

Noriaki Okimoto

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3811074/publications.pdf>

Version: 2024-02-01

49
papers

1,123
citations

471509

17
h-index

414414

32
g-index

53
all docs

53
docs citations

53
times ranked

1736
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Performance Drug Discovery: Computational Screening by Combining Docking and Molecular Dynamics Simulations. <i>PLoS Computational Biology</i> , 2009, 5, e1000528.	3.2	150
2	FGF9 monomer-dimer equilibrium regulates extracellular matrix affinity and tissue diffusion. <i>Nature Genetics</i> , 2009, 41, 289-298.	21.4	104
3	Molecular Mechanisms of How Mercury Inhibits Water Permeation through Aquaporin-1: Understanding by Molecular Dynamics Simulation. <i>Biophysical Journal</i> , 2010, 98, 1512-1519.	0.5	86
4	Theoretical Studies of the ATP Hydrolysis Mechanism of Myosin. <i>Biophysical Journal</i> , 2001, 81, 2786-2794.	0.5	64
5	Folding Dynamics of 10-Residue β^2 -Hairpin Peptide Chignolin. <i>Chemistry - an Asian Journal</i> , 2007, 2, 591-598.	3.3	54
6	Drug binding dynamics of the dimeric SARS-CoV-2 main protease, determined by molecular dynamics simulation. <i>Scientific Reports</i> , 2020, 10, 16986.	3.3	54
7	An Efficient Computational Method for Calculating Ligand Binding Affinities. <i>PLoS ONE</i> , 2012, 7, e42846.	2.5	46
8	Hydrolysis Mechanism of the Phenylalanine-Proline Peptide Bond Specific to HIV-1 Protease: Investigation by the ab Initio Molecular Orbital Method. <i>Journal of the American Chemical Society</i> , 1999, 121, 7349-7354.	13.7	43
9	Gordon Bell finalists II—A 55 TFLOPS simulation of amyloid-forming peptides from yeast prion Sup35 with the special-purpose computer system MDGRAPE-3. , 2006, , .		43
10	All-Atom Molecular Dynamics Simulations of Entire Virus Capsid Reveal the Role of Ion Distribution in Capsid's Stability. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 779-784.	4.6	42
11	Novel Mechanism of Interaction of p85 Subunit of Phosphatidylinositol 3-Kinase and ErbB3 Receptor-derived Phosphotyrosyl Peptides. <i>Journal of Biological Chemistry</i> , 2005, 280, 1321-1326.	3.4	40
12	Molecular Dynamics Study of HIV-1 Protease-Substrate Complex: Roles of the Water Molecules at the Loop Structures of the Active Site. <i>Journal of the American Chemical Society</i> , 2000, 122, 5613-5622.	13.7	38
13	Tyr-317 Phosphorylation Increases Shc Structural Rigidity and Reduces Coupling of Domain Motions Remote from the Phosphorylation Site as Revealed by Molecular Dynamics Simulations. <i>Journal of Biological Chemistry</i> , 2004, 279, 4657-4662.	3.4	30
14	Free-Energy Landscapes of Protein Domain Movements upon Ligand Binding. <i>Journal of Physical Chemistry B</i> , 2011, 115, 7629-7636.	2.6	28
15	Assessment and acceleration of binding energy calculations for protein-ligand complexes by the fragment molecular orbital method. <i>Journal of Computational Chemistry</i> , 2015, 36, 2209-2218.	3.3	27
16	Computational Studies on Prion Proteins: Effect of Ala117Val Mutation. <i>Biophysical Journal</i> , 2002, 82, 2746-2757.	0.5	23
17	Structure and dynamics of RNA polymerase II elongation complex. <i>Biochemical and Biophysical Research Communications</i> , 2006, 343, 90-98.	2.1	22
18	Petascale molecular dynamics simulation using the fast multipole method on K computer. <i>Computer Physics Communications</i> , 2014, 185, 2575-2585.	7.5	22

