

# Elias I Franses

## List of Publications by Year in descending order

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83  
papers

3,410  
citations

172457

29  
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144013

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83  
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83  
docs citations

83  
times ranked

2992  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	Aggregation Behavior in Water of Monomeric and Gemini Cationic Surfactants Derived from Arginine. <i>Langmuir</i> , 1999, 15, 3134-3142.	3.5	113
6	Ultrathin PMMA films spin-coated from toluene solutions. <i>Thin Solid Films</i> , 2003, 429, 71-76.	1.8	111
7	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
8	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
9	Techniques to measure dynamic surface tension. <i>Current Opinion in Colloid and Interface Science</i> , 1996, 1, 296-303.	7.4	82
10	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
11	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
12	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
13	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
14	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
15	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
16	Thermodynamics of mixed micellization. Pseudo-phase separation models. <i>Industrial &amp; Engineering Chemistry Fundamentals</i> , 1983, 22, 230-239.	0.7	55
17	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
18	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

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19	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
20	Equilibrium Adsorption and Tension of Binary Surfactant Mixtures at the Air/Water Interface. <i>Langmuir</i> , 1996, 12, 354-362.	3.5	39
21	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
22	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
23	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
24	Interactions of charged Langmuir monolayers with dissolved ions. <i>Journal of Chemical Physics</i> , 1991, 95, 8486-8493.	3.0	36
25	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
26	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
27	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
28	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
29	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
30	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
31	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
32	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
33	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
34	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
35	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
36	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

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37	Dynamic surface tension behavior of hexadecanol spread and adsorbed monolayers. <i>Langmuir</i> , 1993, 9, 3640-3648.	3.5	24
38	Surface Tension and Adsorption Synergism for Solutions of Binary Surfactants. <i>Industrial &amp; Engineering Chemistry Research</i> , 1996, 35, 3223-3232.	3.7	23
39	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
40	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
41	Thickness and quality of spin-coated polymer films by two-angle ellipsometry. <i>Thin Solid Films</i> , 1999, 347, 167-177.	1.8	22
42	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
43	Effect of Interparticle Interactions on Agglomeration and Sedimentation Rates of Colloidal Silica Microspheres. <i>Langmuir</i> , 2016, 32, 5111-5123.	3.5	22
44	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
45	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
46	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
47	Dynamic tension and adsorption behavior of aqueous lung surfactants. <i>Colloids and Surfaces B: Biointerfaces</i> , 1999, 15, 325-338.	5.0	18
48	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
49	Dynamic adsorption and tension of nonionic binary surfactant mixtures. <i>AIChE Journal</i> , 1997, 43, 1569-1578.	3.6	17
50	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
51	Micellar dissolution and diffusion effects on adsorption dynamics of surfactants. <i>AIChE Journal</i> , 2003, 49, 3229-3240.	3.6	17
52	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
53	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
54	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

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55	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
56	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
57	Dynamic Adsorption and Surface Tension of Aqueous Dilauroylphosphatidylcholine Dispersions under Physiological Conditions. <i>Langmuir</i> , 2004, 20, 4004-4010.	3.5	13
58	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
59	Ion adsorption and ion exchange in ultrathin films of fatty acids. <i>AIChE Journal</i> , 1994, 40, 1046-1054.	3.6	12
60	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
61	Effect of diffusional losses on the formation of monolayers of soluble proteins at air/water interfaces with Trunitt's method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996, 117, 45-54.	4.7	11
62	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
63	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
64	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
65	Microstructure and water transport in spin cast films of poly(hexylmethacrylate) $T_j$ ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 342 Td (	1.8	10
66	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
67	Use of Close-Packed Vesicular Dispersions to Stabilize Colloidal Particle Dispersions against Sedimentation. <i>Langmuir</i> , 2015, 31, 8802-8808.	3.5	10
68	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
69	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
70	New Mathematical Models of Mixed Micellization. <i>ACS Symposium Series</i> , 1986, , 44-60.	0.5	8
71	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
72	Light scattering theory from dispersions of nonspherical Rayleigh particles. <i>Journal of Chemical Physics</i> , 1985, 83, 1531-1545.	3.0	7

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73	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
74	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
75	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
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	Mechanistic Studies of Chiral Discrimination in Polysaccharide Phases. <i>Advances in Chromatography</i> , 2012, 50, 47-91.	1.0	3
78	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
79	Relationship of Various Interfacial Tensions of Surfactants/Brine/Oil Formulations to Oil Recovery Efficiency. <i>Energy &amp; Fuels</i> , 2021, 35, 7768-7777.	5.1	3
80	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
81	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
82	Compositions of Langmuir Monolayers and Langmuir-Blodgett Films with Mixed Counterions. <i>ACS Symposium Series</i> , 1992, , 342-353.	0.5	1
83	Accurate Determination of the Equilibrium Surface Tension Values with Area Perturbation Tests. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	1