air/water interface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 214, 249-262.	4.7	26
41	Effect of concentration and denaturation on adsorption and surface tension of bovine serum albumin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2003, 28, 63-75.	5.0	126
42	Exclusion of bovine serum albumin from the air/water interface by sodium myristate. <i>Colloids and Surfaces B: Biointerfaces</i> , 2003, 30, 1-11.	5.0	28
43	Ultrathin PMMA films spin-coated from toluene solutions. <i>Thin Solid Films</i> , 2003, 429, 71-76.	1.8	111
44	Comparison of DLPC and DPPC in Controlling the Dynamic Adsorption and Surface Tension of Their Aqueous Dispersions. <i>Langmuir</i> , 2002, 18, 8888-8896.	3.5	36
45	Infrared Reflection Absorption Spectroscopy (IRRAS) of Aqueous Nonsurfactant Salts, Ionic Surfactants, and Mixed Ionic Surfactants. <i>Langmuir</i> , 2002, 18, 9234-9242.	3.5	41
46	Adsorption and Direct Probing of Fibrinogen and Sodium Myristate at the Air/Water Interface. <i>Journal of Colloid and Interface Science</i> , 2002, 250, 271-280.	9.4	20
47	Role of Subsurface Particulates on the Dynamic Adsorption of Dipalmitoylphosphatidylcholine at the Air/Water Interface. <i>Langmuir</i> , 2001, 17, 3194-3201.	3.5	34
48	Adsorption and surface tension of ionic surfactants at the air-water interface: review and evaluation of equilibrium models. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 178, 1-40.	4.7	325
49	Relation of foam stability to solution and surface properties of gemini cationic surfactants derived from arginine. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 189, 225-235.	4.7	59
50	Adsorption of bovine serum albumin at the air/water interface and its effect on the formation of DPPC surface film. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 190, 319-332.	4.7	32
51	Ellipsometry and Infrared Reflection Absorption Spectroscopy of Adsorbed Layers of Soluble Surfactants at the Air-Water Interface. <i>Journal of Colloid and Interface Science</i> , 2001, 233, 295-305.	9.4	23
52	Modeling of Equilibrium Adsorption and Surface Tension of Cationic Gemini Surfactants. <i>Journal of Colloid and Interface Science</i> , 2001, 240, 590-600.	9.4	8
53	Effect of Protonation on the Solution and Phase Behavior of Aqueous Sodium Myristate. <i>Journal of Colloid and Interface Science</i> , 2000, 231, 42-51.	9.4	38
54	Surface Densities of Adsorbed Layers of Aqueous Sodium Myristate Inferred from Surface Tension and Infrared Reflection Absorption Spectroscopy. <i>Langmuir</i> , 2000, 16, 6987-6994.	3.5	54

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55	Thickness and quality of spin-coated polymer films by two-angle ellipsometry. <i>Thin Solid Films</i> , 1999, 347, 167-177.	1.8	22
56	Dynamic tension and adsorption behavior of aqueous lung surfactants. <i>Colloids and Surfaces B: Biointerfaces</i> , 1999, 15, 325-338.	5.0	18
57	Aggregation Behavior in Water of Monomeric and Gemini Cationic Surfactants Derived from Arginine. <i>Langmuir</i> , 1999, 15, 3134-3142.	3.5	113
58	Effect of Dispersed Tetradecanol Particles or Droplets on the Dynamic Surface Tension of Aqueous Tetradecanol Systems. <i>Langmuir</i> , 1999, 15, 1556-1561.	3.5	6
59	Unusually low dynamic surface tensions of aqueous solutions of sodium myristate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1998, 143, 371-380.	4.7	17
60	Dynamic adsorption and tension of nonionic binary surfactant mixtures. <i>AIChE Journal</i> , 1997, 43, 1569-1578.	3.6	17
61	Adsorption Dynamics of Native and Pentylated Bovine Serum Albumin at Air/Water Interfaces: Surface Concentration/ Surface Pressure Measurements. <i>Journal of Colloid and Interface Science</i> , 1997, 191, 312-325.	9.4	71
