Enrico Quagliarini

List of Publications by Year in descending order

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103 2,829 29 49
papers citations h-index g-index

106 106 2126
all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Leaving or Sheltering? a Simulation-Based Comparison of Flood Evacuation Strategies in Urban Built Environments. Smart Innovation, Systems and Technologies, 2022, , 113-123.	0.5	2
2	Simplified flood evacuation simulation in outdoor built environments. Preliminary comparison between setup-based generic software and custom simulator. Sustainable Cities and Society, 2022, 81, 103848.	5.1	4
3	Factors Influencing the Intrinsic Seismic Risk of Open Spaces in Existing Built Environments: A Systematic Review. Sustainability, 2022, 14, 42.	1.6	6
4	Urban morphology parameters towards multi-risk scenarios for squares in the historical centers: Analyses and definition of square typologies and application to the Italian context. Journal of Cultural Heritage, 2022, 56, 167-182.	1.5	5
5	Modelling microalgae biofouling on porous buildings materials: a novel approach. Materials and Structures/Materiaux Et Constructions, 2022, 55, .	1.3	2
6	TRM reinforced tuff and fired clay brick masonry: Experimental and analytical investigation on their in-plane and out-of-plane behavior. Construction and Building Materials, 2021, 272, 121643.	3.2	39
7	Risk Reduction Strategies against Terrorist Acts in Urban Built Environments: Towards Sustainable and Human-Centred Challenges. Sustainability, 2021, 13, 901.	1.6	12
8	A New Approach to Assess the Built Environment Risk under the Conjunct Effect of Critical Slow Onset Disasters: A Case Study in Milan, Italy. Applied Sciences (Switzerland), 2021, 11, 1186.	1.3	10
9	Cognitive Buildings for Increasing Elderly Fire Safety in Public Buildings: Design and First Evaluation of a Low-Impact Dynamic Wayfinding System. Lecture Notes in Electrical Engineering, 2021, , 101-119.	0.3	1
10	Built Environments Prone to Sudden and Slow Onset Disasters: From Taxonomy Towards Approaches for Pervasive Training of Users. Lecture Notes in Computer Science, 2021, , 125-139.	1.0	2
11	A probabilistic model to evaluate the effectiveness of main solutions to COVID-19 spreading in university buildings according to proximity and time-based consolidated criteria. Building Simulation, 2021, 14, 1795-1809.	3.0	31
12	How to create seismic risk scenarios in historic built environment using rapid data collection and managing. Journal of Cultural Heritage, 2021, 48, 93-105.	1.5	12
13	Flexible Workflow for Determining Critical Hazard and Exposure Scenarios for Assessing SLODs Risk in Urban Built Environments. Sustainability, 2021, 13, 4538.	1.6	4
14	Human stability during floods: Experimental tests on a physical model simulating human body. Safety Science, 2021, 137, 105153.	2.6	9
15	How urban layout and pedestrian evacuation behaviours can influence flood risk assessment in riverine historic built environments. Sustainable Cities and Society, 2021, 70, 102876.	5.1	24
16	Built Environment Typologies Prone to Risk: A Cluster Analysis of Open Spaces in Italian Cities. Sustainability, 2021, 13, 9457.	1.6	15
17	Assessing the flood risk to evacuees in outdoor built environments and relative risk reduction strategies. International Journal of Disaster Risk Reduction, 2021, 64, 102493.	1.8	9
18	Sustainable and resilient strategies for touristic cities against COVID-19: An agent-based approach. Safety Science, 2021, 142, 105399.	2.6	13

