

David I Rush

List of Publications by Year in descending order

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45
papers

588
citations

759233

12
h-index

794594

19
g-index

46
all docs

46
docs citations

46
times ranked

466
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel Coronavirus in Cape Town Informal Settlements: Feasibility of Using Informal Dwelling Outlines to Identify High Risk Areas for COVID-19 Transmission From A Social Distancing Perspective. JMIR Public Health and Surveillance, 2020, 6, e18844.	2.6	81
2	Towards a fragility assessment of a concrete column exposed to a real fire – Tisova Fire Test. Engineering Structures, 2017, 150, 537-549.	5.3	29
3	Residual capacity of fire-exposed concrete-filled steel hollow section columns. Engineering Structures, 2015, 100, 550-563.	5.3	27
4	Detecting historic informal settlement fires with Sentinel 1 and 2 satellite data - Two case studies in Cape Town. Fire Safety Journal, 2019, 108, 102828.	3.1	24
5	Expert judgment-based fragility assessment of reinforced concrete buildings exposed to fire. Reliability Engineering and System Safety, 2017, 167, 105-127.	8.9	23
6	A Critical Evaluation of BS PD 7974-7 Structural Fire Response Data Based on USA Fire Statistics. Fire Technology, 2019, 55, 1243-1293.	3.0	22
7	Full-Scale Informal Settlement Dwelling Fire Experiments and Development of Numerical Models. Fire Technology, 2020, 56, 639-672.	3.0	22
8	Fire risk reduction on the margins of an urbanizing world. Disaster Prevention and Management, 2020, 29, 747-760.	1.2	22
9	20 Dwelling Large-Scale Experiment of Fire Spread in Informal Settlements. Fire Technology, 2020, 56, 1599-1620.	3.0	21
10	Developing an experimental database of burning characteristics of combustible informal dwelling materials based on South African informal settlement investigation. Fire Safety Journal, 2020, 111, 102938.	3.1	20
11	Digital engagement methods for earthquake and fire preparedness: a review. Natural Hazards, 2016, 83, 1583.	3.4	18
12	Furnace tests on unprotected and protected concrete filled structural hollow sections. Fire Safety Journal, 2015, 78, 71-84.	3.1	15
13	The Effect of Separation Distance Between Informal Dwellings on Fire Spread Rates Based on Experimental Data and Analytical Equations. Fire Technology, 2021, 57, 873-909.	3.0	15
14	Semi-empirical model for estimating the heat release rate required for flashover in compartments with thermally-thin boundaries and ultra-fast fires. Fire Safety Journal, 2021, 120, 103124.	3.1	15
15	A full-scale experimental study on single dwelling burning behavior of informal settlement. Fire Safety Journal, 2021, 120, 103076.	3.1	14
16	Design of intumescent fire protection for concrete filled structural hollow sections. Fire Safety Journal, 2014, 67, 13-23.	3.1	13
17	Influence of wind on the onset of flashover within small-scale compartments with thermally-thin and thermally-thick boundaries. Fire Safety Journal, 2020, 117, 103211.	3.1	12
18	Conceptualising a GIS-based risk quantification framework for fire spread in informal settlements: A Cape Town case study. International Journal of Disaster Risk Reduction, 2020, 50, 101736.	3.9	12

