

# Paweł, Krupa

## List of Publications by Year in descending order

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42  
papers

918  
citations

471371

17  
h-index

477173

29  
g-index

45  
all docs

45  
docs citations

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times ranked

749  
citing authors

#	ARTICLE	IF	CITATIONS
1	A unified coarse-grained model of biological macromolecules based on mean-field multipole–multipole interactions. <i>Journal of Molecular Modeling</i> , 2014, 20, 2306.	0.8	123
2	Blind prediction of homo- and hetero-protein complexes: The CASP13–CAPRI experiment. <i>Proteins: Structure, Function and Bioinformatics</i> , 2019, 87, 1200-1221.	1.5	99
3	Lessons from application of the UNRES force field to predictions of structures of CASP10 targets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14936-14941.	3.3	62
4	WeFold: A competition for protein structure prediction. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 1850-1868.	1.5	48
5	Performance of protein-structure predictions with the physics-based UNRES force field in CASP11. <i>Bioinformatics</i> , 2016, 32, 3270-3278.	1.8	44
6	Physics-Based Potentials for the Coupling between Backbone- and Side-Chain-Local Conformational States in the United Residue (UNRES) Force Field for Protein Simulations. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 817-831.	2.3	39
7	Maximum Likelihood Calibration of the UNRES Force Field for Simulation of Protein Structure and Dynamics. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 2364-2377.	2.5	38
8	Molecular modeling of the binding modes of the iron-sulfur protein to the Jac1 co-chaperone from <i>Saccharomyces cerevisiae</i> by all-atom and coarse-grained approaches. <i>Proteins: Structure, Function and Bioinformatics</i> , 2015, 83, 1414-1426.	1.5	32
9	Improvement of the Treatment of Loop Structures in the UNRES Force Field by Inclusion of Coupling between Backbone- and Side-Chain-Local Conformational States. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 4620-4632.	2.3	30
10	Inhibitors or toxins? Large library target-specific screening of fullerene-based nanoparticles for drug design purpose. <i>Nanoscale</i> , 2017, 9, 10263-10276.	2.8	29
11	Plant isoquinoline alkaloids as potential neurodrugs: A comparative study of the effects of benzo[c]phenanthridine and berberine-based compounds on $\beta$ -amyloid aggregation. <i>Chemico-Biological Interactions</i> , 2021, 334, 109300.	1.7	27
12	Prediction of protein structure with the coarse-grained UNRES force field assisted by small X-ray scattering data and knowledge-based information. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018, 86, 228-239.	1.5	26
13	Properties of monomeric $\text{A}\beta_{42}$ probed by different sampling methods and force fields: Role of energy components. <i>Journal of Chemical Physics</i> , 2019, 151, .	1.2	26
14	Structure and Physicochemical Properties of the $\text{A}\beta_{42}$ Tetramer: Multiscale Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2019, 123, 7253-7269.	1.2	25
15	Scale-consistent approach to the derivation of coarse-grained force fields for simulating structure, dynamics, and thermodynamics of biopolymers. <i>Progress in Molecular Biology and Translational Science</i> , 2020, 170, 73-122.	0.9	20
16	Use of the UNRES force field in template-assisted prediction of protein structures and the refinement of server models: Test with CASP12 targets. <i>Journal of Molecular Graphics and Modelling</i> , 2018, 83, 92-99.	1.3	19
17	An analysis and evaluation of the WeFold collaborative for protein structure prediction and its pipelines in CASP11 and CASP12. <i>Scientific Reports</i> , 2018, 8, 9939.	1.6	19
18	Evaluation of the scale-consistent UNRES force field in template-free prediction of protein structures in the CASP13 experiment. <i>Journal of Molecular Graphics and Modelling</i> , 2019, 92, 154-166.	1.3	19

