

Anthony Collin

List of Publications by Year in descending order

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45
papers

839
citations

516710

16
h-index

501196

28
g-index

45
all docs

45
docs citations

45
times ranked

495
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and numerical study of pool fire suppression using water mist. Fire Safety Journal, 2014, 67, 1-12.	3.1	76
2	Infrared radiative properties of vegetation involved in forest fires. Fire Safety Journal, 2009, 44, 88-95.	3.1	64
3	On the finite volume method and the discrete ordinates method regarding radiative heat transfer in acute forward anisotropic scattering media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 104, 460-473.	2.3	57
4	On the emission of radiation by flames and corresponding absorption by vegetation in forest fires. Fire Safety Journal, 2011, 46, 21-26.	3.1	53
5	Numerical simulation of a water spray "Radiation attenuation related to spray dynamics. International Journal of Thermal Sciences, 2007, 46, 856-868.	4.9	51
6	Spectral emission of flames from laboratory-scale vegetation fires. International Journal of Wildland Fire, 2009, 18, 875.	2.4	50
7	Simplified Flame Models and Prediction of the Thermal Radiation Emitted by a Flame Front in an Outdoor Fire. Combustion Science and Technology, 2010, 182, 1457-1477.	2.3	49
8	Optical and radiative properties of clear PMMA samples exposed to a radiant heat flux. International Journal of Thermal Sciences, 2014, 82, 1-8.	4.9	37
9	On radiative transfer in water spray curtains using the discrete ordinates method. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 92, 85-110.	2.3	35
10	Heat transfer through a water spray curtain under the effect of a strong radiative source. Fire Safety Journal, 2006, 41, 15-30.	3.1	34
11	Experimental investigation of radiation transmission through a water spray. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 97, 126-141.	2.3	31
12	A Physical-Based Cellular Automaton Model for Forest-Fire Propagation. Combustion Science and Technology, 2011, 183, 347-369.	2.3	30
13	Radiation emission from a heating coil or a halogen lamp on a semitransparent sample. International Journal of Thermal Sciences, 2014, 77, 223-232.	4.9	28
14	Water Mist and Radiation Interactions: Application to a Water Curtain Used as a Radiative Shield. Numerical Heat Transfer; Part A: Applications, 2010, 57, 537-553.	2.1	25
15	On the Influence of the Sample Absorptivity when Studying the Thermal Degradation of Materials. Materials, 2015, 8, 5398-5413.	2.9	22
16	Dynamics and thermal behaviour of water sprays. International Journal of Thermal Sciences, 2008, 47, 399-407.	4.9	18
17	Sensitivity and uncertainty analysis of Arrhenius parameters in order to describe the kinetic of solid thermal degradation during fire phenomena. Fire Safety Journal, 2016, 82, 76-90.	3.1	17
18	Use of a water mist for smoke confinement and radiation shielding in case of fire during tunnel construction. International Journal of Thermal Sciences, 2020, 148, 106156.	4.9	17

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19	Surface temperature of carbon composite samples during thermal degradation. International Journal of Thermal Sciences, 2017, 112, 427-438.	4.9	13
20	Modelling of tree crowns with realistic morphological features: New reconstruction methodology based on Iterated Function System tool. Ecological Modelling, 2011, 222, 503-513.	2.5	11
21	Glass sagging simulation with improved calculation of radiative heat transfer by the optimized reciprocity Monte Carlo method. International Journal of Heat and Mass Transfer, 2014, 70, 215-223.	4.8	10
22	Study on visible-IR radiative properties of personal protective clothings for firefighting. Fire Safety Journal, 2015, 71, 9-19.	3.1	10
23	Modeling of fire suppression by fuel cooling. Fire Safety Journal, 2017, 91, 680-687.	3.1	10
24	Evaluation of simple models of flame radiation in the frame of fire propagation. International Journal of Heat and Mass Transfer, 2013, 59, 83-92.	4.8	9
25	Radiative flux emitted by a burning PMMA slab. Journal of Physics: Conference Series, 2012, 395, 012153.	0.4	8
26	Spectral radiation emitted by kerosene pool fires. Fire Safety Journal, 2019, 108, 102847.	3.1	8
27	Analytical determination and numerical computation of extinction coefficients for vegetation with given leaf distribution. International Journal of Thermal Sciences, 2009, 48, 1501-1509.	4.9	7
28	Acute anisotropic scattering in a medium under collimated irradiation. International Journal of Thermal Sciences, 2011, 50, 19-24.	4.9	7
29	Determination of Woody Fuel Flame Properties by Means of Emission Spectroscopy Using a Genetic Algorithm. Combustion Science and Technology, 2013, 185, 579-599.	2.3	7
30	Origin and Justification of the Use of the Arrhenius Relation to Represent the Reaction Rate of the Thermal Decomposition of a Solid. Applied Sciences (Switzerland), 2021, 11, 4075.	2.5	7
31	Can we predict fire extinction by water mist with FDS?. Mechanics and Industry, 2013, 14, 389-393.	1.3	7
32	Numerical Evaluation of Radiation Extinction Coefficient Using Fractal Geometry for Vegetation Modeling. Numerical Heat Transfer; Part A: Applications, 2009, 56, 360-377.	2.1	6
33	Characterization of heat transfer between phases inside a porous medium as applied to vegetal set representations. International Journal of Heat and Mass Transfer, 2012, 55, 607-617.	4.8	6
34	Analytical quantification of convective heat transfer inside vegetal structures. International Journal of Thermal Sciences, 2012, 57, 78-84.	4.9	5
35	Radiative shielding by water mist : comparisons between downward, upward and impacting injection of droplets. Journal of Physics: Conference Series, 2012, 369, 012027.	0.4	3
36	Study of a V-shape flame based on IR spectroscopy and IR imaging. Journal of Physics: Conference Series, 2016, 676, 012018.	0.4	3

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37	Flame properties of large kerosene fires. Journal of Physics: Conference Series, 2018, 1107, 042035.	0.4	3
38	Fire Plume in a Sharply Stratified Ambient Fluid. Fire Technology, 2021, 57, 1969-1986.	3.0	2
39	A hybrid small-world network/semi-physical model for predicting wildfire spread in heterogeneous landscapes. Journal of Physics: Conference Series, 2012, 395, 012008.	0.4	1
40	Vegetation fire spread database: 85 wood wool shaving experiments at laboratory scale. Fire Safety Journal, 2019, 109, 102870.	3.1	1
41	Experimental Characterization of a Smoke Flow in a Small Length Corridor. Fire Technology, 2020, 56, 883-889.	3.0	1
42	Quantification of convective heat transfer inside tree structures. Journal of Physics: Conference Series, 2012, 395, 012145.	0.4	0
43	Lab-scale study of radiative fluxes received from a fire front. Journal of Physics: Conference Series, 2016, 676, 012008.	0.4	0
44	Measurements and models to characterise flame radiation from multi-scale kerosene fires. Fire Safety Journal, 2021, 120, 103179.	3.1	0
45	Quantification of radiative attenuation provided by fire hose nozzles. Fire and Materials, 0, , .	2.0	0