

Chidambaram Narayanan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3060540/publications.pdf>

Version: 2024-02-01

32
papers

895
citations

567281

15
h-index

477307

29
g-index

32
all docs

32
docs citations

32
times ranked

778
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational heat transfer and two-phase flow topology in miniature tubes. <i>Microfluidics and Nanofluidics</i> , 2008, 4, 261-271.	2.2	111
2	Mechanisms of particle deposition in a fully developed turbulent open channel flow. <i>Physics of Fluids</i> , 2003, 15, 763-775.	4.0	105
3	Numerical modelling of a supercritical water oxidation reactor containing a hydrothermal flame. <i>Journal of Supercritical Fluids</i> , 2008, 46, 149-155.	3.2	85
4	Accurate numerical estimation of interphase momentum transfer in Lagrangian–Eulerian simulations of dispersed two-phase flows. <i>International Journal of Multiphase Flow</i> , 2007, 33, 1337-1364.	3.4	75
5	Adherence and bouncing of liquid droplets impacting on dry surfaces. <i>Microfluidics and Nanofluidics</i> , 2008, 5, 469-478.	2.2	59
6	Modelling of abrasive particle energy in water jet machining. <i>Journal of Materials Processing Technology</i> , 2013, 213, 2201-2210.	6.3	56
7	A numerically convergent Lagrangian–Eulerian simulation method for dispersed two-phase flows. <i>International Journal of Multiphase Flow</i> , 2009, 35, 376-388.	3.4	50
8	Comparison of measured and modelled droplet–hot wall interactions. <i>Applied Thermal Engineering</i> , 2009, 29, 1398-1405.	6.0	36
9	Hydrocarbon microtremors interpreted as nonlinear oscillations driven by oceanic background waves. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 160-173.	3.3	34
10	Multi-scale modelling of mass transfer limited heterogeneous reactions in open cell foams. <i>International Journal of Heat and Mass Transfer</i> , 2014, 75, 337-346.	4.8	31
11	Ultra-fast X-ray particle velocimetry measurements within an abrasive water jet. <i>Experiments in Fluids</i> , 2013, 54, 1.	2.4	30
12	Embedding data analytics and CFD into the digital twin concept. <i>Computers and Fluids</i> , 2021, 214, 104759.	2.5	27
13	Linear stability analysis of particle-laden mixing layers using Lagrangian particle tracking. <i>Powder Technology</i> , 2002, 125, 122-130.	4.2	26
14	Two-Phase Convective Heat Transfer in Miniature Pipes Under Normal and Microgravity Conditions. <i>Journal of Heat Transfer</i> , 2008, 130, .	2.1	26
15	Status and perspectives of turbulent heat transfer modelling in low-Prandtl number fluids. <i>Nuclear Engineering and Design</i> , 2019, 353, 110220.	1.7	23
16	Effect of near-wall turbulence enhancement on the mechanisms of particle deposition. <i>International Journal of Multiphase Flow</i> , 2005, 31, 940-956.	3.4	14
17	Representing complex urban geometries in mesoscale modeling. <i>International Journal of Climatology</i> , 2011, 31, 289-301.	3.5	14
18	A collaborative effort towards the accurate prediction of turbulent flow and heat transfer in low-Prandtl number fluids. <i>Nuclear Engineering and Design</i> , 2020, 366, 110750.	1.7	13

#	ARTICLE	IF	CITATIONS
19	Temporal instabilities of a mixing layer with uniform and nonuniform particle loadings. <i>Physics of Fluids</i> , 2002, 14, 3775-3789.	4.0	12
20	Numerical analysis of the continuum formulation for the initial evolution of mixing layers with particles. <i>International Journal of Multiphase Flow</i> , 2003, 29, 927-941.	3.4	8
21	Application of N-phase algebraic slip model and direct quadrature method of moments to the simulation of air-water flow in vertical risers and bubble column reactor. <i>Computers and Chemical Engineering</i> , 2016, 90, 151-160.	3.8	8
22	Non-conservative pressure-based compressible formulation for multiphase flows with heat and mass transfer. <i>International Journal of Multiphase Flow</i> , 2017, 96, 24-33.	3.4	8
23	Large Eddy & Interface Simulation (LEIS) of disturbance waves and heat transfer in annular flows. <i>Nuclear Engineering and Design</i> , 2017, 321, 190-198.	1.7	8
24	Particle transport and flow modification in planar temporally evolving laminar mixing layers. I. Particle transport under one-way coupling. <i>Physics of Fluids</i> , 2006, 18, 093302.	4.0	7
25	Progress in computational microfluidics using TransAT. <i>Microfluidics and Nanofluidics</i> , 2013, 15, 415-429.	2.2	6
26	Mechanistic studies of single bubble growth using interface-tracking methods. <i>Nuclear Engineering and Design</i> , 2017, 321, 230-243.	1.7	6
27	Numerical simulation of flashing using a pressure-based compressible multiphase approach and a thermodynamic cavitation model. <i>International Journal of Multiphase Flow</i> , 2021, 135, 103511.	3.4	6
28	Modeling of bubble flows in vertical pipes with the N-phase compressible algebraic slip model. <i>International Journal of Multiphase Flow</i> , 2018, 105, 250-263.	3.4	4
29	Particle transport and flow modification in planar temporally evolving mixing layers. II. Flow modification due to two-way coupling. <i>Physics of Fluids</i> , 2006, 18, 093303.	4.0	3
30	Prediction of Droplet Tear-Off and Meniscus Formation in the Top-Spot Experiment Using TransAT. , 2010, , .		2
31	Statistical Modelling of Bubble Nucleation and Heat Transfer Using Interface Tracking in TransAT CMFD Code. , 2010, , .		1
32	Four-Way Coupling of Dense Particle Beds of Black Powder in Turbulent Pipe Flows. , 2010, , .		1