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19	Terrorist acts and pedestrians' behaviours: First insights on European contexts for evacuation modelling. Safety Science, 2021, 143, 105405.	2.6	20
20	Seismic risk of Open Spaces in Historic Built Environments: A matrix-based approach for emergency management and disaster response. International Journal of Disaster Risk Reduction, 2021, 65, 102552.	1.8	10
21	An empirical failure model to predict biofouling growth on fired bricks due to microalgae. Journal of Building Engineering, 2021, 44, 102965.	1.6	0
22	Resilient and User-Centered Solutions for a Safer Built Environment Against Sudden and Slow Onset Disasters: The BE S2ECURe Project. Smart Innovation, Systems and Technologies, 2021, , 309-319.	0.5	6
23	Morphological Systems of Open Spaces in Built Environment Prone to Sudden-Onset Disasters. Smart Innovation, Systems and Technologies, 2021, , 321-331.	0.5	6
24	SLow Onset Disaster Events Factors in Italian Built Environment Archetypes. Smart Innovation, Systems and Technologies, 2021, , 333-343.	0.5	7
25	Occupants' Behavioral Analysis for the Optimization of Building Operation and Maintenance: A Case Study to Improve the Use of Elevators in a University Building. Smart Innovation, Systems and Technologies, 2021, , 207-217.	0.5	1
26	Understanding Human Behaviors in Earthquakes to Improve Safety in Built Environment: A State of the Art on Sustainable and Validated Investigation Tools. Smart Innovation, Systems and Technologies, 2021, , 297-307.	0.5	0
27	Sustainable planning of seismic emergency in historic centres through semeiotic tools: Comparison of different existing methods through real case studies. Sustainable Cities and Society, 2020, 52, 101834.	5.1	9
28	Towards the simulation of flood evacuation in urban scenarios: Experiments to estimate human motion speed in floodwaters. Safety Science, 2020, 123, 104563.	2.6	38
29	Sustainable fruition as a preventive conservation strategy for hypogeum artefacts. Journal of Cultural Heritage, 2020, 46, 235-243.	1.5	6
30	Thermoplastic Disks Used for Commercial Orthodontic Aligners: Complete Physicochemical and Mechanical Characterization. Materials, 2020, 13, 2386.	1.3	29
31	How to Account for the Human Motion to Improve Flood Risk Assessment in Urban Areas. Water (Switzerland), 2020, 12, 1316.	1.2	6
32	Combining Conservation and Visitors' Fruition for Sustainable Building Heritage Use: Application to a Hypogeum. Smart Innovation, Systems and Technologies, 2020, , 269-279.	0.5	2
33	Flooding Pedestrians' Evacuation in Historical Urban Scenario: A Tool for Risk Assessment Including Human Behaviors. RILEM Bookseries, 2019, , 1152-1161.	0.2	6
34	Investigating Exposure in Historical Scenarios: How People Behave in Fires, Earthquakes and Floods. RILEM Bookseries, 2019, , 1138-1151.	0.2	4
35	Proposing behavior-oriented strategies for earthquake emergency evacuation: A behavioral data analysis from New Zealand, Italy and Japan. Safety Science, 2019, 116, 295-309.	2.6	47
36	Rapid tools for assessing building heritage's seismic vulnerability: a preliminary reliability analysis. Journal of Cultural Heritage, 2019, 39, 130-139.	1.5	13

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37	Can Textile Reinforced Mortar (TRM) Systems Be Really Effective to Increase Compressive Strength of Masonry Panels?. Key Engineering Materials, 2019, 817, 435-441.	0.4	2
38	Diagnosis and Structural Assessment of the Assumption of the Virgin Mary Chapel in Prague (CZ). Key Engineering Materials, 2019, 817, 571-578.	0.4	0
39	Effect of temperature and relative humidity on algae biofouling on different fired brick surfaces. Construction and Building Materials, 2019, 199, 396-405.	3.2	25
40	The Lossetti Tower in Beura-Cardezza (Italy): Structural Assessment and Rehabilitation of a Historical Dry Stone Masonry Building. RILEM Bookseries, 2019, , 2323-2331.	0.2	2
41	Sustainable Engineering for Resilient Built and Natural Environments. , 2019, , 297-310.		0
42	Rethinking Buildings Design, Construction and Management Through Sustainable Technologies and Digitization., 2019,, 341-356.		0
43	New Indices for the Existing City-Centers Streets Network Reliability and Availability Assessment in Earthquake Emergency. International Journal of Architectural Heritage, 2018, 12, 153-168.	1.7	14
44	Is nano-TiO 2 alone an effective strategy for the maintenance of stones in Cultural Heritage?. Journal of Cultural Heritage, 2018, 30, 81-91.	1.5	34
45	Experimental and FEM Investigation of Cob Walls under Compression. Advances in Civil Engineering, 2018, 2018, 1-13.	0.4	11
46	Evacuation paths in historic city centres: A holistic methodology for assessing their seismic risk. International Journal of Disaster Risk Reduction, 2018, 31, 698-710.	1.8	23
47	On the Modelling of Algal Biofouling Growth on Nano-TiO2 Coated and Uncoated Limestones and Sandstones. Coatings, 2018, 8, 54.	1.2	12
48	Earthquake building debris estimation in historic city centres: From real world data to experimental-based criteria. International Journal of Disaster Risk Reduction, 2018, 31, 281-291.	1.8	33
49	Flexible repointing of historical facing-masonry column-type specimens with basalt fibers: A first insight. Journal of Cultural Heritage, 2017, 24, 165-170.	1.5	9
50	Preliminary study of the influence of different modelling choices and materials properties uncertainties on the seismic assessment of an existing RC school building. AIP Conference Proceedings, 2017, , .	0.3	7
51	Flooding risk in existing urban environment: from human behavioral patterns to a microscopic simulation model. Energy Procedia, 2017, 134, 131-140.	1.8	31
52	Strengthening three-leaf masonry with basalt fibre: Experimental and numerical data. AIP Conference Proceedings, 2017, , .	0.3	3
53	Dynamic guidance tool for a safer earthquake pedestrian evacuation in urban systems. Computers, Environment and Urban Systems, 2017, 65, 150-161.	3.3	32
54	A preliminary combined simulation tool for the risk assessment of pedestrians' flood-induced evacuation. Environmental Modelling and Software, 2017, 96, 14-29.	1.9	51