#	ARTICLE	IF	CITATIONS
19	Determination of Critical Separation Distance Between Dwellings in Informal Settlements Fire. Fire Technology, 2021, 57, 987-1014.	3.0	11
20	Experimental and Numerical Study for the Effect of Horizontal Openings on the External Plume and Potential Fire Spread in Informal Settlements. Applied Sciences (Switzerland), 2021, 11, 2380.	2.5	11
21	Tisova Fire Test " Fire behaviours and lessons learnt. Fire Safety Journal, 2021, 121, 103261.	3.1	11
22	Towards the Development of a Probabilistic Approach to Informal Settlement Fire Spread Using Ignition Modelling and Spatial Metrics. Fire, 2020, 3, 67.	2.8	10
23	Spatial metrics from LiDAR roof mapping for fire spread risk assessment of informal settlements in Cape Town, South Africa. Fire Safety Journal, 2021, 120, 103053.	3.1	10
24	A preliminary investigation to develop a semi-probabilistic model of informal settlement fire spread using B-RISK. Fire Safety Journal, 2021, 120, 103115.	3.1	10
25	Structural performance of unprotected concrete-filled steel hollow sections in fire: A review and meta-analysis of available test data. Steel and Composite Structures, 2012, 12, 325-350.	1.3	10
26	Experimental study on fallout behaviour of tempered glass façades with different frame insulation conditions in an enclosure fire. Proceedings of the Combustion Institute, 2019, 37, 3889-3898.	3.9	9
27	Laboratory experiment of fire spread between two informal settlement dwellings. International Journal of Thermal Sciences, 2022, 171, 107195.	4.9	9
28	Determination of critical fallout condition of tempered glass in an enclosure fire. Fire Safety Journal, 2018, 101, 18-24.	3.1	8
29	Post-heating response of concrete-filled steel tubular columns under sustained loads. Structures, 2019, 21, 90-102.	3.6	8
30	Assessing fire frequency and structural fire behaviour of England statistics according to BS PD 7974-7. Fire Safety Journal, 2021, 120, 103030.	3.1	8
31	Tactics, objectives, and choices: Building a fire risk index. Fire Safety Journal, 2021, 119, 103241.	3.1	8
32	Modelling the Effects of Boundary Walls on the Fire Dynamics of Informal Settlement Dwellings. Fire Technology, 2021, 57, 1753-1781.	3.0	8
33	FDS simulations and modelling efforts of travelling fires in a large elongated compartment. Fire and Materials, 2020, 45, 699.	2.0	7
34	Cyclic behaviour of as-built and strengthened existing reinforced concrete columns previously damaged by fire. Engineering Structures, 2022, 266, 114584.	5.3	7
35	Preliminary Investigation of Critical Separation Distance Between Shacks in Informal Settlements Fire. , 2020, , 379-389.		6
36	Fire Resistance Design of Unprotected Concrete Filled Steel Hollow Sections: Meta-Analysis of Available Furnace Test Data. Fire Safety Science, 2011, 10, 1549-1562.	0.3	5

#	ARTICLE	IF	CITATIONS
37	The influence of wind and the spatial layout of dwellings on fire spread in informal settlements in Cape Town. <i>Computers, Environment and Urban Systems</i> , 2022, 91, 101734.	7.1	5
38	EFFECTS OF A TRAVELLING FIRE ON A CONCRETE COLUMN – TISOVA FIRE TEST. <i>Applications of Structural Fire Engineering</i> , 0, , .	0.3	3
39	An Experimental and Numerical Study on the Effects of Leakages and Ventilation Conditions on Informal Settlement Fire Dynamics. <i>Fire Technology</i> , 0, , 1.	3.0	3
40	Proximal design in South African informal settlements: users as designers and the construction of the built environment and its fire risks. <i>Tapuya: Latin American Science, Technology and Society</i> , 2020, 3, 528-550.	0.7	2
41	Fire detection in informal settlements. , 2018, , .		2
42	Meta-analysis of UK, USA and New Zealand fire statistics databases with respect to damage and financial loss. , 2017, , 179-188.		2
43	Semi-empirical correlations for predicting hot gas layer temperature in pre-flashover compartment fires considering fire source location. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2022, 44, 1.	1.6	2
44	Simplified model for pre-code RC column exposed to fire followed by earthquake. <i>Scientific Reports</i> , 2022, 12, .	3.3	2
45	Resilience, fire and the UK Codes and Standards. Where are they and where could they go?. <i>Indoor and Built Environment</i> , 0, , 1420326X2110544.	2.8	0