

# Wladimir Urbach

## List of Publications by Year in descending order

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115  
papers

3,429  
citations

159585

30  
h-index

149698

56  
g-index

116  
all docs

116  
docs citations

116  
times ranked

3349  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Anomalous diffusion in "living polymers": A genuine Levy flight?. Physical Review Letters, 1990, 65, 2201-2204.	7.8	293
3	Entangled versus multiconnected network of wormlike micelles. Langmuir, 1993, 9, 933-939.	3.5	228
4	Unfolding and Refolding of Bovine Serum Albumin at Acid pH: Ultrasound and Structural Studies. Biophysical Journal, 2006, 91, 3397-3404.	0.5	167
5	Alignment of nematics and smectics on evaporated films. Applied Physics Letters, 1974, 25, 479-481.	3.3	142
6	Mass diffusion measurements in liquid crystals by a novel optical method. Journal of Chemical Physics, 1978, 68, 2725.	3.0	121
7	Perfluorooctyl Bromide Polymeric Capsules as Dual Contrast Agents for Ultrasonography and Magnetic Resonance Imaging. Advanced Functional Materials, 2008, 18, 2963-2971.	14.9	114
8	Onset of Droplet Aggregation from Self-Diffusion Measurements in Microemulsions. Physical Review Letters, 1985, 54, 2253-2256.	7.8	82
9	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
10	FRAP to Characterize Molecular Diffusion and Interaction in Various Membrane Environments. PLoS ONE, 2016, 11, e0158457.	2.5	78
11	Origin of Thermal Conductivity Anisotropy in Liquid Crystalline Phases. Physical Review Letters, 1978, 41, 1058-1062.	7.8	76
12	Adiabatic compressibility of AOT [sodium bis(2-ethylhexyl)sulfosuccinate] reverse micelles: Analysis of a simple model based on micellar size and volumetric measurements. Physical Review E, 2000, 61, 682-689.	2.1	74
13	Are giant micelles living polymers?. Physical Review Letters, 1988, 60, 1410-1413.	7.8	65
14	Polymer Confinement in Surfactant Bilayers of a Lyotropic Lamellar Phase. Physical Review Letters, 1995, 74, 4237-4240.	7.8	59
15	Hydration and Protein Folding in Water and in Reverse Micelles: Compressibility and Volume Changes. Biophysical Journal, 2001, 80, 2751-2760.	0.5	54
16	Water Confined in Reverse Micelles: Acoustic and Densimetric Studies. Journal of Physical Chemistry B, 1997, 101, 10751-10756.	2.6	51
17	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
18	Anomalous diffusion in elongated micelles and its Levy flight interpretation. Journal De Physique II, 1991, 1, 1465-1482.	0.9	50

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19	Structure, Stability, and Hydration of a Polypeptide in AOT Reverse Micelles. <i>Journal of the American Chemical Society</i> , 2006, 128, 382-383.	13.7	47
20	On the application of forced Rayleigh light scattering to mass diffusion measurements. <i>Journal of Chemical Physics</i> , 1985, 83, 1877-1887.	3.0	45
21	Proteins in membrane mimetic systems. Insertion of myelin basic protein into microemulsion droplets. <i>Biophysical Journal</i> , 1985, 48, 893-898.	0.5	43
22	Recent Applications of Fluorescence Recovery after Photobleaching (FRAP) to Membrane Bio-Macromolecules. <i>Sensors</i> , 2010, 10, 5927-5948.	3.8	43
23	Rates and properties of endogenous cyclic photophosphorylation of isolated intact chloroplasts measured by CO <sub>2</sub> fixation in the presence of dihydroxyacetone phosphate. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1976, 423, 91-102.	1.0	40
24	Effect of Surfactant Conformation on the Structures of Small Size Nonionic Reverse Micelles: A Molecular Dynamics Simulation Study. <i>Langmuir</i> , 2006, 22, 9112-9120.	3.5	40
25	Phospholipid decoration of microcapsules containing perfluorooctyl bromide used as ultrasound contrast agents. <i>Biomaterials</i> , 2009, 30, 1462-1472.	11.4	40
26	Perfluorocarbon nanodroplets stabilized by fluorinated surfactants: characterization and potentiality as theranostic agents. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2892-2907.	5.8	39
27	Self-diffusion of interacting micelles: FRAPP study of micelles self-diffusion. <i>Journal of Chemical Physics</i> , 1987, 86, 2343-2351.	3.0	38
28	A sensitive optical grating method for flash photolysis: application to the CIS-trans photochemical isomerization of azo dyes. <i>Chemical Physics Letters</i> , 1978, 53, 138-143.	2.6	35
29	Variation of the Lateral Mobility of Transmembrane Peptides with Hydrophobic Mismatch. <i>Journal of Physical Chemistry B</i> , 2010, 114, 3559-3566.	2.6	34
30	Thermal diffusivity in mesophases: A systematic study in 4-(n-alkoxy) azoxy benzenes. <i>Journal of Chemical Physics</i> , 1983, 78, 5113-5124.	3.0	33
31	Swelling behavior and local topology of an L3(sponge) phase. <i>Physical Review E</i> , 1996, 54, 1774-1778.	2.1	31
32	Echography using correlation techniques: choice of coding signal. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1994, 41, 579-587.	3.0	30
33	Tracking Membrane Protein Association in Model Membranes. <i>PLoS ONE</i> , 2009, 4, e5035.	2.5	29
34	On new type of electrohydrodynamics instability in tilted nematic layers. <i>Journal De Physique</i> , 1976, 37, 241-244.	1.8	28
35	Nonionic Surfactant Reverse Micelles of C12E4 in Dodecane: Temperature Dependence of Size and Shape. <i>The Journal of Physical Chemistry</i> , 1996, 100, 15180-15186.	2.9	28
36	Molecular Origin of Model Membrane Bending Rigidity. <i>Physical Review Letters</i> , 2007, 98, 258103.	7.8	28

