

Ran Friedman

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.

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	Rotating between ponatinib and imatinib temporarily increases the efficacy of imatinib as shown in a chronic myeloid leukaemia model.. <i>Scientific Reports</i> , 2022 , 12, 5164	4.9	1
77	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> , 2021 , 1877, 188666	11.2	4
76	Activation of Abl1 Kinase Explored Using Well-Tempered Metadynamics Simulations on an Essential Dynamics Sampled Path. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 7260-7270	6.4	3
75	Preferential Binding of Lanthanides to Methanol Dehydrogenase Evaluated with Density Functional Theory. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 2251-2257	3.4	1
74	Combating drug resistance in acute myeloid leukaemia by drug rotations: the effects of quizartinib and pexidartinib. <i>Cancer Cell International</i> , 2021 , 21, 198	6.4	3
73	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> , 2021 , 154, 194106	3.9	4
72	Simulations Studies of Protein Kinases that are Molecular Targets in Cancer. <i>Israel Journal of Chemistry</i> , 2020 , 60, 667-680	3.4	6
71	Is breaking of a hydrogen bond enough to lead to drug resistance?. <i>Chemical Communications</i> , 2020 , 56, 6727-6730	5.8	5
70	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> , 2020 , 20, 397	4.8	10
69	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> , 2020 , 21, 23	3.6	6
68	Deciphering the molecular mechanism of FLT3 resistance mutations. <i>FEBS Journal</i> , 2020 , 287, 3200-3220	5.7	10
67	Pattern and Dynamics of FLT3 Duplications. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 4005-4020	5.4	4
66	Inferring time-dependent population growth rates in cell cultures undergoing adaptation. <i>BMC Bioinformatics</i> , 2020 , 21, 583	3.6	2
65	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> , 2019 , 1863, 732-741	4	13
64	Simulations of Biomolecules in Electrolyte Solutions. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1800163	3.5	2
63	Stochastic modelling of tyrosine kinase inhibitor rotation therapy in chronic myeloid leukaemia. <i>BMC Cancer</i> , 2019 , 19, 508	4.8	8
62	Activation and Inactivation of the FLT3 Kinase: Pathway Intermediates and the Free Energy of Transition. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 5385-5394	3.4	8

61	Specific Ion and Concentration Effects in Acetate Solutions with Na , K and Cs. <i>ChemPhysChem</i> , 2019 , 20, 1006-1010	3.2	1
60	Conformational modifications induced by internal tandem duplications on the FLT3 kinase and juxtamembrane domains. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 18467-18476	3.6	5
59	Oxidative hotspots on actin promote skeletal muscle weakness in rheumatoid arthritis. <i>JCI Insight</i> , 2019 , 5,	9.9	10
58	Clustering of atomic displacement parameters in bovine trypsin reveals a distributed lattice of atoms with shared chemical properties. <i>Scientific Reports</i> , 2019 , 9, 19281	4.9	4
57	Membrane-Ion Interactions. <i>Journal of Membrane Biology</i> , 2018 , 251, 453-460	2.3	16
56	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> , 2018 , 19, 155	3.6	6
55	A computational study of hedgehog signalling involved in basal cell carcinoma reveals the potential and limitation of combination therapy. <i>BMC Cancer</i> , 2018 , 18, 569	4.8	8
54	An interactive computer lab of the galvanic cell for students in biochemistry. <i>Biochemistry and Molecular Biology Education</i> , 2018 , 46, 58-65	1.3	0
53	Understanding Conformational Dynamics of Complex Lipid Mixtures Relevant to Biology. <i>Journal of Membrane Biology</i> , 2018 , 251, 609-631	2.3	26
52	Protein-ion Interactions: Simulations of Bovine Serum Albumin in Physiological Solutions of NaCl, KCl and LiCl. <i>Israel Journal of Chemistry</i> , 2017 , 57, 403-412	3.4	13
51	Palbociclib can overcome mutations in cyclin dependent kinase 6 that break hydrogen bonds between the drug and the protein. <i>Protein Science</i> , 2017 , 26, 870-879	6.3	16
50	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> , 2017 , 121, 2643-2654	2.8	15
49	Dilution of whisky - the molecular perspective. <i>Scientific Reports</i> , 2017 , 7, 6489	4.9	18
48	The molecular mechanism behind resistance of the kinase FLT3 to the inhibitor quizartinib. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017 , 85, 2143-2152	4.2	18
47	Computer simulations of alkali-acetate solutions: Accuracy of the forcefields in difference concentrations. <i>Journal of Chemical Physics</i> , 2017 , 147, 194102	3.9	7
46	Biological Membranes in Extreme Conditions: Simulations of Anionic Archaeal Tetraether Lipid Membranes. <i>PLoS ONE</i> , 2016 , 11, e0155287	3.7	13
45	Sensitivity Analysis of the NPM-ALK Signalling Network Reveals Important Pathways for Anaplastic Large Cell Lymphoma Combination Therapy. <i>PLoS ONE</i> , 2016 , 11, e0163011	3.7	9
44	Drug resistance in cancer: molecular evolution and compensatory proliferation. <i>Oncotarget</i> , 2016 , 7, 11746-55	3.3	46

