

Simon Stephan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4587378/publications.pdf>

Version: 2024-02-01

29
papers

971
citations

394421

19
h-index

477307

29
g-index

31
all docs

31
docs citations

31
times ranked

414
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of thermodynamic models via Joule–Thomson inversion. <i>Fluid Phase Equilibria</i> , 2022, 556, 113401.	2.5	7
2	Molecular dynamics simulation study of heat transfer across solid–fluid interfaces in a simple model system. <i>Molecular Physics</i> , 2022, 120, .	1.7	13
3	Mass transfer through vapour–liquid interfaces: a molecular dynamics simulation study. <i>Molecular Physics</i> , 2021, 119, e1810798.	1.7	36
4	ms2: A molecular simulation tool for thermodynamic properties, release 4.0. <i>Computer Physics Communications</i> , 2021, 262, 107860.	7.5	31
5	Molecular Dynamics Study of Wetting and Adsorption of Binary Mixtures of the Lennard-Jones Truncated and Shifted Fluid on a Planar Wall. <i>Langmuir</i> , 2021, 37, 7405-7419.	3.5	19
6	Reproducibility of atomistic friction computer experiments: a molecular dynamics simulation study. <i>Molecular Simulation</i> , 2021, 47, 1509-1521.	2.0	6
7	Phase Field Modeling of Dynamic Surface Wetting informed by Molecular Simulations. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 21, .	0.2	1
8	Influence of dispersive long-range interactions on properties of vapour–liquid equilibria and interfaces of binary Lennard-Jones mixtures. <i>Molecular Physics</i> , 2020, 118, e1699185.	1.7	36
9	Review and comparison of equations of state for the Lennard-Jones fluid. <i>Fluid Phase Equilibria</i> , 2020, 523, 112772.	2.5	58
10	Characteristic Curves of the Lennard-Jones Fluid. <i>International Journal of Thermophysics</i> , 2020, 41, 147.	2.1	20
11	Vapor-liquid interfacial properties of the system cyclohexane+ CO ₂ : Experiments, molecular simulation and density gradient theory. <i>Fluid Phase Equilibria</i> , 2020, 518, 112583.	2.5	29
12	Enrichment at vapour–liquid interfaces of mixtures: establishing a link between nanoscopic and macroscopic properties. <i>International Reviews in Physical Chemistry</i> , 2020, 39, 319-349.	2.3	56
13	Molecular interactions at vapor-liquid interfaces: Binary mixtures of simple fluids. <i>Physical Review E</i> , 2020, 101, 012802.	2.1	36
14	Molecular dynamics and phase field simulations of droplets on surfaces with wettability gradient. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 361, 112773.	6.6	27
15	A Force Field for Poly(oxyethylene) Dimethyl Ethers (OME _n). <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 2517-2528.	5.3	12
16	Interfacial properties of binary mixtures of simple fluids and their relation to the phase diagram. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 12544-12564.	2.8	35
17	Interfacial properties of binary Lennard-Jones mixtures by molecular simulation and density gradient theory. <i>Journal of Chemical Physics</i> , 2019, 150, 174704.	3.0	53
18	Thermophysical Properties of the Lennard-Jones Fluid: Database and Data Assessment. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 4248-4265.	5.4	101

#	ARTICLE	IF	CITATIONS
19	MolMod – an open access database of force fields for molecular simulations of fluids. <i>Molecular Simulation</i> , 2019, 45, 806-814.	2.0	65
20	The Influence of Lubrication and the Solid–Fluid Interaction on Thermodynamic Properties in a Nanoscopic Scratching Process. <i>Langmuir</i> , 2019, 35, 16948-16960.	3.5	29
21	Effects of Lubrication on Friction and Heat Transfer in Machining Processes on the Nanoscale: A Molecular Dynamics Approach. <i>Procedia CIRP</i> , 2018, 67, 296-301.	1.9	11
22	SkaSim – Scalable HPC Software for Molecular Simulation in the Chemical Industry. <i>Chemie-Ingenieur-Technik</i> , 2018, 90, 295-306.	0.8	7
23	Equation of state for the Lennard-Jones truncated and shifted fluid with a cut-off radius of 2.5σ based on perturbation theory and its applications to interfacial thermodynamics. <i>Molecular Physics</i> , 2018, 116, 2083-2094.	1.7	61
24	Vapor–Liquid Interface of the Lennard-Jones Truncated and Shifted Fluid: Comparison of Molecular Simulation, Density Gradient Theory, and Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2018, 122, 24705-24715.	3.1	61
25	Molecular Dynamics Simulation Study of Mechanical Effects of Lubrication on a Nanoscale Contact Process. <i>Tribology Letters</i> , 2018, 66, 1.	2.6	25
26	Round Robin Study: Molecular Simulation of Thermodynamic Properties from Models with Internal Degrees of Freedom. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 4270-4280.	5.3	48
27	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml56" display="inline" overflow="scroll" altimg="si19.gif"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$: A molecular simulation tool for thermodynamic properties, release 3.0. <i>Computer Physics Communications</i> , 2017, 221, 343-351.	7.5	70
28	Sensorkonzept zur Bestimmung der Dampfeuchte und des thermischen Zustandspunkts von Nassdampf mittels Schwingungsspektroskopie. <i>TM Technisches Messen</i> , 2017, 84, 719-733.	0.7	1
29	Effects of Lubrication on the Friction in Nanometric Machining Processes: A Molecular Dynamics Approach. <i>Applied Mechanics and Materials</i> , 0, 869, 85-93.	0.2	15