Sereina Riniker

List of Publications by Year in descending order

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SEDEINA DINIKED

#	Article	IF	CITATIONS
1	Recent developments in multiscale free energy simulations. Current Opinion in Structural Biology, 2022, 72, 55-62.	5.7	5
2	Enhanced sampling without borders: on global biasing functions and how to reweight them. Physical Chemistry Chemical Physics, 2022, 24, 1225-1236.	2.8	22
3	Incorporating NOE-Derived Distances in Conformer Generation of Cyclic Peptides with Distance Geometry. Journal of Chemical Information and Modeling, 2022, , .	5.4	7
4	Relative free-energy calculations for scaffold hopping-type transformations with an automated RE-EDS sampling procedure. Journal of Computer-Aided Molecular Design, 2022, 36, 117-130.	2.9	10
5	Learning Atomic Multipoles: Prediction of the Electrostatic Potential with Equivariant Graph Neural Networks. Journal of Chemical Theory and Computation, 2022, 18, 1701-1710.	5.3	12
6	Polar/apolar interfaces modulate the conformational behavior of cyclic peptides with impact on their passive membrane permeability. RSC Advances, 2022, 12, 5782-5796.	3.6	10
7	RestraintMaker: a graph-based approach to select distance restraints in free-energy calculations with dual topology. Journal of Computer-Aided Molecular Design, 2022, 36, 175-192.	2.9	5
8	Replica-Exchange Enveloping Distribution Sampling Using Generalized AMBER Force-Field Topologies: Application to Relative Hydration Free-Energy Calculations for Large Sets of Molecules. Journal of Chemical Information and Modeling, 2022, 62, 3043-3056.	5.4	5
9	Glycan–protein interactions determine kinetics of <i>N</i> -glycan remodeling. RSC Chemical Biology, 2021, 2, 917-931.	4.1	16
10	Ensembler: A Simple Package for Fast Prototyping and Teaching Molecular Simulations. Journal of Chemical Information and Modeling, 2021, 61, 560-564.	5.4	4
11	The Playbooks of Medicinal Chemistry Design Moves. Journal of Chemical Information and Modeling, 2021, 61, 729-742.	5.4	11
12	Volume-scaled common nearest neighbor clustering algorithm with free-energy hierarchy. Journal of Chemical Physics, 2021, 154, 084106.	3.0	8
13	Modulation of the Passive Permeability of Semipeptidic Macrocycles: N- and C-Methylations Fine-Tune Conformation and Properties. Journal of Medicinal Chemistry, 2021, 64, 5365-5383.	6.4	11
14	Machine Learning in QM/MM Molecular Dynamics Simulations of Condensed-Phase Systems. Journal of Chemical Theory and Computation, 2021, 17, 2641-2658.	5.3	76
15	Influence of Lipidation on the Folding and Stability of Collagen Triple Helices—An Experimental and Theoretical Study. Journal of the American Chemical Society, 2021, 143, 5937-5942.	13.7	25
16	Passing the Barrier – How Computer Simulations Can Help to Understand and Improve the Passive Membrane Permeability of Cyclic Peptides. Chimia, 2021, 75, 518-521.	0.6	4
17	GHOST: Adjusting the Decision Threshold to Handle Imbalanced Data in Machine Learning. Journal of Chemical Information and Modeling, 2021, 61, 2623-2640.	5.4	62
18	Mutanobactin D from the Human Microbiome: Total Synthesis, Configurational Assignment, and Biological Evaluation. Journal of the American Chemical Society, 2021, 143, 10389-10402.	13.7	16

