Wladimir Urbach

List of Publications by Year
in descending order

115	3,429	159585 30	149698 56
papers	citations	h-index	g-index

116	116	116	3349
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	How to best estimate the viscosity of lipid bilayers. Biophysical Chemistry, 2022, 281, 106732.	2.8	8
2	Molecular Study of Ultrasound-Triggered Release of Fluorescein from Liposomes. Langmuir, 2021, 37, 3868-3881.	3.5	7
3	In vitro evaluation of polymeric nanoparticles with a fluorine core for drug delivery triggered by focused ultrasound. Colloids and Surfaces B: Biointerfaces, 2021, 200, 111561.	5.0	11
4	Ultrasound-triggered delivery of paclitaxel encapsulated in an emulsion at low acoustic pressures. Journal of Materials Chemistry B, 2020, 8, 1640-1648.	5.8	12
5	Effect of Dimethyl Sulfoxide on the Binding of 1-Adamantane Carboxylic Acid to Î²- and Î³-Cyclodextrins. ACS Omega, 2018, 3, 1014-1021.	3.5	12
6	Does the Presence of a Co-Solvent Alter the Affinity of a Hydrophobic Drug to its Target?. Biophysical Journal, 2017, 112, 493a.	0.5	0
7	Simulating Bilayers of Nonionic Surfactants with the GROMOS-Compatible 2016H66 Force Field. Langmuir, 2017, 33, 10225-10238.	3.5	12
8	FRAP to Characterize Molecular Diffusion and Interaction in Various Membrane Environments. PLoS ONE, 2016, 11, e0158457.	2.5	78
9	Can We Trust Hydrodynamic Models to Determine the Bilayer Viscosity Experienced by Transmembrane Proteins?. Biophysical Journal, 2016, 110, 370a.	0.5	0
10	Effect of a Cosolvent in Binding Events of Hydrophobic Molecules. An Experimental and Numerical Study. Biophysical Journal, 2016, 110, 49a-50a.	0.5	0
11	AFM Investigation of Liquid-Filled Polymer Microcapsules Elasticity. Langmuir, 2016, 32, 4610-4618.	3.5	19
12	Characterization of a Biomimetic Mesophase Composed of Nonionic Surfactants and an Aqueous Solvent. Langmuir, 2016, 32, 10268-10275.	3.5	7
13	Can Lipids be used as Mobility Standards in Artificial Bilayers?. Biophysical Journal, 2015, 108, 181a.	0.5	0
14	Stability of C₁₂E_j Bilayers Probed with Adhesive Droplets. Langmuir, 2015, 31, 6791-6796.	3.5	5
15	Properties of theranostic nanoparticles determined in suspension by ultrasonic spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 25483-25493.	2.8	8
16	Perfluorocarbon nanodroplets stabilized by fluorinated surfactants: characterization and potentiality as theranostic agents. Journal of Materials Chemistry B, 2015, 3, 2892-2907.	5.8	39
17	Surfactant Bilayers Maintain Transmembrane Protein Activity. Biophysical Journal, 2014, 107, 1129-1135.	0.5	8
18	Correlated Lateral Diffusion of Lipids. Biophysical Journal, 2014, 106, 84a.	0.5	0

