

Kota Kasahara

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7279965/kota-kasahara-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

486
citations

12
h-index

21
g-index

45
ext. papers

604
ext. citations

4.3
avg, IF

3.97
L-index

#	Paper	IF	Citations
42	Extended ensemble simulations of a SARS-CoV-2 nsp1-5'-UTR complex.. <i>PLoS Computational Biology</i> , 2022 , 18, e1009804	5	1
41	Information quantity for secondary structure propensities of protein subsequences in the Protein Data Bank.. <i>Biophysics and Physicobiology</i> , 2022 , 19, 1-12	1.4	
40	Difference of binding modes among three ligands to a receptor mSin3B corresponding to their inhibitory activities. <i>Scientific Reports</i> , 2021 , 11, 6178	4.9	0
39	All-Atom Molecular Dynamics Elucidating Molecular Mechanisms of Single-Transmembrane Model Peptide Dimerization in a Lipid Bilayer. <i>ACS Omega</i> , 2021 , 6, 11458-11465	3.9	0
38	New Protocol for Predicting the Ligand-Binding Site and Mode Based on the 3D-RISM/KH Theory. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 2864-2876	6.4	9
37	GA-guided mD-VcMD: A genetic-algorithm-guided method for multi-dimensional virtual-system coupled molecular dynamics. <i>Biophysics and Physicobiology</i> , 2020 , 17, 161-176	1.4	4
36	myPresto/omegagene 2020: a molecular dynamics simulation engine for virtual-system coupled sampling. <i>Biophysics and Physicobiology</i> , 2020 , 17, 140-146	1.4	5
35	Molecular Interaction Mechanism of a 14-3-3 Protein with a Phosphorylated Peptide Elucidated by Enhanced Conformational Sampling. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 4867-4880	6.1	3
34	Effects of ion-water Lennard-Jones potentials on the hydration dynamics around a monovalent atomic ion in molecular dynamics simulations. <i>Molecular Simulation</i> , 2020 , 46, 83-91	2	1
33	Gene Cascade Finder: A tool for identification of gene cascades and its application in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2019 , 14, e0215187	3.7	3
32	Free-energy landscape of molecular interactions between endothelin 1 and human endothelin type B receptor: fly-casting mechanism. <i>Protein Engineering, Design and Selection</i> , 2019 , 32, 297-308	1.9	7
31	Multimodal Structural Distribution of the p53 C-Terminal Domain upon Binding to S100B via a Generalized Ensemble Method: From Disorder to Extradisorder. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 2597-2607	6.4	13
30	Multidimensional virtual-system coupled canonical molecular dynamics to compute free-energy landscapes of peptide multimer assembly. <i>Journal of Computational Chemistry</i> , 2019 , 40, 2453-2463	3.5	7
29	Studies on Molecular Dynamics of Intrinsically Disordered Proteins and Their Fuzzy Complexes: A Mini-Review. <i>Computational and Structural Biotechnology Journal</i> , 2019 , 17, 712-720	6.8	22
28	Molecular dynamics coupled with a virtual system for effective conformational sampling. <i>Journal of Computational Chemistry</i> , 2018 , 39, 1291-1299	3.5	5
27	Enhanced Sampling of Molecular Dynamics Simulations of a Polyalanine Octapeptide: Effects of the Periodic Boundary Conditions on Peptide Conformation. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 2495-2503	3.4	12
26	Phosphorylation of an intrinsically disordered region of Ets1 shifts a multi-modal interaction ensemble to an auto-inhibitory state. <i>Nucleic Acids Research</i> , 2018 , 46, 2243-2251	20.1	22