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55	Fast, low cost and safe methodology for the assessment of the state of conservation of historical buildings from 3D laser scanning: The case study of Santa Maria in Portonovo (Italy). Journal of Cultural Heritage, 2017, 24, 175-183.	1.5	48
56	A Novel and Sustainable Application of Basalt Fibers for Strengthening Unreinforced Masonry Walls. Journal of Natural Fibers, 2017, 14, 97-111.	1.7	9
57	Design of a smart system for indoor climate control in historic underground built environment. Energy Procedia, 2017, 134, 518-527.	1.8	7
58	How to simulate pedestrian behaviors in seismic evacuation for vulnerability reduction of existing buildings. AIP Conference Proceedings, 2017, , .	0.3	1
59	A More Sustainable Way for Producing RC Sandwich Panels On-Site and in Developing Countries. Sustainability, 2017, 9, 472.	1.6	8
60	How to Help Elderly in Indoor Evacuation Wayfinding: Design and Test of a Not-Invasive Solution for Reducing Fire Egress Time in Building Heritage Scenarios. Lecture Notes in Electrical Engineering, 2017, , 209-222.	0.3	5
61	Cultural Heritage and Earthquake: The Case Study of "Santa Maria Della CaritÃ―in Ascoli Piceno. Open Civil Engineering Journal, 2017, 11, 1079-1105.	0.4	44
62	SEISMIC ASSESSMENT OF CULTURAL HERITAGE: NONLINEAR 3D ANALYSES OF "SANTA MARIA DELLA CARITÂIN ASCOLI PICENO. , 2017, , .	Á€â€•	7
63	Photocatalytic TiO2 Nano-Coating for Biofouling Prevention of Clay Façades. Building Pathology and Rehabilitation, 2016, , 159-175.	0.1	1
64	Seismic vulnerability of ancient stone arches by using a numerical model based on the Non-Smooth Contact Dynamics method. Engineering Structures, 2016, 119, 110-121.	2.6	23
65	Intelligent evacuation guidance systems for improving fire safety of Italian-style historical theatres without altering their architectural characteristics. Journal of Cultural Heritage, 2016, 22, 1006-1018.	1.5	42
66	Experimental assessment of concrete compressive strength in old existing RC buildings: A possible way to reduce the dispersion of DT results. Journal of Building Engineering, 2016, 8, 162-171.	1.6	14
67	The role of roughness and porosity on the self-cleaning and anti-biofouling efficiency of TiO 2 -Cu and TiO 2 -Ag nanocoatings applied on fired bricks. Construction and Building Materials, 2016, 129, 116-124.	3.2	62
68	Fire safety in Italian-style historical theatres: How photoluminescent wayfinding can improve occupants' evacuation with no architecture modifications. Journal of Cultural Heritage, 2016, 19, 492-501.	1.5	31
69	Towards a "behavioural design―approach for seismic risk reduction strategies of buildings and their environment. Safety Science, 2016, 86, 273-294.	2.6	78
70	Urban scenarios modifications due to the earthquake: ruins formation criteria and interactions with pedestrians' evacuation. Bulletin of Earthquake Engineering, 2016, 14, 1071-1101.	2.3	20
71	TiO2-treated different fired brick surfaces for biofouling prevention: Experimental and modelling results. Ceramics International, 2016, 42, 4002-4010.	2.3	22
72	Basalt fiber ropes and rods: Durability tests for their use in building engineering. Journal of Building Engineering, 2016, 5, 142-150.	1.6	51