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19	Effect of Flexibility, Lipophilicity, and the Location of Polar Residues on the Passive Membrane Permeability of a Series of Cyclic Decapeptides. Journal of Medicinal Chemistry, 2021, 64, 12761-12773.	6.4	22
20	N-Glycosylation Enhances Conformational Flexibility of Protein Disulfide Isomerase Revealed by Microsecond Molecular Dynamics and Markov State Modeling. Journal of Physical Chemistry B, 2021, 125, 9467-9479.	2.6	16
21	Solvent-scaling as an alternative to coarse-graining in adaptive-resolution simulations: The adaptive solvent-scaling (AdSoS) scheme. Journal of Chemical Physics, 2021, 155, 094107.	3.0	2
22	Efficient Alchemical Intermediate States in Free Energy Calculations Using λ-Enveloping Distribution Sampling. Journal of Chemical Theory and Computation, 2021, 17, 5805-5815.	5.3	8
23	On the Effect of the Various Assumptions and Approximations used in Molecular Simulations on the Properties of Bioâ€Molecular Systems: Overview and Perspective on Issues. ChemPhysChem, 2021, 22, 264-282.	2.1	12
24	Use of molecular dynamics fingerprints (MDFPs) in SAMPL6 octanol–water log P blind challenge. Journal of Computer-Aided Molecular Design, 2020, 34, 393-403.	2.9	19
25	Reaction-field electrostatics in molecular dynamics simulations: development of a conservative scheme compatible with an atomic cutoff. Physical Chemistry Chemical Physics, 2020, 22, 26419-26437.	2.8	16
26	Exploring Novel Directions in Free Energy Calculations. Journal of Chemical Information and Modeling, 2020, 60, 5283-5286.	5.4	9
27	Systematic Optimization of a Fragment-Based Force Field against Experimental Pure-Liquid Properties Considering Large Compound Families: Application to Saturated Haloalkanes. Journal of Chemical Theory and Computation, 2020, 16, 7525-7555.	5.3	21
28	Combining Machine Learning and Molecular Dynamics to Predict P-Glycoprotein Substrates. Journal of Chemical Information and Modeling, 2020, 60, 4730-4749.	5.4	30
29	Combining Molecular Dynamics and Machine Learning to Predict Self-Solvation Free Energies and Limiting Activity Coefficients. Journal of Chemical Information and Modeling, 2020, 60, 5319-5330.	5.4	31
30	Connecting the conformational behavior of cyclic octadepsipeptides with their ionophoric property and membrane permeability. Organic and Biomolecular Chemistry, 2020, 18, 7110-7126.	2.8	9
31	An Alternative to Conventional λ-Intermediate States in Alchemical Free Energy Calculations: λ-Enveloping Distribution Sampling. Journal of Chemical Information and Modeling, 2020, 60, 5407-5423.	5.4	18
32	On the faithfulness of molecular mechanics representations of proteins towards quantum-mechanical energy surfaces. Interface Focus, 2020, 10, 20190121.	3.0	13
33	Matched Molecular Series Analysis for ADME Property Prediction. Journal of Chemical Information and Modeling, 2020, 60, 2903-2914.	5.4	12
34	Determining the Regiochemistry and Relative Stereochemistry of Small and Druglike Molecules Using an Alignment Algorithm for Infrared Spectra. Analytical Chemistry, 2020, 92, 9124-9131.	6.5	10
35	Improving Conformer Generation for Small Rings and Macrocycles Based on Distance Geometry and Experimental Torsional-Angle Preferences. Journal of Chemical Information and Modeling, 2020, 60, 2044-2058.	5.4	82
36	A New Family of Rigid Dienone Musks Challenges the Perceptive Range of the Human Olfactory Receptor OR5AN1. Synlett, 2020, 31, 972-976.	1.8	8

Sereina Riniker

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37	Novel Directions in Free Energy Methods and Applications. Journal of Chemical Information and Modeling, 2020, 60, 1-5.	5.4	36
38	Connecting dynamic reweighting Algorithms: Derivation of the dynamic reweighting family tree. Journal of Chemical Physics, 2020, 153, 234106.	3.0	5
39	Localized and Collective Motions in HETâ€s(218â€289) Fibrils from Combined NMR Relaxation and MD Simulation. Angewandte Chemie - International Edition, 2019, 58, 9383-9388.	13.8	25
40	Localized and Collective Motions in HETâ€s(218â€289) Fibrils from Combined NMR Relaxation and MD Simulation. Angewandte Chemie, 2019, 131, 9483-9488.	2.0	9
41	Determination of Absolute Stereochemistry of Flexible Molecules Using a Vibrational Circular Dichroism Spectra Alignment Algorithm. Journal of Chemical Information and Modeling, 2019, 59, 1826-1838.	5.4	13
42	Toward the elucidation of the mechanism for passive membrane permeability of cyclic peptides. Future Medicinal Chemistry, 2019, 11, 637-639.	2.3	12
43	Benchmarking Hybrid Atomistic/Coarse-Grained Schemes for Proteins with an Atomistic Water Layer. Journal of Physical Chemistry B, 2019, 123, 3033-3042.	2.6	5
44	Beyond the Rosenfeld Equation: Computation of Vibrational Circular Dichroism Spectra for Anisotropic Solutions. Journal of Chemical Theory and Computation, 2019, 15, 2492-2503.	5.3	6
45	Fast Nosé–Hoover thermostat: molecular dynamics in quasi-thermodynamic equilibrium. Physical Chemistry Chemical Physics, 2019, 21, 6059-6070.	2.8	9
46	Machine Learning with and for Molecular Dynamics Simulations. Chimia, 2019, 73, 1024.	0.6	5
47	Rationalization of the Membrane Permeability Differences in a Series of Analogue Cyclic Decapeptides. Journal of Chemical Information and Modeling, 2019, 59, 294-308.	5.4	55
48	Machine Learning of Partial Charges Derived from High-Quality Quantum-Mechanical Calculations. Journal of Chemical Information and Modeling, 2018, 58, 579-590.	5.4	117
49	Fixed-Charge Atomistic Force Fields for Molecular Dynamics Simulations in the Condensed Phase: An Overview. Journal of Chemical Information and Modeling, 2018, 58, 565-578.	5.4	144
50	Validierung von molekularen Simulationen: eine Übersicht verschiedener Aspekte. Angewandte Chemie, 2018, 130, 894-915.	2.0	3
51	Validation of Molecular Simulation: An Overview of Issues. Angewandte Chemie - International Edition, 2018, 57, 884-902.	13.8	101
52	Virtual-screening workflow tutorials and prospective results from the Teach-Discover-Treat competition 2014 against malaria. F1000Research, 2018, 6, 1136.	1.6	6
53	11th Young Faculty Meeting, 5th June 2018. Chimia, 2018, 72, 550.	0.6	0
54	Anisotropic reaction field correction for long-range electrostatic interactions in molecular dynamics simulations. Journal of Chemical Physics, 2018, 148, 234105.	3.0	8