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19	Preventing fibril formation of a protein by selective mutation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13549-13554.	3.3	17
20	Modeling protein structures with the coarse-grained UNRES force field in the CASP14 experiment. Journal of Molecular Graphics and Modelling, 2021, 108, 108008.	1.3	17
21	Prediction of Protein Structure by Template-Based Modeling Combined with the UNRES Force Field. Journal of Chemical Information and Modeling, 2015, 55, 1271-1281.	2.5	16
22	Use of Restraints from Consensus Fragments of Multiple Server Models To Enhance Protein-Structure Prediction Capability of the UNRES Force Field. Journal of Chemical Information and Modeling, 2016, 56, 2263-2279.	2.5	15
23	What Makes Telomeres Unique?. Journal of Physical Chemistry B, 2017, 121, 2207-2219.	1.2	15
24	Dynamics of Disulfide-Bond Disruption and Formation in the Thermal Unfolding of Ribonuclease A. Journal of Chemical Theory and Computation, 2017, 13, 5721-5730.	2.3	15
25	UNRES-Dockâ€”proteinâ€”protein and peptideâ€”protein docking by coarse-grained replica-exchange MD simulations. Bioinformatics, 2021, 37, 1613-1615.	1.8	14
26	Modeling the Structure, Dynamics, and Transformations of Proteins with the UNRES Force Field. Methods in Molecular Biology, 2022, 2376, 399-416.	0.4	14
27	Improved Consensus-Fragment Selection in Template-Assisted Prediction of Protein Structures with the UNRES Force Field in CASP13. Journal of Chemical Information and Modeling, 2020, 60, 1844-1864.	2.5	11
28	Studies of conformational changes of an arginine-binding protein from Thermotoga maritima in the presence and absence of ligand via molecular dynamics simulations with the coarse-grained UNRES force field. Journal of Molecular Modeling, 2015, 21, 64.	0.8	9
29	Amyloid Î² Dodecamer Disrupts the Neuronal Membrane More Strongly than the Mature Fibril: Understanding the Role of Oligomers in Neurotoxicity. Journal of Physical Chemistry B, 2022, 126, 3659-3672.	1.2	9
30	Ergodicity and model quality in templateâ€”restrained canonical and temperature/Hamiltonian replica exchange coarseâ€”grained molecular dynamics simulations of proteins. Journal of Computational Chemistry, 2017, 38, 2730-2746.	1.5	8
31	Role of the sulfur to Î±-carbon thioether bridges in thurincin H. Journal of Biomolecular Structure and Dynamics, 2017, 35, 2868-2879.	2.0	8
32	Computational Model to Unravel the Function of Amyloid-Î² Peptides in Contact with a Phospholipid Membrane. Journal of Physical Chemistry B, 2020, 124, 3300-3314.	1.2	7
33	Extension of the Unres Package for Physics-Based Coarse-Grained Simulations of Proteins and Protein Complexes to Very Large Systems. Biophysical Journal, 2021, 120, 83a-84a.	0.2	5
34	Prediction of CD28-CD86 protein complex structure using different level of resolution approach. Journal of Molecular Graphics and Modelling, 2021, 103, 107802.	1.3	4
35	Computational Studies of the Mechanical Stability for Single-Strand Break DNA. Journal of Physical Chemistry B, 2018, 122, 8166-8173.	1.2	3
36	Reoptimized UNRES Potential for Protein Model Quality Assessment. Genes, 2018, 9, 601.	1.0	2

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37	Computational Models for the Study of Protein Aggregation. <i>Methods in Molecular Biology</i> , 2022, 2340, 51-78.	0.4	2
38	Microscopic Physics-Based Models of Proteins and Nucleic Acids. , 2017, , 67-120.		1
39	Physics-Based Coarse-Grained Modeling in Bio- and Nanochemistry. , 2022, , 31-69.		1
40	Origin of the Architecture of Biological Macromolecules - A Mean-Field Perspective. <i>Biophysical Journal</i> , 2014, 106, 256a.	0.2	0
41	Use of Coarse-Grained and All-Atom Molecular Dynamics to Study Hsp70 and Hsp40 Chaperone Action. <i>Frontiers in Structural Biology</i> , 2018, , 23-46.	0.3	0
42	Bis-coumarin homodimersâ€™ potential inhibitors of amyloid aggregation of globular and intrinsically disordered proteins. <i>Biophysical Journal</i> , 2022, 121, 189a.	0.2	0