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19	A New Biomimetic Phase of Surfactant Bilayers Maintains Membrane Protein Activity. Biophysical Journal, 2013, 104, 44a.	0.5	0
20	Interactions of Urea and Trehalose with an Amyloidogenic Peptide Sequence from ÃŸ-Lactoglobulin. Biophysical Journal, 2013, 104, 392a.	0.5	0
21	A model for ultrasound absorption and dispersion in dilute suspensions of nanometric contrast agents. Journal of the Acoustical Society of America, 2012, 132, 3748-3759.	1.1	16
22	Osmolyte Effect on Aggregation of ÃŸ-Lactoglobulin Amyloid-Prone Peptides by Explicit Molecular Dynamics Simulation. Biophysical Journal, 2012, 102, 443a-444a.	0.5	0
23	Lateral Diffusion and Association of Transmembrane Proteins Inside a Biomimetic Bilayer Mesophase. Biophysical Journal, 2012, 102, 625a.	0.5	0
24	A versatile Bilayer Phase for the Studies of Transmembrane Proteinsâ€™ Association. Biophysical Journal, 2011, 100, 359a.	0.5	0
25	Two-dimensional simulation of linear wave propagation in a suspension of polymeric microcapsules used as ultrasound contrast agents. Journal of the Acoustical Society of America, 2011, 129, 1642-1652.	1.1	8
26	Recent Applications of Fluorescence Recovery after Photobleaching (FRAP) to Membrane Bio-Macromolecules. Sensors, 2010, 10, 5927-5948.	3.8	43
27	Modulation of the Lateral Mobility of Transmembrane Peptides with Hydrophobic Mismatch. Biophysical Journal, 2010, 98, 224a-225a.	0.5	0
28	Transmembrane Protein Association in a Biomimetic Medium. Biophysical Journal, 2010, 98, 49a-50a.	0.5	0
29	Surfactant Sponge Phase Is a Versatile, Tunable and Biologically Relevant Medium To Study Membrane Protein Interactions. Biophysical Journal, 2010, 98, 59a.	0.5	1
30	Variation of the Lateral Mobility of Transmembrane Peptides with Hydrophobic Mismatch. Journal of Physical Chemistry B, 2010, 114, 3559-3566.	2.6	34
31	Experimental validation of a time domain simulation of high frequency ultrasonic propagation in a suspension of rigid particles. Journal of the Acoustical Society of America, 2010, 127, 148-154.	1.1	9
32	Phospholipid decoration of microcapsules containing perfluorooctyl bromide used as ultrasound contrast agents. Biomaterials, 2009, 30, 1462-1472.	11.4	40
33	Atomistic simulations of spontaneous formation and structural properties of linoleic acid micelles in water. Chemical Physics Letters, 2009, 481, 124-129.	2.6	8
34	Confinement of a hydrophilic polymer in membrane lyotropic phases. Journal of Colloid and Interface Science, 2009, 331, 185-190.	9.4	3
35	Tracking Membrane Protein Association in Model Membranes. PLoS ONE, 2009, 4, e5035.	2.5	29
36	Perfluorooctyl Bromide Polymeric Capsules as Dual Contrast Agents for Ultrasonography and Magnetic Resonance Imaging. Advanced Functional Materials, 2008, 18, 2963-2971.	14.9	114

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37	Molecular Origin of Model Membrane Bending Rigidity. Physical Review Letters, 2007, 98, 258103.	7.8	28
38	The sponge phase of a mixed surfactant system. Journal of Colloid and Interface Science, 2007, 308, 485-490.	9.4	19
39	Unfolding and Refolding of Bovine Serum Albumin at Acid pH: Ultrasound and Structural Studies. Biophysical Journal, 2006, 91, 3397-3404.	0.5	167
40	Effect of Surfactant Conformation on the Structures of Small Size Nonionic Reverse Micelles:Â A Molecular Dynamics Simulation Study. Langmuir, 2006, 22, 9112-9120.	3.5	40
41	Structure, Stability, and Hydration of a Polypeptide in AOT Reverse Micelles. Journal of the American Chemical Society, 2006, 128, 382-383.	13.7	47
42	Effect of a neutral water-soluble polymer on the lamellar phase of a zwitterionic surfactant system. Journal of Colloid and Interface Science, 2006, 296, 365-369.	9.4	15
43	Interaction between poly(ethylene glycol) and two surfactants investigated by diffusion coefficient measurements. Journal of Colloid and Interface Science, 2006, 300, 105-110.	9.4	25
44	Lateral mobility of proteins in liquid membranes revisited. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2098-2102.	7.1	342
45	Bound And Free Water In Surfactant Micelles And Lipid Vesicles. AIP Conference Proceedings, 2005, , .	0.4	2
46	Bounded Step Superdiffusion in an Oriented Hexagonal Phase. Physical Review Letters, 2005, 94, 110602.	7.8	23
47	Confined Diffusion in a Sponge Phase. Journal of Physical Chemistry B, 2004, 108, 2893-2897.	2.6	9
48	Compressibility of nano inclusions in complex fluids by ultrasound velocity measurements. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 1595-1600.	3.0	7
49	Ultrasonic Studies of Alcohol-Induced Transconformation in Î²-Lactoglobulin: The Intermediate State. Biophysical Journal, 2003, 85, 3928-3934.	0.5	15
50	Self-diffusion and collective diffusion in a model viscoelastic system. Physical Review E, 2002, 66, 031402.	2.1	19
51	Interactions between transmembrane proteins embedded in a lamellar phase, stabilized by steric interactions. Europhysics Letters, 2002, 59, 142-148.	2.0	6
52	Modification of the Elastic Constants of a Peptide-Decorated Lamellar Phase. Langmuir, 2002, 18, 4384-4392.	3.5	13
53	Behavior of a Reverse Lamellar Phase in the Presence of Low Molecular Weight Triblock Molecules. Langmuir, 2002, 18, 68-73.	3.5	4
54	Self Diffusion and Spectral Modifications of a Membrane Protein, the Rubrivivax gelatinosus LH2 Complex, Incorporated into a Monoolein Cubic Phase. Biophysical Journal, 2001, 81, 1613-1623.	0.5	15

