

Andrij Baumketner

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,264
citations

346980

22
h-index

242451

47
g-index

60
all docs

60
docs citations

60
times ranked

2516
citing authors

#	ARTICLE	IF	CITATIONS
1	Liquid-gas critical point of a two-dimensional system of hard ellipses with attractive wells. <i>Journal of Chemical Physics</i> , 2022, 156, 034102.	1.2	2
2	Kagome lattice made by impenetrable ellipses with attractive walls. <i>Soft Matter</i> , 2022, 18, 3801-3814.	1.2	1
3	On the Mechanism of Alkylammonium Ligands Binding to the Surface of CsPbBr ₃ Nanocrystals. <i>Chemistry of Materials</i> , 2021, 33, 5962-5973.	3.2	39
4	Attraction between Like-Charged Macroions Mediated by Specific Counterion Configurations. <i>Journal of Physical Chemistry B</i> , 2019, 123, 9971-9983.	1.2	4
5	Cluster Crystals Stabilized by Hydrophobic and Electrostatic Interactions. <i>Journal of Physical Chemistry B</i> , 2018, 122, 2669-2682.	1.2	5
6	Clusters of lysozyme in aqueous solutions. <i>Physical Review E</i> , 2018, 98, .	0.8	6
7	Softness and non-spherical shape define the phase behavior and the structural properties of lysozyme in aqueous solutions. <i>Journal of Chemical Physics</i> , 2016, 144, 015103.	1.2	5
8	Equilibrium clusters in suspensions of colloids interacting via potentials with a local minimum. <i>Condensed Matter Physics</i> , 2016, 19, 13605.	0.3	8
9	Electric Field as a Disaggregating Agent for Amyloid Fibrils. <i>Journal of Physical Chemistry B</i> , 2014, 118, 14578-14589.	1.2	26
10	Reduced atomic pair-interaction design (RAPID) model for simulations of proteins. <i>Journal of Chemical Physics</i> , 2013, 138, 064102.	1.2	8
11	Generalized image charge solvation model for electrostatic interactions in molecular dynamics simulations of aqueous solutions. <i>Journal of Computational Physics</i> , 2013, 245, 84-106.	1.9	8
12	ICSM: An order method for calculating electrostatic interactions added to TINKER. <i>Computer Physics Communications</i> , 2013, 184, 19-26.	3.0	4
13	Effect of the Reaction Field on Molecular Forces and Torques Revealed by an Image-Charge Solvation Model. <i>Communications in Computational Physics</i> , 2013, 13, 129-149.	0.7	0
14	The mechanism of the converter domain rotation in the recovery stroke of myosin motor protein. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 2701-2710.	1.5	16
15	Interactions between relay helix and Src homology 1 (SH1) domain helix drive the converter domain rotation during the recovery stroke of myosin II. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 1569-1581.	1.5	5
16	Optimized Image Charges for Reaction Field Calculations. <i>Biophysical Journal</i> , 2011, 100, 157a.	0.2	0
17	Effect of atom- and group-based truncations on biomolecules simulated with reaction-field electrostatics. <i>Journal of Molecular Modeling</i> , 2011, 17, 2883-2893.	0.8	16
18	Early stages of the recovery stroke in myosin II studied by molecular dynamics simulations. <i>Protein Science</i> , 2011, 20, 2013-2022.	3.1	12

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19	Ionic solvation studied by image-charge reaction field method. <i>Journal of Chemical Physics</i> , 2011, 134, 044105.	1.2	23
20	Testing a Hybrid Solvation Model with a Transition Layer Via Molecular Dynamics Simulation. <i>Biophysical Journal</i> , 2010, 98, 575a.	0.2	0
21	An image-based reaction field method for electrostatic interactions in molecular dynamics simulations of aqueous solutions. <i>Journal of Chemical Physics</i> , 2009, 131, 154103.	1.2	38
22	Removing systematic errors in interionic potentials of mean force computed in molecular simulations using reaction-field-based electrostatics. <i>Journal of Chemical Physics</i> , 2009, 130, 104106.	1.2	27
23	Amyloid β -Protein: Experiment and Theory on the 21 β -30 Fragment. <i>Journal of Physical Chemistry B</i> , 2009, 113, 6041-6046.	1.2	50
24	Microscopic Factors that Control β -Sheet Registry in Amyloid Fibrils Formed by Fragment 11 β -25 of Amyloid β Peptide: Insights from Computer Simulations. <i>Journal of Molecular Biology</i> , 2009, 389, 921-937.	2.0	14
25	A new FFT-based algorithm to compute Born radii in the generalized Born theory of biomolecule solvation. <i>Journal of Computational Physics</i> , 2008, 227, 10162-10177.	1.9	12
26	Effects of Familial Alzheimer's Disease Mutations on the Folding Nucleation of the Amyloid β -Protein. <i>Journal of Molecular Biology</i> , 2008, 381, 221-228.	2.0	96
27	Role of the familial Dutch mutation E22Q in the folding and aggregation of the 15 β -28 fragment of the Alzheimer amyloid- β protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6027-6032.	3.3	78
28	Stability of a protein tethered to a surface. <i>Journal of Chemical Physics</i> , 2007, 126, 095101.	1.2	38
29	The Structure of the Alzheimer Amyloid β 10-35 Peptide Probed through Replica-Exchange Molecular Dynamics Simulations in Explicit Solvent. <i>Journal of Molecular Biology</i> , 2007, 366, 275-285.	2.0	132
30	Elucidating Amyloid β -Protein Folding and Assembly: A Multidisciplinary Approach. <i>Accounts of Chemical Research</i> , 2006, 39, 635-645.	7.6	203
31	Folding Landscapes of the Alzheimer Amyloid- β (12-28) Peptide. <i>Journal of Molecular Biology</i> , 2006, 362, 567-579.	2.0	74
32	Simulations of Protein Folding. <i>Reviews in Computational Chemistry</i> , 2006, , 169-228.	1.5	3
33	Amyloid beta-protein monomer structure: A computational and experimental study. <i>Protein Science</i> , 2006, 15, 420-428.	3.1	236
34	Structure of the 21-30 fragment of amyloid β -protein. <i>Protein Science</i> , 2006, 15, 1239-1247.	3.1	140
35	The Thermodynamics of Folding of a β Hairpin Peptide Probed Through Replica Exchange Molecular Dynamics Simulations. <i>Theoretical Chemistry Accounts</i> , 2006, 116, 262-273.	0.5	14
36	Effects of surface tethering on protein folding mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8396-8401.	3.3	102

