

Gilles Parent

List of Publications by Year in descending order

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70
papers

1,073
citations

361045

20
h-index

454577

30
g-index

70
all docs

70
docs citations

70
times ranked

579
citing authors

#	ARTICLE	IF	CITATIONS
1	Infrared radiative properties of vegetation involved in forest fires. <i>Fire Safety Journal</i> , 2009, 44, 88-95.	1.4	64
2	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
3	Numerical simulation of a water sprayâ€™Radiation attenuation related to spray dynamics. <i>International Journal of Thermal Sciences</i> , 2007, 46, 856-868.	2.6	51
4	Spectral emission of flames from laboratory-scale vegetation fires. <i>International Journal of Wildland Fire</i> , 2009, 18, 875.	1.0	50
5	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
6	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
7	Optical and radiative properties of clear PMMA samples exposed to a radiant heat flux. <i>International Journal of Thermal Sciences</i> , 2014, 82, 1-8.	2.6	37
8	Coupled radiative and conductive heat transfer in a non-grey absorbing and emitting semitransparent media under collimated radiation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2002, 75, 589-609.	1.1	35
9	Heat transfer through a water spray curtain under the effect of a strong radiative source. <i>Fire Safety Journal</i> , 2006, 41, 15-30.	1.4	34
10	Realization of single-mode telluride rib waveguides for mid-IR applications between 10 and 20â€™m. <i>Optics Letters</i> , 2011, 36, 2922.	1.7	32
11	Experimental investigation of radiation transmission through a water spray. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 97, 126-141.	1.1	31
12	Transient Radiation and Conduction Heat Transfer in a Gray Absorbing-Emitting Medium Applied on Two-Dimensional Complex-Shaped Domains. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2007, 52, 179-200.	0.6	31
13	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
14	Radiation emission from a heating coil or a halogen lamp on a semitransparent sample. <i>International Journal of Thermal Sciences</i> , 2014, 77, 223-232.	2.6	28
15	Experimental study of radiative heat transfer in a translucent fuel sample exposed to different spectral sources. <i>International Journal of Heat and Mass Transfer</i> , 2013, 61, 742-748.	2.5	27
16	Characterization of the radiative exchanges when using a cone calorimeter for the study of the plywood pyrolysis. <i>Fire Safety Journal</i> , 2012, 51, 53-60.	1.4	26
17	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
18	A fully coupled fluid/solid model for open air combustion of horizontally-oriented PMMA samples. <i>Combustion and Flame</i> , 2016, 170, 135-147.	2.8	23

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19	Fluorescence lifetime of a molecule near a corrugated interface: application to near-field microscopy. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1999, 16, 896.	0.8	22
20	On the Influence of the Sample Absorptivity when Studying the Thermal Degradation of Materials. <i>Materials</i> , 2015, 8, 5398-5413.	1.3	22
21	Experimental characterization of the coupled conductive and radiative heat transfer in ceramic foams with a flash method at high temperature. <i>International Journal of Heat and Mass Transfer</i> , 2020, 148, 119077.	2.5	22
22	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
23	Dynamics and thermal behaviour of water sprays. <i>International Journal of Thermal Sciences</i> , 2008, 47, 399-407.	2.6	18
24	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
25	Radiative shielding effect due to different water sprays used in a real scale application. <i>International Journal of Thermal Sciences</i> , 2016, 105, 174-181.	2.6	17
26	Theoretical study of transient phenomena in near-field optics. <i>Journal of Microscopy</i> , 2001, 202, 296-306.	0.8	15
27	Study of De-stratification and Optical Effects Observed During Smoke/Mist Interactions. <i>Fire Technology</i> , 2015, 51, 1231-1248.	1.5	15
28	Telluride buried channel waveguides operating from 6 to 20 μ m for photonic applications. <i>Optical Materials</i> , 2015, 49, 218-223.	1.7	15
29	Experimental tools applied to ignition study of spruce wood under cone calorimeter. <i>Fire Safety Journal</i> , 2019, 108, 102845.	1.4	15
30	Experimental study on radiation attenuation by a water film. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 145, 160-168.	1.1	14
31	In-depth wood temperature measurement using embedded thin wire thermocouples in cone calorimeter tests. <i>International Journal of Thermal Sciences</i> , 2021, 162, 106686.	2.6	14
32	Photochromic Sol-Gel Films Containing Dithienylethene and Azobenzene Derivatives: From the Design of Optical Components to the Optical Data Storage. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 344, 77-82.	0.3	13
33	Radiation attenuation and opacity in smoke and water sprays. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 197, 60-67.	1.1	13
34	Surface temperature of carbon composite samples during thermal degradation. <i>International Journal of Thermal Sciences</i> , 2017, 112, 427-438.	2.6	13
35	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
36	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