25	Influence of various parameters in the replica-exchange molecular dynamics method: Number of replicas, replica-exchange frequency, and thermostat coupling time constant. <i>Biophysics and Physicobiology</i> , 2018 , 15, 165-172	1.4	4
24	Unfolding of Helical 20-residue poly-glutamic acid analyzed by multiple runs of canonical molecular dynamics simulations. <i>PeerJ</i> , 2018 , 6, e4769	3.1	3
23	Characteristics of interactions at protein segments without non-local intramolecular contacts in the Protein Data Bank. <i>PLoS ONE</i> , 2018 , 13, e0205052	3.7	1
22	Enhancement of canonical sampling by virtual-state transitions. <i>Journal of Chemical Physics</i> , 2017 , 146, 044104	3.9	12
21	Multi-dimensional virtual system introduced to enhance canonical sampling. <i>Journal of Chemical Physics</i> , 2017 , 147, 134102	3.9	7
20	Molecular mechanisms of cooperative binding of transcription factors Runx1-CBF/Ets1 on the TCR β gene enhancer. <i>PLoS ONE</i> , 2017 , 12, e0172654	3.7	8
19	An FPGA Accelerator for Molecular Dynamics Simulation Using OpenCL. <i>International Journal of Networked and Distributed Computing</i> , 2017 , 5, 52	1.3	3
18	myPresto/omegagene: a GPU-accelerated molecular dynamics simulator tailored for enhanced conformational sampling methods with a non-Ewald electrostatic scheme. <i>Biophysics and Physicobiology</i> , 2016 , 13, 209-216	1.4	16
17	Ion Concentration- and Voltage-Dependent Push and Pull Mechanisms of Potassium Channel Ion Conduction. <i>PLoS ONE</i> , 2016 , 11, e0150716	3.7	5
16	IBiSA_Tools: A Computational Toolkit for Ion-Binding State Analysis in Molecular Dynamics Trajectories of Ion Channels. <i>PLoS ONE</i> , 2016 , 11, e0167524	3.7	1
15	Landscape of protein-small ligand binding modes. <i>Protein Science</i> , 2016 , 25, 1659-71	6.3	3
14	mDCC_tools: characterizing multi-modal atomic motions in molecular dynamics trajectories. <i>Bioinformatics</i> , 2016 , 32, 2531-3	7.2	2
13	Architecture of an FPGA accelerator for molecular dynamics simulation using OpenCL 2016 ,		5
12	Virtual-system-coupled adaptive umbrella sampling to compute free-energy landscape for flexible molecular docking. <i>Journal of Computational Chemistry</i> , 2015 , 36, 1489-501	3.5	26
11	GIANT: pattern analysis of molecular interactions in 3D structures of protein-small ligand complexes. <i>BMC Bioinformatics</i> , 2014 , 15, 12	3.6	13
10	Specific non-local interactions are not necessary for recovering native protein dynamics. <i>PLoS ONE</i> , 2014 , 9, e91347	3.7	2
9	A novel approach of dynamic cross correlation analysis on molecular dynamics simulations and its application to Ets1 dimer-DNA complex. <i>PLoS ONE</i> , 2014 , 9, e112419	3.7	65
8	Comprehensive classification and diversity assessment of atomic contacts in protein-small ligand interactions. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 241-8	6.1	10

7	Ion concentration-dependent ion conduction mechanism of a voltage-sensitive potassium channel. <i>PLoS ONE</i> , 2013 , 8, e56342	3-7	12
6	ATTED-II updates: condition-specific gene coexpression to extend coexpression analyses and applications to a broad range of flowering plants. <i>Plant and Cell Physiology</i> , 2011 , 52, 213-9	4-9	133
5	Ligand-binding site prediction of proteins based on known fragment-fragment interactions. <i>Bioinformatics</i> , 2010 , 26, 1493-9	7-2	14
4	Tight-Binding Quantum Chemical Molecular Dynamics Study on First Proton Transfer Process of ORR Catalyzed by Cobalt-Porphyrin Complex. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, A490		19
3	Molecular interaction mechanism of a 14-3-3 protein with a phosphorylated peptide elucidated by enhanced conformational sampling		2
2	Effects of number of parallel runs and frequency of bias-strength replacement in generalized ensemble molecular dynamics simulations ¹ , e4		2
1	Modeling the SARS-CoV-2 nsp15EJTR complex via extended ensemble simulations		2