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55	Hydration and Protein Folding in Water and in Reverse Micelles: Compressibility and Volume Changes. Biophysical Journal, 2001, 80, 2751-2760.	0.5	54
56	Dramatic rigidification of a peptide-decorated lamellar phase. Physical Review E, 2001, 63, 041903.	2.1	13
57	Adiabatic compressibility of AOT [sodium bis(2-ethylhexyl)sulfosuccinate] reverse micelles:â€,â€,Analysis of a simple model based on micellar size and volumetric measurements. Physical Review E, 2000, 61, 682-689.	2.1	74
58	Unbindingâ€“Binding Transition Induced by Molecular Snaps in Model Membranes. Biophysical Journal, 2000, 78, 857-865.	0.5	14
59	Modification of Elastic Constants by Charge Addition to a Nonionic Lamellar Phase. Langmuir, 2000, 16, 2968-2974.	3.5	9
60	Polyelectrolyte Micelles:Â Self-Diffusion and Electron Microscopy Studies. Langmuir, 2000, 16, 4436-4440.	3.5	13
61	Bridging of Nonionic Reverse Micelles by a Myelin Transmembrane Protein. Journal of Physical Chemistry B, 1998, 102, 528-533.	2.6	16
62	Orientation of Lyotropic and Thermotropic Liquid Crystals on Plasma-Treated Fluorinated Surfaces. Langmuir, 1998, 14, 6594-6598.	3.5	8
63	Self-Diffusion in Wormlike Micelles Networks with Electrostatic Interactions: A Universal Behavior?. Physical Review Letters, 1998, 81, 228-231.	7.8	23
64	Growth of Cetyltrimethylammonium Tosylate MicellesA Frapp Study. Langmuir, 1997, 13, 398-401.	3.5	23
65	Surface Self-Diffusion in L3Phases. Journal of Physical Chemistry B, 1997, 101, 8069-8073.	2.6	11
66	Water Confined in Reverse Micelles:â€‰ Acoustic and Densimetric Studies. Journal of Physical Chemistry B, 1997, 101, 10751-10756.	2.6	51
67	Modification of the Lamellar Phase in C12E5/Water System by a Random Hydrophilic-Hydrophobic Polyelectrolyte. Journal De Physique II, 1997, 7, 1393-1416.	0.9	14
68	Structural Properties of Charges Diblock Copolymers Solutions. Oil & Gas Science & Technology, 1997, 52, 274-277.	0.2	0
69	Collective Diffusion of â€œLiving Polymersâ€• Journal De Physique II, 1997, 7, 1099-1109.	0.9	0
70	Swelling behavior and local topology of anL3(sponge) phase. Physical Review E, 1996, 54, 1774-1778.	2.1	31
71	Squeezing of Oil-Swollen Surfactant Bilayers by a Membrane Protein. Physical Review Letters, 1996, 77, 3485-3488.	7.8	16
72	Nonionic Surfactant Reverse Micelles of C12E4in Dodecane:Â Temperature Dependence of Size and Shape. The Journal of Physical Chemistry, 1996, 100, 15180-15186.	2.9	28

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73	Self-diffusion in networks ofCPClO3wormlike micelles. Physical Review E, 1995, 51, 2150-2156.	2.1	13
74	Polymer Confinement in Surfactant Bilayers of a Lyotropic Lamellar Phase. Physical Review Letters, 1995, 74, 4237-4240.	7.8	59
75	Echographie par corrÃ©lation : caractÃ©ristiques et performances. European Physical Journal Special Topics, 1994, 04, C5-1247-C5-1250.	0.2	1
76	Echography using correlation techniques: choice of coding signal. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1994, 41, 579-587.	3.0	30
77	Reply to "Comment on the self-diffusion in L3 and other bicontinuous surfactant solutions". Langmuir, 1993, 9, 627-627.	3.5	0
78	Entangled versus multiconnected network of wormlike micelles. Langmuir, 1993, 9, 933-939.	3.5	228
79	B-type imaging with coded signals. , 1993, , .		0
80	Self diffusion of polymer-like micelles. European Physical Journal Special Topics, 1993, 03, C1-91-C1-103.	0.2	0
81	Surfactant self-diffusion in L3 phases. Langmuir, 1992, 8, 345-347.	3.5	6
82	Thermal fluctuations of surfactant films in micellar and microemulsion systems. Langmuir, 1991, 7, 1892-1894.	3.5	2
83	Anomalous diffusion in elongated micelles and its LÃ©vy flight interpretation. Journal De Physique II, 1991, 1, 1465-1482.	0.9	50
84	Ligand binding at membrane mimetic interfaces. Human serum albumin in reverse micelles. FEBS Journal, 1991, 199, 79-87.	0.2	23
85	A self-diffusion study of polymer-like micelles. Journal of Physics Condensed Matter, 1990, 2, 5907-5912.	1.8	18
86	Light Scattering Study of Surfactant Multilayers Elasticity. Role of Incorporated Proteins. Europhysics Letters, 1990, 12, 395-400.	2.0	9
87	Anomalous diffusion in â€˜â€˜living polymersâ€™â€™: A genuine Levy flight?. Physical Review Letters, 1990, 65, 2201-2204.	7.8	293
88	Tracer Self-Diffusion in Porous Silica. A Dynamical Probe of the Structure. Europhysics Letters, 1989, 10, 61-66.	2.0	4
89	Structural parameters of the myelin transmembrane proteolipid in reverse micelles. Biophysical Journal, 1989, 55, 949-955.	0.5	20
90	Tracer Diffusion in Polymer-Like Networks. , 1989, , 285-291.		0