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37	The effect of dihydroxyacetone phosphate and 3-phosphoglycerate on O <sub>2</sub> evolution and on the levels of ATP, ADP and Pi in isolated intact chloroplasts. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1977, 459, 337-346.	1.0	25
38	Interaction between poly(ethylene glycol) and two surfactants investigated by diffusion coefficient measurements. <i>Journal of Colloid and Interface Science</i> , 2006, 300, 105-110.	9.4	25
39	Ligand binding at membrane mimetic interfaces. Human serum albumin in reverse micelles. <i>FEBS Journal</i> , 1991, 199, 79-87.	0.2	23
40	Growth of Cetyltrimethylammonium Tosylate Micelles A Frapp Study. <i>Langmuir</i> , 1997, 13, 398-401.	3.5	23
41	Self-Diffusion in Wormlike Micelles Networks with Electrostatic Interactions: A Universal Behavior?. <i>Physical Review Letters</i> , 1998, 81, 228-231.	7.8	23
42	Bounded Step Superdiffusion in an Oriented Hexagonal Phase. <i>Physical Review Letters</i> , 2005, 94, 110602.	7.8	23
43	Structural parameters of the myelin transmembrane proteolipid in reverse micelles. <i>Biophysical Journal</i> , 1989, 55, 949-955.	0.5	20
44	Self-diffusion and collective diffusion in a model viscoelastic system. <i>Physical Review E</i> , 2002, 66, 031402.	2.1	19
45	The sponge phase of a mixed surfactant system. <i>Journal of Colloid and Interface Science</i> , 2007, 308, 485-490.	9.4	19
46	AFM Investigation of Liquid-Filled Polymer Microcapsules Elasticity. <i>Langmuir</i> , 2016, 32, 4610-4618.	3.5	19
47	A self-diffusion study of polymer-like micelles. <i>Journal of Physics Condensed Matter</i> , 1990, 2, 5907-5912.	1.8	18
48	Anchoring Properties and Alignment of Liquid Crystals. , 1976, , 121-144.		18
49	Marangoni effect in nematic liquid crystals. <i>Journal De Physique</i> , 1977, 38, 1275-1284.	1.8	17
50	Squeezing of Oil-Swollen Surfactant Bilayers by a Membrane Protein. <i>Physical Review Letters</i> , 1996, 77, 3485-3488.	7.8	16
51	Bridging of Nonionic Reverse Micelles by a Myelin Transmembrane Protein. <i>Journal of Physical Chemistry B</i> , 1998, 102, 528-533.	2.6	16
52	A model for ultrasound absorption and dispersion in dilute suspensions of nanometric contrast agents. <i>Journal of the Acoustical Society of America</i> , 2012, 132, 3748-3759.	1.1	16
53	Self Diffusion and Spectral Modifications of a Membrane Protein, the Rubrivivax gelatinosus LH2 Complex, Incorporated into a Monoolein Cubic Phase. <i>Biophysical Journal</i> , 2001, 81, 1613-1623.	0.5	15
54	Ultrasonic Studies of Alcohol-Induced Transconformation in $\hat{1}^2$ -Lactoglobulin: The Intermediate State. <i>Biophysical Journal</i> , 2003, 85, 3928-3934.	0.5	15