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55	Transition from Academia to Industry and Back. Journal of Chemical Information and Modeling, 2018, 58, 1469-1472.	5.4	2
56	A molecular mechanism for the enzymatic methylation of nitrogen atoms within peptide bonds. Science Advances, 2018, 4, eaat2720.	10.3	48
57	Density artefacts at interfaces caused by multiple time-step effects in molecular dynamics simulations. F1000Research, 2018, 7, 1745.	1.6	2
58	Density artefacts at interfaces caused by multiple time-step effects in molecular dynamics simulations. F1000Research, 2018, 7, 1745.	1.6	2
59	Improved accuracy of hybrid atomistic/coarse-grained simulations using reparametrised interactions. Journal of Chemical Physics, 2017, 146, 124131.	3.0	9
60	Efficient Round-Trip Time Optimization for Replica-Exchange Enveloping Distribution Sampling (RE-EDS). Journal of Chemical Theory and Computation, 2017, 13, 3020-3030.	5.3	25
61	Molecular Dynamics Fingerprints (MDFP): Machine Learning from MD Data To Predict Free-Energy Differences. Journal of Chemical Information and Modeling, 2017, 57, 726-741.	5.4	73
62	Interconversion Rates between Conformational States as Rationale for the Membrane Permeability of Cyclosporines. ChemPhysChem, 2017, 18, 3309-3314.	2.1	53
63	Cross-Linked Collagen Triple Helices by Oxime Ligation. Journal of the American Chemical Society, 2017, 139, 12815-12820.	13.7	50
64	The importance of N-methylations for the stability of the \$\$eta ^{6.3}\$\$ β 6.3 -helical conformation of polytheonamide B. European Biophysics Journal, 2017, 46, 363-374.	2.2	14
65	Virtual-screening workflow tutorials and prospective results from the Teach-Discover-Treat competition 2014 against malaria. F1000Research, 2017, 6, 1136.	1.6	7
66	Replica exchange enveloping distribution sampling (RE-EDS): A robust method to estimate multiple free-energy differences from a single simulation. Journal of Chemical Physics, 2016, 145, 154114.	3.0	23
67	A Lanthipeptideâ€like Nâ€Terminal Leader Region Guides Peptide Epimerization by Radical SAM Epimerases: Implications for RiPP Evolution. Angewandte Chemie, 2016, 128, 12518-12521.	2.0	9
68	A Lanthipeptideâ€like Nâ€Terminal Leader Region Guides Peptide Epimerization by Radical SAM Epimerases: Implications for RiPP Evolution. Angewandte Chemie - International Edition, 2016, 55, 12330-12333.	13.8	34
69	Kinetic Models of Cyclosporin A in Polar and Apolar Environments Reveal Multiple Congruent Conformational States. Journal of Chemical Information and Modeling, 2016, 56, 1547-1562.	5.4	95
70	A GROMOS-Compatible Force Field for Small Organic Molecules in the Condensed Phase: The 2016H66 Parameter Set. Journal of Chemical Theory and Computation, 2016, 12, 3825-3850.	5.3	118
71	The impact of molecular dynamics on drug design: applications for the characterization of ligand–macromolecule complexes. Drug Discovery Today, 2015, 20, 686-702.	6.4	171
72	Better Informed Distance Geometry: Using What We Know To Improve Conformation Generation. Journal of Chemical Information and Modeling, 2015, 55, 2562-2574.	5.4	327

