

Niels Hansen

List of Publications by Citations

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

63

papers

1,368

citations

19

h-index

36

g-index

66

ext. papers

1,570

ext. citations

4.6

avg, IF

4.92

L-index

#	Paper	IF	Citations
63	Practical Aspects of Free-Energy Calculations: A Review. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 2632-47	6.4	271
62	Quantum chemical modeling of benzene ethylation over H-ZSM-5 approaching chemical accuracy: a hybrid MP2:DFT study. <i>Journal of the American Chemical Society</i> , 2010 , 132, 11525-38	16.4	127
61	Validation of Molecular Simulation: An Overview of Issues. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 884-902	16.4	74
60	Theoretical Investigation of Benzene Alkylation with Ethene over H-ZSM-5. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 15402-15411	3.8	73
59	A Reaction Mechanism for the Nitrous Oxide Decomposition on Binuclear Oxygen Bridged Iron Sites in Fe-ZSM-5. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 2092-2101	3.8	73
58	Nitrous oxide decomposition over Fe-ZSM-5 in the presence of nitric oxide: a comprehensive DFT study. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 17096-114	3.4	71
57	Theoretical Simulation of n-Alkane Cracking on Zeolites. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10229-10239	3.8	50
56	Combined Density Functional Theory and Monte Carlo Analysis of Monomolecular Cracking of Light Alkanes Over H-ZSM-5. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 23408-23417	3.8	50
55	Molecular simulation of alkene adsorption in zeolites. <i>Molecular Physics</i> , 2005 , 103, 471-489	1.7	48
54	Reactive Monte Carlo and grand-canonical Monte Carlo simulations of the propene metathesis reaction system. <i>Journal of Chemical Physics</i> , 2005 , 122, 164705	3.9	43
53	New force fields for nitrous oxide and oxygen and their application to phase equilibria simulations. <i>Fluid Phase Equilibria</i> , 2007 , 259, 180-188	2.5	40
52	Comparison of enveloping distribution sampling and thermodynamic integration to calculate binding free energies of phenylethanolamine N-methyltransferase inhibitors. <i>Journal of Chemical Physics</i> , 2011 , 135, 024105	3.9	36
51	Thermophysical properties of glyceline-water mixtures investigated by molecular modelling. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 6467-6476	3.6	30
50	Olefin Metathesis in Confined Geometries: A Biomimetic Approach toward Selective Macrocyclization. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19014-19022	16.4	28
49	Current computer modeling cannot explain why two highly similar sequences fold into different structures. <i>Biochemistry</i> , 2011 , 50, 10965-73	3.2	27
48	Validation and Comparison of Force Fields for Native Cyclodextrins in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 1608-1626	3.4	25
47	Validation of Trimethylamine-N-oxide (TMAO) Force Fields Based on Thermophysical Properties of Aqueous TMAO Solutions. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 10674-10688	3.4	22

