

Richard Walls

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

478
citations

759233

12
h-index

794594

19
g-index

39
all docs

39
docs citations

39
times ranked

177
citing authors

#	ARTICLE	IF	CITATIONS
1	Informal settlement fires in South Africa: Fire engineering overview and full-scale tests on ‘shacks’. Fire Safety Journal, 2017, 91, 997-1006.	3.1	60
2	Fire spread analysis for the 2017 Imizamo Yethu informal settlement conflagration in South Africa. International Journal of Disaster Risk Reduction, 2019, 39, 101146.	3.9	44
3	An experimental study of the behavior of 3D printed concrete at elevated temperatures. Fire Safety Journal, 2021, 120, 103075.	3.1	43
4	Experimental study of fire spread between multiple full scale informal settlement dwellings. Fire Safety Journal, 2019, 105, 19-27.	3.1	36
5	Appraisal of fire safety interventions and strategies for informal settlements in South Africa. Disaster Prevention and Management, 2019, 28, 343-358.	1.2	28
6	Full-Scale Informal Settlement Dwelling Fire Experiments and Development of Numerical Models. Fire Technology, 2020, 56, 639-672.	3.0	22
7	Fire risk reduction on the margins of an urbanizing world. Disaster Prevention and Management, 2020, 29, 747-760.	1.2	22
8	20 Dwelling Large-Scale Experiment of Fire Spread in Informal Settlements. Fire Technology, 2020, 56, 1599-1620.	3.0	21
9	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
10	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
11	Towards Understanding Fire Causes in Informal Settlements Based on Inhabitant Risk Perception. Fire, 2021, 4, 39.	2.8	14
12	An algorithm for grouping members in a structure. Engineering Structures, 2010, 32, 1760-1768.	5.3	13
13	Optimizing Structures Subject to Multiple Deflection Constraints and Load Cases Using the Principle of Virtual Work. Journal of Structural Engineering, 2010, 136, 1444-1452.	3.4	13
14	Towards sustainable slums: understanding fire engineering in informal settlements. Lecture Notes in Networks and Systems, 2017, , 93-98.	0.7	12
15	Towards a simplified fire dynamic simulator model to analyse fire spread between multiple informal settlement dwellings based on full-scale experiments. Fire and Materials, 2021, 45, 720-736.	2.0	11
16	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
17	Development of a full-scale testing methodology for benchmarking fire suppression systems for use in informal settlement dwellings. International Journal of Disaster Risk Reduction, 2020, 45, 101451.	3.9	10
18	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

#	ARTICLE	IF	CITATIONS
19	Analysis of Structures in Fire as Simplified Skeletal Frames Using a Customised Beam Finite Element. Fire Technology, 2018, 54, 1655-1682.	3.0	9
20	Finite Element Modelling of the Structural Behaviour of a Novel Cellular Beam Non-composite Steel Structure in Fire. International Journal of Steel Structures, 2019, 19, 1367-1380.	1.3	9
21	Developing a framework for fire investigations in informal settlements. Fire Safety Journal, 2021, 120, 103046.	3.1	8
22	Parametric investigation into the cross-sectional stress-strain behaviour, stiffness and thermal forces of steel, concrete and composite beams exposed to fire. Journal of Structural Fire Engineering, 2019, 11, 100-117.	0.8	7
23	Fire incident analysis of a large-scale informal settlement fire based on video imagery. International Journal of Disaster Risk Reduction, 2021, 55, 102107.	3.9	7
24	Thermal behaviour of a novel non-composite cellular beam floor system in fire. Journal of Structural Fire Engineering, 2019, 10, 354-372.	0.8	5
25	Experimental Testing and Finite Element Modelling of Steel Columns Weakened to Facilitate Building Demolition. International Journal of Steel Structures, 2018, 18, 1483-1496.	1.3	3
26	An Experimental and Numerical Study on the Effects of Leakages and Ventilation Conditions on Informal Settlement Fire Dynamics. Fire Technology, 0, , 1.	3.0	3
27	Application of the Framework for Fire Investigations in Informal Settlements to large-scale real fire events – Consideration of fire formation patterns, fire spread rates and home survivability. Fire Safety Journal, 2021, 125, 103435.	3.1	3
28	Fire Dynamics in Informal Settlement – ‘Shacks’ – Lessons Learnt and Appraisal of Fire Behavior Based on Full-Scale Testing. , 2020, , 15-27.		3
29	A comparison of technical and practical aspects of Eurocode 3-1-1 and SANS 10162-1 hot-rolled steelwork design codes. Journal of the South African Institution of Civil Engineering, 2016, 58, 16-25.	0.3	3
30	Demolition of steel structures: structural engineering solutions for a more sustainable construction industry. Lecture Notes in Networks and Systems, 2017, , 3-9.	0.7	2
31	Fire detection in informal settlements. , 2018, , .		2
32	A nonlinear, beam finite element with variable, eccentric neutral axis. Engineering Structures, 2019, 187, 341-351.	5.3	1
33	Determination of water application rates required for communities to suppress post-flashover informal settlement fires based on numerical modelling and experimental tests. Fire and Materials, 2020, 44, 609-623.	2.0	1
34	Africa: Taking fire safety forwards. Fire and Materials, 2020, , .	2.0	1
35	Implementation of the fire beam element method into OpenSees for the analysis of structures in fire. Advances in Structural Engineering, 2020, 23, 3239-3250.	2.4	1
36	Mass and stiffness distributions in optimized ungrouped unbraced frames. International Journal of Steel Structures, 2010, 10, 233-242.	1.3	0

#	ARTICLE	IF	CITATIONS
37	Insulation Resistance Time Reference Curves for Specifying Passive Fire Protection for Modular Structures from Shipping Containers. Fire Technology, 0, , 1.	3.0	0