

Jean-Louis Consalvi

List of Publications by Year in descending order

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citations

331670

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60
docs citations

60
times ranked

632
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-eddy simulation of lab-scale ethylene buoyant diffusion flames: Effects of subgrid turbulence/soot production interaction and radiation models. Proceedings of the Combustion Institute, 2023, 39, 3959-3968.	3.9	3
2	Modelling extinction/re-ignition processes in fire plumes under oxygen-diluted conditions using flamelet tabulation approaches. Combustion Theory and Modelling, 2022, 26, 613-636.	1.9	3
3	Fire safety in spacecraft: Past incidents and Deep Space challenges. Acta Astronautica, 2022, 195, 344-354.	3.2	6
4	Local contributions of resolved and subgrid turbulence-radiation interaction in LES/presumed FDF modelling of large-scale methanol pool fires. International Journal of Heat and Mass Transfer, 2022, 190, 122746.	4.8	9
5	Exploring subgrid-scale variance models in LES of lab-scale methane fire plumes. Combustion Theory and Modelling, 2021, 25, 44-72.	1.9	5
6	Effects of pressure on soot formation in laminar coflow methane/air diffusion flames doped with n-heptane and toluene between 2 and 8 atm. Proceedings of the Combustion Institute, 2021, 38, 1403-1412.	3.9	17
7	Assessment of subfilter-scale turbulence-radiation interaction in non-luminous pool fires. Proceedings of the Combustion Institute, 2021, 38, 4927-4934.	3.9	14
8	Effects of oxygen depletion on soot production, emission and radiative heat transfer in opposed-flow flame spreading over insulated wire in microgravity. Combustion and Flame, 2021, 230, 111447.	5.2	7
9	Modeling soot formation in laminar coflow ethylene inverse diffusion flames. Combustion and Flame, 2021, 232, 111513.	5.2	21
10	Soot Production and Radiative Heat Transfer in Opposed Flame Spread over a Polyethylene Insulated Wire in Microgravity. Fire Technology, 2020, 56, 287-314.	3.0	15
11	Experimental Evaluation of Flame Radiative Feedback: Methodology and Application to Opposed Flame Spread Over Coated Wires in Microgravity. Fire Technology, 2020, 56, 185-207.	3.0	18
12	Large Eddy Simulation of medium-scale methanol pool fires - effects of pool boundary conditions. Combustion and Flame, 2020, 222, 336-354.	5.2	25
13	Experimental assessment of the sudden-reversal of the oxygen dilution effect on soot production in coflow ethylene flames II: soot radiation and flame transition analysis. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 255, 107261.	2.3	3
14	The impact of radiative heat transfer in combustion processes and its modeling " with a focus on turbulent flames. Fuel, 2020, 281, 118555.	6.4	25
15	On the effects of opposed flow conditions on non-buoyant flames spreading over polyethylene-coated wires " Part I: Spread rate and soot production. Combustion and Flame, 2020, 221, 530-543.	5.2	8
16	Influence of gas radiative property models on Large Eddy Simulation of 1 m methanol pool fires. Combustion and Flame, 2020, 221, 352-363.	5.2	10
17	On the effects of opposed flow conditions on non-buoyant flames spreading over polyethylene-coated wires " Part II: Soot oxidation quenching and smoke release. Combustion and Flame, 2020, 221, 544-551.	5.2	6
18	Pressure effects on the soot production and radiative heat transfer of non-buoyant laminar diffusion flames spreading in opposed flow over insulated wires. Combustion and Flame, 2020, 222, 383-391.	5.2	7

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19	Pressure effects on radiative heat transfer in sooting turbulent diffusion flames. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 245, 106906.	2.3	10
20	Effects of the K-value solution schemes on radiation heat transfer modelling in oxy-fuel flames using the full-spectrum correlated K-distribution method. Applied Thermal Engineering, 2020, 170, 114986.	6.0	9
21	Modeling of large-scale under-expanded hydrogen jet fires. Proceedings of the Combustion Institute, 2019, 37, 3943-3950.	3.9	11
22	Verification and validation of a variable-density solver for fire safety applications. Numerical Heat Transfer, Part B: Fundamentals, 2019, 76, 107-129.	0.9	9
23	Investigation of gas and particle radiation modelling in wet oxy-coal combustion atmospheres. International Journal of Heat and Mass Transfer, 2019, 133, 1026-1040.	4.8	26
24	Influence of water-vapor in oxidizer stream on the sooting behavior for laminar coflow ethylene diffusion flames. Combustion and Flame, 2019, 210, 114-125.	5.2	25
25	Effects of soot inception and condensation PAH species and fuel preheating on soot formation modeling in laminar coflow CH ₄ /air diffusion flames doped with n-heptane/toluene mixtures. Fuel, 2019, 253, 1371-1377.	6.4	24
26	Probing the local radiative quenching during the transition from a non-smoking to a smoking laminar coflow ethylene/air non-premixed flame. Combustion and Flame, 2019, 203, 120-129.	5.2	12
27	Soot emission radiation-turbulence interactions in diffusion jet flames. Combustion Science and Technology, 2019, 191, 126-136.	2.3	14
28	ACCURACY OF ENGINEERING METHODS FOR RADIATIVE TRANSFER IN CO ₂ -H ₂ O MIXTURES AT HIGH TEMPERATURE. , 2019, , .		7
29	Numerical simulations of microgravity ethylene/air laminar boundary layer diffusion flames. Combustion and Flame, 2018, 191, 99-108.	5.2	6
30	A calibrated soot production model for ethylene inverse diffusion flames at different Oxygen Indexes. Fuel, 2018, 212, 1-11.	6.4	8
31	On the modeling of the filtered radiative transfer equation in large eddy simulations of lab-scale sooting turbulent diffusion flames. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 221, 51-60.	2.3	18
32	Pressure effects on radiative heat transfer in hydrogen/air turbulent diffusion flames. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 220, 172-179.	2.3	13
33	Soot production modeling in a laminar coflow ethylene diffusion flame at different Oxygen Indices using a PAH-based sectional model. Fuel, 2018, 231, 404-416.	6.4	29
34	Modelling emission turbulence-radiation interaction by using a hybrid flamelet/stochastic Eulerian field method. AIP Conference Proceedings, 2017, , .	0.4	0
35	Calculations of radiative heat transfer in an axisymmetric jet diffusion flame at elevated pressures using different gas radiation models. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 197, 12-25.	2.3	43
36	Experimental assessment of the sudden-reversal of the oxygen dilution effect on soot production in coflow ethylene flames. Combustion and Flame, 2017, 183, 242-252.	5.2	28

