Ahmed Mebarki

List of Publications by Year
in descending order

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58	1,082	394421	454955
papers	citations	19 h-index	30 g-index

59	59	59	788
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A review of cellular automata models for crowd evacuation. Physica A: Statistical Mechanics and Its Applications, 2019, 526, 120752.	2.6	109
2	An improved variational mode decomposition method based on particle swarm optimization for leak detection of liquid pipelines. Mechanical Systems and Signal Processing, 2020, 143, 106787.	8.0	77
3	The behaviour of masonry walls subjected to fire: Modelling and parametrical studies in the case of hollow burnt-clay bricks. Fire Safety Journal, 2009, 44, 629-641.	3.1	59
4	Structural fragments and explosions in industrial facilities. Part I: Probabilistic description of the source terms. Journal of Loss Prevention in the Process Industries, 2009, 22, 408-416.	3.3	53
5	Structural fragments and explosions in industrial facilities: Part II â€“ Projectile trajectory and probability of impact. Journal of Loss Prevention in the Process Industries, 2009, 22, 417-425.	3.3	50
6	Post-earthquake assessment of buildings damage using fuzzy logic. Engineering Structures, 2018, 166, 117-127.	5.3	47
7	Flood hazards and masonry constructions: a probabilistic framework for damage, risk and resilience at urban scale. Natural Hazards and Earth System Sciences, 2012, 12, 1799-1809.	3.6	43
8	Review on the emergency evacuation in chemicals-concentrated areas. Journal of Loss Prevention in the Process Industries, 2019, 60, 35-45.	3.3	36
9	Experimental investigations of the joint-mortar behaviour. Mechanics Research Communications, 2006, 33, 370-384.	1.8	34
10	Reliability analysis of metallic targets under metallic rods impact: Towards a simplified probabilistic approach. Journal of Loss Prevention in the Process Industries, 2008, 21, 518-527.	3.3	31
11	Optimal construction site layout based on risk spatial variability. Automation in Construction, 2016, 70, 167-177.	9.8	30
12	Indoor guided evacuation: TIN for graph generation and crowd evacuation. Geomatics, Natural Hazards and Risk, 2016, 7, 47-56.	4.3	30
13	Assessment of tanks vulnerability and domino effect analysis in chemical storage plants. Journal of Loss Prevention in the Process Industries, 2019, 60, 174-182.	3.3	30
14	Seismic vulnerability assessment at urban scale: Case of Algerian buildings. International Journal of Disaster Risk Reduction, 2018, 31, 555-575.	3.9	29
15	Natural hazards, vulnerability and structural resilience: tsunamis and industrial tanks. Geomatics, Natural Hazards and Risk, 2016, 7, 5-17.	4.3	27
16	Thermal risk in batch reactors: Theoretical framework for runaway and accident. Journal of Loss Prevention in the Process Industries, 2016, 43, 75-82.	3.3	22
17	A probabilistic model for the vulnerability of metal plates under the impact of cylindrical projectiles. Journal of Loss Prevention in the Process Industries, 2007, 20, 128-134.	3.3	21
18	Thermal Runaway Risk of Semibatch Processes: Esterification Reaction with Autocatalytic Behavior. Industrial & Engineering Chemistry Research, 2017, 56, 1534-1542.	3.7	21

#	Article	IF	Citations
19	Leak detection and location in liquid pipelines by analyzing the first transient pressure wave with unsteady friction. Journal of Loss Prevention in the Process Industries, 2019, 60, 303-310.	3.3	21
20	Leak detection and location of flanged pipes: An integrated approach of principle component analysis and guided wave mode. Safety Science, 2020, 129, 104809.	4.9	20
21	Explosions and Structural Fragments as Industrial Hazard: Domino Effect and Risks. Procedia Engineering, 2012, 45, 159-166.	1.2	19
22	Seismic vulnerability: theory and application to Algerian buildings. Journal of Seismology, 2014, 18, 331-343.	1.3	19
23	Semi-batch reactors: Thermal runaway risk. Journal of Loss Prevention in the Process Industries, 2016, 43, 559-566.	3.3	19
24	Soil height randomness influence on seismic response: Case of an Algiers site. Computers and Geotechnics, 2009, 36, 102-112.	4.7	17
25	Seismic risk and damage prediction: case of the buildings in Constantine city (Algeria). Bulletin of Earthquake Engineering, 2014, 12, 2683-2704.	4.1	16
26	Study of optimal layout based on integrated probabilistic framework (IPF): Case of a crude oil tank farm. Journal of Loss Prevention in the Process Industries, 2017, 48, 305-311.	3.3	16
27	SVM application in hazard assessment: Self-heating for sulfurized rust. Journal of Loss Prevention in the Process Industries, 2016, 39, 112-120.	3.3	14
28	Seismic effects of a small sedimentary basin in the eastern Tibetan plateau based on numerical simulation and ground motion records from aftershocks of the 2008 Mw7.9 Wenchuan, China earthquake. Journal of Asian Earth Sciences, 2020, 192, 104257.	2.3	11
29	Depth to bedrock randomness effect on design spectra in the city of Algiers (Algeria). Engineering Structures, 2010, 32, 590-599.	5.3	10
30	Safety of atmospheric industrial tanks: Fragility, resilience and recovery functions. Journal of Loss Prevention in the Process Industries, 2017, 49, 590-602.	3.3	10
31	Numerical simulation of thermal response behavior of floating-roof tanks exposed to pool fire. Applied Thermal Engineering, 2020, 179, 115692.	6.0	10
32	Development of an integrated approach for Algerian building seismic damage assessment. Structural Engineering and Mechanics, 2013, 47, 471-493.	1.0	10
33	Resilience: Theory and metrics â€“ A metal structure as demonstrator. Engineering Structures, 2017, 138, 425-433.	5.3	9
34	Consequence analysis of derivative accidents due to reaction runaway. Journal of Loss Prevention in the Process Industries, 2018, 55, 471-479.	3.3	9
35	Probabilistic Fire Risk Framework for Optimizing Construction Site Layout. Sustainability, 2020, 12, 4065.	3.2	9
36	A comparative study of different PGA attenuation and error models: Case of 1999 Chi-Chi earthquake. Tectonophysics, 2009, 466, 300-306.	2.2	8

