

Gilles Parent

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,073
citations

361296

20
h-index

454834

30
g-index

70
all docs

70
docs citations

70
times ranked

579
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and numerical multi-scale study of spruce wood degradation under inert atmosphere. Fire Safety Journal, 2022, 130, 103598.	1.4	6
2	Solving transient coupled conductive and radiative transfers in porous media with a Monte Carlo Method: Characterization of thermal conductivity of foams using a numerical Flash Method. International Journal of Thermal Sciences, 2022, 179, 107656.	2.6	7
3	Measurements and models to characterise flame radiation from multi-scale kerosene fires. Fire Safety Journal, 2021, 120, 103179.	1.4	0
4	In-depth wood temperature measurement using embedded thin wire thermocouples in cone calorimeter tests. International Journal of Thermal Sciences, 2021, 162, 106686.	2.6	14
5	Study of wood self-extinguishment with a double sliding cone calorimeter. Fire Safety Journal, 2021, 122, 103316.	1.4	6
6	Experimental characterization of the coupled conductive and radiative heat transfer in ceramic foams with a flash method at high temperature. International Journal of Heat and Mass Transfer, 2020, 148, 119077.	2.5	22
7	Numerically resolved line by line radiation spectrum of large kerosene pool fires. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 254, 107229.	1.1	8
8	A model to assess visibility in scattering environments. Fire Safety Journal, 2020, 112, 102970.	1.4	2
9	Experimental tools applied to ignition study of spruce wood under cone calorimeter. Fire Safety Journal, 2019, 108, 102845.	1.4	15
10	Spectral radiation emitted by kerosene pool fires. Fire Safety Journal, 2019, 108, 102847.	1.4	8
11	Experimental Study of the Interaction Between Water Sprays and Smoke Layer. Fire Technology, 2018, 54, 479-501.	1.5	5
12	Towards Thermal Reading of Magnetic States in Hall Crosses. Physical Review Applied, 2018, 9, .	1.5	1
13	Experimental tools applied to the ignition study of spruce wood under cone calorimeter. Journal of Physics: Conference Series, 2018, 1107, 032022.	0.3	0
14	Flame properties of large kerosene fires. Journal of Physics: Conference Series, 2018, 1107, 042035.	0.3	3
15	Radiation attenuation and opacity in smoke and water sprays. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 197, 60-67.	1.1	13
16	Surface temperature of carbon composite samples during thermal degradation. International Journal of Thermal Sciences, 2017, 112, 427-438.	2.6	13
17	Radiative shielding effect due to different water sprays used in a real scale application. International Journal of Thermal Sciences, 2016, 105, 174-181.	2.6	17
18	A fully coupled fluid/solid model for open air combustion of horizontally-oriented PMMA samples. Combustion and Flame, 2016, 170, 135-147.	2.8	23

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19	Multi-point opacity measurement in a fire environment using a network of optical fibres. Fire Safety Journal, 2016, 83, 7-14.	1.4	4
20	Study of a V-shape flame based on IR spectroscopy and IR imaging. Journal of Physics: Conference Series, 2016, 676, 012018.	0.3	3
21	On the Influence of the Sample Absorptivity when Studying the Thermal Degradation of Materials. Materials, 2015, 8, 5398-5413.	1.3	22
22	Study of De-stratification and Optical Effects Observed During Smoke/Mist Interactions. Fire Technology, 2015, 51, 1231-1248.	1.5	15
23	Telluride buried channel waveguides operating from 6 to 20 μ m for photonic applications. Optical Materials, 2015, 49, 218-223.	1.7	15
24	Buried channel waveguides for nulling interferometry in 6 μ m spectral range: Fabrication and preliminary testing. , 2014, , .		0
25	Radiation emission from a heating coil or a halogen lamp on a semitransparent sample. International Journal of Thermal Sciences, 2014, 77, 223-232.	2.6	28
26	Experimental study on radiation attenuation by a water film. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 145, 160-168.	1.1	14
27	Optical and radiative properties of clear PMMA samples exposed to a radiant heat flux. International Journal of Thermal Sciences, 2014, 82, 1-8.	2.6	37
28	Experimental study of radiative heat transfer in a translucent fuel sample exposed to different spectral sources. International Journal of Heat and Mass Transfer, 2013, 61, 742-748.	2.5	27
29	Combined Temperature and Deformation Measurement During Glass Forming in a Real Scale Setup. Experimental Mechanics, 2013, 53, 1773-1781.	1.1	5
30	Note: Mechanical etching of atomic force microscope tip and microsphere attachment for thermal radiation scattering enhancement. Review of Scientific Instruments, 2013, 84, 126106.	0.6	2
31	Determination of Woody Fuel Flame Properties by Means of Emission Spectroscopy Using a Genetic Algorithm. Combustion Science and Technology, 2013, 185, 579-599.	1.2	7
32	Radiative flux emitted by a burning PMMA slab. Journal of Physics: Conference Series, 2012, 395, 012153.	0.3	8
33	Tip optimization for improvement of detection in scanning near-field optical microscopy. Journal of Optics (United Kingdom), 2012, 14, 075703.	1.0	2
34	Silicon Nanowire Conductance in the Ballistic Regime: Models and Simulations. Journal of Heat Transfer, 2012, 134, .	1.2	0
35	Radiative shielding by water mist : comparisons between downward, upward and impacting injection of droplets. Journal of Physics: Conference Series, 2012, 369, 012027.	0.3	3
36	Characterization of the radiative exchanges when using a cone calorimeter for the study of the plywood pyrolysis. Fire Safety Journal, 2012, 51, 53-60.	1.4	26

