Bojan Niceno

List of Publications by Year
in descending order

37 papers	1,149 citations	430754 18 h-index	414303 32 g-index
37 all docs	37 docs citations	37 times ranked	828 citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamics and Dynamics of Supercritical Water Pseudo-Boiling. Advanced Science, 2021, 8, 2002312.	5.6	40
2	Deciphering the molecular mechanism of water boiling at heterogeneous interfaces. Scientific Reports, 2021, 11, 19858.	1.6	4
3	Influence of buoyancy in a mixed convection liquid metal flow for a horizontal channel configuration. International Journal of Heat and Fluid Flow, 2020, 85, 108630.	1.1	10
4	Modelling of reactor pressure vessel subjected to pressurized thermal shock using 3D-XFEM. Nuclear Engineering and Design, 2019, 353, 110237.	0.8	13
5	Supercritical water anomalies in the vicinity of the Widom line. Scientific Reports, 2019, 9, 15731.	1.6	27
6	Visualization of supercritical water pseudo-boiling at Widom line crossover. Nature Communications, 2019, 10, 4114.	5.8	85
7	Synthesis of a CFD benchmarking exercise for a T-junction with wall. Nuclear Engineering and Design, 2018, 330, 199-216.	0.8	13
8	Simulations of droplet merging with free surface and bubble column reactor with Finite-size Lagrangian particle tracking. Chemical Engineering Science, 2018, 176, 609-621.	1.9	2
9	Pool boiling simulation using an interface tracking method: From nucleate boiling to film boiling regime through critical heat flux. International Journal of Heat and Mass Transfer, 2018, 125, 876-890.	2.5	61
10	Corrective interface tracking approach to simulate finite-size bubbly flows. Chemical Engineering Science, 2018, 178, 61-69.	1.9	3
11	Data-driven modeling for boiling heat transfer: Using deep neural networks and high-fidelity simulation results. Applied Thermal Engineering, 2018, 144, 305-320.	3.0	79
12	Examples of Pool-Boiling Simulations Using an Interface Tracking Method Applied to Nucleate Boiling, Departure from Nucleate Boiling and Film Boiling. , 2018, , 225-263.		0
13	Large Eddy Simulation of multiple impinging jets in hexagonal configuration – Flow dynamics and heat transfer characteristics. International Journal of Heat and Mass Transfer, 2017, 109, 16-27.	2.5	27
14	Computational Fluid Dynamics Analysis of the Transient Cooling of the Boiling Surface at Bubble Departure. Journal of Heat Transfer, 2017, 139, .	1.2	15
15	Large eddy simulation of upward co-current annular boiling flow using an interface tracking method. Nuclear Engineering and Design, 2017, 321, 69-81.	0.8	10
16	The impact of sorbent geometry on the sulphur adsorption under supercritical water conditions: a numerical study. Biomass Conversion and Biorefinery, 2017, 7, 479-485.	2.9	0
17	Nucleate pool boiling simulations using the interface tracking method: Boiling regime from discrete bubble to vapor mushroom region. International Journal of Heat and Mass Transfer, 2017, 105, 505-524.	2.5	84
18	A Three-Dimensional, Immersed Boundary, Finite Volume Method for the Simulation of Incompressible Heat Transfer Flows around Complex Geometries. International Journal of Chemical Engineering, 2017, 2017, 1-14.	1.4	1

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19	Computational Fluid Dynamic Simulation of Single Bubble Growth under High-Pressure Pool Boiling Conditions. Nuclear Engineering and Technology, 2016, 48, 859-869.	1.1	20
20	A depletable micro-layer model for nucleate pool boiling. Journal of Computational Physics, 2015, 300, 20-52.	1.9	113
21	Direct numerical simulation of bubble dynamics in subcooled and near-saturated convective nucleate boiling. International Journal of Heat and Fluid Flow, 2015, 51, 16-28.	1.1	21
22	Finite size Lagrangian particle tracking approach to simulate dispersed bubbly flows. Chemical Engineering Science, 2015, 122, 321-335.	1.9	5
23	Computational Simulation of Turbulent Natural Convection in a Volumetrically Heated Hemispherical Cavity. , 2014, , .		0
24	Comparison of CFD simulations on two-phase Pressurized Thermal Shock scenarios. Nuclear Engineering and Design, 2014, 266, 112-128.	0.8	27
25	Large eddy simulation of multiple impinging jets in hexagonal configuration â€" Mean flow characteristics. International Journal of Heat and Fluid Flow, 2014, 46, 147-157.	1.1	17
26	A sharp-interface phase change model for a mass-conservative interface tracking method. Journal of Computational Physics, 2013, 249, 127-161.	1.9	165
27	Large eddy simulation of turbulent heat transfer at supercritical pressures. Nuclear Engineering and Design, 2013, 261, 44-55.	0.8	47
28	Computational Simulation of Turbulent Natural Convection in a Volumetrically Heated Square Cavity. , 2013, , .		7
29	Development of Mass-Conservative Phase-Change Model for Convective Boiling Simulations. , 2013, , .		0
30	Simulation of single-phase mixing in fuel rod bundles, using an immersed boundary method. Physica Scripta, 2013, T155, 014054.	1.2	3
31	COMPUTATIONAL FLUID DYNAMICS SIMULATION OF SINGLE BUBBLE DYNAMICS IN CONVECTIVE BOILING FLOWS. Multiphase Science and Technology, 2013, 25, 287-309.	0.2	7
32	A conservative local interface sharpening scheme for the constrained interpolation profile method. International Journal for Numerical Methods in Fluids, 2012, 70, 441-467.	0.9	35
33	A new contact line treatment for a conservative level set method. Journal of Computational Physics, 2012, 231, 3887-3895.	1.9	29
34	Computational study of conjugate heat transfer in T-junctions. Nuclear Engineering and Design, 2010, 240, 1548-1557.	0.8	51
35	MULTI-SCALE MODELING AND ANALYSIS OF CONVECTIVE BOILING: TOWARDS THE PREDICTION OF CHF IN ROD BUNDLES. Nuclear Engineering and Technology, 2010, 42, 620-635.	1.1	12
36	Large-eddy simulation (LES) of the large scale bubble plume. Chemical Engineering Science, 2009, 64, 2692-2704.	1.9	50

#	Article	IF	Citations
37	One-equation sub-grid scale (SGS) modelling for Euler–Euler large eddy simulation (EELES) of dispersed bubbly flow. Chemical Engineering Science, 2008, 63, 3923-3931.	1.9	66