

Joachim Seelig

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72
papers

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73
ext. papers

10,033
ext. citations

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L-index

#	Paper	IF	Citations
72	Deuterium magnetic resonance: theory and application to lipid membranes. <i>Quarterly Reviews of Biophysics</i> , 1977 , 10, 353-418	7	1068
71	The dynamic structure of fatty acyl chains in a phospholipid bilayer measured by deuterium magnetic resonance. <i>Biochemistry</i> , 1974 , 13, 4839-45	3.2	900
70	³¹ P nuclear magnetic resonance and the head group structure of phospholipids in membranes. <i>BBA - Biomembranes</i> , 1978 , 515, 105-40		753
69	Lipid conformation in model membranes and biological membranes. <i>Quarterly Reviews of Biophysics</i> , 1980 , 13, 19-61	7	675
68	Phospholipid head groups as sensors of electric charge in membranes. <i>Biochemistry</i> , 1987 , 26, 7535-41	3.2	390
67	Interaction of Alzheimer beta-amyloid peptide(1-40) with lipid membranes. <i>Biochemistry</i> , 1997 , 36, 14845-52	3.5	320
66	Melittin binding to mixed phosphatidylglycerol/phosphatidylcholine membranes. <i>Biochemistry</i> , 1990 , 29, 52-8	3.2	289
65	Self-association of beta-amyloid peptide (1-40) in solution and binding to lipid membranes. <i>Journal of Molecular Biology</i> , 1995 , 252, 633-42	6.5	281
64	Thermodynamics of lipid-peptide interactions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2004 , 1666, 40-50	3.8	251
63	Conformation and motion of the choline head group in bilayers of dipalmitoyl-3-sn-phosphatidylcholine. <i>Biochemistry</i> , 1975 , 14, 3647-52	3.2	246
62	The cationic cell-penetrating peptide CPP(TAT) derived from the HIV-1 protein TAT is rapidly transported into living fibroblasts: optical, biophysical, and metabolic evidence. <i>Biochemistry</i> , 2005 , 44, 138-48	3.2	210
61	Nonclassical hydrophobic effect in membrane binding equilibria. <i>Biochemistry</i> , 1991 , 30, 9354-9	3.2	178
60	Binding of antibacterial magainin peptides to electrically neutral membranes: thermodynamics and structure. <i>Biochemistry</i> , 1999 , 38, 10377-87	3.2	175
59	Titration calorimetry of lipid-peptide interactions. <i>BBA - Biomembranes</i> , 1997 , 1331, 103-16		174
58	Interaction of melittin with phosphatidylcholine membranes. Binding isotherm and lipid head-group conformation. <i>Biochemistry</i> , 1989 , 28, 4216-21	3.2	173
57	Alzheimer beta-amyloid peptide 25-35: electrostatic interactions with phospholipid membranes. <i>Biochemistry</i> , 1994 , 33, 7434-41	3.2	170
56	Magainin 2 amide interaction with lipid membranes: calorimetric detection of peptide binding and pore formation. <i>Biochemistry</i> , 1998 , 37, 3909-16	3.2	168

