Ãsmund Ervik

List of Publications by Year
in descending order

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24	336	840585 11	839398 18
papers	citations	h-index	g-index

25	25	25	315
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A multiscale porousâ€“resolved methodology for efficient simulation of heat and fluid transport in complex geometries, with application to electric power transformers. Applied Thermal Engineering, 2021, 183, 116133.	3.0	1
2	A combined fluid-dynamic and thermodynamic model to predict the onset of rapid phase transitions in LNG spills. Journal of Loss Prevention in the Process Industries, 2021, 69, 104354.	1.7	7
3	Condensation heat transfer of CO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.svg"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Âon Cu based hierarchical and nanostructured surfaces. International Journal of Heat and Mass Transfer, 2021, 175, 121367.	2.5	2
4	Heat transfer characteristics of CO2 condensation on common heat exchanger materials: Method development and experimental results. Experimental Thermal and Fluid Science, 2021, 129, 110440.	1.5	7
5	Machine learning and CFD for mapping and optimization of CO2 ejectors. Applied Thermal Engineering, 2021, 199, 117604.	3.0	23
6	A detailed review on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si52.svg"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CO</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> two-phase ejector flow modeling. Thermal Science and Engineering Progress, 2020, 20, 100647.	1.8	31
7	CO2 wetting on pillar-nanostructured substrates. Nanotechnology, 2020, 31, 245403.	1.3	6
8	Choice of reference, influence of non-additivity, and present challenges in thermodynamic perturbation theory for mixtures. Journal of Chemical Physics, 2020, 152, 134106.	1.2	5
9	A Guide to Computing Interfacial Properties of Fluids from Molecular Simulations [Article v1.0]. Living Journal of Computational Molecular Science, 2020, 2, .	2.2	17
10	Equation of state and force fields for Feynmanâ€“Hibbs-corrected Mie fluids. I. Application to pure helium, neon, hydrogen, and deuterium. Journal of Chemical Physics, 2019, 151, .	1.2	23
11	A consistent reduction of the two-layer shallow-water equations to an accurate one-layer spreading model. Physics of Fluids, 2019, 31, .	1.6	7
12	A review on wetting and water condensation - Perspectives for CO 2 Âcondensation. Advances in Colloid and Interface Science, 2018, 256, 291-304.	7.0	13
13	Prediction of the water/oil interfacial tension from molecular simulations using the coarse-grained SAFT-Î³ Mie force field. Fluid Phase Equilibria, 2018, 476, 9-15.	1.4	40
14	Influence of surfactants on the electrohydrodynamic stretching of water drops in oil. International Journal of Multiphase Flow, 2018, 98, 96-109.	1.6	13
15	Computation of three-dimensional three-phase flow of carbon dioxide using a high-order WENO scheme. Journal of Computational Physics, 2017, 348, 1-22.	1.9	8
16	The transition in settling velocity of surfactant-covered droplets from the Stokes to the Hadamardâ€“Rybczynski solution. European Journal of Mechanics, B/Fluids, 2017, 66, 10-19.	1.2	10
17	raaSAFT: A framework enabling coarse-grained molecular dynamics simulations based on the SAFT-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si16.gif" display="inline" overflow="scroll"><mml:mi>Î³</mml:mi></mml:math> Mie force field. Computer Physics Communications, 2017, 212, 161-179.	3.0	8
18	A multiscale method for simulating fluid interfaces covered with large molecules such as asphaltenes. Journal of Computational Physics, 2016, 327, 576-611.	1.9	12

#	Article	IF	Citations
19	Bottled SAFT: A Web App Providing SAFT-Î³ Mie Force Field Parameters for Thousands of Molecular Fluids. Journal of Chemical Information and Modeling, 2016, 56, 1609-1614.	2.5	36
20	Comment on the level-set method used in â€˜Numerical study on mobilization of oil slugs in capillary model with level set approachâ€™. Engineering Applications of Computational Fluid Mechanics, 2016, 10, 466-472.	1.5	3
21	Experimental and computational studies of water drops falling through model oil with surfactant and subjected to an electric field. , 2014, , .		6
22	A robust method for calculating interface curvature and normal vectors using an extracted local level set. Journal of Computational Physics, 2014, 257, 259-277.	1.9	22
23	Method Using a Densityâ€“Energy State Function with a Reference Equation of State for Fluid-Dynamics Simulation of Vaporâ€“Liquidâ€“Solid Carbon Dioxide. Industrial & Engineering Chemistry Research, 2013, 52, 9965-9978.	1.8	33
24	Experimental Methods for Investigating the Discrete Droplet Impact Phenomena of a Model Fluid Relevant for LNG Heat Exchangers. , 2013, , .		1