

Olgun Guvench

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

2,770
citations

393982

19
h-index

525886

27
g-index

28
all docs

28
docs citations

28
times ranked

3017
citing authors

#	ARTICLE	IF	CITATIONS
1	CHARMM Additive All-Atom Force Field for Glycosidic Linkages between Hexopyranoses. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 2353-2370.	2.3	578
2	CHARMM Additive All-Atom Force Field for Carbohydrate Derivatives and Its Utility in Polysaccharide and Carbohydrate-Protein Modeling. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 3162-3180.	2.3	559
3	Additive empirical force field for hexopyranose monosaccharides. <i>Journal of Computational Chemistry</i> , 2008, 29, 2543-2564.	1.5	483
4	Computational Fragment-Based Binding Site Identification by Ligand Competitive Saturation. <i>PLoS Computational Biology</i> , 2009, 5, e1000435.	1.5	208
5	CHARMM Additive All-Atom Force Field for Acyclic Polyalcohols, Acyclic Carbohydrates, and Inositol. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 1315-1327.	2.3	150
6	Reproducing Crystal Binding Modes of Ligand Functional Groups Using Site-Identification by Ligand Competitive Saturation (SILCS) Simulations. <i>Journal of Chemical Information and Modeling</i> , 2011, 51, 877-896.	2.5	105
7	Automated conformational energy fitting for force-field development. <i>Journal of Molecular Modeling</i> , 2008, 14, 667-679.	0.8	104
8	CHARMM Additive All-Atom Force Field for Phosphate and Sulfate Linked to Carbohydrates. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 759-776.	2.3	100
9	Computational evaluation of protein-small molecule binding. <i>Current Opinion in Structural Biology</i> , 2009, 19, 56-61.	2.6	73
10	Identification of Small Molecular Weight Inhibitors of Src Homology 2 Domain-Containing Tyrosine Phosphatase 2 (SHP-2) via in Silico Database Screening Combined with Experimental Assay. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 7396-7404.	2.9	39
11	Site Identification by Ligand Competitive Saturation (SILCS) Simulations for Fragment-Based Drug Design. <i>Methods in Molecular Biology</i> , 2015, 1289, 75-87.	0.4	37
12	Balancing target flexibility and target denaturation in computational fragment-based inhibitor discovery. <i>Journal of Computational Chemistry</i> , 2012, 33, 1880-1891.	1.5	36
13	Terminal sialic acids on CD44 N-glycans can block hyaluronan binding by forming competing intramolecular contacts with arginine sidechains. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 3079-3089.	1.5	34
14	Quantum Mechanical Analysis of 1,2-Ethandiol Conformational Energetics and Hydrogen Bonding. <i>Journal of Physical Chemistry A</i> , 2006, 110, 9934-9939.	1.1	30
15	Mechanism of Binding Site Conformational Switching in the CD44-Hyaluronan Protein-Carbohydrate Binding Interaction. <i>Journal of Molecular Biology</i> , 2011, 406, 631-647.	2.0	28
16	Revealing the Mechanisms of Protein Disorder and N-Glycosylation in CD44-Hyaluronan Binding Using Molecular Simulation. <i>Frontiers in Immunology</i> , 2015, 6, 305.	2.2	28
17	Sulfation and Cation Effects on the Conformational Properties of the Glycan Backbone of Chondroitin Sulfate Disaccharides. <i>Journal of Physical Chemistry B</i> , 2015, 119, 6063-6073.	1.2	28
18	CD44 Receptor Unfolding Enhances Binding by Freeing Basic Amino Acids to Contact Carbohydrate Ligand. <i>Biophysical Journal</i> , 2013, 105, 1217-1226.	0.2	21

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19	Peptide Backbone Sampling Convergence with the Adaptive Biasing Force Algorithm. <i>Journal of Physical Chemistry B</i> , 2013, 117, 518-526.	1.2	20
20	Computational functional group mapping for drug discovery. <i>Drug Discovery Today</i> , 2016, 21, 1928-1931.	3.2	19
21	Efficient Construction of Atomic-Resolution Models of Non-Sulfated Chondroitin Glycosaminoglycan Using Molecular Dynamics Data. <i>Biomolecules</i> , 2020, 10, 537.	1.8	16
22	Tyr66 acts as a conformational switch in the closed-to-open transition of the SHP-2 N-SH2-domain phosphotyrosine-peptide binding cleft. <i>BMC Structural Biology</i> , 2007, 7, 14.	2.3	13
23	Constructing 3-Dimensional Atomic-Resolution Models of Nonsulfated Glycosaminoglycans with Arbitrary Lengths Using Conformations from Molecular Dynamics. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7699.	1.8	13
24	Sulfation and Calcium Favor Compact Conformations of Chondroitin in Aqueous Solutions. <i>ACS Omega</i> , 2021, 6, 13204-13217.	1.6	13
25	Rigidity and flexibility in the tetrasaccharide linker of proteoglycans from atomic-resolution molecular simulation. <i>Journal of Computational Chemistry</i> , 2017, 38, 1438-1446.	1.5	12
26	Pyranose Ring Puckering Thermodynamics for Glycan Monosaccharides Associated with Vertebrate Proteins. <i>International Journal of Molecular Sciences</i> , 2022, 23, 473.	1.8	11
27	Folding of Fibroblast Growth Factor 1 Is Critical for Its Nonclassical Release. <i>Biochemistry</i> , 2016, 55, 1159-1167.	1.2	8