

# Ran Friedman

## List of Publications by Citations

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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.

78  
papers

1,783  
citations

21  
h-index

39  
g-index

86  
ext. papers

2,074  
ext. citations

4.2  
avg, IF

5.3  
L-index

#	Paper	IF	Citations
78	BCR-ABL1 compound mutations combining key kinase domain positions confer clinical resistance to ponatinib in Ph chromosome-positive leukemia. <i>Cancer Cell</i> , <b>2014</b> , 26, 428-442	24.3	233
77	Wordom: a user-friendly program for the analysis of molecular structures, trajectories, and free energy surfaces. <i>Journal of Computational Chemistry</i> , <b>2011</b> , 32, 1183-94	3.5	187
76	Amyloid aggregation on lipid bilayers and its impact on membrane permeability. <i>Journal of Molecular Biology</i> , <b>2009</b> , 387, 407-15	6.5	119
75	Membrane Protein Structure, Function, and Dynamics: a Perspective from Experiments and Theory. <i>Journal of Membrane Biology</i> , <b>2015</b> , 248, 611-40	2.3	101
74	Molecular dynamics of a protein surface: ion-residues interactions. <i>Biophysical Journal</i> , <b>2005</b> , 89, 768-81	2.9	62
73	Drug resistance in cancer: molecular evolution and compensatory proliferation. <i>Oncotarget</i> , <b>2016</b> , 7, 11746-55	3.3	46
72	Aggregation of amyloids in a cellular context: modelling and experiment. <i>Biochemical Journal</i> , <b>2011</b> , 438, 415-26	3.8	45
71	Discovery of plasmepsin inhibitors by fragment-based docking and consensus scoring. <i>ChemMedChem</i> , <b>2009</b> , 4, 1317-26	3.7	44
70	Terahertz radiation induces non-thermal structural changes associated with Fröhlich condensation in a protein crystal. <i>Structural Dynamics</i> , <b>2015</b> , 2, 054702	3.2	37
69	Fatty acid binding proteins: same structure but different binding mechanisms? Molecular dynamics simulations of intestinal fatty acid binding protein. <i>Biophysical Journal</i> , <b>2006</b> , 90, 1535-45	2.9	35
68	A molecular dynamics study of the effect of Ca <sup>2+</sup> removal on calmodulin structure. <i>Biophysical Journal</i> , <b>2006</b> , 90, 3842-50	2.9	35
67	Molecular dynamics simulations of palmitate entry into the hydrophobic pocket of the fatty acid binding protein. <i>FEBS Letters</i> , <b>2007</b> , 581, 1243-7	3.8	34
66	Molecular modelling and simulations in cancer research. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , <b>2013</b> , 1836, 1-14	11.2	33
65	Molecular dynamics simulations of the adipocyte lipid binding protein reveal a novel entry site for the ligand. <i>Biochemistry</i> , <b>2005</b> , 44, 4275-83	3.2	32
64	Ions and the protein surface revisited: extensive molecular dynamics simulations and analysis of protein structures in alkali-chloride solutions. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 9213-23	3.4	30
63	A molecular dynamics study and free energy analysis of complexes between the Mlc1p protein and two IQ motif peptides. <i>Biophysical Journal</i> , <b>2006</b> , 91, 2436-50	2.9	30
62	The protonation state of the catalytic aspartates in plasmepsin II. <i>FEBS Letters</i> , <b>2007</b> , 581, 4120-4	3.8	26

