

# Joachim Seelig

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72  
papers

9,660  
citations

43  
h-index

73  
g-index

73  
ext. papers

10,033  
ext. citations

3.7  
avg, IF

6.13  
L-index

#	Paper	IF	Citations
72	Molecular understanding of calorimetric protein unfolding experiments. <i>Biophysical Reports</i> , <b>2022</b> , 2, 100037		1
71	Thermal and Chemical Unfolding of a Monoclonal IgG1 Antibody: Application of the Multistate Zimm-Bragg Theory. <i>Biophysical Journal</i> , <b>2020</b> , 118, 1067-1075	2.9	11
70	Thermal and Chemical Unfolding of Lysozyme. Multistate Zimm-Bragg Theory Versus Two-State Model. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 10181-10191	3.4	13
69	P and H NMR Studies of the Molecular Organization of Lipids in the Parallel Artificial Membrane Permeability Assay. <i>Molecular Pharmaceutics</i> , <b>2017</b> , 14, 284-295	5.6	6
68	Thermal protein unfolding by differential scanning calorimetry and circular dichroism spectroscopy Two-state model versus sequential unfolding. <i>Quarterly Reviews of Biophysics</i> , <b>2016</b> , 49, e9	7	37
67	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> , <b>2015</b> , 119, 9678-9714	3.7	24
66	Thermal unfolding of apolipoprotein A-1. Evaluation of methods and models. <i>Biochemistry</i> , <b>2015</b> , 54, 3063-75	3.2	13
65	riDOM, a cell penetrating peptide. Interaction with phospholipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2014</b> , 1838, 968-77	3.8	10
64	Isothermal titration calorimetry with micelles: Thermodynamics of inhibitor binding to carnitine palmitoyltransferase 2 membrane protein. <i>FEBS Open Bio</i> , <b>2013</b> , 3, 204-11	2.7	22
63	riDOM, a cell-penetrating peptide. Interaction with DNA and heparan sulfate. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 10807-17	3.4	11
62	Interaction of the antimicrobial peptide gomesin with model membranes: a calorimetric study. <i>Langmuir</i> , <b>2013</b> , 29, 8609-18	4	36
61	Contributions of glycosaminoglycan binding and clustering to the biological uptake of the nonamphipathic cell-penetrating peptide WR9. <i>Biochemistry</i> , <b>2011</b> , 50, 4650-64	3.2	65
60	Thermodynamics of lipid interactions with cell-penetrating peptides. <i>Methods in Molecular Biology</i> , <b>2011</b> , 683, 129-55	1.4	13
59	Lipid and peptide dynamics in membranes upon insertion of n-alkyl-beta-D-glucopyranosides. <i>Biophysical Journal</i> , <b>2010</b> , 98, 1529-38	2.9	6
58	On the interaction of ionic detergents with lipid membranes. Thermodynamic comparison of n-alkyl-N(CH <sub>3</sub> ) <sub>3</sub> and n-alkyl-SO <sub>3</sub> <sup>-</sup> . <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 15862-71	3.4	18
57	Thermodynamics of melittin binding to lipid bilayers. Aggregation and pore formation. <i>Biochemistry</i> , <b>2009</b> , 48, 2586-96	3.2	92
56	Length dependence of the coil beta-sheet transition in a membrane environment. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 1017-24	16.4	34

