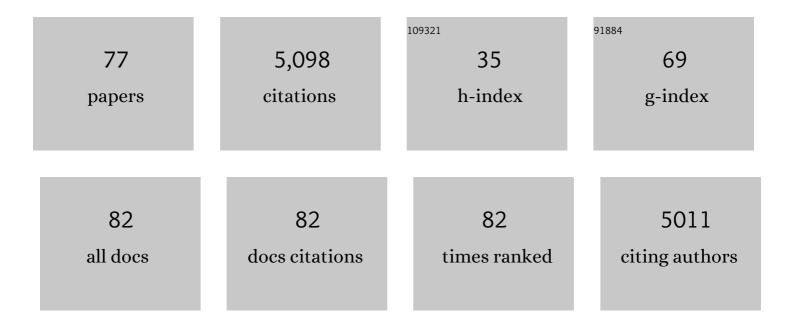
## Thomas R Weikl

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2831373/publications.pdf Version: 2024-02-01



THOMAS P WEIKI

#	Article	IF	CITATIONS
1	A litmus test for classifying recognition mechanisms of transiently binding proteins. Nature Communications, 2022, 13, .	12.8	13
2	Membrane morphologies induced by mixtures of arc-shaped particles with opposite curvature. Soft Matter, 2021, 17, 268-275.	2.7	6
3	Cooperative Stabilization of Close-Contact Zones Leads to Sensitivity and Selectivity in T-Cell Recognition. Cells, 2021, 10, 1023.	4.1	3
4	Structural variability and concerted motions of the T cell receptor $\hat{a} \in CD3$ complex. ELife, 2021, 10, .	6.0	7
5	Interplay of Trans- and Cis-Interactions of Clycolipids in Membrane Adhesion. Frontiers in Molecular Biosciences, 2021, 8, 754654.	3.5	4
6	Accessory mutations balance the marginal stability of the HIVâ€₁ protease in drug resistance. Proteins: Structure, Function and Bioinformatics, 2020, 88, 476-484.	2.6	6
7	Weak carbohydrate–carbohydrate interactions in membrane adhesion are fuzzy and generic. Nanoscale, 2020, 12, 17342-17353.	5.6	10
8	Theoretical modeling of interactions at the bio-nano interface. Nanoscale, 2020, 12, 10426-10429.	5.6	7
9	On the relationship between docking scores and protein conformational changes in HIV-1 protease. Journal of Molecular Graphics and Modelling, 2019, 91, 186-193.	2.4	4
10	Membrane Morphologies Induced by Arc-Shaped Scaffolds Are Determined by Arc Angle and Coverage. Biophysical Journal, 2019, 116, 1239-1247.	0.5	18
11	Binding and segregation of proteins in membrane adhesion: theory, modeling, and simulations. Advances in Biomembranes and Lipid Self-Assembly, 2019, 30, 159-194.	0.6	6
12	Particle-based membrane model for mesoscopic simulation of cellular dynamics. Journal of Chemical Physics, 2018, 148, 044901.	3.0	33
13	Identifying Conformational-Selection and Induced-Fit Aspects in the Binding-Induced Folding of PMI from Markov State Modeling of Atomistic Simulations. Journal of Physical Chemistry B, 2018, 122, 5649-5656.	2.6	24
14	Curvature-Mediated Assembly of Janus Nanoparticles on Membrane Vesicles. Nano Letters, 2018, 18, 1259-1263.	9.1	41
15	Membrane-Mediated Cooperativity of Proteins. Annual Review of Physical Chemistry, 2018, 69, 521-539.	10.8	41
16	Membrane fluctuations and acidosis regulate cooperative binding of "marker of self―CD47 with macrophage checkpoint receptor SIRPα. Journal of Cell Science, 2018, 132, .	2.0	45
17	The 2018 biomembrane curvature and remodeling roadmap. Journal Physics D: Applied Physics, 2018, 51, 343001.	2.8	212
18	Protein-peptide association kinetics beyond the seconds timescale from atomistic simulations. Nature Communications, 2017, 8, 1095.	12.8	137

