

Niels Hansen

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/9272264/niels-hansen-publications-by-year.pdf>

Version: 2024-04-28

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.

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	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
62	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
61	Exploring the Effect of Enhanced Sampling on Protein Stability Prediction.. <i>Journal of Chemical Theory and Computation</i> , 2022 ,	6.4	1
60	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
59	Computational Study of Confinement Effects in Molecular Heterogeneous Catalysis 2021 , 101-114		
58	Umbrella sampling and double decoupling data for methanol binding to lipase B. <i>Data in Brief</i> , 2021 , 39, 107618	1.2	
57	Confined Ru-catalysts in a Two-phase Heptane/Ionic Liquid Solution: Modeling Aspects. <i>ChemCatChem</i> , 2021 , 13, 739-746	5.2	0
56	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
55	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
54	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
53	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
52	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
51	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
50	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
49	Generalized Fickian approach for phase separating fluid mixtures in Smoothed Particle Hydrodynamics. <i>Computers and Fluids</i> , 2019 , 179, 78-90	2.8	
48	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
47	Thermophysical properties of glyceline-water mixtures investigated by molecular modelling. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 6467-6476	3.6	30

46	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
45	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
44	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
43	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
42	Interpretation of cytochrome P450 monooxygenase kinetics by modeling of thermodynamic activity. <i>Journal of Inorganic Biochemistry</i> , 2018 , 183, 172-178	4.2	6
41	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
40	Validierung von molekularen Simulationen: eine Übersicht verschiedener Aspekte. <i>Angewandte Chemie</i> , 2018 , 130, 894-915	3.6	3
39	Validation of Molecular Simulation: An Overview of Issues. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 884-902	16.4	74
38	Comparison of free-energy methods using a tripeptide-water model system. <i>Journal of Computational Chemistry</i> , 2018 , 39, 2226-2242	3.5	8
37	Insights into Noncovalent Binding Obtained from Molecular Dynamics Simulations. <i>Chemie-Ingenieur-Technik</i> , 2018 , 90, 1864-1875	0.8	8
36	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
35	Evolutionary Analysis As a Powerful Complement to Energy Calculations for Protein Stabilization. <i>ACS Catalysis</i> , 2018 , 8, 9420-9428	13.1	11
34	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
33	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
32	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
31	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
30	Bestimmung von Strukturinformation aus experimentellen Messdaten für Biomoleküle. <i>Angewandte Chemie</i> , 2016 , 128, 16222-16244	3.6	7
29	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

28	Deriving Structural Information from Experimentally Measured Data on Biomolecules. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15990-16010	16.4	21
27	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
26	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
25	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
24	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
23	Practical Aspects of Free-Energy Calculations: A Review. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 2632-47	6.4	271
22	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
21	Time-averaged order parameter restraints in molecular dynamics simulations. <i>Journal of Biomolecular NMR</i> , 2014 , 60, 169-87	3	19
20	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
19	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
18	Multiscale Approaches for Modeling Hydrocarbon Conversion Reactions in Zeolites. <i>Chemie-Ingenieur-Technik</i> , 2013 , 85, 413-419	0.8	7
17	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
16	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
15	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
14	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
13	An effective force field for molecular dynamics simulations of dimethyl sulfone. <i>Molecular Physics</i> , 2011 , 109, 2593-2605	1.7	3
12	Current computer modeling cannot explain why two highly similar sequences fold into different structures. <i>Biochemistry</i> , 2011 , 50, 10965-73	3.2	27
11	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

10	Theoretical Simulation of n-Alkane Cracking on Zeolites. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10229-10234	3.8	34
9	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
8	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
7	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
6	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
5	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
4	Molecular simulation of alkene adsorption in zeolites. <i>Molecular Physics</i> , 2005 , 103, 471-489	1.7	48
3	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
2	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
1	An atomistic view on the uptake of aromatic compounds by cyclodextrin immobilized on mesoporous silica. <i>Adsorption</i> , 1	2.6	