

# Brian J Meacham

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6492828/publications.pdf>

Version: 2024-02-01

55  
papers

1,058  
citations

394421

19  
h-index

477307

29  
g-index

61  
all docs

61  
docs citations

61  
times ranked

721  
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance-based building regulation: current situation and future needs. <i>Building Research and Information</i> , 2005, 33, 91-106.	3.9	104
2	Locating Backup Facilities to Enhance Supply Chain Disaster Resilience. <i>Growth and Change</i> , 2008, 39, 642-666.	2.6	77
3	Accommodating perceptions of risk in performance-based building fire safety code development. <i>Fire Safety Journal</i> , 2000, 34, 297-309.	3.1	43
4	Sustainability and resiliency objectives in performance building regulations. <i>Building Research and Information</i> , 2016, 44, 474-489.	3.9	43
5	IAFSS agenda 2030 for a fire safe world. <i>Fire Safety Journal</i> , 2019, 110, 102889.	3.1	43
6	Behavior of steel-sheathed shear walls subjected to seismic and fire loads. <i>Fire Safety Journal</i> , 2017, 91, 524-531.	3.1	42
7	Performance-Based Fire Safety Engineering: an Introduction of Basic Concepts. <i>Journal of Fire Protection Engineering</i> , 1995, 7, 35-53.	0.8	39
8	Twenty years of performance-based fire protection design: challenges faced and a look ahead. <i>Journal of Fire Protection Engineering</i> , 2013, 23, 249-276.	0.8	38
9	Use of Small-Scale Test Data to Enhance Fire-Related Threat, Vulnerability, Consequence and Risk Assessment for Passenger Rail Vehicles. <i>Journal of Homeland Security and Emergency Management</i> , 2012, 9, 1-16.	0.5	37
10	Environmental impact of fire. <i>Fire Science Reviews</i> , 2016, 5, .	0.9	35
11	Accommodating innovation in building regulation: lessons and challenges. <i>Building Research and Information</i> , 2010, 38, 686-698.	3.9	33
12	Risk-Informed performance-based approach to building regulation. <i>Journal of Risk Research</i> , 2010, 13, 877-893.	2.6	33
13	A socio-technical system framework for risk-informed performance-based building regulation. <i>Building Research and Information</i> , 2018, 46, 444-462.	3.9	30
14	Understanding Risk: Quantification, Perceptions, and Characterization. <i>Journal of Fire Protection Engineering</i> , 2004, 14, 199-227.	0.8	26
15	Fire Safety Challenges of Green Buildings. <i>SpringerBriefs in Fire</i> , 2012, , .	0.3	25
16	Integrating human factors issues into engineered fire safety design. <i>Fire and Materials</i> , 1999, 23, 273-279.	2.0	23
17	Post-Earthquake Fire Performance of Buildings: Summary of a Large-Scale Experiment and Conceptual Framework for Integrated Performance-Based Seismic and Fire Design. <i>Fire Technology</i> , 2016, 52, 1133-1157.	3.0	23
18	A Framework for Risk-Informed Performance-Based Fire Protection Design for the Built Environment. <i>Fire Technology</i> , 2014, 50, 161-181.	3.0	21