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55	Effect of a neutral water-soluble polymer on the lamellar phase of a zwitterionic surfactant system. <i>Journal of Colloid and Interface Science</i> , 2006, 296, 365-369.	9.4	15
56	Unbinding of Binding Transition Induced by Molecular Snaps in Model Membranes. <i>Biophysical Journal</i> , 2000, 78, 857-865.	0.5	14
57	Modification of the Lamellar Phase in C12E5/Water System by a Random Hydrophilic-Hydrophobic Polyelectrolyte. <i>Journal De Physique II</i> , 1997, 7, 1393-1416.	0.9	14
58	Self-diffusion in networks of CPClO3 wormlike micelles. <i>Physical Review E</i> , 1995, 51, 2150-2156.	2.1	13
59	Polyelectrolyte Micelles: Self-Diffusion and Electron Microscopy Studies. <i>Langmuir</i> , 2000, 16, 4436-4440.	3.5	13
60	Dramatic rigidification of a peptide-decorated lamellar phase. <i>Physical Review E</i> , 2001, 63, 041903.	2.1	13
61	Modification of the Elastic Constants of a Peptide-Decorated Lamellar Phase. <i>Langmuir</i> , 2002, 18, 4384-4392.	3.5	13
62	Simulating Bilayers of Nonionic Surfactants with the GROMOS-Compatible 2016H66 Force Field. <i>Langmuir</i> , 2017, 33, 10225-10238.	3.5	12
63	Effect of Dimethyl Sulfoxide on the Binding of 1-Adamantane Carboxylic Acid to $\beta$ - and $\gamma$ -Cyclodextrins. <i>ACS Omega</i> , 2018, 3, 1014-1021.	3.5	12
64	Ultrasound-triggered delivery of paclitaxel encapsulated in an emulsion at low acoustic pressures. <i>Journal of Materials Chemistry B</i> , 2020, 8, 1640-1648.	5.8	12
65	Surface Self-Diffusion in L3 Phases. <i>Journal of Physical Chemistry B</i> , 1997, 101, 8069-8073.	2.6	11
66	In vitro evaluation of polymeric nanoparticles with a fluorine core for drug delivery triggered by focused ultrasound. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 200, 111561.	5.0	11
67	Light Scattering Study of Surfactant Multilayers Elasticity. Role of Incorporated Proteins. <i>Europhysics Letters</i> , 1990, 12, 395-400.	2.0	9
68	Modification of Elastic Constants by Charge Addition to a Nonionic Lamellar Phase. <i>Langmuir</i> , 2000, 16, 2968-2974.	3.5	9
69	Confined Diffusion in a Sponge Phase. <i>Journal of Physical Chemistry B</i> , 2004, 108, 2893-2897.	2.6	9
70	Experimental validation of a time domain simulation of high frequency ultrasonic propagation in a suspension of rigid particles. <i>Journal of the Acoustical Society of America</i> , 2010, 127, 148-154.	1.1	9
71	Mechanical displacement induced in a piezoelectric structure: Experimental measurement by laser interferometry and simulation by a finite element method. <i>Journal of the Acoustical Society of America</i> , 1988, 84, 11-19.	1.1	8
72	Orientation of Lyotropic and Thermotropic Liquid Crystals on Plasma-Treated Fluorinated Surfaces. <i>Langmuir</i> , 1998, 14, 6594-6598.	3.5	8

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73	Atomistic simulations of spontaneous formation and structural properties of linoleic acid micelles in water. <i>Chemical Physics Letters</i> , 2009, 481, 124-129.	2.6	8
74	Two-dimensional simulation of linear wave propagation in a suspension of polymeric microcapsules used as ultrasound contrast agents. <i>Journal of the Acoustical Society of America</i> , 2011, 129, 1642-1652.	1.1	8
75	Surfactant Bilayers Maintain Transmembrane Protein Activity. <i>Biophysical Journal</i> , 2014, 107, 1129-1135.	0.5	8
76	Properties of theranostic nanoparticles determined in suspension by ultrasonic spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 25483-25493.	2.8	8
77	How to best estimate the viscosity of lipid bilayers. <i>Biophysical Chemistry</i> , 2022, 281, 106732.	2.8	8
78	Compressibility of nano inclusions in complex fluids by ultrasound velocity measurements. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2003, 50, 1595-1600.	3.0	7
79	Characterization of a Biomimetic Mesophase Composed of Nonionic Surfactants and an Aqueous Solvent. <i>Langmuir</i> , 2016, 32, 10268-10275.	3.5	7
80	Molecular Study of Ultrasound-Triggered Release of Fluorescein from Liposomes. <i>Langmuir</i> , 2021, 37, 3868-3881.	3.5	7
81	Surfactant self-diffusion in L3 phases. <i>Langmuir</i> , 1992, 8, 345-347.	3.5	6
82	Interactions between transmembrane proteins embedded in a lamellar phase, stabilized by steric interactions. <i>Europhysics Letters</i> , 2002, 59, 142-148.	2.0	6
83	Stability of $C_{12}E_8$ Bilayers Probed with Adhesive Droplets. <i>Langmuir</i> , 2015, 31, 6791-6796.	3.5	5
84	Tracer Self-Diffusion in Porous Silica. A Dynamical Probe of the Structure. <i>Europhysics Letters</i> , 1989, 10, 61-66.	2.0	4
85	Behavior of a Reverse Lamellar Phase in the Presence of Low Molecular Weight Triblock Molecules. <i>Langmuir</i> , 2002, 18, 68-73.	3.5	4
86	Confinement of a hydrophilic polymer in membrane lyotropic phases. <i>Journal of Colloid and Interface Science</i> , 2009, 331, 185-190.	9.4	3
87	Thermal fluctuations of surfactant films in micellar and microemulsion systems. <i>Langmuir</i> , 1991, 7, 1892-1894.	3.5	2
88	Bound And Free Water In Surfactant Micelles And Lipid Vesicles. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	2
89	Real time data processing system for acoustical tissue characterization. , 1988, , .		1
90	Echographie par corrélation : caractéristiques et performances. <i>European Physical Journal Special Topics</i> , 1994, 04, C5-1247-C5-1250.	0.2	1