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73	Towards creating a combined database for earthquake pedestrians' evacuation models. Safety Science, 2016, 82, 77-94.	2.6	80
74	TiO2-based nanocoatings for preserving architectural stone surfaces: An overview. Construction and Building Materials, 2015, 84, 201-218.	3.2	162
75	An Agent-based Model for Earthquake Pedestrians' Evacuation Simulation in Urban Scenarios. Transportation Research Procedia, 2014, 2, 255-263.	0.8	32
76	The influence of clay brick substratum on the inhibitory efficiency of T i O 2 nanocoating against biofouling. Building and Environment, 2014, 82, 128-134.	3.0	36
77	TiO ₂ nanocoatings for architectural heritage: Self-cleaning treatments on historical stone surfaces. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2014, 228, 2-10.	0.1	4
78	Nondestructive Evaluation of Plasters on Historical Thin Vaults by Scanning Laser Doppler Vibrometers. Research in Nondestructive Evaluation, 2014, 25, 218-234.	0.5	7
79	EPES – Earthquake pedestrians׳ evacuation simulator: A tool for predicting earthquake pedestrians׳ evacuation in urban outdoor scenarios. International Journal of Disaster Risk Reduction, 2014, 10, 153-177.	1.8	56
80	Experimental Analysis of Romanesque Masonries Made by Tile and Brick Fragments Found at the Archaeological Site of S. Maria in Portuno. International Journal of Architectural Heritage, 2014, 8, 161-184.	1.7	9
81	Durability of self-cleaning TiO2 coatings on fired clay brick façades: Effects of UV exposure and wet & amp; dry cycles. Building and Environment, 2014, 71, 193-203.	3.0	120
82	Agent-based model for earthquake pedestrians' evacuation in urban outdoor scenarios: Behavioural patterns definition and evacuation paths choice. Safety Science, 2014, 62, 450-465.	2.6	116
83	Historical plasters on light thin vaults: State of conservation assessment by a Hybrid ultrasonic method. Journal of Cultural Heritage, 2014, 15, 104-111.	1.5	12
84	Durability of nano-engineered TiO2 self-cleaning treatments on limestone. Construction and Building Materials, 2014, 65, 218-231.	3.2	78
85	Multi-Agent Simulation Model for Evacuation of Care Homes and Hospitals for Elderly and People with Disabilities in Motion. , 2014, , 197-204.		5
86	Evaluation of inhibitory effect of TiO2 nanocoatings against microalgal growth on clay brick façades under weak UV exposure conditions. Building and Environment, 2013, 64, 38-45.	3.0	95
87	The combined use of IRT and LDV for the investigation of historical thin vaults. Journal of Cultural Heritage, 2013, 14, 122-128.	1.5	8
88	Dynamics and failure mechanisms of ancient masonry churches subjected to seismic actions by using the NSCD method: The case of the medieval church of S. Maria in Portuno. Engineering Structures, 2013, 56, 1527-1546.	2.6	31
89	Self-cleaning materials on Architectural Heritage: Compatibility of photo-induced hydrophilicity of TiO2 coatings on stone surfaces. Journal of Cultural Heritage, 2013, 14, 1-7.	1.5	111
90	Self-cleaning and de-polluting stone surfaces: TiO 2 nanoparticles for limestone. Construction and Building Materials, 2012, 37, 51-57.	3.2	158

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91	On the damage of frescoes and stuccoes on the lower surface of historical flat suspended light vaults. Journal of Cultural Heritage, 2012, 13, 293-303.	1.5	11
92	Tensile characterization of basalt fiber rods and ropes: A first contribution. Construction and Building Materials, 2012, 34, 372-380.	3.2	70
93	Smart surfaces for architectural heritage: Preliminary results about the application of TiO2-based coatings on travertine. Journal of Cultural Heritage, 2012, 13, 204-209.	1.5	87
94	Experimental analysis and modelling of the mechanical behaviour of earthen bricks. Construction and Building Materials, 2011, 25, 2067-2075.	3.2	100
95	The influence of natural stabilizers and natural fibres on the mechanical properties of ancient Roman adobe bricks. Journal of Cultural Heritage, 2010, 11, 309-314.	1.5	133
96	Mechanical properties of adobe walls in a Roman Republican domus at Suasa. Journal of Cultural Heritage, 2010, 11, 130-137.	1.5	48
97	Study on some sorption properties of treated bentonites for their potential use as a moisture regulating system for the preservation of historical wooden elements. Journal of Cultural Heritage, 2010, 11, 185-195.	1.5	5
98	Cob Construction in Italy: Some Lessons from the Past. Sustainability, 2010, 2, 3291-3308.	1.6	29
99	Light Vaults With Frescoes or Stuccoes Strengthened by Glass Fiber-Reinforced Polymer (GFRP) — the Role of the Reinforcement on Intrados Strains: First Experimental Data. International Journal of Architectural Heritage, 2010, 4, 320-336.	1.7	4
100	Rehabilitation andÂconsolidation ofÂhigh-value "camorcanna―vaults with FRP. Journal of Cultural Heritage, 2006, 7, 13-22.	1.5	12
101	In-life prediction of hygrometric behaviour of buildings materials: an application of fractal geometry to the determination of adsorption and suction properties. Building and Environment, 2002, 37, 733-739.	3.0	11
102	Dry Masonry Strenghtening through Basalt Fibre Ropes: Experimental Results against Out-of-Plane Actions. Key Engineering Materials, 0, 624, 584-594.	0.4	20
103	Pre-Tensioned Basalt Fibers Ropes Stitching for Masonry Strengthening against Vertical Bending: A First Experimental Insight. Key Engineering Materials, 0, 747, 119-127.	0.4	1