

Mihaly Mezei

List of Publications by Year in descending order

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98
papers

4,778
citations

172457

29
h-index

102487

66
g-index

102
all docs

102
docs citations

102
times ranked

5210
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Docking: A Powerful Approach for Structure-Based Drug Discovery. <i>Current Computer-Aided Drug Design</i> , 2011, 7, 146-157.	1.2	1,955
2	A cavity-biased (T, V, $\frac{1}{4}$) Monte Carlo method for the computer simulation of fluids. <i>Molecular Physics</i> , 1980, 40, 901-906.	1.7	227
3	Monte Carlo studies of the structure of dilute aqueous solutions of Li ⁺ , Na ⁺ , K ⁺ , F ⁻ , and Cl ⁻ . <i>Journal of Chemical Physics</i> , 1981, 74, 6902-6910.	3.0	215
4	Theoretical studies of hydrogen bonding in liquid water and dilute aqueous solutions. <i>Journal of Chemical Physics</i> , 1981, 74, 622-632.	3.0	213
5	Polyproline II helix is the preferred conformation for unfolded polyaniline in water. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 55, 502-507.	2.6	158
6	Grand-canonical ensemble Monte Carlo study of dense liquid. <i>Molecular Physics</i> , 1987, 61, 565-582.	1.7	150
7	Studies on free energy calculations. I. Thermodynamic integration using a polynomial path. <i>Journal of Chemical Physics</i> , 1993, 99, 6052-6061.	3.0	91
8	A new method for mapping macromolecular topography. <i>Journal of Molecular Graphics and Modelling</i> , 2003, 21, 463-472.	2.4	89
9	Simulaid: A simulation facilitator and analysis program. <i>Journal of Computational Chemistry</i> , 2010, 31, 2658-2668.	3.3	85
10	Convergence characteristics of Monte Carlo "Metropolis computer simulations on liquid water. <i>Journal of Chemical Physics</i> , 1979, 71, 3366-3373.	3.0	78
11	Selective Inhibition of SIN3 Corepressor with Avermectins as a Novel Therapeutic Strategy in Triple-Negative Breast Cancer. <i>Molecular Cancer Therapeutics</i> , 2015, 14, 1824-1836.	4.1	65
12	Characterization of the Binding Site of Aspartame in the Human Sweet Taste Receptor. <i>Chemical Senses</i> , 2015, 40, 577-586.	2.0	64
13	Structure-Guided Discovery of Selective Antagonists for the Chromodomain of Polycomb Repressive Protein CBX7. <i>ACS Medicinal Chemistry Letters</i> , 2016, 7, 601-605.	2.8	55
14	Monte Carlo Computer Simulation of the Aqueous Hydration of the Glycine Zwitterion at 25°C. <i>Journal of Biomolecular Structure and Dynamics</i> , 1984, 2, 1-27.	3.5	51
15	Theoretical Calculation of the Liquid-Vapor Coexistence Curve of Water, Chloroform and Methanol with the Cavity-Biased Monte Carlo Method in the Gibbs Ensemble. <i>Molecular Simulation</i> , 1992, 9, 257-267.	2.0	50
16	Grand canonical ensemble Monte Carlo simulation of a lipid bilayer using extension biased rotations. <i>Journal of Chemical Physics</i> , 1999, 111, 10770-10773.	3.0	49
17	Excess free energy of different water models computed by Monte Carlo methods. <i>Molecular Physics</i> , 1982, 47, 1307-1315.	1.7	48
18	Monte Carlo Computer Simulation Studies of the Equilibrium Properties and Structure of Liquid Water. <i>Advances in Chemistry Series</i> , 1983, , 297-351.	0.6	47