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37	Numerical study of soot formation in laminar coflow methane/air diffusion flames doped by n-heptane/toluene and iso-octane/toluene blends. <i>Combustion and Flame</i> , 2017, 180, 167-174.	5.2	29
38	Absorption turbulence-radiation interactions in sooting turbulent jet flames. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 201, 1-9.	2.3	22
39	Stochastic Eulerian field method for radiative heat transfer in a propane oxygen-enhanced turbulent diffusion flame. <i>Combustion Theory and Modelling</i> , 2017, 21, 62-78.	1.9	10
40	On the influence of the correlation between enthalpy defect and mixture fraction in sooting turbulent jet flames. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 184, 68-75.	2.3	2
41	Simulations of sooting turbulent jet flames using a hybrid flamelet/stochastic Eulerian field method. <i>Combustion Theory and Modelling</i> , 2016, 20, 221-257.	1.9	24
42	Transported scalar PDF modeling of oxygen-enriched turbulent jet diffusion flames: Soot production and radiative heat transfer. <i>Fuel</i> , 2016, 178, 37-48.	6.4	23
43	Effects of soot absorption coefficient's Planck function correlation on radiative heat transfer in oxygen-enriched propane turbulent diffusion flame. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 172, 50-57.	2.3	18
44	Effects of total pressure on non-grey gas radiation transfer in oxy-fuel combustion using the LBL, SNB, SNBCK, WSGG, and FSCK methods. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 172, 24-35.	2.3	60
45	Numerical study of the effects of pressure on soot formation in laminar coflow n-heptane/air diffusion flames between 1 and 10 atm. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 1727-1734.	3.9	23
46	Simultaneous soot temperature and volume fraction measurements in axis-symmetric flames by a two-dimensional modulated absorption/emission technique. <i>Combustion and Flame</i> , 2015, 162, 2705-2719.	5.2	69
47	Numerical study of soot formation in laminar coflow diffusion flames of methane doped with primary reference fuels. <i>Combustion and Flame</i> , 2015, 162, 1153-1163.	5.2	30
48	A database of narrow-band parameters for fuels commonly encountered in fire applications. <i>Fire Safety Journal</i> , 2015, 78, 202-218.	3.1	9
49	Effects of water vapor addition to the air stream on soot formation and flame properties in a laminar coflow ethylene/air diffusion flame. <i>Combustion and Flame</i> , 2014, 161, 1724-1734.	5.2	80
50	Radiative Heat Transfer Through the Fuel-Rich Core of Laboratory-Scale Pool Fires. <i>Combustion Science and Technology</i> , 2014, 186, 475-489.	2.3	11
51	Relationship between the spectral line based weighted-sum-of-gray-gases model and the full spectrum k-distribution model. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 143, 111-120.	2.3	29
52	The Oxygen Index on Soot Production in Propane Diffusion Flames. <i>Combustion Science and Technology</i> , 2014, 186, 504-517.	2.3	20
53	Experimental and numerical study of the effects of the oxygen index on the radiation characteristics of laminar coflow diffusion flames. <i>Combustion and Flame</i> , 2013, 160, 786-795.	5.2	58
54	Modelling thermal radiation in buoyant turbulent diffusion flames. <i>Combustion Theory and Modelling</i> , 2012, 16, 817-841.	1.9	14

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55	Spectral emission of flames from laboratory-scale vegetation fires. <i>International Journal of Wildland Fire</i> , 2009, 18, 875.	2.4	50
56	A theoretical and numerical evaluation of the steady-state burning rate of vertically oriented PMMA slabs. <i>Combustion Theory and Modelling</i> , 2008, 12, 451-475.	1.9	12
57	Dynamics of wildland fires and their impact on structures. <i>Combustion and Flame</i> , 2007, 149, 314-328.	5.2	42
58	Modeling transport and combustion of firebrands from burning trees. <i>Combustion and Flame</i> , 2007, 150, 151-169.	5.2	98
59	A BLOCKED-OFF-REGION STRATEGY TO COMPUTE FIRE-SPREAD SCENARIOS INVOLVING INTERNAL FLAMMABLE TARGETS. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2005, 47, 419-441.	0.9	12
60	DYNAMIC AND RADIATIVE ASPECTS OF FIRE-WATER MIST INTERACTIONS. <i>Combustion Science and Technology</i> , 2004, 176, 721-752.	2.3	12