Denis Lemonnier

List of Publications by Year
in descending order

56	1,209	394421	377865
papers	citations	19 h-index	34 g-index

60	60	60	632
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reduced Order Models for conduction and radiation inside semi-transparent media via the Modal Identification Method. International Journal of Heat and Mass Transfer, 2021, 168, 120598.	4.8	8
2	Natural Convection and Volumetric Radiation Interactions in a Concentric Square Annulus. Journal of Thermophysics and Heat Transfer, 2021, 35, 547-559.	1.6	1
3	Influence of surface radiation on the transition to unsteadiness for a natural convection flow in a differentially heated cavity. Numerical Heat Transfer; Part A: Applications, 2020, 78, 291-305.	2.1	0
4	Locally correlated SLW model for prediction of gas radiation in non-uniform media and its relationship to other global methods. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 245, 106857.	2.3	13
5	Simultaneous identification of thermophysical properties of semitransparent media using an artificial neural network trained by a 2-D axisymmetric direct model. Numerical Heat Transfer; Part A: Applications, 2020, 77, 890-912.	2.1	8
6	Numerical study of an unsteady confined thermal plume under the influence of gas radiation. International Journal of Thermal Sciences, 2020, 156, 106474.	4.9	4
7	Coupled velocity and temperature measurements in an air-filled differentially heated cavity at Ra=1.2E11. International Journal of Thermal Sciences, 2018, 123, 151-161.	4.9	7
8	The Scaled SLW model of gas radiation in non-uniform media based on Planck-weighted moments of gas absorption cross-section. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 206, 198-212.	2.3	13
9	The rank correlated SLW model of gas radiation in non-uniform media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 197, 26-44.	2.3	57
10	Numerical investigation of coupled natural convection and radiation in a differentially heated cubic cavity filled with humid air. Effects of the cavity size. Numerical Heat Transfer; Part A: Applications, 2017, 72, 495-518.	2.1	11
11	Comonotonic global spectral models of gas radiation in non-uniform media based on arbitrary probability measures. Applied Mathematical Modelling, 2017, 50, 741-754.	4.2	19
12	Non-gray gas radiation effect on mixed convection in lid driven square cavity. AIP Conference Proceedings, 2016, , .	0.4	1
13	The Generalized SLW Model. Journal of Physics: Conference Series, 2016, 676, 012022.	0.4	13
14	Interaction of radiation with double-diffusive natural convection in a three-dimensional cubic cavity filled with a non-gray gas mixture in cooperating cases. Numerical Heat Transfer; Part A: Applications, 2016, 69, 479-496.	2.1	13
15	Comparative Study of Radiative Effects on Double Diffusive Convection in Nongray Air-CO₂Mixtures in Cooperating and Opposing Flow. Mathematical Problems in Engineering, 2015, 2015, 1-17.	1.1	3
16	Effect of horizontal walls emissivity on coupled double diffusive convection and non gray-gas radiation of air-H<inf>2</inf>O mixture in a cooperating case. , 2015, , .		0
17	Gas radiation effects on opposing double-diffusive convection in a non-gray airâ€“H2O mixture. International Journal of Thermal Sciences, 2014, 77, 38-46.	4.9	12
18	The generalized k-moment method for the modeling of cumulative k-distributions of H2O at high temperature. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 143, 92-99.	2.3	7

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19	Extension of the exact SLW model to non-isothermal gaseous media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 143, 83-91.	2.3	12
20	Efficient cumulative wavenumber model of radiative transfer in gaseous media bounded by non-gray walls. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 128, 2-9.	2.3	14
21	Coupling of turbulent natural convection with radiation in an air-filled differentially-heated cavity at Ra=1.5Ã—109. Computers and Fluids, 2013, 88, 115-125.	2.5	58
22	Modeling the cumulative distribution of absorption coefficients of gases using the generalized k-moment method. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 124, 49-61.	2.3	5
23	Experimental investigations in an air-filled differentially-heated cavity at large Rayleigh Numbers. Journal of Physics: Conference Series, 2012, 395, 012119.	0.4	2
24	Coupled temperature and velocity measurements in turbulent natural convection flows. Journal of Physics: Conference Series, 2012, 395, 012067.	0.4	1
25	Eurotherm Conference No. 95: Computational Thermal Radiation in Participating Media IV. Journal of Physics: Conference Series, 2012, 369, 011001.	0.4	0
26	Combined double-diffusive convection and radiation in a square enclosure filled with semitransparent fluid. Computers and Fluids, 2012, 69, 172-178.	2.5	26
27	MRT-lattice Boltzmann computations of natural convection and volumetric radiation in a tilted square enclosure. International Journal of Thermal Sciences, 2012, 54, 125-141.	4.9	27
28	Numerical prediction of heat transfer by natural convection and radiation in an enclosure filled with an isotropic scattering medium. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1689-1704.	2.3	46
29	SLW-1 Modeling of Radiative Heat Transfer in Nonisothermal Nonhomogeneous Gas Mixtures With Soot. Journal of Heat Transfer, 2011, 133, .	2.1	18
30	The SLW-1 model for efficient prediction of radiative transfer in high temperature gases. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1205-1212.	2.3	35
31	The Sixth International Symposium on Radiative Transfer. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1139-1140.	2.3	0
32	SLW-1 Modeling of Radiative Heat Transfer in Non-Isothermal Non-Homogeneous Gas Mixtures With Soot. , 2010, , .		1
33	Meshless method for solving radiative transfer problems in complex two-dimensional and three-dimensional geometries. International Journal of Thermal Sciences, 2010, 49, 2282-2288.	4.9	39
34	Computation of surface radiation and natural convection in a heated horticultural greenhouse. Applied Energy, 2010, 87, 894-900.	10.1	21
35	Laminar natural convection flow in a cylindrical cavity application to the storage of LNG. Journal of Petroleum Science and Engineering, 2010, 71, 126-132.	4.2	21
36	Special issue based on Eurotherm Seminar No. 83: Computational thermal radiation in participating media III. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 262-263.	2.3	0