55	Melittin interaction with sulfated cell surface sugars. <i>Biochemistry</i> , <b>2008</b> , 47, 2841-9	3.2	50
54	High affinity of the cell-penetrating peptide HIV-1 Tat-PTD for DNA. <i>Biochemistry</i> , <b>2007</b> , 46, 8138-45	3.2	65
53	Thermodynamics of the coil beta-sheet transition in a membrane environment. <i>Journal of Molecular Biology</i> , <b>2007</b> , 369, 277-89	6.5	33
52	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> , <b>2005</b> , 44, 138-48	3.2	210
51	Structural properties of perfluorinated linear alkanes: a <sup>19</sup> F and <sup>13</sup> C NMR study of perfluorononane. <i>Magnetic Resonance in Chemistry</i> , <b>2004</b> , 42, 512-7	2.1	20
50	Thermodynamics of lipid-peptide interactions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2004</b> , 1666, 40-50	3.8	251
49	Feeding versus infusion: a novel approach to study the NAA metabolism in rat brain. <i>NMR in Biomedicine</i> , <b>2003</b> , 16, 413-23	4.4	14
48	Protein transduction domains of HIV-1 and SIV TAT interact with charged lipid vesicles. Binding mechanism and thermodynamic analysis. <i>Biochemistry</i> , <b>2003</b> , 42, 9185-94	3.2	159
47	Specific binding of cinnamycin (Ro 09-0198) to phosphatidylethanolamine. Comparison between micellar and membrane environments. <i>Biochemistry</i> , <b>2003</b> , 42, 12570-6	3.2	49
46	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> , <b>2002</b> , 91, 856-67	3.9	35
45	Gastrointestinal transit times in mice and humans measured with <sup>27</sup> Al and <sup>19</sup> F nuclear magnetic resonance. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 48, 255-61	4.4	70
44	Non-invasive measurements of myocardial carbon metabolism using in vivo <sup>13</sup> C NMR spectroscopy. <i>NMR in Biomedicine</i> , <b>2002</b> , 15, 222-34	4.4	32
43	Thermodynamics of the coil-alpha-helix transition of amphipathic peptides in a membrane environment: the role of vesicle curvature. <i>Biophysical Chemistry</i> , <b>2002</b> , 96, 191-201	3.5	93
42	Isothermal titration calorimetry for studying interactions between peptides and lipid membranes. <i>Current Topics in Membranes</i> , <b>2002</b> , 31-56	2.2	30
41	Specific binding of Ro 09-0198 (cinnamycin) to phosphatidylethanolamine: a thermodynamic analysis. <i>Biochemistry</i> , <b>2002</b> , 41, 1965-71	3.2	55
40	Detergent-like action of the antibiotic peptide surfactin on lipid membranes. <i>Biophysical Journal</i> , <b>2001</b> , 81, 1547-54	2.9	156
39	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> , <b>2000</b> , 11, 495-505	5.6	78
38	Binding of the antibacterial peptide magainin 2 amide to small and large unilamellar vesicles. <i>Biophysical Chemistry</i> , <b>2000</b> , 85, 187-98	3.5	94

37	Membrane binding and pore formation of the antibacterial peptide PGLa: thermodynamic and mechanistic aspects. <i>Biochemistry</i> , <b>2000</b> , 39, 442-52	3.2	162
36	Interaction of a mitochondrial presequence with lipid membranes: role of helix formation for membrane binding and perturbation. <i>Biochemistry</i> , <b>2000</b> , 39, 15297-305	3.2	49
35	<sup>19</sup> F-MRI of perfluorononane as a novel contrast modality for gastrointestinal imaging. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 41, 80-6	4.4	33
34	Binding of antibacterial magainin peptides to electrically neutral membranes: thermodynamics and structure. <i>Biochemistry</i> , <b>1999</b> , 38, 10377-87	3.2	175
33	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> , <b>1999</b> , 294, 785-94	6.5	163
32	Magainin 2 amide interaction with lipid membranes: calorimetric detection of peptide binding and pore formation. <i>Biochemistry</i> , <b>1998</b> , 37, 3909-16	3.2	168
31	Vesicle/Micelle Transformation of Phosphatidylcholine/Octyl- $\beta$ -D-glucopyranoside Mixtures As Detected with Titration Calorimetry <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 5224-5231	3.4	41
30	Heat changes in lipid membranes under sudden osmotic stress. <i>Biochemistry</i> , <b>1997</b> , 36, 2853-9	3.2	26
29	Interaction of Alzheimer beta-amyloid peptide(1-40) with lipid membranes. <i>Biochemistry</i> , <b>1997</b> , 36, 14845-52	3.2	320
28	Titration calorimetry of lipid-peptide interactions. <i>BBA - Biomembranes</i> , <b>1997</b> , 1331, 103-16		174
27	Aluminum-27 nuclear magnetic resonance spectroscopy and imaging of the human gastric lumen. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 36, 177-82	4.4	14
26	Self-association of beta-amyloid peptide (1-40) in solution and binding to lipid membranes. <i>Journal of Molecular Biology</i> , <b>1995</b> , 252, 633-42	6.5	281
25	Alzheimer beta-amyloid peptide 25-35: electrostatic interactions with phospholipid membranes. <i>Biochemistry</i> , <b>1994</b> , 33, 7434-41	3.2	170
24	Thermodynamic characterization of the association of small basic peptides with membranes containing acidic lipids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1993</b> , 1146, 17-24	3.8	57
23	Electrostatic and nonpolar peptide-membrane interactions. Lipid binding and functional properties of somatostatin analogues of charge $z = +1$ to $z = +3$ . <i>Biochemistry</i> , <b>1993</b> , 32, 9714-21	3.2	90
22	Cerebral metabolism of [1,2- <sup>13</sup> C <sub>2</sub> ]glucose and [U- <sup>13</sup> C <sub>4</sub> ]3-hydroxybutyrate in rat brain as detected by <sup>13</sup> C NMR spectroscopy. <i>NMR in Biomedicine</i> , <b>1993</b> , 6, 264-77	4.4	149
21	Peptide binding to lipid bilayers. Nonclassical hydrophobic effect and membrane-induced pK shifts. <i>Biochemistry</i> , <b>1992</b> , 31, 10044-53	3.2	147
20	Nonclassical hydrophobic effect in membrane binding equilibria. <i>Biochemistry</i> , <b>1991</b> , 30, 9354-9	3.2	178