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73	Crossing the Boundaries within Computational Chemistry: From Molecular Dynamics to Cheminformatics and back. Chimia, 2014, 68, 620-623.	0.6	Ο
74	Using Information from Historical High-Throughput Screens to Predict Active Compounds. Journal of Chemical Information and Modeling, 2014, 54, 1880-1891.	5.4	79
75	Rapid Sampling of Folding Equilibria of β-Peptides in Methanol Using a Supramolecular Solvent Model. Journal of Chemical Theory and Computation, 2014, 10, 2213-2223.	5.3	15
76	Free Enthalpy Differences between α-, ï€-, and 3 ₁₀ -Helices of an Atomic Level Fine-Grained Alanine Deca-Peptide Solvated in Supramolecular Coarse-Grained Water. Journal of Chemical Theory and Computation, 2013, 9, 1328-1333.	5.3	13
77	Heterogeneous Classifier Fusion for Ligand-Based Virtual Screening: Or, How Decision Making by Committee Can Be a Good Thing. Journal of Chemical Information and Modeling, 2013, 53, 2829-2836.	5.4	38
78	Multiâ€Resolution Simulation of Biomolecular Systems: A Review of Methodological Issues. Angewandte Chemie - International Edition, 2013, 52, 2820-2834.	13.8	72
79	Open-source platform to benchmark fingerprints for ligand-based virtual screening. Journal of Cheminformatics, 2013, 5, 26.	6.1	243
80	Free enthalpies of replacing water molecules in protein binding pockets. Journal of Computer-Aided Molecular Design, 2012, 26, 1293-1309.	2.9	23
81	Structural Effects of an Atomic-Level Layer of Water Molecules around Proteins Solvated in Supra-Molecular Coarse-Grained Water. Journal of Physical Chemistry B, 2012, 116, 8873-8879.	2.6	35
82	On developing coarse-grained models for biomolecular simulation: a review. Physical Chemistry Chemical Physics, 2012, 14, 12423.	2.8	216
83	Mixing coarse-grained and fine-grained water in molecular dynamics simulations of a single system. Journal of Chemical Physics, 2012, 137, 044120.	3.0	38
84	Solvating atomic level fine-grained proteins in supra-molecular level coarse-grained water for molecular dynamics simulations. European Biophysics Journal, 2012, 41, 647-661.	2.2	45
85	Reoptimized interaction parameters for the peptideâ€backbone model compound <i>N</i> â€methylacetamide in the GROMOS force field: Influence on the folding properties of two betaâ€peptides in methanol. Journal of Computational Chemistry, 2012, 33, 1907-1917.	3.3	13
86	Temperature Dependence of the Dielectric Permittivity of Acetic Acid, Propionic Acid and Their Methyl Esters: A Molecular Dynamics Simulation Study. ChemPhysChem, 2012, 13, 1182-1190.	2.1	19
87	New functionalities in the GROMOS biomolecular simulation software. Journal of Computational Chemistry, 2012, 33, 340-353.	3.3	98
88	Assessment of enveloping distribution sampling to calculate relative free enthalpies of binding for eight netropsin–DNA duplex complexes in aqueous solution. Journal of Computational Chemistry, 2012, 33, 640-651.	3.3	21
89	On the Use of Enveloping Distribution Sampling (EDS) to Compute Free Enthalpy Differences between Different Conformational States of Molecules: Application to 3 ₁₀ -, α-, and π-Helices. Journal of Chemical Theory and Computation, 2011, 7, 3884-3897.	5.3	18
90	Calculation of Relative Free Energies for Ligand-Protein Binding, Solvation, and Conformational Transitions Using the GROMOS Software. Journal of Physical Chemistry B, 2011, 115, 13570-13577.	2.6	71

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91	On the Calculation of the Dielectric Permittivity and Relaxation of Molecular Models in the Liquid Phase. Journal of Chemical Theory and Computation, 2011, 7, 1469-1475.	5.3	52
92	Definition and testing of the GROMOS force-field versions 54A7 and 54B7. European Biophysics Journal, 2011, 40, 843-856.	2.2	1,902
93	Comparison of enveloping distribution sampling and thermodynamic integration to calculate binding free energies of phenylethanolamine N-methyltransferase inhibitors. Journal of Chemical Physics, 2011, 135, 024105.	3.0	41
94	A simple, efficient polarizable coarse-grained water model for molecular dynamics simulations. Journal of Chemical Physics, 2011, 134, 084110.	3.0	121
95	Density artefacts at interfaces caused by multiple time-step effects in molecular dynamics simulations. F1000Research, 0, 7, 1745.	1.6	1