43	Transcriptomic analysis reveals how a lack of potassium ions increases <i>Sulfolobus acidocaldarius</i> sensitivity to pH changes. <i>Microbiology (United Kingdom)</i> , 2016 , 162, 1422-1434	2.9	14
42	Biological Membranes in Extreme Conditions: Anionic Tetraether Lipid Membranes and Their Interactions with Sodium and Potassium. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 10628-10634	3.4	7
41	Membrane Protein Structure, Function, and Dynamics: a Perspective from Experiments and Theory. <i>Journal of Membrane Biology</i> , 2015 , 248, 611-40	2.3	101
40	Acute Toxicity-Supported Chronic Toxicity Prediction: A k-Nearest Neighbor Coupled Read-Across Strategy. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 11659-77	6.3	13
39	S100A4 and its role in metastasis \square Computational integration of data on biological networks. <i>Molecular BioSystems</i> , 2015 , 11, 2238-46		12
38	Terahertz radiation induces non-thermal structural changes associated with Fröhlich condensation in a protein crystal. <i>Structural Dynamics</i> , 2015 , 2, 054702	3.2	37
37	S100A4 and its role in metastasis \square Simulations of knockout and amplification of epithelial growth factor receptor and matrix metalloproteinases. <i>Molecular BioSystems</i> , 2015 , 11, 2247-54		18
36	Structural and computational insights into the versatility of cadmium binding to proteins. <i>Dalton Transactions</i> , 2014 , 43, 2878-87	4.3	23
35	BCR-ABL1 compound mutations combining key kinase domain positions confer clinical resistance to ponatinib in Ph chromosome-positive leukemia. <i>Cancer Cell</i> , 2014 , 26, 428-442	24.3	233
34	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> , 2014 , 82, 399-404	4.2	5
33	Electrolyte Solutions and Specific Ion Effects on Interfaces. <i>Journal of Chemical Education</i> , 2013 , 90, 1018-1023	1.2	12
32	How warfarin \square structural diversity influences its phospholipid bilayer membrane permeation. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 2384-95	3.4	14
31	Interaction energies between metal ions (Zn ²⁺ and Cd ²⁺) and biologically relevant ligands. <i>International Journal of Quantum Chemistry</i> , 2013 , 113, 2554-2562	2.1	13
30	Molecular modelling and simulations in cancer research. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2013 , 1836, 1-14	11.2	33
29	Drug resistance missense mutations in cancer are subject to evolutionary constraints. <i>PLoS ONE</i> , 2013 , 8, e82059	3.7	20
28	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> , 2011 , 115, 9213-23	3.4	30
27	Surfactant effects on amyloid aggregation kinetics. <i>Journal of Molecular Biology</i> , 2011 , 414, 303-12	6.5	20
26	Aggregation of amyloids in a cellular context: modelling and experiment. <i>Biochemical Journal</i> , 2011 , 438, 415-26	3.8	45