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19	Lucanthone and Its Derivative Hycanthone Inhibit Apurinic Endonuclease-1 (APE1) by Direct Protein Binding. PLoS ONE, 2011, 6, e23679.	2.5	45
20	Convergence acceleration in Monte Carlo computer simulation on water and aqueous solutions. Journal of Chemical Physics, 1983, 78, 3156-3166.	3.0	43
21	Optimal position of solute for simulations. Journal of Computational Chemistry, 1997, 18, 812-815.	3.3	42
22	An NR2F1-specific agonist suppresses metastasis by inducing cancer cell dormancy. Journal of Experimental Medicine, 2022, 219, .	8.5	42
23	Prediction of protein loop structures using a local move Monte Carlo approach and a grid-based force field. Protein Engineering, Design and Selection, 2008, 21, 729-735.	2.1	35
24	TRAJELIX: A Computational Tool for the Geometric Characterization of Protein Helices During Molecular Dynamics Simulations. Journal of Computer-Aided Molecular Design, 2006, 20, 97-107.	2.9	34
25	TSH Receptor Signaling Abrogation by a Novel Small Molecule. Frontiers in Endocrinology, 2016, 7, 130.	3.5	34
26	Studies on free energy calculations. II. A theoretical approach to molecular solvation. Journal of Chemical Physics, 1994, 101, 6126-6140.	3.0	32
27	New Small Molecule Agonists to the Thyrotropin Receptor. Thyroid, 2015, 25, 51-62.	4.5	32
28	Direct Calculation of the Excess Free Energy of the Dense Lennard-Jones Fluid. Molecular Simulation, 1989, 2, 201-207.	2.0	31
29	Further quasicomponent distribution function analysis of liquid water. Temperature dependence of the results. Journal of Chemical Physics, 1982, 76, 593-600.	3.0	29
30	Evaluation of the Adaptive Umbrella Sampling Method. Molecular Simulation, 1989, 3, 301-313.	2.0	29
31	Monte Carlo Studies on Water in the dCpG/Proflavin Crystal Hydrate. Journal of Biomolecular Structure and Dynamics, 1983, 1, 287-297.	3.5	28
32	Computer simulation study of liquid CH ₂ F ₂ with a new effective pair potential model. Journal of Chemical Physics, 1999, 110, 2991-3002.	3.0	27
33	Identification of a small-molecule ligand that activates the neuropeptide receptor GPR171 and increases food intake. Science Signaling, 2016, 9, ra55.	3.6	26
34	Calculation of Solvation Free-Energy Differences for Large Solute Change from Computer Simulations with Quadrature-Based Nearly Linear Thermodynamic Integration. Molecular Simulation, 1993, 10, 225-239.	2.0	24
35	Modified Proximity Criteria for the Analysis of the Solvation of a Polyfunctional Solute. Molecular Simulation, 1988, 1, 327-332.	2.0	23
36	Efficient Monte Carlo sampling for long molecular chains using local moves, tested on a solvated lipid bilayer. Journal of Chemical Physics, 2003, 118, 3874-3879.	3.0	23

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37	Identifying a Small Molecule Blocking Antigen Presentation in Autoimmune Thyroiditis. <i>Journal of Biological Chemistry</i> , 2016, 291, 4079-4090.	3.4	23
38	The BigLEN-GPR171 Peptide Receptor System Within the Basolateral Amygdala Regulates Anxiety-Like Behavior and Contextual Fear Conditioning. <i>Neuropsychopharmacology</i> , 2017, 42, 2527-2536.	5.4	23
39	Monte Carlo loop refinement and virtual screening of the thyroid-stimulating hormone receptor transmembrane domain. <i>Journal of Biomolecular Structure and Dynamics</i> , 2015, 33, 1140-1152.	3.5	22
40	Virial-bias Monte Carlo methods. <i>Molecular Physics</i> , 1983, 48, 1075-1082.	1.7	21
41	MC-PHS: A Monte Carlo Implementation of the Primary Hydration Shell for Protein Folding and Design. <i>Biophysical Journal</i> , 2003, 84, 805-815.	0.5	21
42	Assessing the binding of cholinesterase inhibitors by docking and molecular dynamics studies. <i>Journal of Molecular Graphics and Modelling</i> , 2017, 76, 36-42.	2.4	21
43	Computer Aided Identification of Small Molecules Disrupting uPAR/ β 5 β 1- Integrin Interaction: A New Paradigm for Metastasis Prevention. <i>PLoS ONE</i> , 2009, 4, e4617.	2.5	20
44	A cooperative calculation and analysis of electric fields, induced dipole vectors and lattice energies for rotationally ordered ices IX, II and disordered Ih. <i>Molecular Physics</i> , 1980, 41, 883-905.	1.7	19
45	Homology Modeling and Site-Directed Mutagenesis To Identify Selective Inhibitors of Endothelin-Converting Enzyme-2. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 3378-3387.	6.4	17
46	Dockres: a computer program that analyzes the output of virtual screening of small molecules. <i>Source Code for Biology and Medicine</i> , 2010, 5, 2.	1.7	17
47	Generic solvent sites in a crystal. <i>Journal of Computational Chemistry</i> , 1984, 5, 523-527.	3.3	16
48	Transmembrane Domains of Attraction on the TSH Receptor. <i>Endocrinology</i> , 2015, 156, 488-498.	2.8	16
49	Monte Carlo analysis of conformational transitions in superhelical DNA. <i>Journal of Chemical Physics</i> , 1995, 103, 8653-8665.	3.0	15
50	Conformational Space Comparison of GnRH and IGnRH-III using Molecular Dynamics, Cluster Analysis and Monte Carlo Thermodynamic Integration. <i>Journal of Biomolecular Structure and Dynamics</i> , 2001, 18, 733-748.	3.5	15
51	Computer Simulation Studies of the Fully Solvated Wild-type and Mutated GnRH in Extended and β turn Conformations. <i>Journal of Biomolecular Structure and Dynamics</i> , 1998, 16, 723-732.	3.5	14
52	Automatic Control of Solvent Density in Grand Canonical Ensemble Monte Carlo Simulations. <i>Journal of Chemical Theory and Computation</i> , 2006, 2, 1429-1434.	5.3	14
53	A Gq Biased Small Molecule Active at the TSH Receptor. <i>Frontiers in Endocrinology</i> , 2020, 11, 372.	3.5	13
54	Statistical Properties of Protein-Protein Interfaces. <i>Algorithms</i> , 2015, 8, 92-99.	2.1	12

