Dionysios I Kolaitis

List of Publications by Year
in descending order

35 papers	598 citations	687220 13 h-index	610775 24 g-index
36 all docs	36 docs citations	36 times ranked	625 citing authors

#	Article	IF	Citations
1	Comparative assessment of internal and external thermal insulation systems for energy efficient retrofitting of residential buildings. Energy and Buildings, 2013, 64, 123-131.	3.1	173
2	A comparative study of numerical models for Eulerianâ€“Lagrangian simulations of turbulent evaporating sprays. International Journal of Heat and Fluid Flow, 2006, 27, 424-435.	1.1	45
3	Fire protection of light and massive timber elements using gypsum plasterboards and wood based panels: A large-scale compartment fire test. Construction and Building Materials, 2014, 73, 163-170.	3.2	43
4	Fire safety aspects of PCM-enhanced gypsum plasterboards: An experimental and numerical investigation. Fire Safety Journal, 2015, 72, 50-58.	1.4	39
5	Development of a solid reaction kinetics gypsum dehydration model appropriate for CFD simulation of gypsum plasterboard wall assemblies exposed to fire. Fire Safety Journal, 2013, 58, 151-159.	1.4	30
6	On the assumption of using n-heptane as a â€œsurrogate fuelâ€•for the description of the cool flame oxidation of diesel oil. Proceedings of the Combustion Institute, 2009, 32, 3197-3205.	2.4	28
7	Quantification of emissions from the co-incineration of cutting oil emulsions in cement plants â€“ Part I: NOx, CO and VOC. Fuel, 2007, 86, 1144-1152.	3.4	27
8	A tabulated chemistry approach for numerical modeling of diesel spray evaporation in a â€œstabilized cool flameâ€•environment. Combustion and Flame, 2006, 145, 259-271.	2.8	25
9	Characteristics of Externally Venting Flames and Their Effect on the FaÃ§ade: A Detailed Experimental Study. Fire Technology, 2016, 52, 2043-2069.	1.5	17
10	Quantification of emissions from the co-incineration of cutting oil emulsions in cement plants â€“ Part II: Trace species. Fuel, 2007, 86, 2491-2501.	3.4	16
11	Geometrical characteristics of externally venting flames: Assessment of fire engineering design correlations using medium-scale compartment-faÃ§ade fire tests. Journal of Loss Prevention in the Process Industries, 2016, 44, 780-790.	1.7	16
12	Thermal characteristics of externally venting flames and their effect on the exposed faÃ§ade surface. Fire Safety Journal, 2017, 91, 451-460.	1.4	16
13	Modeling of the gasâ€“particle flow in industrial classification chambers for design optimization. Powder Technology, 2002, 125, 298-305.	2.1	14
14	Assessment of Fire Engineering Design Correlations Used to Describe the Geometry and Thermal Characteristics of Externally Venting Flames. Fire Technology, 2017, 53, 709-739.	1.5	13
15	Fire behaviour of gypsum plasterboard wall assemblies: CFD simulation of a full-scale residential building. Case Studies in Fire Safety, 2017, 7, 23-35.	1.0	12
16	Turbulent Sprays Evaporating Under "Stabilized Cool Flame" Conditions: Assessment of two CFD Approaches. Numerical Heat Transfer, Part B: Fundamentals, 2007, 52, 51-68.	0.6	10
17	Thermal and Mechanical Computational Study of Load-Bearing Cold-Formed Steel Drywall Systems Exposed to Fire. Fire Technology, 2016, 52, 2071-2092.	1.5	10
18	NUMERICAL SIMULATION OF DIESEL SPRAY EVAPORATION EXPLOITING THE "STABILIZED COOL FLAME" PHENOMENON. , 2005, 15, 1-18.		9

#	Article	IF	Citations
19	Solar wall enhanced with phase-change materials: a detailed numerical simulation study. Advances in Building Energy Research, 2017, 11, 87-103.	1.1	8
20	Numerical Simulation of Diesel Spray Evaporation in a â€œStabilized Cool Flameâ€•Reactor: A Comparative Study. Flow, Turbulence and Combustion, 2009, 82, 599-619.	1.4	7
21	An experimental and numerical simulation study of an active solar wall enhanced with phase change materials. Journal of Facade Design and Engineering, 2015, 3, 71-80.	0.1	6
22	Coupled thermo-mechanical simulation for the performance-based fire design of CFS drywall systems. Journal of Constructional Steel Research, 2018, 145, 196-209.	1.7	6
23	NUMERICAL MODELLING OF TRANSPORT PHENOMENA IN A DIESEL SPRAY â€œSTABILIZED COOL FLAMEâ€• REACTOR. Combustion Science and Technology, 2006, 178, 1087-1115.	1.2	5
24	Numerical investigation of externally venting flame characteristics in a corridor-faÃ§ade configuration. Fire Safety Journal, 2019, 110, 102912.	1.4	4
25	Experimental and Computational Investigation of CO Production and Dispersion in an Automotive Repair Shop. Indoor and Built Environment, 2013, 22, 750-765.	1.5	3
26	Development and Parametric Evaluation of a Tabulated Chemistry Tool for the Simulation of n-Heptane Low-Temperature Oxidation and Autoignition Phenomena. Journal of Combustion, 2014, 2014, 1-13.	0.5	3
27	Fire Safety Protection Assessment of Industrial Technologies. Journal of Physics: Conference Series, 2018, 1107, 042036.	0.3	3
28	Performance of a ventilatedâ€faÃ§ade system under fire conditions: An experimental investigation. Fire and Materials, 2020, 44, 776-792.	0.9	3
29	Gypsum plasterboards enhanced with phase change materials: A fire safety assessment using experimental and computational techniques. MATEC Web of Conferences, 2013, 9, 06002.	0.1	2
30	Comparative assessment of CFD Tools and the Eurocode Methodology in describing Externally Venting Flames. MATEC Web of Conferences, 2013, 9, 03003.	0.1	2
31	Effect of horizontal projection's vertical location on the characteristics of externally venting flames. Fire Safety Journal, 2021, 120, 103138.	1.4	1
32	Fire Performance of CLT Members: A Detailed Review of Experimental Studies Across Multiple Scales. , 2020, , 251-257.		1
33	A 3D CFD Modelling Study of a Diesel Oil Evaporation Device Operating in the Stabilized Cool Flame Regime. Journal of Computational Multiphase Flows, 2010, 2, 219-233.	0.8	0
34	Review and comparative assessment of engineering correlations for the fire-induced air inflow rate through a compartment opening. Journal of Physics: Conference Series, 2018, 1107, 042028.	0.3	0
35	EQUILIBRIUM EVAPORATION SPRAY MODELING FOR APPLICATION IN COOL FLAMES. Clean Air, 2005, 6, 357-374.	0.0	0