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37	Finite-difference time-domain and near-field-to-far-field transformation in the spectral domain: application to scattering objects with complex shapes in the vicinity of a semi-infinite dielectric medium. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2011, 28, 868.	0.8	11
38	Realization of single-mode telluride rib waveguides for mid-IR applications between 10 and 20 μm . <i>Optics Letters</i> , 2011, 36, 2922.	1.7	32
39	Fabrication and testing of all-telluride rib waveguides for nulling interferometry. <i>Optical Materials Express</i> , 2011, 1, 357.	1.6	7
40	Experimental Investigation of Radiation Emitted by Optically Thin to Optically Thick Wildland Flames. <i>Journal of Combustion</i> , 2011, 2011, 1-8.	0.5	21
41	On the emission of radiation by flames and corresponding absorption by vegetation in forest fires. <i>Fire Safety Journal</i> , 2011, 46, 21-26.	1.4	53
42	Telluride films and waveguides for IR integrated optics. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 2890-2894.	0.8	11
43	Upward vs downward injection of droplets for the optimization of a radiative shield. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 1689-1697.	2.5	18
44	Near-field and far-field modeling of scattered surface waves. Application to the apertureless scanning near-field optical microscopy. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 1162-1169.	1.1	4
45	Waveguides based on TeGe thick films for spatial interferometry. , 2010, , .		0
46	Experimental study in the infrared of the radiative properties of pine needles. <i>Experimental Thermal and Fluid Science</i> , 2010, 34, 893-899.	1.5	39
47	Purification of Te ₇₅ Ga ₁₀ Ge ₁₅ glass for far infrared transmitting optics for space application. <i>Optical Materials</i> , 2010, 32, 1055-1059.	1.7	31
48	Measurement of infrared radiation emitted by the flame of a vegetation fire. <i>International Journal of Thermal Sciences</i> , 2010, 49, 555-562.	2.6	46
49	Water Mist and Radiation Interactions: Application to a Water Curtain Used as a Radiative Shield. <i>Numerical Heat Transfer; Part A: Applications</i> , 2010, 57, 537-553.	1.2	25
50	RADIATIVE PROPERTIES IN THE FRAME OF FOREST FIRES. , 2010, , .		0
51	Infrared radiative properties of vegetation involved in forest fires. <i>Fire Safety Journal</i> , 2009, 44, 88-95.	1.4	64
52	Spectral emission of flames from laboratory-scale vegetation fires. <i>International Journal of Wildland Fire</i> , 2009, 18, 875.	1.0	50
53	Dynamics and thermal behaviour of water sprays. <i>International Journal of Thermal Sciences</i> , 2008, 47, 399-407.	2.6	18
54	Integrated optics for nulling interferometry in the thermal infrared. <i>Proceedings of SPIE</i> , 2008, , .	0.8	2

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55	Monte Carlo Simulation of Heat Pulse Propagation in Silicon Nanostructure. , 2008, , .		0
56	FDTD Study of the Surface Waves Detection in Apertureless Scanning Near-Field Microscopy. , 2008, , .		0
57	Transient Radiation and Conduction Heat Transfer in a Gray Absorbing-Emitting Medium Applied on Two-Dimensional Complex-Shaped Domains. Numerical Heat Transfer, Part B: Fundamentals, 2007, 52, 179-200.	0.6	31
58	Numerical simulation of a water sprayâ€”Radiation attenuation related to spray dynamics. International Journal of Thermal Sciences, 2007, 46, 856-868.	2.6	51
59	Heat transfer through a water spray curtain under the effect of a strong radiative source. Fire Safety Journal, 2006, 41, 15-30.	1.4	34
60	Experimental investigation of radiation transmission through a water spray. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 97, 126-141.	1.1	31
61	Coupled radiative and conductive heat transfer in a non-grey absorbing and emitting semitransparent media under collimated radiation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2002, 75, 589-609.	1.1	35
62	Shaping the reflection near-field optical probe: finite domain time difference modelling and fabrication using a focused ion beam. Journal of Microscopy, 2001, 202, 45-49.	0.8	9
63	Theoretical study of transient phenomena in nearâ€”field optics. Journal of Microscopy, 2001, 202, 296-306.	0.8	15
64	Photochromic Sol-Gel Films Containing Dithienylethene and Azobenzene Derivatives: From the Design of Optical Components to the Optical Data Storage. Molecular Crystals and Liquid Crystals, 2000, 344, 77-82.	0.3	13
65	Spectroscopic study of the image formation in near-field microscopy, near an evanescent-homogeneous switching. Journal of Microscopy, 1999, 194, 265-270.	0.8	3
66	Surface imaging in near-field optical microscopy by using the fluorescence decay rate: a theoretical study. Journal of Microscopy, 1999, 194, 281-290.	0.8	6
67	Fluorescence lifetime of a molecule near a corrugated interface: application to near-field microscopy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1999, 16, 896.	0.8	22
68	Photon tunneling time. Ultramicroscopy, 1998, 71, 11-20.	0.8	10
69	Quantification of radiative attenuation provided by fire hose nozzles. Fire and Materials, 0, , .	0.9	0
70	Experimental study of spruce wood reaction to fire in single burning item test. Journal of Fire Sciences, 0, , 073490412210898.	0.9	0