55	Thermodynamics of the alpha-helix-coil transition of amphipathic peptides in a membrane environment: implications for the peptide-membrane binding equilibrium. <i>Journal of Molecular Biology</i> , 1999 , 294, 785-94	6.5	163
54	Membrane binding and pore formation of the antibacterial peptide PGLa: thermodynamic and mechanistic aspects. <i>Biochemistry</i> , 2000 , 39, 442-52	3.2	162
53	Bilayers of dipalmitoyl-3-sn-phosphatidylcholine. Conformational differences between the fatty acyl chains. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1975 , 406, 1-5	3.8	162
52	Protein transduction domains of HIV-1 and SIV TAT interact with charged lipid vesicles. Binding mechanism and thermodynamic analysis. <i>Biochemistry</i> , 2003 , 42, 9185-94	3.2	159
51	Detergent-like action of the antibiotic peptide surfactin on lipid membranes. <i>Biophysical Journal</i> , 2001 , 81, 1547-54	2.9	156
50	Cerebral metabolism of [1,2-13C2]glucose and [U-13C4]3-hydroxybutyrate in rat brain as detected by 13C NMR spectroscopy. <i>NMR in Biomedicine</i> , 1993 , 6, 264-77	4.4	149
49	Peptide binding to lipid bilayers. Nonclassical hydrophobic effect and membrane-induced pK shifts. <i>Biochemistry</i> , 1992 , 31, 10044-53	3.2	147
48	Kinetic properties and the electric field effect of the helix-coil transition of poly(gamma-benzyl L-glutamate) determined from dielectric relaxation measurements. <i>Biopolymers</i> , 1968 , 6, 1263-77	2.2	136
47	General features of phospholipid conformation in membranes. <i>FEBS Letters</i> , 1978 , 92, 41-44	3.8	120
46	Lipid-protein interaction in reconstituted cytochrome c oxidase/phospholipid membranes. <i>Hoppe-Seyler's Zeitschrift Für Physiologische Chemie</i> , 1978 , 359, 1747-56		111
45	EPR spectra of spin labels in lipid bilayers. <i>Journal of Chemical Physics</i> , 1973 , 59, 1841-1850	3.9	108
44	Binding of the antibacterial peptide magainin 2 amide to small and large unilamellar vesicles. <i>Biophysical Chemistry</i> , 2000 , 85, 187-98	3.5	94
43	Thermodynamics of the coil-alpha-helix transition of amphipathic peptides in a membrane environment: the role of vesicle curvature. <i>Biophysical Chemistry</i> , 2002 , 96, 191-201	3.5	93
42	Thermodynamics of melittin binding to lipid bilayers. Aggregation and pore formation. <i>Biochemistry</i> , 2009 , 48, 2586-96	3.2	92
41	Electrostatic and nonpolar peptide-membrane interactions. Lipid binding and functional properties of somatostatin analogues of charge z = +1 to z = +3. <i>Biochemistry</i> , 1993 , 32, 9714-21	3.2	90
40	Lipid solvation of cytochrome c oxidase. Deuterium, nitrogen-14, and phosphorus-31 nuclear magnetic resonance studies on the phosphocholine head group and on cis-unsaturated fatty acyl chains. <i>Biochemistry</i> , 1983 , 22, 1474-83	3.2	87
39	Magnetic ordering of phospholipid membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1985 , 814, 195-198	3.8	79
38	Dynamic susceptibility contrast MR imaging of plaque development in multiple sclerosis: application of an extended blood-brain barrier leakage correction. <i>Journal of Magnetic Resonance Imaging</i> , 2000 , 11, 495-505	5.6	78

37	Gastrointestinal transit times in mice and humans measured with ²⁷ Al and ¹⁹ F nuclear magnetic resonance. <i>Magnetic Resonance in Medicine</i> , 2002 , 48, 255-61	4.4	70
36	Contributions of glycosaminoglycan binding and clustering to the biological uptake of the nonamphipathic cell-penetrating peptide WR9. <i>Biochemistry</i> , 2011 , 50, 4650-64	3.2	65
35	High affinity of the cell-penetrating peptide HIV-1 Tat-PTD for DNA. <i>Biochemistry</i> , 2007 , 46, 8138-45	3.2	65
34	Thermodynamic characterization of the association of small basic peptides with membranes containing acidic lipids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1993 , 1146, 17-24	3.8	57
33	Specific binding of Ro 09-0198 (cinnamycin) to phosphatidylethanolamine: a thermodynamic analysis. <i>Biochemistry</i> , 2002 , 41, 1965-71	3.2	55
32	Melittin interaction with sulfated cell surface sugars. <i>Biochemistry</i> , 2008 , 47, 2841-9	3.2	50
31	Specific binding of cinnamycin (Ro 09-0198) to phosphatidylethanolamine. Comparison between micellar and membrane environments. <i>Biochemistry</i> , 2003 , 42, 12570-6	3.2	49
30	Interaction of a mitochondrial presequence with lipid membranes: role of helix formation for membrane binding and perturbation. <i>Biochemistry</i> , 2000 , 39, 15297-305	3.2	49
29	Vesicle/Micelle Transformation of Phosphatidylcholine/Octyl- β -glucopyranoside Mixtures As Detected with Titration Calorimetry <i>Journal of Physical Chemistry B</i> , 1997 , 101, 5224-5231	3.4	41
28	EPR spectra of spin labels in lipid bilayers. II. Rotation of steroid spin probes. <i>Journal of Chemical Physics</i> , 1974 , 61, 2946-2949	3.9	37
27	Thermal protein unfolding by differential scanning calorimetry and circular dichroism spectroscopy Two-state model versus sequential unfolding. <i>Quarterly Reviews of Biophysics</i> , 2016 , 49, e9	7	37
26	Interaction of the antimicrobial peptide gomesin with model membranes: a calorimetric study. <i>Langmuir</i> , 2013 , 29, 8609-18	4	36
25	Interactions of cyclosporines with lipid membranes as studied by solid-state nuclear magnetic resonance spectroscopy and high-sensitivity titration calorimetry. <i>Journal of Pharmaceutical Sciences</i> , 2002 , 91, 856-67	3.9	35
24	Length dependence of the coil beta-sheet transition in a membrane environment. <i>Journal of the American Chemical Society</i> , 2008 , 130, 1017-24	16.4	34
23	Thermodynamics of the coil beta-sheet transition in a membrane environment. <i>Journal of Molecular Biology</i> , 2007 , 369, 277-89	6.5	33
22	¹⁹ F-MRI of perfluorononane as a novel contrast modality for gastrointestinal imaging. <i>Magnetic Resonance in Medicine</i> , 1999 , 41, 80-6	4.4	33
21	Non-invasive measurements of myocardial carbon metabolism using in vivo ¹³ C NMR spectroscopy. <i>NMR in Biomedicine</i> , 2002 , 15, 222-34	4.4	32
20	Isothermal titration calorimetry for studying interactions between peptides and lipid membranes. <i>Current Topics in Membranes</i> , 2002 , 31-56	2.2	30