19	Numerical analysis of multislice MR excitation and inversion with multifrequency selective rf pulses. <i>Magnetic Resonance in Medicine</i> , <b>1990</b> , 13, 279-92	4.4	8
18	Melittin binding to mixed phosphatidylglycerol/phosphatidylcholine membranes. <i>Biochemistry</i> , <b>1990</b> , 29, 52-8	3.2	289
17	Interaction of melittin with phosphatidylcholine membranes. Binding isotherm and lipid head-group conformation. <i>Biochemistry</i> , <b>1989</b> , 28, 4216-21	3.2	173
16	Phospholipid head groups as sensors of electric charge in membranes. <i>Biochemistry</i> , <b>1987</b> , 26, 7535-41	3.2	390
15	Phospholipid composition and organization of cytochrome c oxidase preparations as determined by <sup>31</sup> P-nuclear magnetic resonance. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1985</b> , 815, 153-8	3.8	15
14	Magnetic ordering of phospholipid membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1985</b> , 814, 195-198	3.8	79
13	Lipid-protein interactions in crystalline lipoproteins and biological membranes. <i>Fresenius Zeitschrift Für Analytische Chemie</i> , <b>1984</b> , 317, 613-613		
12	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> , <b>1983</b> , 22, 1474-83	3.2	87
11	Lipid conformation in model membranes and biological membranes. <i>Quarterly Reviews of Biophysics</i> , <b>1980</b> , 13, 19-61	7	675
10	<sup>31</sup> P nuclear magnetic resonance and the head group structure of phospholipids in membranes. <i>BBA - Biomembranes</i> , <b>1978</b> , 515, 105-40		753
9	General features of phospholipid conformation in membranes. <i>FEBS Letters</i> , <b>1978</b> , 92, 41-44	3.8	120
8	Lipid-protein interaction in reconstituted cytochrome c oxidase/phospholipid membranes. <i>Hoppe-Seyler's Zeitschrift Für Physiologische Chemie</i> , <b>1978</b> , 359, 1747-56		111
7	Deuterium magnetic resonance: theory and application to lipid membranes. <i>Quarterly Reviews of Biophysics</i> , <b>1977</b> , 10, 353-418	7	1068
6	Conformation and motion of the choline head group in bilayers of dipalmitoyl-3-sn-phosphatidylcholine. <i>Biochemistry</i> , <b>1975</b> , 14, 3647-52	3.2	246
5	Bilayers of dipalmitoyl-3-sn-phosphatidylcholine. Conformational differences between the fatty acyl chains. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1975</b> , 406, 1-5	3.8	162
4	The dynamic structure of fatty acyl chains in a phospholipid bilayer measured by deuterium magnetic resonance. <i>Biochemistry</i> , <b>1974</b> , 13, 4839-45	3.2	900
3	EPR spectra of spin labels in lipid bilayers. II. Rotation of steroid spin probes. <i>Journal of Chemical Physics</i> , <b>1974</b> , 61, 2946-2949	3.9	37
2	EPR spectra of spin labels in lipid bilayers. <i>Journal of Chemical Physics</i> , <b>1973</b> , 59, 1841-1850	3.9	108

- 1 Kinetic properties and the electric field effect of the helix-coil transition of poly( $\gamma$ -benzyl L-glutamate) determined from dielectric relaxation measurements. *Biopolymers*, **1968**, 6, 1263-77 2.2 136