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55	A Modifying Autoantigen in Gravesâ€™ Disease. <i>Endocrinology</i> , 2019, 160, 1008-1020.	2.8	11
56	Retro-inverso D-peptides as a novel targeted immunotherapy for Type 1 diabetes. <i>Journal of Autoimmunity</i> , 2020, 115, 102543.	6.5	10
57	Test of the overlap ratio method on the calculation of the aqueous hydration free energy difference between acetone and dimethylamine. <i>Molecular Physics</i> , 1988, 65, 219-223.	1.7	9
58	Modeling dimerizations of transmembrane proteins using Brownian dynamics simulations. <i>Journal of Computer-Aided Molecular Design</i> , 2008, 22, 553-561.	2.9	9
59	The energetics of the acetylation switch in p53â€™mediated transcriptional activation. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 447-456.	2.6	9
60	Discriminatory Power of Stoichiometry-Driven Protein Folding?. <i>Journal of Biomolecular Structure and Dynamics</i> , 2011, 28, 625-626.	3.5	9
61	Implications of an Improved Model of the TSH Receptor Transmembrane Domain (TSHR-TMD-TRIO). <i>Endocrinology</i> , 2021, 162, .	2.8	9
62	Inhibitor of CBP Histone Acetyltransferase Downregulates p53 Activation and Facilitates Methylation at Lysine 27 on Histone H3. <i>Molecules</i> , 2018, 23, 1930.	3.8	8
63	On predicting foldability of a protein from its sequence. <i>Proteins: Structure, Function and Bioinformatics</i> , 2020, 88, 355-365.	2.6	8
64	Rescore protein-protein docked ensembles with an interface contact statistics. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017, 85, 235-241.	2.6	7
65	Protein Binding Pocket Optimization for Virtual High-Throughput Screening (vHTS) Drug Discovery. <i>ACS Omega</i> , 2020, 5, 14297-14307.	3.5	7
66	Monte Carlo Studies of the Structure of Liquid Water and Dilute Aqueous Solutions. <i>ACS Symposium Series</i> , 1978, , 191-218.	0.5	6
67	Comparison of the percolation model with computer simulation results on different water models. <i>Molecular Physics</i> , 1984, 52, 1003-1010.	1.7	6
68	A Near-neighbour Algorithm for Metropolis Monte Carlo Simulations. <i>Molecular Simulation</i> , 1988, 1, 169-171.	2.0	6
69	Comment on â€™Molecular dynamics simulations in the grand canonical ensemble: Formulation of a bias potential for umbrella samplingâ€™[J. Chem. Phys. 110, 8295 (1999)]. <i>Journal of Chemical Physics</i> , 2000, 112, 1059-1060.	3.0	6
70	A novel fingerprint for the characterization of protein folds. <i>Protein Engineering, Design and Selection</i> , 2003, 16, 713-715.	2.1	6
71	Comparison of a quantum random number generator with pseudorandom number generators for their use in molecular Monte Carlo simulations. <i>Journal of Computational Chemistry</i> , 2017, 38, 2713-2720.	3.3	6
72	Revisiting Chameleon Sequences in the Protein Data Bank. <i>Algorithms</i> , 2018, 11, 114.	2.1	6