46	Deriving Structural Information from Experimentally Measured Data on Biomolecules. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15990-16010	16.4	21
45	Assessment of enveloping distribution sampling to calculate relative free enthalpies of binding for eight netropsin-DNA duplex complexes in aqueous solution. <i>Journal of Computational Chemistry</i> , 2012 , 33, 640-51	3.5	21
44	Time-averaged order parameter restraints in molecular dynamics simulations. <i>Journal of Biomolecular NMR</i> , 2014 , 60, 169-87	3	19
43	Multiscale Modeling of Reaction and Diffusion in Zeolites: From the Molecular Level to the Reactor. <i>Soft Materials</i> , 2012 , 10, 179-201	1.7	19
42	Calculation of binding affinities for linear alcohols to β-cyclodextrin by twin-system enveloping distribution sampling simulations. <i>Fluid Phase Equilibria</i> , 2016 , 422, 1-17	2.5	14
41	Efficient Combination of Environment Change and Alchemical Perturbation within the Enveloping Distribution Sampling (EDS) Scheme: Twin-System EDS and Application to the Determination of Octanol-Water Partition Coefficients. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 1334-46	6.4	14
40	Combining Molecular Dynamics and Machine Learning to Predict Self-Solvation Free Energies and Limiting Activity Coefficients. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 5319-5330	6.1	14
39	Calculation of Derivative Thermodynamic Hydration and Aqueous Partial Molar Properties of Ions Based on Atomistic Simulations. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 3542-64	6.4	11
38	Evolutionary Analysis As a Powerful Complement to Energy Calculations for Protein Stabilization. <i>ACS Catalysis</i> , 2018 , 8, 9420-9428	13.1	11
37	Molecular Simulations of Thermodynamic Properties for the System β-Cyclodextrin/Alcohol in Aqueous Solution. <i>Chemie-Ingenieur-Technik</i> , 2017 , 89, 1306-1314	0.8	8
36	Relative free enthalpies for point mutations in two proteins with highly similar sequences but different folds. <i>Biochemistry</i> , 2013 , 52, 4962-70	3.2	8
35	Comparison of free-energy methods using a tripeptide-water model system. <i>Journal of Computational Chemistry</i> , 2018 , 39, 2226-2242	3.5	8
34	Insights into Noncovalent Binding Obtained from Molecular Dynamics Simulations. <i>Chemie-Ingenieur-Technik</i> , 2018 , 90, 1864-1875	0.8	8
33	Bestimmung von Strukturinformation aus experimentellen Messdaten für Biomoleküle. <i>Angewandte Chemie</i> , 2016 , 128, 16222-16244	3.6	7
32	The key to predicting the stability of protein mutants lies in an accurate description and proper configurational sampling of the folded and denatured states. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015 , 1850, 983-995	4	7
31	Multiscale Approaches for Modeling Hydrocarbon Conversion Reactions in Zeolites. <i>Chemie-Ingenieur-Technik</i> , 2013 , 85, 413-419	0.8	7
30	Lessons Learned from the Calculation of One-Dimensional Potentials of Mean Force [Article v1.0]. <i>Living Journal of Computational Molecular Science</i> , 2019 , 1,	10.1	7
29	Interpretation of cytochrome P450 monooxygenase kinetics by modeling of thermodynamic activity. <i>Journal of Inorganic Biochemistry</i> , 2018 , 183, 172-178	4.2	6

