

Ahmed Mebarki

List of Publications by Year in descending order

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58
papers

1,082
citations

394421

19
h-index

454955

30
g-index

59
all docs

59
docs citations

59
times ranked

788
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	Neural network-based prediction of ground time history responses. European Journal of Environmental and Civil Engineering, 2020, 24, 123-140.	2.1	7
6	Numerical simulation of thermal response behavior of floating-roof tanks exposed to pool fire. Applied Thermal Engineering, 2020, 179, 115692.	6.0	10
7	Probabilistic Fire Risk Framework for Optimizing Construction Site Layout. Sustainability, 2020, 12, 4065.	3.2	9
8	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
9	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
10	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
11	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
12	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
13	Review on the emergency evacuation in chemicals-concentrated areas. Journal of Loss Prevention in the Process Industries, 2019, 60, 35-45.	3.3	36
14	A review of cellular automata models for crowd evacuation. Physica A: Statistical Mechanics and Its Applications, 2019, 526, 120752.	2.6	109
15	Post-quake structural damage evaluation by neural networks: <i> theory and calibration </i>. European Journal of Environmental and Civil Engineering, 2019, 23, 710-727.	2.1	8
16	Post-earthquake assessment of buildings damage using fuzzy logic. Engineering Structures, 2018, 166, 117-127.	5.3	47
17	Seismic vulnerability assessment at urban scale: Case of Algerian buildings. International Journal of Disaster Risk Reduction, 2018, 31, 555-575.	3.9	29
18	Consequence analysis of derivative accidents due to reaction runaway. Journal of Loss Prevention in the Process Industries, 2018, 55, 471-479.	3.3	9

#	ARTICLE	IF	CITATIONS
19	Resilience: Theory and metrics – A metal structure as demonstrator. <i>Engineering Structures</i> , 2017, 138, 425-433.	5.3	9
20	Thermal Runaway Risk of Semibatch Processes: Esterification Reaction with Autocatalytic Behavior. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 1534-1542.	3.7	21
21	Study of optimal layout based on integrated probabilistic framework (IPF): Case of a crude oil tank farm. <i>Journal of Loss Prevention in the Process Industries</i> , 2017, 48, 305-311.	3.3	16
22	Safety of atmospheric industrial tanks: Fragility, resilience and recovery functions. <i>Journal of Loss Prevention in the Process Industries</i> , 2017, 49, 590-602.	3.3	10
23	Inelastic deformation ratio for seismic demands assessment of structures. <i>Procedia Engineering</i> , 2017, 199, 558-563.	1.2	1
24	Propuesta de valores de referencia para la resistencia de dise±o a compresi³n diagonal y compresi³n de la mampostería en el estado de Guerrero, MÃ©xico. <i>Revista ALCONPAT</i> , 2017, 7, 231-246.	0.3	3
25	SEISMIC VULNERABILITY APPRAISAL ACCORDING TO THE ALGERIAN BUILDING CONTEXT. <i>WIT Transactions on the Built Environment</i> , 2017, , .	0.0	3
26	Seismic structural demands and inelastic deformation ratios: a theoretical approach. <i>Earthquake and Structures</i> , 2017, 12, 397-407.	1.0	2
27	Preface to the special issue: civil engineering and urban planning. <i>Geomatics, Natural Hazards and Risk</i> , 2016, 7, 1-4.	4.3	2
28	Natural hazards, vulnerability and structural resilience: tsunamis and industrial tanks. <i>Geomatics, Natural Hazards and Risk</i> , 2016, 7, 5-17.	4.3	27
29	Optimal construction site layout based on risk spatial variability. <i>Automation in Construction</i> , 2016, 70, 167-177.	9.8	30
30	Semi-batch reactors: Thermal runaway risk. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 43, 559-566.	3.3	19
31	Indoor guided evacuation: TIN for graph generation and crowd evacuation. <i>Geomatics, Natural Hazards and Risk</i> , 2016, 7, 47-56.	4.3	30
32	Thermal risk in batch reactors: Theoretical framework for runaway and accident. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 43, 75-82.	3.3	22
33	SVM application in hazard assessment: Self-heating for sulfurized rust. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 39, 112-120.	3.3	14
34	Thermal risk in batch reactors: Case of peracetic acid synthesis. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 39, 85-92.	3.3	7
35	Vulnerability and Resilience under Effects of Tsunamis: Case of Industrial Plants. <i>Procedia Engineering</i> , 2014, 84, 116-121.	1.2	7
36	Seismic vulnerability: theory and application to Algerian buildings. <i>Journal of Seismology</i> , 2014, 18, 331-343.	1.3	19

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37	Seismic risk and damage prediction: case of the buildings in Constantine city (Algeria). Bulletin of Earthquake Engineering, 2014, 12, 2683-2704.	4.1	16
38	Domino Effects and Industrial Risks: Integrated Probabilistic Framework " Case of Tsunamis Effects. Advances in Natural and Technological Hazards Research, 2014, , 271-307.	1.1	4
39	Development of an integrated approach for Algerian building seismic damage assessment. Structural Engineering and Mechanics, 2013, 47, 471-493.	1.0	10
40	Explosions and Structural Fragments as Industrial Hazard: Domino Effect and Risks. Procedia Engineering, 2012, 45, 159-166.	1.2	19
41	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
42	Seismic Assessment of Framed Buildings: A Pseudo-Adaptive Uncoupled Modal Response Analysis. Journal of Earthquake Engineering, 2011, 15, 1015-1035.	2.5	5
43	Stochastic seismic response of multi-layered soil with random layer heights. Earthquake Engineering and Engineering Vibration, 2010, 9, 213-221.	2.3	4
44	Depth to bedrock randomness effect on design spectra in the city of Algiers (Algeria). Engineering Structures, 2010, 32, 590-599.	5.3	10
45	Seismic Assessment of Buildings: Proposal of a New Modified Uncoupled Modal Response History Analysis. , 2010, , .		1
46	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
47	Structural fragments and explosions in industrial facilities: Part II " Projectile trajectory and probability of impact. Journal of Loss Prevention in the Process Industries, 2009, 22, 417-425.	3.3	50
48	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
49	Soil height randomness influence on seismic response: Case of an Algiers site. Computers and Geotechnics, 2009, 36, 102-112.	4.7	17
50	A comparative study of different PGA attenuation and error models: Case of 1999 Chi-Chi earthquake. Tectonophysics, 2009, 466, 300-306.	2.2	8
51	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
52	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
53	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
54	Experimental investigations of the joint-mortar behaviour. Mechanics Research Communications, 2006, 33, 370-384.	1.8	34

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55	Modèle d'atténuation sismique: prédiction probabiliste des pics d'accélération. Revue Européenne De Génie Civil, 2004, 8, 1071-1086.	0.0	2
56	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
57	The hypercone method for structural reliability analysis: Its theoretical principles. Reliability Engineering and System Safety, 1991, 31, 239-253.	8.9	1
58	Structural reliability analysis by a new level-2 method: The hypercone method. Structural Safety, 1990, 9, 31-40.	5.3	5