

Eric ChÃ©nier

List of Publications by Year in descending order

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papers

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28
docs citations

28
times ranked

273
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of surface radiation on the breakdown of steady natural convection flows in a square, air-filled cavity containing a centered inner body. <i>Applied Thermal Engineering</i> , 2011, 31, 1252-1262.	3.0	50
2	Stability of free convection in air-filled horizontal annuli: influence of the radius ratio. <i>International Journal of Heat and Mass Transfer</i> , 2004, 47, 3889-3907.	2.5	35
3	Finite volume approximation of a diffusion-dissolution model and application to nuclear waste storage. <i>Mathematics and Computers in Simulation</i> , 2011, 81, 2001-2017.	2.4	27
4	Three-dimensional study of multiple transitions for natural convection in horizontal annuli. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 1231-1241.	2.5	26
5	Simulation of transient Rayleigh-Bénard-Marangoni convection induced by evaporation. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 656-664.	2.5	24
6	Transient Rayleigh-Bénard-Marangoni solutal convection. <i>Physics of Fluids</i> , 2012, 24, .	1.6	22
7	Numerical Results Using a Collocated Finite-Volume Scheme on Unstructured Grids for Incompressible Fluid Flows. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2006, 49, 259-276.	0.6	21
8	Free convection in drying binary mixtures: Solutal versus thermal instabilities. <i>International Journal of Heat and Mass Transfer</i> , 2013, 63, 336-350.	2.5	20
9	Stability analysis of natural convective flows in horizontal annuli: Effects of the axial and radial aspect ratios. <i>Physics of Fluids</i> , 2006, 18, 104107.	1.6	19
10	A Finite Volume Scheme for Diffusion Problems on General Meshes Applying Monotony Constraints. <i>SIAM Journal on Numerical Analysis</i> , 2010, 47, 4193-4213.	1.1	19
11	An extension of the MAC scheme to locally refined meshes: convergence analysis for the full tensor time-dependent Navier-Stokes equations. <i>Calcolo</i> , 2015, 52, 69-107.	0.6	14
12	Revisited analysis of gas convection and heat transfer in micro channels: Influence of viscous stress power at wall on Nusselt number. <i>International Journal of Thermal Sciences</i> , 2018, 134, 565-584.	2.6	13
13	On the modeling of aiding mixed convection in vertical channels. <i>Heat and Mass Transfer</i> , 2012, 48, 1125-1134.	1.2	11
14	A collocated finite volume scheme to solve free convection for general non-conforming grids. <i>Journal of Computational Physics</i> , 2009, 228, 2296-2311.	1.9	9
15	Simulation of natural convection with the collocated clustered finite volume scheme. <i>Computers and Fluids</i> , 2008, 37, 1138-1147.	1.3	7
16	Collocated finite volume schemes for the simulation of natural convective flows on unstructured meshes. <i>International Journal for Numerical Methods in Fluids</i> , 2008, 56, 2045-2068.	0.9	6
17	From natural to mixed convection in horizontal and differentially heated annular ducts: Linear stability analysis. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 5100-5108.	2.5	6
18	Thermal boundary conditions for convective heat transfer of dilute gases in slip flow regime. <i>International Journal of Thermal Sciences</i> , 2019, 135, 298-301.	2.6	6

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19	A Finite Volume Scheme for the Transport of Radionuclides in Porous Media. Computational Geosciences, 2004, 8, 163-172.	1.2	3
20	Multi-scale modelling and hybrid atomistic-continuum simulation of non-isothermal flows in microchannels. Microfluidics and Nanofluidics, 2016, 20, 1.	1.0	2
21	Hybrid atomistic-continuum multiscale method for fluid flow with density variation in microchannels. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 3-30.	1.6	2
22	Jump in the conduction heat flux at the gas/solid interface in micro-channels. International Journal of Thermal Sciences, 2021, 159, 106599.	2.6	2
23	A Two-Dimensional Second Order Conservative Front-Tracking Method with an Original Marker Advection Approach Based on Jump Relations. Communications in Computational Physics, 2020, 27, 1550-1589.	0.7	2
24	Solutions multiples et bifurcations des écoulements bidimensionnels de convection naturelle dans une cavité annulaire horizontale Multiple solutions and bifurcations of two-dimensional natural convection flows in a horizontal annulus. Mecanique Et Industries, 2003, 4, 531-536.	0.2	1
25	Sensitivity of lateral heat transfer on the convection onset in a transient Rayleigh-Bénard-Marangoni flow. International Journal of Thermal Sciences, 2018, 130, 353-366.	2.6	1
26	Multi-Scale Modeling and Hybrid Atomistic-Continuum Simulation for Condensation of Gas Flow in a Micro-Channel. , 2016, , .		0
27	Results with a Locally Refined MAC-Like Scheme – Benchmark Session. Springer Proceedings in Mathematics and Statistics, 2017, , 125-139.	0.1	0