

# Marco D'orazio

## List of Publications by Year in descending order

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Version: 2024-02-01

92  
papers

2,583  
citations

172207

29  
h-index

205818

48  
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94  
all docs

94  
docs citations

94  
times ranked

2315  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical Assessment of the Impact of Roof Albedo and Thermal Resistance on Urban Overheating: A Case Study in Southern Italy. <i>Smart Innovation, Systems and Technologies</i> , 2022, , 125-134.	0.5	2
2	Impact of Occupants' Behavior Uncertainty on Building Energy Consumption Through the Karhunen-Loève Expansion Technique: A Case Study in Italy. <i>Smart Innovation, Systems and Technologies</i> , 2022, , 197-207.	0.5	2
3	Leaving or Sheltering? a Simulation-Based Comparison of Flood Evacuation Strategies in Urban Built Environments. <i>Smart Innovation, Systems and Technologies</i> , 2022, , 113-123.	0.5	2
4	Improving the livability of lightweight emergency architectures: A numerical investigation on a novel reinforced-EPS based construction system. <i>Building and Environment</i> , 2022, 208, 108601.	3.0	12
5	Simplified flood evacuation simulation in outdoor built environments. Preliminary comparison between setup-based generic software and custom simulator. <i>Sustainable Cities and Society</i> , 2022, 81, 103848.	5.1	4
6	Effect of pore modulating additives-sepiolite and colloidal nano silica-on physical, mechanical and durability properties of lime-based renders. <i>Materials and Structures/Materiaux Et Constructions</i> , 2022, 55, .	1.3	2
7	Modelling microalgae biofouling on porous buildings materials: a novel approach. <i>Materials and Structures/Materiaux Et Constructions</i> , 2022, 55, .	1.3	2
8	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. <i>Building Simulation</i> , 2021, 14, 1795-1809.	3.0	31
9	From cost-optimal to nearly Zero Energy Buildings' renovation: Life Cycle Cost comparisons under alternative macroeconomic scenarios. <i>Journal of Cleaner Production</i> , 2021, 288, 125606.	4.6	10
10	Human stability during floods: Experimental tests on a physical model simulating human body. <i>Safety Science</i> , 2021, 137, 105153.	2.6	9
11	A Software Tool for a Stochastic Life Cycle Assessment and Costing of Buildings' Energy Efficiency Measures. <i>Sustainability</i> , 2021, 13, 7975.	1.6	10
12	Sustainable and resilient strategies for touristic cities against COVID-19: An agent-based approach. <i>Safety Science</i> , 2021, 142, 105399.	2.6	13
13	An empirical failure model to predict biofouling growth on fired bricks due to microalgae. <i>Journal of Building Engineering</i> , 2021, 44, 102965.	1.6	0
14	Occupants' Behavioral Analysis for the Optimization of Building Operation and Maintenance: A Case Study to Improve the Use of Elevators in a University Building. <i>Smart Innovation, Systems and Technologies</i> , 2021, , 207-217.	0.5	1
15	Towards the simulation of flood evacuation in urban scenarios: Experiments to estimate human motion speed in floodwaters. <i>Safety Science</i> , 2020, 123, 104563.	2.6	38
16	Sustainable fruition as a preventive conservation strategy for hypogeum artefacts. <i>Journal of Cultural Heritage</i> , 2020, 46, 235-243.	1.5	6
17	A Stochastic Approach to LCA of Internal Insulation Solutions for Historic Buildings. <i>Sustainability</i> , 2020, 12, 1535.	1.6	18
18	Experimental investigation on the durability of a novel lightweight prefabricated reinforced-EPS based construction system. <i>Construction and Building Materials</i> , 2020, 252, 119134.	3.2	21

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19	Internal Insulation of Historic Buildings: A Stochastic Approach to Life Cycle Costing Within RIBuild EU Project. Smart Innovation, Systems and Technologies, 2020, , 349-359.	0.5	1
20	Combining Conservation and Visitorsâ€™ Fruition for Sustainable Building Heritage Use: Application to a Hypogeum. Smart Innovation, Systems and Technologies, 2020, , 269-279.	0.5	2
21	Optical properties of traditional clay tiles for ventilated roofs and implication on roof thermal performance. Journal of Building Physics, 2019, 42, 484-505.	1.2	8
22	Flooding Pedestriansâ€™ Evacuation in Historical Urban Scenario: A Tool for Risk Assessment Including Human Behaviors. RILEM Bookseries, 2019, , 1152-1161.	0.2	6
23	Investigating Exposure in Historical Scenarios: How People Behave in Fires, Earthquakes and Floods. RILEM Bookseries, 2019, , 1138-1151.	0.2	4
24	An experimental investigation on the indoor hygrothermal environment of a reinforced-EPS based temporary housing solution. Energy and Buildings, 2019, 204, 109500.	3.1	20
25	The role of economic and policy variables in energy-efficient retrofitting assessment. A stochastic Life Cycle Costing methodology. Energy Policy, 2019, 129, 1207-1219.	4.2	27
26	Thermal comfort improvement in urban spaces with water spray systems: Field measurements and survey. Building and Environment, 2019, 156, 46-61.	3.0	58
27	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
28	Sustainable Engineering for Resilient Built and Natural Environments. , 2019, , 297-310.		0
29	Rethinking Buildings Design, Construction and Management Through Sustainable Technologies and Digitization. , 2019, , 341-356.		0
30	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
31	Is nano-TiO <sub>2</sub> alone an effective strategy for the maintenance of stones in Cultural Heritage?. Journal of Cultural Heritage, 2018, 30, 81-91.	1.5	34
32	Experimental study on occupants' interaction with windows and lights in Mediterranean offices during the non-heating season. Building and Environment, 2018, 127, 221-238.	3.0	45
33	Measuring Occupantsâ€™ Behaviour for Buildingsâ€™ Dynamic Cosimulation. Journal of Sensors, 2018, 2018, 1-17.	0.6	16
34	Building Retrofit Measures and Design: A Probabilistic Approach for LCA. Sustainability, 2018, 10, 3655.	1.6	30
35	Probabilistic Life Cycle Cost Analysis of Building Energy Efficiency Measures: Selection and Characterization of the Stochastic Inputs through a Case Study. Procedia Engineering, 2017, 180, 491-501.	1.2	12
36	Impacts of Uncertainties in Life Cycle Cost Analysis of Buildings Energy Efficiency Measures: Application to a Case Study. Energy Procedia, 2017, 111, 442-451.	1.8	14