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37	Post-quake structural damage evaluation by neural networks: theory and calibration . European Journal of Environmental and Civil Engineering, 2019, 23, 710-727.	2.1	8
38	Effect of a Tilted Obstacle on the Flame Propagation of Gas Explosion in Case of Low Initial Pressure. Combustion Science and Technology, 2021, 193, 2405-2422.	2.3	8
39	Vulnerability and Resilience under Effects of Tsunamis: Case of Industrial Plants. Procedia Engineering, 2014, 84, 116-121.	1.2	7
40	Thermal risk in batch reactors: Case of peracetic acid synthesis. Journal of Loss Prevention in the Process Industries, 2016, 39, 85-92.	3.3	7
41	Neural network-based prediction of ground time history responses. European Journal of Environmental and Civil Engineering, 2020, 24, 123-140.	2.1	7
42	Structural reliability analysis by a new level-2 method: The hypercone method. Structural Safety, 1990, 9, 31-40.	5.3	5
43	A simplified mechanical model to assess the bearing capacity of masonry walls: Theory and experimental validation. Construction and Building Materials, 2009, 23, 1109-1117.	7.2	5
44	Seismic Assessment of Framed Buildings: A Pseudo-Adaptive Uncoupled Modal Response Analysis. Journal of Earthquake Engineering, 2011, 15, 1015-1035.	2.5	5
45	Rapid Earthquake Loss Estimation Model for Algerian Urban Heritage: Case of Blida City. International Journal of Architectural Heritage, 2023, 17, 635-660.	3.1	5
46	Stochastic seismic response of multi-layered soil with random layer heights. Earthquake Engineering and Engineering Vibration, 2010, 9, 213-221.	2.3	4
47	Domino Effects and Industrial Risks: Integrated Probabilistic Framework â€“ Case of Tsunamis Effects. Advances in Natural and Technological Hazards Research, 2014, , 271-307.	1.1	4
48	Propuesta de valores de referencia para la resistencia de diseÃ±o a compresiÃ³n diagonal y compresiÃ³n de la mamposterÃa en el estado de Guerrero, MÃ©xico. Revista ALCONPAT, 2017, 7, 231-246.	0.3	3
49	SEISMIC VULNERABILITY APPRAISAL ACCORDING TO THE ALGERIAN BUILDING CONTEXT. WIT Transactions on the Built Environment, 2017, , .	0.0	3
50	ModÃ¨le d'attÃ©nuation sismique: prÃ©diction probabiliste des pics d'accÃ©lÃ©ration. Revue EuropÃ©enne De GÃ©nie Civil, 2004, 8, 1071-1086.	0.0	2
51	Preface to the special issue: civil engineering and urban planning. Geomatics, Natural Hazards and Risk, 2016, 7, 1-4.	4.3	2
52	Seismic structural demands and inelastic deformation ratios: a theoretical approach. Earthquake and Structures, 2017, 12, 397-407.	1.0	2
53	The hypercone method for structural reliability analysis: Its theoretical principles. Reliability Engineering and System Safety, 1991, 31, 239-253.	8.9	1
54	Importance zone and importance sampling in reliability analysis of civil structures. International Journal of Pressure Vessels and Piping, 1995, 61, 513-526.	2.6	1

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55	Seismic Assessment of Buildings: Proposal of a New Modified Uncoupled Modal Response History Analysis. , 2010, , .		1
56	Inelastic deformation ratio for seismic demands assessment of structures. Procedia Engineering, 2017, 199, 558-563.	1.2	1
57	On the quality of buildings and construction projects: metrics and process dynamics. Journal of Information Technology in Construction, 2021, 26, 174-192.	2.1	0
58	Industrial Risks and Domino Effects: Resilience, Risks and Optimal Layouts. NATO Science for Peace and Security Series D, Information and Communication Security, 2022, , .	0.2	0