19	Heat changes in lipid membranes under sudden osmotic stress. <i>Biochemistry</i> , 1997 , 36, 2853-9	3.2	26
18	Thermodynamic and Biophysical Analysis of the Membrane-Association of a Histidine-Rich Peptide with Efficient Antimicrobial and Transfection Activities. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 9678-87	3.4	24
17	Isothermal titration calorimetry with micelles: Thermodynamics of inhibitor binding to carnitine palmitoyltransferase 2 membrane protein. <i>FEBS Open Bio</i> , 2013 , 3, 204-11	2.7	22
16	Structural properties of perfluorinated linear alkanes: a ¹⁹ F and ¹³ C NMR study of perfluorononane. <i>Magnetic Resonance in Chemistry</i> , 2004 , 42, 512-7	2.1	20
15	On the interaction of ionic detergents with lipid membranes. Thermodynamic comparison of n-alkyl-N(CH ₃) ₃ ⁺ and n-alkyl-SO ₃ ⁻ . <i>Journal of Physical Chemistry B</i> , 2010 , 114, 15862-71	3.4	18
14	Phospholipid composition and organization of cytochrome c oxidase preparations as determined by ³¹ P-nuclear magnetic resonance. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1985 , 815, 153-8	3.8	15
13	Feeding versus infusion: a novel approach to study the NAA metabolism in rat brain. <i>NMR in Biomedicine</i> , 2003 , 16, 413-23	4.4	14
12	Aluminum-27 nuclear magnetic resonance spectroscopy and imaging of the human gastric lumen. <i>Magnetic Resonance in Medicine</i> , 1996 , 36, 177-82	4.4	14
11	Thermal unfolding of apolipoprotein A-1. Evaluation of methods and models. <i>Biochemistry</i> , 2015 , 54, 3063-75	3.2	13
10	Thermal and Chemical Unfolding of Lysozyme. Multistate Zimm-Bragg Theory Versus Two-State Model. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 10181-10191	3.4	13
9	Thermodynamics of lipid interactions with cell-penetrating peptides. <i>Methods in Molecular Biology</i> , 2011 , 683, 129-55	1.4	13
8	Thermal and Chemical Unfolding of a Monoclonal IgG1 Antibody: Application of the Multistate Zimm-Bragg Theory. <i>Biophysical Journal</i> , 2020 , 118, 1067-1075	2.9	11
7	riDOM, a cell-penetrating peptide. Interaction with DNA and heparan sulfate. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 10807-17	3.4	11
6	riDOM, a cell penetrating peptide. Interaction with phospholipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014 , 1838, 968-77	3.8	10
5	Numerical analysis of multislice MR excitation and inversion with multifrequency selective rf pulses. <i>Magnetic Resonance in Medicine</i> , 1990 , 13, 279-92	4.4	8
4	¹ H and ³¹ P NMR Studies of the Molecular Organization of Lipids in the Parallel Artificial Membrane Permeability Assay. <i>Molecular Pharmaceutics</i> , 2017 , 14, 284-295	5.6	6
3	Lipid and peptide dynamics in membranes upon insertion of n-alkyl-beta-D-glucopyranosides. <i>Biophysical Journal</i> , 2010 , 98, 1529-38	2.9	6
2	Molecular understanding of calorimetric protein unfolding experiments. <i>Biophysical Reports</i> , 2022 , 2, 100037		1

- 1 Lipid-protein interactions in crystalline lipoproteins and biological membranes. *Fresenius Zeitschrift für Analytische Chemie*, **1984**, 317, 613-613