61	Understanding Conformational Dynamics of Complex Lipid Mixtures Relevant to Biology. <i>Journal of Membrane Biology</i> , <b>2018</b> , 251, 609-631	2.3	26
60	Structural and computational insights into the versatility of cadmium binding to proteins. <i>Dalton Transactions</i> , <b>2014</b> , 43, 2878-87	4.3	23
59	Minimum energy pathways for proton transfer between adjacent sites exposed to water. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 6059-70	3.4	22
58	Diffusion of anionic and neutral GFP derivatives through plasmodesmata in epidermal cells of <i>Nicotiana benthamiana</i> . <i>Protoplasma</i> , <b>2008</b> , 234, 13-23	3.4	21
57	Application of classical molecular dynamics for evaluation of proton transfer mechanism on a protein. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2005</b> , 1710, 67-77	4.6	21
56	Surfactant effects on amyloid aggregation kinetics. <i>Journal of Molecular Biology</i> , <b>2011</b> , 414, 303-12	6.5	20
55	Soluble Protofibrils as Metastable Intermediates in Simulations of Amyloid Fibril Degradation Induced by Lipid Vesicles. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 471-474	6.4	20
54	The mechanism of proton transfer between adjacent sites exposed to water. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 11379-88	3.4	20
53	Drug resistance missense mutations in cancer are subject to evolutionary constraints. <i>PLoS ONE</i> , <b>2013</b> , 8, e82059	3.7	20
52	The role of small intraprotein cavities in the catalytic cycle of bacteriorhodopsin. <i>Biophysical Journal</i> , <b>2003</b> , 85, 886-96	2.9	19
51	Dilution of whisky - the molecular perspective. <i>Scientific Reports</i> , <b>2017</b> , 7, 6489	4.9	18
50	The molecular mechanism behind resistance of the kinase FLT3 to the inhibitor quizartinib. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2017</b> , 85, 2143-2152	4.2	18
49	S100A4 and its role in metastasis Simulations of knockout and amplification of epithelial growth factor receptor and matrix metalloproteinases. <i>Molecular BioSystems</i> , <b>2015</b> , 11, 2247-54		18
48	The mechanism of proton transfer between adjacent sites on the molecular surface. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2006</b> , 1757, 931-41	4.6	17
47	Palbociclib can overcome mutations in cyclin dependent kinase 6 that break hydrogen bonds between the drug and the protein. <i>Protein Science</i> , <b>2017</b> , 26, 870-879	6.3	16
46	Membrane-Ion Interactions. <i>Journal of Membrane Biology</i> , <b>2018</b> , 251, 453-460	2.3	16
45	Pepsinogen-like activation intermediate of plasmepsin II revealed by molecular dynamics analysis. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2008</b> , 73, 814-27	4.2	16
44	The dynamics of proton transfer between adjacent sites. <i>Photochemical and Photobiological Sciences</i> , <b>2006</b> , 5, 531-7	4.2	16

43	Interaction Energies in Complexes of Zn and Amino Acids: A Comparison of Ab Initio and Force Field Based Calculations. <i>Journal of Physical Chemistry A</i> , <b>2017</b> , 121, 2643-2654	2.8	15
42	How warfarin's structural diversity influences its phospholipid bilayer membrane permeation. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 2384-95	3.4	14
41	Transcriptomic analysis reveals how a lack of potassium ions increases <i>Sulfolobus acidocaldarius</i> sensitivity to pH changes. <i>Microbiology (United Kingdom)</i> , <b>2016</b> , 162, 1422-1434	2.9	14
40	Protein-ion Interactions: Simulations of Bovine Serum Albumin in Physiological Solutions of NaCl, KCl and LiCl. <i>Israel Journal of Chemistry</i> , <b>2017</b> , 57, 403-412	3.4	13
39	The catalytic activity of Abl1 single and compound mutations: Implications for the mechanism of drug resistance mutations in chronic myeloid leukaemia. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2019</b> , 1863, 732-741	4	13
38	Acute Toxicity-Supported Chronic Toxicity Prediction: A k-Nearest Neighbor Coupled Read-Across Strategy. <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 11659-77	6.3	13
37	Interaction energies between metal ions (Zn <sup>2+</sup> and Cd <sup>2+</sup> ) and biologically relevant ligands. <i>International Journal of Quantum Chemistry</i> , <b>2013</b> , 113, 2554-2562	2.1	13
36	Biological Membranes in Extreme Conditions: Simulations of Anionic Archaeal Tetraether Lipid Membranes. <i>PLoS ONE</i> , <b>2016</b> , 11, e0155287	3.7	13
35	S100A4 and its role in metastasis [Computational integration of data on biological networks. <i>Molecular BioSystems</i> , <b>2015</b> , 11, 2238-46		12
34	Electrolyte Solutions and Specific Ion Effects on Interfaces. <i>Journal of Chemical Education</i> , <b>2013</b> , 90, 1018-1023	12	
33	On the orientation of the catalytic dyad in aspartic proteases. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2010</b> , 78, 1575-82	4.2	11
32	The effects of combination treatments on drug resistance in chronic myeloid leukaemia: an evaluation of the tyrosine kinase inhibitors axitinib and asciminib. <i>BMC Cancer</i> , <b>2020</b> , 20, 397	4.8	10
31	Deciphering the molecular mechanism of FLT3 resistance mutations. <i>FEBS Journal</i> , <b>2020</b> , 287, 3200-3220	5.7	10
30	Oxidative hotspots on actin promote skeletal muscle weakness in rheumatoid arthritis. <i>JCI Insight</i> , <b>2019</b> , 5,	9.9	10
29	Sensitivity Analysis of the NPM-ALK Signalling Network Reveals Important Pathways for Anaplastic Large Cell Lymphoma Combination Therapy. <i>PLoS ONE</i> , <b>2016</b> , 11, e0163011	3.7	9
28	Stochastic modelling of tyrosine kinase inhibitor rotation therapy in chronic myeloid leukaemia. <i>BMC Cancer</i> , <b>2019</b> , 19, 508	4.8	8
27	Activation and Inactivation of the FLT3 Kinase: Pathway Intermediates and the Free Energy of Transition. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 5385-5394	3.4	8
26	A computational study of hedgehog signalling involved in basal cell carcinoma reveals the potential and limitation of combination therapy. <i>BMC Cancer</i> , <b>2018</b> , 18, 569	4.8	8

