

# Nicolae-Viorel Buchete

## List of Publications by Year in descending order

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52  
papers

3,213  
citations

236833

25  
h-index

197736

49  
g-index

55  
all docs

55  
docs citations

55  
times ranked

3843  
citing authors

#	ARTICLE	IF	CITATIONS
1	Computer Simulations of the Dissociation Mechanism of Gleevec from Abl Kinase with Milestoning. <i>Journal of Physical Chemistry B</i> , 2021, 125, 5706-5715.	1.2	20
2	Replica Exchange Molecular Dynamics of Diphenylalanine Amyloid Peptides in Electric Fields. <i>Journal of Physical Chemistry B</i> , 2021, 125, 5233-5242.	1.2	5
3	The transition between active and inactive conformations of Abl kinase studied by rock climbing and Milestoning. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129508.	1.1	26
4	Long-time methods for molecular dynamics simulations: Markov State Models and Milestoning. <i>Progress in Molecular Biology and Translational Science</i> , 2020, 170, 215-237.	0.9	8
5	Computational Opportunities and Challenges in Finding Cyclic Peptide Modulators of Protein-Protein Interactions. <i>Methods in Molecular Biology</i> , 2019, 2001, 73-95.	0.4	7
6	Structural Modulation of Human Amylin Protofilaments by Naturally Occurring Mutations. <i>Journal of Physical Chemistry B</i> , 2018, 122, 5657-5665.	1.2	11
7	Amyloid Fibril Design: Limiting Structural Polymorphism in Alzheimer's A $\beta$ Protofilaments. <i>Journal of Physical Chemistry B</i> , 2018, 122, 11535-11545.	1.2	7
8	Conformational analysis of replica exchange MD: Temperature-dependent Markov networks for FF amyloid peptides. <i>Journal of Chemical Physics</i> , 2018, 149, 072323.	1.2	7
9	Thermal and aqueous stability improvement of graphene oxide enhanced diphenylalanine nanocomposites. <i>Science and Technology of Advanced Materials</i> , 2017, 18, 172-179.	2.8	18
10	Profiling of a panel of radioresistant prostate cancer cells identifies deregulation of key miRNAs. <i>Clinical and Translational Radiation Oncology</i> , 2017, 2, 63-68.	0.9	20
11	Variational Identification of Markovian Transition States. <i>Physical Review X</i> , 2017, 7, .	2.8	28
12	Peptide dimerization-dissociation rates from replica exchange molecular dynamics. <i>Journal of Chemical Physics</i> , 2017, 147, 152725.	1.2	16
13	SARAH Domain-Mediated MST2-RASSF Dimeric Interactions. <i>PLoS Computational Biology</i> , 2016, 12, e1005051.	1.5	15
14	Phosphorylation of RAF Kinase Dimers Drives Conformational Changes that Facilitate Transactivation. <i>Angewandte Chemie</i> , 2016, 128, 995-998.	1.6	0
15	Coarse Master Equations for Binding Kinetics of Amyloid Peptide Dimers. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2676-2682.	2.1	25
16	Phosphorylation of RAF Kinase Dimers Drives Conformational Changes that Facilitate Transactivation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 983-986.	7.2	43
17	Coarse Master Equation-Based Analysis of N-Methylation and Temperature Effects on the Dynamics of Cyclic Peptides. <i>Biophysical Journal</i> , 2016, 110, 379a.	0.2	1
18	MST2-RASSF protein-protein interactions through SARAH domains. <i>Briefings in Bioinformatics</i> , 2016, 17, 593-602.	3.2	13

