

Laurent Soucasse

List of Publications by Year in descending order

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19
papers

200
citations

1163117

8
h-index

1058476

14
g-index

19
all docs

19
docs citations

19
times ranked

149
citing authors

#	ARTICLE	IF	CITATIONS
1	Transitional regimes of natural convection in a differentially heated cubical cavity under the effects of wall and molecular gas radiation. <i>Physics of Fluids</i> , 2014, 26, .	4.0	40
2	NUMERICAL STUDY OF COUPLED MOLECULAR GAS RADIATION AND NATURAL CONVECTION IN A DIFFERENTIALLY HEATED CUBICAL CAVITY. <i>Computational Thermal Sciences</i> , 2012, 4, 335-350.	0.9	21
3	Flow-radiation coupling for atmospheric entries using a Hybrid Statistical Narrow Band model. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 180, 55-69.	2.3	18
4	Subgrid-scale model for radiative transfer in turbulent participating media. <i>Journal of Computational Physics</i> , 2014, 257, 442-459.	3.8	17
5	Natural convection in a differentially heated cubical cavity under the effects of wall and molecular gas radiation at Rayleigh numbers up to 3×10^9 . <i>International Journal of Heat and Fluid Flow</i> , 2016, 61, 510-530.	2.4	17
6	Monte Carlo methods for radiative transfer in quasi-isothermal participating media. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 128, 34-42.	2.3	16
7	Proper orthogonal decomposition analysis and modelling of large-scale flow reorientations in a cubic Rayleigh-Bénard cell. <i>Journal of Fluid Mechanics</i> , 2019, 881, 23-50.	3.4	16
8	A goal-based angular adaptivity method for thermal radiation modelling in non grey media. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 200, 215-224.	2.3	13
9	An angular reduced order model for radiative transfer in non grey media. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 229, 23-32.	2.3	8
10	Lidar-relevant radiative properties of soot fractal aggregate ensembles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 241, 106706.	2.3	8
11	Reduced-order modelling of radiative transfer effects on Rayleigh-Bénard convection in a cubic cell. <i>Journal of Fluid Mechanics</i> , 2020, 898, .	3.4	7
12	Low-order models for predicting radiative transfer effects on Rayleigh-Bénard convection in a cubic cell at different Rayleigh numbers. <i>Journal of Fluid Mechanics</i> , 2021, 917, .	3.4	6
13	Rayleigh-Bénard convection in a cubic cell under the effects of gas radiation up to $Ra = 10^9$. <i>International Journal of Heat and Mass Transfer</i> , 2022, 187, 122452.	4.8	5
14	Influence of turbulent natural convection on heat transfer in shallow caves. <i>International Journal of Thermal Sciences</i> , 2022, 177, 107524.	4.9	3
15	Coupled Flow, Radiation, and Ablation Simulations of Atmospheric Entry Vehicles using the Hybrid Statistical Narrow Band Model. , 2015, , .		2
16	Role of solutal free convection on interdiffusion in a horizontal microfluidic channel. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	2
17	Effects of Molecular Gas Radiation on Rayleigh-Benard Convection in a 3D Cubical Cavity. , 2014, , .		1
18	NUMERICAL STUDY OF COUPLED MOLECULAR GAS RADIATION AND NATURAL CONVECTION IN A DIFFERENTIALLY HEATED CUBICAL CAVITY. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
19	Heat transfer in shallow caves: influence of turbulent convection. Journal of Physics: Conference Series, 2021, 2116, 012027.	0.4	0