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91	Mechanical displacement induced in a piezoelectric structure: Experimental measurement by laser interferometry and simulation by a finite element method. Journal of the Acoustical Society of America, 1988, 84, 11-19.	1.1	8
92	Ultrasonic imaging using correlation techniques. , 1988, , .		0
93	Are giant micelles living polymers?. Physical Review Letters, 1988, 60, 1410-1413.	7.8	65
94	Displacements induced in piezoelectric structures. , 1988, , .		0
95	Real time data processing system for acoustical tissue characterization. , 1988, , .		1
96	Hydrodynamic radii of protein-free and protein-containing reverse micelles as studied by fluorescence recovery after fringe photobleaching. Perturbations introduced by myelin basic protein uptake. The Journal of Physical Chemistry, 1987, 91, 2198-2201.	2.9	50
97	Selfâ€diffusion of interacting micelles: FRAPP study of micelles selfâ€diffusion. Journal of Chemical Physics, 1987, 86, 2343-2351.	3.0	38
98	On the application of forced Rayleigh light scattering to mass diffusion measurements. Journal of Chemical Physics, 1985, 83, 1877-1887.	3.0	45
99	Onset of Droplet Aggregation from Self-Diffusion Measurements in Microemulsions. Physical Review Letters, 1985, 54, 2253-2256.	7.8	82
100	Proteins in membrane mimetic systems. Insertion of myelin basic protein into microemulsion droplets. Biophysical Journal, 1985, 48, 893-898.	0.5	43
101	Thermal diffusivity in mesophases: A systematic study in 4â€4â€²â€diâ€(nâ€alkoxy) azoxy benzenes. Journal of Chemical Physics, 1983, 78, 5113-5124.	3.0	33
102	Membrane fluidity and enzyme changes in lymphocyte activation. International Journal of Immunopharmacology, 1982, 4, 296.	1.1	0
103	A sensitive optical grating method for flash photolysis: application to the CIS-trans photochemical isomerization of azo dyes. Chemical Physics Letters, 1978, 53, 138-143.	2.6	35
104	Thermal Diffusivity Measurements in Nematic and Smectic Phases by Forced Rayleigh Light Scattering. Molecular Crystals and Liquid Crystals, 1978, 46, 209-221.	0.8	79
105	Origin of Thermal Conductivity Anisotropy in Liquid Crystalline Phases. Physical Review Letters, 1978, 41, 1058-1062.	7.8	76
106	Mass diffusion measurements in liquid crystals by a novel optical method. Journal of Chemical Physics, 1978, 68, 2725.	3.0	121
107	The effect of dihydroxyacetone phosphate and 3-phosphoglycerate on O2 evolution and on the levels of ATP, ADP and Pi in isolated intact chloroplasts. Biochimica Et Biophysica Acta - Bioenergetics, 1977, 459, 337-346.	1.0	25
108	Marangoni effect in nematic liquid crystals. Journal De Physique, 1977, 38, 1275-1284.	1.8	17

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109	Rates and properties of endogenous cyclic photophosphorylation of isolated intact chloroplasts measured by CO2 fixation in the presence of dihydroxyacetone phosphate. Biochimica Et Biophysica Acta - Bioenergetics, 1976, 423, 91-102.	1.0	40
110	On new type of electrohydrodynamics instability in tilted nematic layers. Journal De Physique, 1976, 37, 241-244.	1.8	28
111	Anchoring Properties and Alignment of Liquid Crystals. , 1976, , 121-144.		18
112	Ã‰tude d'un transducteur Ã©lectro-optique Ã cristal liquide pour l'affichage d'hologrammes acoustiques. Revue De Physique AppliquÃ©e, 1976, 11, 523-526.	0.4	1
113	Alignment of nematics and smectics on evaporated films. Applied Physics Letters, 1974, 25, 479-481.	3.3	142
114	Water compressibility in confined spaces. , 0, , .		0
115	Compressibility measurements of water sequestered in spherical droplets. , 0, , .		1