#	ARTICLE	IF	CITATIONS
19	Integrating human behavior and response issues into fire safety management of facilities. <i>Facilities</i> , 1999, 17, 303-312.	1.6	19
20	Fire Performance Assessment of a Fiber Reinforced Polymer Wall Panel Used in a Single Family Dwelling. <i>Fire Technology</i> , 2014, 50, 1607-1617.	3.0	19
21	Use of damage in fire investigation: a review of fire patterns analysis, research and future direction. <i>Fire Science Reviews</i> , 2015, 4, .	0.9	17
22	Conceptual Model Development for Holistic Building Fire Safety Performance Analysis. <i>Fire Technology</i> , 2015, 51, 173-193.	3.0	17
23	The Use of Artificial Intelligence Techniques for Signal Discrimination in Fire Detection Systems. <i>Journal of Fire Protection Engineering</i> , 1994, 6, 125-136.	0.8	15
24	The effects of cultural differences between the west and Saudi Arabia on emergency evacuation—clothing effects on walking speed. <i>Fire and Materials</i> , 2015, 39, 353-370.	2.0	15
25	A holistic framework for development and assessment of risk-informed performance-based building regulation. <i>Fire and Materials</i> , 2020, 45, 757.	2.0	13
26	Design of Detection Systems. , 2016, , 1314-1377.		13
27	Overview of the Building Nonstructural Components and Systems (BNCS) Project. , 2013, , .		12
28	A Sociotechnical Systems Framework for Performance-Based Design for Fire Safety. <i>Fire Technology</i> , 2022, 58, 1137-1167.	3.0	12
29	International Developments in Fire Sensor Technology. <i>Journal of Fire Protection Engineering</i> , 1994, 6, 89-98.	0.8	11
30	Performance-Based Structural Fire Safety. <i>Journal of Performance of Constructed Facilities</i> , 2006, 20, 45-53.	2.0	11
31	Design and Construction of a Full-Scale 5-Story Base Isolated Building Outfitted with Nonstructural Components for Earthquake Testing at the UCSD-NEES Facility. , 2012, , .		11
32	Building Fire Risk Analysis. , 2016, , 2941-2991.		11
33	Characterization of Smoke From Smoldering Combustion for the Evaluation of Light Scattering Type Smoke Detector Response. <i>Journal of Fire Protection Engineering</i> , 1992, 4, 17-32.	0.8	10
34	Enhancing Building Fire Safety Performance by Reducing Miscommunication and Misconceptions. <i>Fire Technology</i> , 2014, 50, 183-203.	3.0	10
35	Integration of fire safety and building design. <i>Building Research and Information</i> , 2014, 42, 696-709.	3.9	8
36	The effects of cultural differences between the us and saudi arabia on emergency evacuation—Analysis of self reported recognition/reaction times and cognitive state. <i>Case Studies in Fire Safety</i> , 2017, 7, 1-7.	1.0	8

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37	Earthquake and Postearthquake Fire Testing of a Midrise Cold-Formed Steel-Framed Building. I: Building Response and Physical Damage. Journal of Structural Engineering, 2021, 147, .	3.4	8
38	Factors affecting the early detection of fire in electronic equipment and cable installations. Fire Technology, 1993, 29, 34-59.	3.0	7
39	Fire growth simulation in passenger rail vehicles using a simplified flame spread model for integration with CFD analysis. Journal of Fire Protection Engineering, 2012, 22, 197-225.	0.8	7
40	Fire safety engineering at a crossroad. Case Studies in Fire Safety, 2014, 1, 8-12.	1.0	7
41	Observations from the Fire and Collapse of the Faculty of Architecture Building, Delft University of Technology. , 2013, , .		6
42	Roadmap for incorporating risk as a basis of performance objectives in building regulation. Safety Science, 2021, 141, 105337.	4.9	6
43	Evaluation of the Legal Framework for Building Fire Safety Regulations in Spain. Buildings, 2021, 11, 51.	3.1	5
44	Comparison of sensitivity matrix method, power function-based response surface method, and artificial neural network in the analysis of building fire egress performance. Journal of Building Engineering, 2021, 43, 102860.	3.4	5
45	Fire Performance of Full-Scale Building Subjected to Earthquake Motions: Fire Test Program and Outcomes. Fire Safety Science, 2014, 11, 746-757.	0.3	5
46	A New Method for the Characterization of the Degree of Fire Damage to Gypsum Wallboard for Use in Fire Investigations. Journal of Forensic Sciences, 2015, 60, S193-S196.	1.6	4
47	Development of objective-criteria-scenario triplets and design fires for performance-based Fire Safety Design. Journal of Building Engineering, 2016, 8, 269-284.	3.4	4
48	Fire performance and regulatory considerations with modern methods of construction. Buildings and Cities, 2022, 3, 464-487.	2.3	4
49	Conceptualizing a probabilistic risk and loss assessment framework for wildfires. Natural Hazards, 2022, 114, 1153-1169.	3.4	4
50	Simplified Approach for Assessing Initial Fire Development and Spread in Passenger Rail Vehicles. Transportation Research Record, 2011, 2261, 57-63.	1.9	3
51	Structure and Evaluation of the Process for Origin Determination in Compartment Fires. Fire Technology, 2017, 53, 301-327.	3.0	3
52	A sensitivity matrix method to understand the building fire egress performance gap. Fire Safety Journal, 2022, 127, 103516.	3.1	3
53	Toward a Risk-Informed Performance-Based Approach for Post-Earthquake Fire Protection Design of Buildings. , 2017, , 73-85.		1
54	Incorporating Risk Concepts Into Performance-Based Building and Fire Regulation Development. , 1999, , .		1

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55	A performance-based fire risk analysis for buildings. Architecture, Structures and Construction, 2021, 1, 143-175.	1.5	0