25	Computer simulations of alkali-acetate solutions: Accuracy of the forcefields in difference concentrations. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 194102	3.9	7
24	Protein surface dynamics: interaction with water and small solutes. <i>Journal of Biological Physics</i> , <b>2005</b> , 31, 433-52	1.6	7
23	Biological Membranes in Extreme Conditions: Anionic Tetraether Lipid Membranes and Their Interactions with Sodium and Potassium. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 10628-10634	3.4	7
22	Simulations Studies of Protein Kinases that are Molecular Targets in Cancer. <i>Israel Journal of Chemistry</i> , <b>2020</b> , 60, 667-680	3.4	6
21	Reverse engineering directed gene regulatory networks from transcriptomics and proteomics data of biomining bacterial communities with approximate Bayesian computation and steady-state signalling simulations. <i>BMC Bioinformatics</i> , <b>2020</b> , 21, 23	3.6	6
20	Computer simulations of the signalling network in FLT3 -acute myeloid leukaemia - indications for an optimal dosage of inhibitors against FLT3 and CDK6. <i>BMC Bioinformatics</i> , <b>2018</b> , 19, 155	3.6	6
19	Is breaking of a hydrogen bond enough to lead to drug resistance?. <i>Chemical Communications</i> , <b>2020</b> , 56, 6727-6730	5.8	5
18	Conformational modifications induced by internal tandem duplications on the FLT3 kinase and juxtamembrane domains. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 18467-18476	3.6	5
17	Wild type and mutants of the HET-s(218-289) prion show different flexibility at fibrillar ends: a simulation study. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2014</b> , 82, 399-404	4.2	5
16	Proton Transfer on the Molecular Surface of Proteins and Model Systems. <i>Israel Journal of Chemistry</i> , <b>2009</b> , 49, 149-153	3.4	5
15	The molecular mechanisms behind activation of FLT3 in acute myeloid leukemia and resistance to therapy by selective inhibitors.. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , <b>2021</b> , 1877, 188666	11.2	4
14	Pattern and Dynamics of FLT3 Duplications. <i>Journal of Chemical Information and Modeling</i> , <b>2020</b> , 60, 4005-4020	4.0	4
13	Understanding intermolecular interactions of large systems in ground state and excited state by using density functional based tight binding methods. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 194106	3.9	4
12	Clustering of atomic displacement parameters in bovine trypsin reveals a distributed lattice of atoms with shared chemical properties. <i>Scientific Reports</i> , <b>2019</b> , 9, 19281	4.9	4
11	Molecular dynamics study of a calmodulin-like protein with an IQ peptide: spontaneous refolding of the protein around the peptide. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2006</b> , 64, 133-46	4.2	3
10	Activation of Abl1 Kinase Explored Using Well-Tempered Metadynamics Simulations on an Essential Dynamics Sampled Path. <i>Journal of Chemical Theory and Computation</i> , <b>2021</b> , 17, 7260-7270	6.4	3
9	Combating drug resistance in acute myeloid leukaemia by drug rotations: the effects of quizartinib and pexidartinib. <i>Cancer Cell International</i> , <b>2021</b> , 21, 198	6.4	3
8	Computational studies of protein-drug binding affinity changes upon mutations in the drug target. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , e1563	7.9	3

7	Simulations of Biomolecules in Electrolyte Solutions. <i>Advanced Theory and Simulations</i> , <b>2019</b> , 2, 18001633,5	3.5	2
6	Myosin V movement: lessons from molecular dynamics studies of IQ peptides in the lever arm. <i>Biochemistry</i> , <b>2007</b> , 46, 14524-36	3.2	2
5	Inferring time-dependent population growth rates in cell cultures undergoing adaptation. <i>BMC Bioinformatics</i> , <b>2020</b> , 21, 583	3.6	2
4	Specific Ion and Concentration Effects in Acetate Solutions with Na , K and Cs. <i>ChemPhysChem</i> , <b>2019</b> , 20, 1006-1010	3.2	1
3	Preferential Binding of Lanthanides to Methanol Dehydrogenase Evaluated with Density Functional Theory. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 2251-2257	3.4	1
2	Rotating between ponatinib and imatinib temporarily increases the efficacy of imatinib as shown in a chronic myeloid leukaemia model.. <i>Scientific Reports</i> , <b>2022</b> , 12, 5164	4.9	1
1	An interactive computer lab of the galvanic cell for students in biochemistry. <i>Biochemistry and Molecular Biology Education</i> , <b>2018</b> , 46, 58-65	1.3	0