25	Wordom: a user-friendly program for the analysis of molecular structures, trajectories, and free energy surfaces. <i>Journal of Computational Chemistry</i> , 2011 , 32, 1183-94	3.5	187
24	Soluble Protofibrils as Metastable Intermediates in Simulations of Amyloid Fibril Degradation Induced by Lipid Vesicles. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 471-474	6.4	20
23	On the orientation of the catalytic dyad in aspartic proteases. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010 , 78, 1575-82	4.2	11
22	Discovery of plasmepsin inhibitors by fragment-based docking and consensus scoring. <i>ChemMedChem</i> , 2009 , 4, 1317-26	3.7	44
21	Amyloid aggregation on lipid bilayers and its impact on membrane permeability. <i>Journal of Molecular Biology</i> , 2009 , 387, 407-15	6.5	119
20	Proton Transfer on the Molecular Surface of Proteins and Model Systems. <i>Israel Journal of Chemistry</i> , 2009 , 49, 149-153	3.4	5
19	Diffusion of anionic and neutral GFP derivatives through plasmodesmata in epidermal cells of <i>Nicotiana benthamiana</i> . <i>Protoplasma</i> , 2008 , 234, 13-23	3.4	21
18	Pepsinogen-like activation intermediate of plasmepsin II revealed by molecular dynamics analysis. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 73, 814-27	4.2	16
17	Myosin V movement: lessons from molecular dynamics studies of IQ peptides in the lever arm. <i>Biochemistry</i> , 2007 , 46, 14524-36	3.2	2
16	Minimum energy pathways for proton transfer between adjacent sites exposed to water. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 6059-70	3.4	22
15	Molecular dynamics simulations of palmitate entry into the hydrophobic pocket of the fatty acid binding protein. <i>FEBS Letters</i> , 2007 , 581, 1243-7	3.8	34
14	The protonation state of the catalytic aspartates in plasmepsin II. <i>FEBS Letters</i> , 2007 , 581, 4120-4	3.8	26
13	The dynamics of proton transfer between adjacent sites. <i>Photochemical and Photobiological Sciences</i> , 2006 , 5, 531-7	4.2	16
12	Fatty acid binding proteins: same structure but different binding mechanisms? Molecular dynamics simulations of intestinal fatty acid binding protein. <i>Biophysical Journal</i> , 2006 , 90, 1535-45	2.9	35
11	A molecular dynamics study of the effect of Ca ²⁺ removal on calmodulin structure. <i>Biophysical Journal</i> , 2006 , 90, 3842-50	2.9	35
10	A molecular dynamics study and free energy analysis of complexes between the Mlc1p protein and two IQ motif peptides. <i>Biophysical Journal</i> , 2006 , 91, 2436-50	2.9	30
9	The mechanism of proton transfer between adjacent sites on the molecular surface. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006 , 1757, 931-41	4.6	17
8	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> , 2006 , 64, 133-46	4.2	3

7	The mechanism of proton transfer between adjacent sites exposed to water. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 11379-88	3.4	20
6	Molecular dynamics of a protein surface: ion-residues interactions. <i>Biophysical Journal</i> , 2005 , 89, 768-81	2.9	62
5	Application of classical molecular dynamics for evaluation of proton transfer mechanism on a protein. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005 , 1710, 67-77	4.6	21
4	Molecular dynamics simulations of the adipocyte lipid binding protein reveal a novel entry site for the ligand. <i>Biochemistry</i> , 2005 , 44, 4275-83	3.2	32
3	Protein surface dynamics: interaction with water and small solutes. <i>Journal of Biological Physics</i> , 2005 , 31, 433-52	1.6	7
2	The role of small intraprotein cavities in the catalytic cycle of bacteriorhodopsin. <i>Biophysical Journal</i> , 2003 , 85, 886-96	2.9	19
1	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