#	Article	IF	CITATIONS
19	Membrane Tubulation by Elongated and Patchy Nanoparticles. Advanced Materials Interfaces, 2017, 4, 1600325.	3.7	9
20	Binding equilibrium and kinetics of membrane-anchored receptors and ligands in cell adhesion: Insights from computational model systems and theory. Cell Adhesion and Migration, 2016, 10, 576-589.	2.7	29
21	The role of membrane curvature for the wrapping of nanoparticles. Soft Matter, 2016, 12, 581-587.	2.7	71
22	How to Distinguish Conformational Selection and Induced Fit Based on Chemical Relaxation Rates. PLoS Computational Biology, 2016, 12, e1005067.	3.2	74
23	Binding kinetics of membrane-anchored receptors and ligands: Molecular dynamics simulations and theory. Journal of Chemical Physics, 2015, 143, 243137.	3.0	27
24	Binding constants of membrane-anchored receptors and ligands: A general theory corroborated by Monte Carlo simulations. Journal of Chemical Physics, 2015, 143, 243136.	3.0	54
25	Modeling nanoparticle wrapping or translocation in bilayer membranes. Nanoscale, 2015, 7, 14505-14514.	5.6	49
26	Wrapping of nanoparticles by membranes. Advances in Colloid and Interface Science, 2014, 208, 214-224.	14.7	186
27	Conformational selection in protein binding and function. Protein Science, 2014, 23, 1508-1518.	7.6	99
28	Cooperative wrapping of nanoparticles by membrane tubes. Soft Matter, 2014, 10, 3570.	2.7	72
29	How conformational changes can affect catalysis, inhibition and drug resistance of enzymes with induced-fit binding mechanism such as the HIV-1 protease. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 867-873.	2.3	16
30	Binding constants of membrane-anchored receptors and ligands depend strongly on the nanoscale roughness of membranes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15283-15288.	7.1	117
31	Domain formation in cholesterol–phospholipid membranes exposed to adhesive surfaces or environments. Soft Matter, 2013, 9, 8438.	2.7	22
32	Adhesion-Induced Phase Behavior of Two-Component Membranes and Vesicles. International Journal of Molecular Sciences, 2013, 14, 2203-2229.	4.1	9
33	Direct Observation of Membrane Insertion by Enveloped Virus Matrix Proteins by Phosphate Displacement. PLoS ONE, 2013, 8, e57916.	2.5	5
34	Tubulation and Aggregation of Spherical Nanoparticles Adsorbed on Vesicles. Physical Review Letters, 2012, 109, 188102.	7.8	144
35	Adhesion of surfaces mediated by adsorbed particles: Monte Carlo simulations and a general relationship between adsorption isotherms and effective adhesion energies. Soft Matter, 2012, 8, 11737.	2.7	2
36	Conformational selection and induced changes along the catalytic cycle of <i>Escherichia coli</i> dihydrofolate reductase. Proteins: Structure, Function and Bioinformatics, 2012, 80, 2369-2383.	2.6	20

#	Article	IF	CITATIONS
37	Vesicles with multiple membrane domains. Soft Matter, 2011, 7, 6092.	2.7	65
38	Line Tension and Stability of Domains in Cell-Adhesion Zones Mediated by Long and Short Receptor-Ligand Complexes. PLoS ONE, 2011, 6, e23284.	2.5	28
39	Segregation of receptor–ligand complexes in cell adhesion zones: phase diagrams and the role of thermal membrane roughness. New Journal of Physics, 2010, 12, 095003.	2.9	42
40	Transition States in Protein Folding. Communications in Computational Physics, 2010, 7, 283-300.	1.7	0
41	Adhesion of surfaces via particle adsorption: exact results for a lattice of fluid columns. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P11006.	2.3	1
42	In vivo folding efficiencies for mutants of the P22 tailspike β-helix protein correlate with predicted stability changes. Biophysical Chemistry, 2009, 141, 186-192.	2.8	7
43	Selectedâ€fit versus inducedâ€fit protein binding: Kinetic differences and mutational analysis. Proteins: Structure, Function and Bioinformatics, 2009, 75, 104-110.	2.6	144
44	Adhesion of membranes via receptor–ligand complexes: Domain formation, binding cooperativity, and active processes. Soft Matter, 2009, 5, 3213.	2.7	92
45	Binding cooperativity of membrane adhesion receptors. Soft Matter, 2009, 5, 3354.	2.7	71
46	Constructing the equilibrium ensemble of folding pathways from short off-equilibrium simulations. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19011-19016.	7.1	730
47	Transition States in Protein Folding Kinetics: Modeling Φ-Values of Small β-Sheet Proteins. Biophysical Journal, 2008, 94, 929-937.	0.5	17
48	Loop-closure principles in protein folding. Archives of Biochemistry and Biophysics, 2008, 469, 67-75.	3.0	24
49	The Protein Folding Problem. Annual Review of Biophysics, 2008, 37, 289-316.	10.0	916
50	Effective surface interactions mediated by adhesive particles. Europhysics Letters, 2008, 84, 26004.	2.0	13
51	Stable Patterns of Membrane Domains at Corrugated Substrates. Physical Review Letters, 2008, 100, 098103.	7.8	38
52	Lateral diffusion of receptor-ligand bonds in membrane adhesion zones: Effect of thermal membrane roughness. Europhysics Letters, 2007, 78, 38003.	2.0	38
53	Transition-States in Protein Folding Kinetics: The Structural Interpretation of $\hat{I}_1^+$ values. Journal of Molecular Biology, 2007, 365, 1578-1586.	4.2	32
54	The protein folding problem: when will it be solved?. Current Opinion in Structural Biology, 2007, 17, 342-346.	5.7	208

