

Richard Walls

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2832253/publications.pdf>

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	Towards a simplified fire dynamic simulator model to analyse fire spread between multiple informal settlement dwellings based on full-scale experiments. <i>Fire and Materials</i> , 2021, 45, 720-736.	2.0	11
2	An experimental study of the behavior of 3D printed concrete at elevated temperatures. <i>Fire Safety Journal</i> , 2021, 120, 103075.	3.1	43
3	The Effect of Separation Distance Between Informal Dwellings on Fire Spread Rates Based on Experimental Data and Analytical Equations. <i>Fire Technology</i> , 2021, 57, 873-909.	3.0	15
4	Developing a framework for fire investigations in informal settlements. <i>Fire Safety Journal</i> , 2021, 120, 103046.	3.1	8
5	Fire incident analysis of a large-scale informal settlement fire based on video imagery. <i>International Journal of Disaster Risk Reduction</i> , 2021, 55, 102107.	3.9	7
6	A preliminary investigation to develop a semi-probabilistic model of informal settlement fire spread using B-RISK. <i>Fire Safety Journal</i> , 2021, 120, 103115.	3.1	10
7	Towards Understanding Fire Causes in Informal Settlements Based on Inhabitant Risk Perception. <i>Fire</i> , 2021, 4, 39.	2.8	14
8	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. <i>Fire Safety Journal</i> , 2021, 125, 103435.	3.1	3
9	Full-Scale Informal Settlement Dwelling Fire Experiments and Development of Numerical Models. <i>Fire Technology</i> , 2020, 56, 639-672.	3.0	22
10	Developing an experimental database of burning characteristics of combustible informal dwelling materials based on South African informal settlement investigation. <i>Fire Safety Journal</i> , 2020, 111, 102938.	3.1	20
11	Fire risk reduction on the margins of an urbanizing world. <i>Disaster Prevention and Management</i> , 2020, 29, 747-760.	1.2	22
12	Determination of water application rates required for communities to suppress post-flashover informal settlement fires based on numerical modelling and experimental tests. <i>Fire and Materials</i> , 2020, 44, 609-623.	2.0	1
13	Towards the Development of a Probabilistic Approach to Informal Settlement Fire Spread Using Ignition Modelling and Spatial Metrics. <i>Fire</i> , 2020, 3, 67.	2.8	10
14	Africa: Taking fire safety forwards. <i>Fire and Materials</i> , 2020, , .	2.0	1
15	Implementation of the fire beam element method into OpenSees for the analysis of structures in fire. <i>Advances in Structural Engineering</i> , 2020, 23, 3239-3250.	2.4	1
16	Development of a full-scale testing methodology for benchmarking fire suppression systems for use in informal settlement dwellings. <i>International Journal of Disaster Risk Reduction</i> , 2020, 45, 101451.	3.9	10
17	20 Dwelling Large-Scale Experiment of Fire Spread in Informal Settlements. <i>Fire Technology</i> , 2020, 56, 1599-1620.	3.0	21
18	Fire Dynamics in Informal Settlement ‘Shacks’: Lessons Learnt and Appraisal of Fire Behavior Based on Full-Scale Testing. , 2020, , 15-27.		3

#	ARTICLE	IF	CITATIONS
19	Appraisal of fire safety interventions and strategies for informal settlements in South Africa. Disaster Prevention and Management, 2019, 28, 343-358.	1.2	28
20	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
21	A nonlinear, beam finite element with variable, eccentric neutral axis. Engineering Structures, 2019, 187, 341-351.	5.3	1
22	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
23	Experimental study of fire spread between multiple full scale informal settlement dwellings. Fire Safety Journal, 2019, 105, 19-27.	3.1	36
24	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
25	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
26	Analysis of Structures in Fire as Simplified Skeletal Frames Using a Customised Beam Finite Element. Fire Technology, 2018, 54, 1655-1682.	3.0	9
27	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
28	Fire detection in informal settlements. , 2018, , .		2
29	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
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	Towards sustainable slums: understanding fire engineering in informal settlements. Lecture Notes in Networks and Systems, 2017, , 93-98.	0.7	12
32	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
33	Mass and stiffness distributions in optimized ungrouped unbraced frames. International Journal of Steel Structures, 2010, 10, 233-242.	1.3	0
34	An algorithm for grouping members in a structure. Engineering Structures, 2010, 32, 1760-1768.	5.3	13
35	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
36	Insulation Resistance Time Reference Curves for Specifying Passive Fire Protection for Modular Structures from Shipping Containers. Fire Technology, 0, , 1.	3.0	0

#	ARTICLE	IF	CITATIONS
37	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