62	Surface Tension and Adsorption Synergism for Solutions of Binary Surfactants. <i>Industrial & Engineering Chemistry Research</i> , 1996, 35, 3223-3232.	3.7	23
63	Equilibrium Adsorption and Tension of Binary Surfactant Mixtures at the Air/Water Interface. <i>Langmuir</i> , 1996, 12, 354-362.	3.5	39
64	Adsorption Dynamics of Native and Alkylated Derivatives of Bovine Serum Albumin at Air/Water Interfaces. <i>Journal of Colloid and Interface Science</i> , 1996, 178, 348-357.	9.4	44
65	Equilibrium and dynamic surface tension behavior of aqueous soaps: sodium octanoate and sodium dodecanoate (sodium laurate). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996, 108, 225-242.	4.7	28
66	Surface tension measurements with the pulsating bubble method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996, 114, 185-197.	4.7	34
67	Effect of diffusional losses on the formation of monolayers of soluble proteins at air/water interfaces with Trurnit's method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996, 117, 45-54.	4.7	11
68	Techniques to measure dynamic surface tension. <i>Current Opinion in Colloid and Interface Science</i> , 1996, 1, 296-303.	7.4	82
69	Microstructure and water transport in spin cast films of poly(hexylmethacrylate) T_j ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50.182 Td (1.8	10
70	Adsorption dynamics of surfactants at the air/water interface: a critical review of mathematical models, data, and mechanisms. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1995, 100, 1-45.	4.7	630
71	Dynamic tension behavior of aqueous octanol solutions under constant-area and pulsating-area conditions. <i>Chemical Engineering Science</i> , 1994, 49, 313-325.	3.8	77
72	Ion adsorption and ion exchange in ultrathin films of fatty acids. <i>AIChE Journal</i> , 1994, 40, 1046-1054.	3.6	12

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73	Spectroturbidimetry theory for determining orientation distributions of spheroidal particles in the Rayleigh-Debye-Gans and Rayleigh scattering regimes. <i>Journal of Chemical Physics</i> , 1994, 100, 2422-2428.	3.0	2
74	FTIR ATR analysis for microstructure and water uptake in poly(methyl methacrylate) spin cast and Langmuir-Blodgett thin films. <i>Macromolecules</i> , 1994, 27, 7316-7328.	4.8	86
75	Dynamic surface tension behavior of hexadecanol spread and adsorbed monolayers. <i>Langmuir</i> , 1993, 9, 3640-3648.	3.5	24
76	Theory and measurements of orientation distributions of spheroidal particles by Rayleigh-Debye-Gans light scattering. <i>Journal of Chemical Physics</i> , 1993, 98, 3600-3611.	3.0	4
77	Compositions of Langmuir Monolayers and Langmuir-Blodgett Films with Mixed Counterions. <i>ACS Symposium Series</i> , 1992, , 342-353.	0.5	1
78	Interactions of charged Langmuir monolayers with dissolved ions. <i>Journal of Chemical Physics</i> , 1991, 95, 8486-8493.	3.0	36
79	Light scattering theory from monodisperse spheroidal particles in the Rayleigh-Debye-Gans regime. <i>Journal of Chemical Physics</i> , 1990, 92, 140-156.	3.0	10
80	New Mathematical Models of Mixed Micellization. <i>ACS Symposium Series</i> , 1986, , 44-60.	0.5	8
81	Light scattering theory from dispersions of nonspherical Rayleigh particles. <i>Journal of Chemical Physics</i> , 1985, 83, 1531-1545.	3.0	7
82	A systematic procedure for estimating the orientation distribution for nonspherical Rayleigh particles. <i>Journal of Chemical Physics</i> , 1985, 83, 6371-6384.	3.0	4
83	Thermodynamics of mixed micellization. Pseudo-phase separation models. <i>Industrial & Engineering Chemistry Fundamentals</i> , 1983, 22, 230-239.	0.7	55