#	ARTICLE	IF	CITATIONS
19	Molecular Dynamics Study on Class A β -Lactamase: Hydrogen Bond Network among the Functional Groups of Penicillin G and Side Chains of the Conserved Residues in the Active Site. <i>Journal of Physical Chemistry B</i> , 2003, 107, 10274-10283.	2.6	18
20	Ligand Diffusion on Protein Surface Observed in Molecular Dynamics Simulation. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3476-3479.	4.6	18
21	Single-Molecule Motions of MHC Class II Rely on Bound Peptides. <i>Biophysical Journal</i> , 2015, 108, 350-359.	0.5	16
22	Evaluation of protein-ligand affinity prediction using steered molecular dynamics simulations. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 3221-3231.	3.5	14
23	Use of the Multilayer Fragment Molecular Orbital Method to Predict the Rank Order of Protein-Ligand Binding Affinities: A Case Study Using Tankyrase 2 Inhibitors. <i>ACS Omega</i> , 2018, 3, 4475-4485.	3.5	14
24	Molecular Dynamics Study of Conformational Changes of Tankyrase 2 Binding Subsites upon Ligand Binding. <i>ACS Omega</i> , 2021, 6, 17609-17620.	3.5	14
25	Prediction of the Structure of Complexes Comprised of Proteins and Glycosaminoglycans Using Docking Simulation and Cluster Analysis. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 2347-2356.	5.3	13
26	A leukotriene C4 synthase inhibitor with the backbone of 5-(5-methylene-4-oxo-4,5-dihydrothiazol-2-ylamino) isophthalic acid. <i>Journal of Biochemistry</i> , 2013, 153, 421-429.	1.7	13
27	A new set of atomic radii for accurate estimation of solvation free energy by Poisson-Boltzmann solvent model. <i>Journal of Computational Chemistry</i> , 2014, 35, 2132-2139.	3.3	13
28	Molecular Dynamics Simulations of Prion Proteins-Effect of Ala117 .RAR.Val mutation-. <i>Chem-Bio Informatics Journal</i> , 2003, 3, 1-11.	0.3	12
29	Cooperative Motions of Protein and Hydration Water Molecules: A Molecular Dynamics Study of Scytalone Dehydratase. <i>Journal of the American Chemical Society</i> , 2004, 126, 13132-13139.	13.7	12
30	Acid-catalyzed deprotection mechanism of tert-butyloxycarbonyloxy polymers in chemically amplified resists. <i>Journal of Polymer Science Part A</i> , 1998, 36, 1035-1042.	2.3	10
31	Comparison of binding affinity evaluations for FKBP ligands with state-of-the-art computational methods: FMO, QM/MM, MM-PB/SA and MP-CAFE approaches. <i>Chem-Bio Informatics Journal</i> , 2010, 10, 32-45.	0.3	9
32	A pre-metazoan origin of the CRK gene family and co-opted signaling network. <i>Scientific Reports</i> , 2016, 6, 34349.	3.3	7
33	Refolding molecular dynamics simulations of small- and middle-sized proteins in an explicit solvent. <i>Molecular Simulation</i> , 2002, 28, 337-357.	2.0	5
34	Behavior of water molecules in ATPase pocket of myosin. <i>Computational and Theoretical Chemistry</i> , 2006, 758, 97-105.	1.5	4
35	Theoretical insights into the DNA repair function of <i>Arabidopsis thaliana</i> cryptochrome-DASH. <i>Biophysics and Physicobiology</i> , 2020, 17, 113-124.	1.0	4
36	Improvement of Sampling Efficiency through Combined use of Molecular Dynamics Simulations with Implicit and Explicit Solvent Models. <i>Biophysical Journal</i> , 2013, 104, 170a-171a.	0.5	2

#	ARTICLE	IF	CITATIONS
37	A novel bovine leukemia virus peptide vaccine targeting susceptible cattle-Production by 3-D modelling and nanotechnology. <i>Retrovirology</i> , 2015, 12, .	2.0	2
38	Gag Protein Hydrolysis Mechanism by HIV-1 Protease. Investigation by Semiempirical Molecular Orbital Method.. <i>Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal</i> , 1997, 1997, 260-266.	0.1	1
39	The Importance of OH groups Containing in Solid Films for High Sensitivity of Chemically Amplified Resists.. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2000, 13, 503-506.	0.3	1
40	Quantum chemical analysis of reaction indices and reaction path for drug molecules. <i>Journal of Physics: Conference Series</i> , 2019, 1290, 012021.	0.4	1
41	Constant pH molecular dynamics of porcine circovirus 2 capsid protein reveals a mechanism for capsid assembly. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 24617-24626.	2.8	1
42	Molecular dynamics investigation of the double stranded oligonucleotide d(AT)6d(AT)6. <i>Nucleic Acids Symposium Series</i> , 2002, 2, 175-176.	0.3	0
43	2P061 Investigation of Domain Motions in Proteins by Molecular Dynamics Simulations(Proteins-structure and structure-function relationship,Poster Presentations). <i>Seibutsu Butsuri</i> , 2007, 47, S128.	0.1	0
44	3P089 Computational Analysis on Selectivity of Protein Kinase Inhibitors(Protein: Function,The 48th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 0.1	0.1	0
45	Molecular Mechanisms How Mercury Inhibits Water Permeation of Aquaporin-1: Understanding by Molecular Dynamics Simulation. <i>Biophysical Journal</i> , 2010, 98, 568a.	0.5	0
46	Exploration of Free-Energy Profiles With Conformational Changes of Proteins. <i>Biophysical Journal</i> , 2010, 98, 26a.	0.5	0
47	1PT188 Improvement of sampling efficiency through combined use of molecular dynamics simulations with implicit and explicit solvent models(The 50th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2012, 52, S101.	0.1	0
48	[Special Issue for Honor Award dedicating to Prof Kimito Funatsu]Fast Evaluation of Potential Synthesis Routes Using Transition State Database(TSDB). <i>Journal of Computer Aided Chemistry</i> , 2019, 20, 50-55.	0.3	0
49	Theoretical Analyses for DNA Repair Function of Cryptochrome-DASH. <i>Seibutsu Butsuri</i> , 2022, 62, 116-118.	0.1	0