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91	Compressibility measurements of water sequestered in spherical droplets. , 0, , .		1
92	Surfactant Sponge Phase Is a Versatile, Tunable and Biologically Relevant Medium To Study Membrane Protein Interactions. Biophysical Journal, 2010, 98, 59a.	0.5	1
93	Étude d'un transducteur électro-optique à cristal liquide pour l'affichage d'hologrammes acoustiques. Revue De Physique Appliquée, 1976, 11, 523-526.	0.4	1
94	Membrane fluidity and enzyme changes in lymphocyte activation. International Journal of Immunopharmacology, 1982, 4, 296.	1.1	0
95	Ultrasonic imaging using correlation techniques. , 1988, , .		0
96	Displacements induced in piezoelectric structures. , 1988, , .		0
97	Reply to "Comment on the self-diffusion in L3 and other bicontinuous surfactant solutions". Langmuir, 1993, 9, 627-627.	3.5	0
98	B-type imaging with coded signals. , 1993, , .		0
99	Water compressibility in confined spaces. , 0, , .		0
100	Modulation of the Lateral Mobility of Transmembrane Peptides with Hydrophobic Mismatch. Biophysical Journal, 2010, 98, 224a-225a.	0.5	0
101	Transmembrane Protein Association in a Biomimetic Medium. Biophysical Journal, 2010, 98, 49a-50a.	0.5	0
102	A versatile Bilayer Phase for the Studies of Transmembrane Proteins™ Association. Biophysical Journal, 2011, 100, 359a.	0.5	0
103	Osmolyte Effect on Aggregation of Å-Lactoglobulin Amyloid-Prone Peptides by Explicit Molecular Dynamics Simulation. Biophysical Journal, 2012, 102, 443a-444a.	0.5	0
104	Lateral Diffusion and Association of Transmembrane Proteins Inside a Biomimetic Bilayer Mesophase. Biophysical Journal, 2012, 102, 625a.	0.5	0
105	A New Biomimetic Phase of Surfactant Bilayers Maintains Membrane Protein Activity. Biophysical Journal, 2013, 104, 44a.	0.5	0
106	Interactions of Urea and Trehalose with an Amyloidogenic Peptide Sequence from Å-Lactoglobulin. Biophysical Journal, 2013, 104, 392a.	0.5	0
107	Correlated Lateral Diffusion of Lipids. Biophysical Journal, 2014, 106, 84a.	0.5	0
108	Can Lipids be used as Mobility Standards in Artificial Bilayers?. Biophysical Journal, 2015, 108, 181a.	0.5	0

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109	Can We Trust Hydrodynamic Models to Determine the Bilayer Viscosity Experienced by Transmembrane Proteins?. Biophysical Journal, 2016, 110, 370a.	0.5	0
110	Effect of a Cosolvent in Binding Events of Hydrophobic Molecules. An Experimental and Numerical Study. Biophysical Journal, 2016, 110, 49a-50a.	0.5	0
111	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
112	Tracer Diffusion in Polymer-Like Networks. , 1989, , 285-291.		0
113	Self diffusion of polymer-like micelles. European Physical Journal Special Topics, 1993, 03, C1-91-C1-103.	0.2	0
114	Structural Properties of Charges Diblock Copolymers Solutions. Oil & Gas Science & Technology, 1997, 52, 274-277.	0.2	0
115	Collective Diffusion of "Living Polymers" Journal De Physique II, 1997, 7, 1099-1109.	0.9	0