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37	Effect on Radiant Heat Transfer at the Surface of a Pool Fire Interacting With a Water Mist. Journal of Heat Transfer, 2010, 132, .	2.1	6
38	Modeling semiconductor nanostructures thermal properties: The dispersion role. Journal of Applied Physics, 2009, 105, 073516.	2.5	28
39	Restitution of the Temperature Field Inside a Cylinder of Semitransparent Dense Medium From Directional Intensity Data. Journal of Heat Transfer, 2009, 131, .	2.1	1
40	Numerical study of coupled double-diffusive natural convection and radiation in a square cavity filled with A N2â€“CO2 mixture. International Communications in Heat and Mass Transfer, 2009, 36, 197-202.	5.6	38
41	Prediction of the thermal conductivity anisotropy of Si nanofilms. Results of several numerical methods. International Journal of Thermal Sciences, 2009, 48, 1467-1476.	4.9	30
42	Coupled Radiation and Double Diffusive Convection in Nongray Air-CO₂and Air-H₂O Mixtures in Cooperating Situations. Numerical Heat Transfer; Part A: Applications, 2009, 56, 1-19.	2.1	24
43	The Fifth International Symposium on Radiative Transfer. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 177-179.	2.3	3
44	Numerical study of double-diffusion convection coupled to radiation in a square cavity filled with a participating grey gas. Journal Physics D: Applied Physics, 2008, 41, 195501.	2.8	26
45	Heat Pulse Propagation in Silicon Nanostructures by Solving Phonon Transport Equation. , 2008, , .		1
46	Monte Carlo modeling of phonon transport in nanodevices. Journal of Physics: Conference Series, 2007, 92, 012078.	0.4	5
47	Numerical simulation of transient phonon heat transfer in silicon nanowires and nanofilms. Journal of Physics: Conference Series, 2007, 92, 012077.	0.4	8
48	Monte Carlo simulation of phonon confinement in silicon nanostructures: Application to the determination of the thermal conductivity of silicon nanowires. Applied Physics Letters, 2006, 89, 103104.	3.3	100
49	Monte Carlo transient phonon transport in silicon and germanium at nanoscales. Physical Review B, 2005, 72, .	3.2	203
50	Addition of a water mist on a small-scale liquid pool fire: Effect on radiant heat transfer at the surface. Proceedings of the Combustion Institute, 2002, 29, 377-384.	3.9	12
51	Discrete ordinates solution of radiative transfer across a slab with variable refractive index. Journal of Quantitative Spectroscopy and Radiative Transfer, 2002, 73, 195-204.	2.3	110
52	Three-dimensional modelling and optimisation of thermal fields induced in a human body during hyperthermia. International Journal of Thermal Sciences, 2002, 41, 500-508.	4.9	29
53	Inhomogeneous radiative model of refractive and dispersive semi-transparent stellar atmospheres. Journal of Quantitative Spectroscopy and Radiative Transfer, 2001, 69, 61-80.	2.3	19
54	Conductiveâ€“radiative coupling in an absorbingâ€“emitting axisymmetric medium. Journal of Quantitative Spectroscopy and Radiative Transfer, 2000, 65, 787-803.	2.3	10

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55	Radiative heat transfer in orthogonal curvilinear coordinates using the discrete ordinates method. Journal of Quantitative Spectroscopy and Radiative Transfer, 1996, 55, 7-17.	2.3	33
56	Solution of the Boltzmann Equationfor Phonon Transport. , 0, , 77-106.		4