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37	Photon tunneling time. Ultramicroscopy, 1998, 71, 11-20.	0.8	10
38	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
39	Radiative flux emitted by a burning PMMA slab. Journal of Physics: Conference Series, 2012, 395, 012153.	0.3	8
40	Spectral radiation emitted by kerosene pool fires. Fire Safety Journal, 2019, 108, 102847.	1.4	8
41	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
42	Fabrication and testing of all-telluride rib waveguides for nulling interferometry. Optical Materials Express, 2011, 1, 357.	1.6	7
43	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
44	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
45	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
46	Study of wood self-extinguishment with a double sliding cone calorimeter. Fire Safety Journal, 2021, 122, 103316.	1.4	6
47	Experimental and numerical multi-scale study of spruce wood degradation under inert atmosphere. Fire Safety Journal, 2022, 130, 103598.	1.4	6
48	Combined Temperature and Deformation Measurement During Glass Forming in a Real Scale Setup. Experimental Mechanics, 2013, 53, 1773-1781.	1.1	5
49	Experimental Study of the Interaction Between Water Sprays and Smoke Layer. Fire Technology, 2018, 54, 479-501.	1.5	5
50	Near-field and far-field modeling of scattered surface waves. Application to the apertureless scanning near-field optical microscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1162-1169.	1.1	4
51	Multi-point opacity measurement in a fire environment using a network of optical fibres. Fire Safety Journal, 2016, 83, 7-14.	1.4	4
52	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
53	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
54	Study of a V-shape flame based on IR spectroscopy and IR imaging. Journal of Physics: Conference Series, 2016, 676, 012018.	0.3	3

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55	Flame properties of large kerosene fires. Journal of Physics: Conference Series, 2018, 1107, 042035.	0.3	3
56	Integrated optics for nulling interferometry in the thermal infrared. Proceedings of SPIE, 2008, , .	0.8	2
57	Tip optimization for improvement of detection in scanning near-field optical microscopy. Journal of Optics (United Kingdom), 2012, 14, 075703.	1.0	2
58	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
59	A model to assess visibility in scattering environments. Fire Safety Journal, 2020, 112, 102970.	1.4	2
60	Towards Thermal Reading of Magnetic States in Hall Crosses. Physical Review Applied, 2018, 9, .	1.5	1
61	Monte Carlo Simulation of Heat Pulse Propagation in Silicon Nanostructure. , 2008, , .		0
62	Waveguides based on TeGe thick films for spatial interferometry. , 2010, , .		0
63	Silicon Nanowire Conductance in the Ballistic Regime: Models and Simulations. Journal of Heat Transfer, 2012, 134, .	1.2	0
64	Buried channel waveguides for nulling interferometry in 6–20 μm spectral range: Fabrication and preliminary testing. , 2014, , .		0
65	Experimental tools applied to the ignition study of spruce wood under cone calorimeter. Journal of Physics: Conference Series, 2018, 1107, 032022.	0.3	0
66	Measurements and models to characterise flame radiation from multi-scale kerosene fires. Fire Safety Journal, 2021, 120, 103179.	1.4	0
67	FDTD Study of the Surface Waves Detection in Apertureless Scanning Near-Field Microscopy. , 2008, , .		0
68	RADIATIVE PROPERTIES IN THE FRAME OF FOREST FIRES. , 2010, , .		0
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