#	Article	IF	CITATIONS
55	Stochastic resonance for adhesion of membranes with active stickers. European Physical Journal E, 2007, 22, 97-106.	1.6	9
56	Chapter 4 Membrane Adhesion and Domain Formation. Behavior Research Methods, 2006, , 63-127.	4.0	14
57	Substructural cooperativity and parallel versus sequential events during protein unfolding. Proteins: Structure, Function and Bioinformatics, 2006, 63, 1052-1058.	2.6	13
58	A simple measure of nativeâ€state topology and chain connectivity predicts the folding rates of twoâ€state proteins with and without crosslinks. Proteins: Structure, Function and Bioinformatics, 2006, 64, 193-197.	2.6	18
59	Adhesion of membranes via switchable molecules. Physical Review E, 2006, 73, 061908.	2.1	12
60	Adhesion of Membranes with Active Stickers. Physical Review Letters, 2006, 96, 048101.	7.8	25
61	Membrane adhesion via competing receptor/ligand bonds. Europhysics Letters, 2006, 76, 703-709.	2.0	23
62	Loop-closure events during protein folding: Rationalizing the shape of Φ-value distributions. Proteins: Structure, Function and Bioinformatics, 2005, 60, 701-711.	2.6	13
63	values in protein-folding kinetics have energetic and structural components. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10171-10175.	7.1	40
64	Cooperativity in two-state protein folding kinetics. Protein Science, 2004, 13, 822-829.	7.6	66
65	Pattern Formation during T-Cell Adhesion. Biophysical Journal, 2004, 87, 3665-3678.	0.5	117
66	Indirect interactions of membrane-adsorbed cylinders. European Physical Journal E, 2003, 12, 265-273.	1.6	60
67	Folding Rates and Low-entropy-loss Routes of Two-state Proteins. Journal of Molecular Biology, 2003, 329, 585-598.	4.2	88
68	Folding Kinetics of Two-state Proteins: Effect of Circularization, Permutation, and Crosslinks. Journal of Molecular Biology, 2003, 332, 953-963.	4.2	51
69	Dynamic phase separation of fluid membranes with rigid inclusions. Physical Review E, 2002, 66, 061915.	2.1	17
70	Pattern formation during adhesion of multicomponent membranes. Europhysics Letters, 2002, 59, 916-922.	2.0	59
71	Adhesion of membranes with competing specific and generic interactions. European Physical Journal E, 2002, 8, 59-66.	1.6	55
72	Two direct methods to calculate fluctuation forces between rigid objects embedded in fluid membranes. European Physical Journal E, 2001, 5, 423-439.	1.6	20

#	Article	IF	CITATIONS
73	Fluctuation-induced aggregation of rigid membrane inclusions. Europhysics Letters, 2001, 54, 547-553.	2.0	45
74	Adhesion-induced phase behavior of multicomponent membranes. Physical Review E, 2001, 64, 011903.	2.1	65
75	Unbinding transitions and phase separation of multicomponent membranes. Physical Review E, 2000, 62, R45-R48.	2.1	40
76	Local Adhesion of Membranes to Striped Surface Domains. Langmuir, 2000, 16, 9338-9346.	3.5	14
77	Interaction of conical membrane inclusions: Effect of lateral tension. Physical Review E, 1998, 57, 6988-6995.	2.1	140