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37	Aggregation of polyalanine in a hydrophobic environment. <i>Journal of Chemical Physics</i> , 2006, 124, 134904.	1.2	26
38	Free Energy Landscapes for Amyloidogenic Tetrapeptides Dimerization. <i>Biophysical Journal</i> , 2005, 89, 1493-1503.	0.2	55
39	Amyloid β -Protein: A Monomer Structure and Early Aggregation States of A β 242 and Its Pro19Alloform. <i>Journal of the American Chemical Society</i> , 2005, 127, 2075-2084.	6.6	321
40	The Influence of Different Treatments of Electrostatic Interactions on the Thermodynamics of Folding of Peptides. <i>Journal of Physical Chemistry B</i> , 2005, 109, 21322-21328.	1.2	33
41	Improved theoretical description of protein folding kinetics from rotations in the phase space of relevant order parameters. <i>Journal of Chemical Physics</i> , 2004, 121, 1114-1120.	1.2	7
42	Viscoelastic model for the dynamic structure factors of binary systems. <i>Physical Review E</i> , 2004, 70, 041201.	0.8	21
43	Accelerated folding in the weak hydrophobic environment of a chaperonin cavity: Creation of an alternate fast folding pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 13192-13197.	3.3	105
44	Effects of Confinement in Chaperonin Assisted Protein Folding: Rate Enhancement by Decreasing the Roughness of the Folding Energy Landscape. <i>Journal of Molecular Biology</i> , 2003, 332, 701-713.	2.0	111
45	Kinetics of the coil-to-helix transition on a rough energy landscape. <i>Physical Review E</i> , 2003, 68, 051901.	0.8	12
46	Glass transition in an off-lattice protein model studied by molecular dynamics simulations. <i>Physical Review E</i> , 2003, 67, 011912.	0.8	14
47	Molecular Dynamics Study of Protein Folding: Potentials and Mechanisms. <i>AIP Conference Proceedings</i> , 2003, , .	0.3	0
48	Diffusive dynamics of protein folding studied by molecular dynamics simulations of an off-lattice model. <i>Physical Review E</i> , 2002, 66, 011905.	0.8	16
49	Influence of the Hydrodynamic Interaction on Kinetics and Thermodynamics of Minimal Protein Models. <i>Journal of the Physical Society of Japan</i> , 2002, 71, 3069-3079.	0.7	9
50	Structural organization of a chain molecule with specific charge distribution: A molecular dynamics study. <i>Molecular Simulation</i> , 2002, 28, 359-375.	0.9	1
51	Stochastic tunneling minimization by molecular dynamics: an application to heteropolymer models. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 310, 139-150.	1.2	4
52	Running Multicanonical Simulations on Deformed Energy Surface: Application to a Model Protein. <i>Journal of the Physical Society of Japan</i> , 2002, 71, 1001-1002.	0.7	2
53	Finite-size dependence of the bridge function extracted from molecular dynamics simulations. <i>Physical Review E</i> , 2001, 63, 061201.	0.8	17
54	A Comparative Study of the Diffusion Processes in Liquid Binary Alloys with a Tendency to Aggregation and Segregation. <i>Defect and Diffusion Forum</i> , 2001, 188-190, 143-152.	0.4	0

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55	Helix transition in di-block polyampholyte. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 10279-10291.	0.7	18
56	A molecular dynamics study of the diffusion processes in liquid Na-K alloys. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 1397-1408.	0.7	8
57	Theoretical and computer simulation study of density fluctuations in liquid binary alloys. <i>European Physical Journal B</i> , 1999, 7, 129-136.	0.6	7
58	Correction for finite-size effects in molecular dynamics simulation of liquid alloys. <i>Journal of Non-Crystalline Solids</i> , 1999, 250-252, 354-359.	1.5	5
59	Dynamical Properties of Liquid Binary Alloys: A Memory Function Study. <i>Physics and Chemistry of Liquids</i> , 1996, 32, 87-102.	0.4	27
60	On the Mechanism of Alkylammonium Ligands Binding to the Surface of CsPbBr ₃ Nanocrystals. , 0, , .		0