28	PoreMS: a software tool for generating silica pore models with user-defined surface functionalisation and pore dimensions. <i>Molecular Simulation</i> , 1-11	2	6
27	On the Use of a Supramolecular Coarse-Grained Model for the Solvent in Simulations of the Folding Equilibrium of an Octa- β -peptide in MeOH and H ₂ O. <i>Helvetica Chimica Acta</i> , 2014 , 97, 1591-1605	2	4
26	On the Use of Side-Chain NMR Relaxation Data to Derive Structural and Dynamical Information on Proteins: A Case Study Using Hen Lysozyme. <i>ChemBioChem</i> , 2021 , 22, 1049-1064	3.8	4
25	Adsorption of light gases in covalent organic frameworks: comparison of classical density functional theory and grand canonical Monte Carlo simulations. <i>Microporous and Mesoporous Materials</i> , 2021 , 324, 111263	5.3	4
24	Confinement Effects for Efficient Macrocyclization Reactions with Supported Cationic Molybdenum Imido Alkylidene N-Heterocyclic Carbene Complexes. <i>ACS Catalysis</i> , 2021 , 11, 11570-11578	13.1	4
23	On the use of transport properties to discriminate Mie-type molecular models for 1-propanol optimized against VLE data. <i>European Physical Journal: Special Topics</i> , 2019 , 227, 1529-1545	2.3	3
22	Characterization of the flexible lip regions in bacteriophage lambda lysozyme using MD simulations. <i>European Biophysics Journal</i> , 2015 , 44, 235-47	1.9	3
21	Validierung von molekularen Simulationen: eine Übersicht verschiedener Aspekte. <i>Angewandte Chemie</i> , 2018 , 130, 894-915	3.6	3
20	An effective force field for molecular dynamics simulations of dimethyl sulfone. <i>Molecular Physics</i> , 2011 , 109, 2593-2605	1.7	3
19	Interpretation of Seemingly Contradictory Data: Low NMR S Order Parameters Observed in Helices and High NMR S Order Parameters in Disordered Loops of the Protein hGH at Low pH. <i>Chemistry - A European Journal</i> , 2017 , 23, 9585-9591	4.8	2
18	Using Complementary NMR Data Sets To Detect Inconsistencies and Model Flaws in the Structure Determination of Human Interleukin-4. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 7055-7063	3.4	2
17	Rotational barriers of carbamate-protected amine crosslinkers for hydrogels: A combined experimental and computational study. <i>Journal of Physical Organic Chemistry</i> , 2019 , 32, e3936	2.1	2
16	Chapter 6: Free Energy Calculation Methods and Rare Event Sampling Techniques for Biomolecular Simulations. <i>RSC Theoretical and Computational Chemistry Series</i> , 2016 , 185-214	1.2	2
15	Transferable Anisotropic Mie-Potential Force Field for n-Alcohols: Static and Dynamic Fluid Properties of Pure Substances and Binary Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 919-929	3.9	2
14	Thermodynamic Characterization of the Dimerization of an Anionic Perylene Bisimide Dye Using Molecular Simulation. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 8027-8036	3.8	2
13	Overcoming Convergence Issues in Free-Energy Calculations of Amide-to-Ester Mutations in the Pin1-WW Domain. <i>Journal of Chemical Information and Modeling</i> , 2018 , 58, 2305-2318	6.1	2
12	On the use of J-coupling NMR data to derive structural information on proteins. <i>Journal of Biomolecular NMR</i> , 2021 , 75, 39-70	3	2
11	On the Effect of the Various Assumptions and Approximations used in Molecular Simulations on the Properties of Bio-Molecular Systems: Overview and Perspective on Issues. <i>ChemPhysChem</i> , 2021 , 22, 264-282	3.2	2

10	On the use of time-averaging restraints when deriving biomolecular structure from π -coupling values obtained from NMR experiments. <i>Journal of Biomolecular NMR</i> , 2016 , 66, 69-83	3	1
9	Exploring the Effect of Enhanced Sampling on Protein Stability Prediction.. <i>Journal of Chemical Theory and Computation</i> , 2022 ,	6.4	1
8	Influence of layer slipping on adsorption of light gases in covalent organic frameworks: A combined experimental and computational study. <i>Microporous and Mesoporous Materials</i> , 2022 , 336, 111796	5.3	1
7	Binding free energies for the SAMPL8 CB8 "Drugs of Abuse" challenge from umbrella sampling combined with Hamiltonian replica exchange.. <i>Journal of Computer-Aided Molecular Design</i> , 2022 , 36, 1	4.2	0
6	Confined Ru-catalysts in a Two-phase Heptane/Ionic Liquid Solution: Modeling Aspects. <i>ChemCatChem</i> , 2021 , 13, 739-746	5.2	0
5	Molecular dynamics simulation or structure refinement of proteins: are solvent molecules required? A case study using hen lysozyme.. <i>European Biophysics Journal</i> , 2022 , 1	1.9	0
4	Generalized Fickian approach for phase separating fluid mixtures in Smoothed Particle Hydrodynamics. <i>Computers and Fluids</i> , 2019 , 179, 78-90	2.8	
3	Computational Study of Confinement Effects in Molecular Heterogeneous Catalysis 2021 , 101-114		
2	Umbrella sampling and double decoupling data for methanol binding to lipase B. <i>Data in Brief</i> , 2021 , 39, 107618	1.2	
1	An atomistic view on the uptake of aromatic compounds by cyclodextrin immobilized on mesoporous silica. <i>Adsorption</i> ,1	2.6	