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19	Structural Stability of Diabetes-Related Amylin Protofilaments: Applications to Fibril Design. <i>Biophysical Journal</i> , 2015, 108, 387a.	0.2	1
20	Nanoscale Piezoelectric Properties of Self-Assembled Fmoc-FF Peptide Fibrous Networks. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 12702-12707.	4.0	69
21	Modulation of Alzheimer's A $\beta$ Protofilament-Membrane Interactions by Lipid Headgroups. <i>ACS Chemical Neuroscience</i> , 2015, 6, 446-455.	1.7	55
22	Membrane Protein Structure, Function, and Dynamics: a Perspective from Experiments and Theory. <i>Journal of Membrane Biology</i> , 2015, 248, 611-640.	1.0	157
23	Structure and dynamics of the fibronectin-III domains of <i>Aplysia californica</i> cell adhesion molecules. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9634-9643.	1.3	2
24	Amyloid $\beta$ Protein and Alzheimer's Disease: When Computer Simulations Complement Experimental Studies. <i>Chemical Reviews</i> , 2015, 115, 3518-3563.	23.0	530
25	Exposure of chick embryos to cadmium changes the extra-embryonic vascular branching pattern and alters expression of VEGF-A and VEGF-R2. <i>Toxicology and Applied Pharmacology</i> , 2015, 289, 79-88.	1.3	25
26	Conformational dynamics and aggregation behavior of piezoelectric diphenylalanine peptides in an external electric field. <i>Biophysical Chemistry</i> , 2015, 196, 16-24.	1.5	41
27	Molecular mechanisms of asymmetric RAF dimer activation. <i>Biochemical Society Transactions</i> , 2014, 42, 784-790.	1.6	28
28	Conformational and Dynamic Properties of Extracellular Domains of Cell Adhesion Molecules. <i>Biophysical Journal</i> , 2014, 106, 51a-52a.	0.2	0
29	Molecular Interactions of Alzheimer's A $\beta$ Peptide Fibrils and Oligomers with Lipid Membranes. <i>Biophysical Journal</i> , 2013, 104, 592a.	0.2	0
30	Note: Network random walk model of two-state protein folding: Test of the theory. <i>Journal of Chemical Physics</i> , 2013, 138, 036101.	1.2	5
31	Alzheimer A $\beta$ peptide interactions with lipid membranes. <i>Prion</i> , 2012, 6, 339-345.	0.9	58
32	Molecular Interactions of Alzheimer's A $\beta$ Protofilaments with Lipid Membranes. <i>Journal of Molecular Biology</i> , 2012, 421, 572-586.	2.0	64
33	Unlocking the Atomic-Level Details of Amyloid Fibril Growth through Advanced Biomolecular Simulations. <i>Biophysical Journal</i> , 2012, 103, 1411-1413.	0.2	12
34	Conformational dynamics of human IAPP monomers. <i>Biophysical Chemistry</i> , 2012, 167, 1-7.	1.5	22
35	Are Peptides Good Two-State Folders?. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 2370-2375.	2.3	18
36	Probing the Kinetic Network of Folding-Unfolding Transitions in Proteins. <i>Biophysical Journal</i> , 2011, 100, 536a-537a.	0.2	0

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37	Dynamics of protein folding: Probing the kinetic network of foldingâ€“unfolding transitions with experiment and theory. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 1001-1020.	1.1	51
38	Thermostat Artifacts in Replica Exchange Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 1393-1399.	2.3	81
39	Dynamics of Intra- and Inter-Helix Contact Formation. <i>Biophysical Journal</i> , 2009, 96, 427a.	0.2	0
40	Dissecting contact potentials for proteins: Relative contributions of individual amino acids. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 119-130.	1.5	15
41	Are Current Molecular Dynamics Force Fields too Helical?. <i>Biophysical Journal</i> , 2008, 95, L07-L09.	0.2	419
42	Peptide folding kinetics from replica exchange molecular dynamics. <i>Physical Review E</i> , 2008, 77, 030902.	0.8	104
43	Coarse Master Equations for Peptide Folding Dynamics. <i>Journal of Physical Chemistry B</i> , 2008, 112, 6057-6069.	1.2	444
44	Substrate-induced Conformational Changes and Dynamics of UDP-N-Acetylgalactosamine:Polypeptide N-Acetylgalactosaminyltransferase-2. <i>Journal of Molecular Biology</i> , 2007, 373, 439-451.	2.0	27
45	Structure and Dynamics of Parallel $\beta$ -Sheets, Hydrophobic Core, and Loops in Alzheimerâ€™s $A\beta$ Fibrils. <i>Biophysical Journal</i> , 2007, 92, 3032-3039.	0.2	126
46	Molecular Dynamics Simulations of Alzheimer's $\beta$ -Amyloid Protofilaments. <i>Journal of Molecular Biology</i> , 2005, 353, 804-821.	2.0	250
47	Development of novel statistical potentials for protein fold recognition. <i>Current Opinion in Structural Biology</i> , 2004, 14, 225-232.	2.6	118
48	Orientalional potentials extracted from protein structures improve native fold recognition. <i>Protein Science</i> , 2004, 13, 862-874.	3.1	84
49	Continuous anisotropic representation of coarse-grained potentials for proteins by spherical harmonics synthesis. <i>Journal of Molecular Graphics and Modelling</i> , 2004, 22, 441-450.	1.3	27
50	Orientation-dependent coarse-grained potentials derived by statistical analysis of molecular structural databases. <i>Polymer</i> , 2004, 45, 597-608.	1.8	25
51	Anisotropic coarse-grained statistical potentials improve the ability to identify natively like protein structures. <i>Journal of Chemical Physics</i> , 2003, 118, 7658.	1.2	54
52	Mean First-Passage Time Calculations for the Coil-to-Helix Transition: The Active Helix Ising Model. <i>Journal of Physical Chemistry B</i> , 2001, 105, 6684-6697.	1.2	29