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73	Statistical Thermodynamics Through Computer Simulation to Characterize Phospholipid Interactions in Membranes. <i>Methods in Molecular Biology</i> , 2007, 400, 127-144.	0.9	5
74	The Biological Significance of Targeting Acetylation-Mediated Gene Regulation for Designing New Mechanistic Tools and Potential Therapeutics. <i>Biomolecules</i> , 2021, 11, 455.	4.0	5
75	Computational analysis of the effects of site-specific phosphate alkylation in the DNA oligomer {d-[GGAATCC]} ₂ . <i>Biopolymers</i> , 1990, 29, 597-607.	2.4	3
76	The Effect of the Combined Volume on the Efficiency of Gibbs Ensemble Simulations. <i>Molecular Simulation</i> , 1993, 11, 395-397.	2.0	3
77	Iso-energy cutoff for the calculation of interionic potential of mean force in water. <i>International Journal of Quantum Chemistry</i> , 1994, 52, 147-152.	2.0	3
78	Results from an Early Polarization Model Based on Maxwell's Invariant Multipole Form. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 2138-2145.	5.3	3
79	Automatic Determination of Stepsize Parameters in Monte Carlo Simulation Tested on a Bromodomain-Binding Octapeptide. <i>Algorithms</i> , 2009, 2, 215-226.	2.1	3
80	The role of protein "Stability patches" in molecular recognition: A case study of the human growth hormone receptor complex. <i>Journal of Computational Chemistry</i> , 2016, 37, 913-919.	3.3	3
81	Foldability and chameleon propensity of fold-switching protein sequences. <i>Proteins: Structure, Function and Bioinformatics</i> , 2021, 89, 3-5.	2.6	3
82	The anisotropic virial-biased sampling for Monte Carlo simulations in the isothermal-isobaric ensemble. <i>Molecular Physics</i> , 1999, 96, 293-296.	1.7	2
83	Calculating the local solvent chemical potential in crystal hydrates. <i>Physical Review E</i> , 2000, 62, 7077-7081.	2.1	2
84	Free Energy Simulations Over Creation/Annihilation Paths for a Flexible Solute. <i>Molecular Simulation</i> , 2002, 28, 39-44.	2.0	2
85	Use of circular variance to quantify the deviation of a macromolecule from the spherical shape. <i>Journal of Mathematical Chemistry</i> , 2015, 53, 2184-2190.	1.5	2
86	Exploiting Sparse Statistics for a Sequence-Based Prediction of the Effect of Mutations. <i>Algorithms</i> , 2019, 12, 214.	2.1	2
87	An algorithm for the calculation of the net induction energy and induced multipole tensors in a set of charge distributions with non-linear contributions of all potentials of external fields and both permanent and induced multipoles. <i>Molecular Physics</i> , 1986, 57, 1201-1218.	1.7	1
88	A novel approach to the calculation of the free energy due to molecular flexibility. <i>Journal of Mathematical Chemistry</i> , 2000, 27, 235-250.	1.5	1
89	Pspace: a program that assesses protein space. <i>Source Code for Biology and Medicine</i> , 2007, 2, 6.	1.7	1
90	In Silico Modeling of Novel Drug Ligands for Treatment of Concussion Associated Tauopathy. <i>Journal of Cellular Biochemistry</i> , 2016, 117, 2241-2248.	2.6	1

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91	Virtual screening of a natural compound library at orthosteric and allosteric binding sites of the neurotensin receptor. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 4494-4506.	3.5	1
92	The Human TSH \hat{I}^2 Subunit Proteins and Their Binding Sites on the TSH Receptor Using Molecular Dynamics Simulation. <i>Endocrinology</i> , 2020, 161, .	2.8	1
93	Observation of quantum signature in rivastigmine chemical bond break-up and quantum energetics, spectral studies of anti-Alzheimer inhibitors. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 118-128.	3.5	1
94	Use of the Codon Table to Quantify the Evolutionary Role of Random Mutations. <i>Algorithms</i> , 2021, 14, 270.	2.1	1
95	Using Force-Field Grids for Sampling Translation/Rotation of Partially Rigid Macromolecules. <i>Algorithms</i> , 2017, 10, 6.	2.1	0
96	OR10-2 A Modifying Autoantigen in Graves' Disease. <i>Journal of the Endocrine Society</i> , 2019, 3, .	0.2	0
97	SAT-558 Tsh Modulation Of Bone Biology - Further Evidence From A Recombinant Tsh- \hat{I}^2 Variant.. <i>Journal of the Endocrine Society</i> , 2019, 3, .	0.2	0
98	Tools for Characterizing Proteins: Circular Variance, Mutual Proximity, Chameleon Sequences, and Subsequence Propensities. <i>Methods in Molecular Biology</i> , 2022, 2405, 39-61.	0.9	0