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37	Probabilistic life cycle costing of existing buildings retrofit interventions towards nZE target: Methodology and application example. <i>Energy and Buildings</i> , 2017, 144, 416-432.	3.1	40
38	A literature review on driving factors and contextual events influencing occupants' behaviours in buildings. <i>Building and Environment</i> , 2017, 118, 40-66.	3.0	154
39	Flooding risk in existing urban environment: from human behavioral patterns to a microscopic simulation model. <i>Energy Procedia</i> , 2017, 134, 131-140.	1.8	31
40	Towards a probabilistic approach in LCA of building retrofit measures. <i>Energy Procedia</i> , 2017, 134, 394-403.	1.8	13
41	Dynamic guidance tool for a safer earthquake pedestrian evacuation in urban systems. <i>Computers, Environment and Urban Systems</i> , 2017, 65, 150-161.	3.3	32
42	Cruise ships like buildings: Wayfinding solutions to improve emergency evacuation. <i>Building Simulation</i> , 2017, 10, 989-1003.	3.0	25
43	A preliminary combined simulation tool for the risk assessment of pedestrians' flood-induced evacuation. <i>Environmental Modelling and Software</i> , 2017, 96, 14-29.	1.9	51
44	Modelling window status in school classrooms. Results from a case study in Italy. <i>Building and Environment</i> , 2017, 111, 24-32.	3.0	55
45	Comparing real and predicted window use in offices. A POE-based assessment. <i>Energy Procedia</i> , 2017, 134, 141-150.	1.8	5
46	Design and performance assessment of building counter-walls integrating Moisture Buffering 'active' devices. <i>Energy Procedia</i> , 2017, 132, 105-110.	1.8	1
47	How to simulate pedestrian behaviors in seismic evacuation for vulnerability reduction of existing buildings. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	1
48	A More Sustainable Way for Producing RC Sandwich Panels On-Site and in Developing Countries. <i>Sustainability</i> , 2017, 9, 472.	1.6	8
49	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. <i>Lecture Notes in Electrical Engineering</i> , 2017, , 209-222.	0.3	5
50	Fire exit signs: The use of neurological activity analysis for quantitative evaluations on their perceptiveness in a virtual environment. <i>Fire Safety Journal</i> , 2016, 82, 63-75.	1.4	22
51	Photocatalytic TiO <sub>2</sub> Nano-Coating for Biofouling Prevention of Clay Façades. <i>Building Pathology and Rehabilitation</i> , 2016, , 159-175.	0.1	1
52	Intelligent evacuation guidance systems for improving fire safety of Italian-style historical theatres without altering their architectural characteristics. <i>Journal of Cultural Heritage</i> , 2016, 22, 1006-1018.	1.5	42
53	The role of roughness and porosity on the self-cleaning and anti-biofouling efficiency of TiO <sub>2</sub> -Cu and TiO <sub>2</sub> -Ag nanocoatings applied on fired bricks. <i>Construction and Building Materials</i> , 2016, 129, 116-124.	3.2	62
54	Fire safety in Italian-style historical theatres: How photoluminescent wayfinding can improve occupants' evacuation with no architecture modifications. <i>Journal of Cultural Heritage</i> , 2016, 19, 492-501.	1.5	31

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55	Towards a "behavioural design" approach for seismic risk reduction strategies of buildings and their environment. <i>Safety Science</i> , 2016, 86, 273-294.	2.6	78
56	Urban scenarios modifications due to the earthquake: ruins formation criteria and interactions with pedestrians'™ evacuation. <i>Bulletin of Earthquake Engineering</i> , 2016, 14, 1071-1101.	2.3	20
57	TiO <sub>2</sub> -treated different fired brick surfaces for biofouling prevention: Experimental and modelling results. <i>Ceramics International</i> , 2016, 42, 4002-4010.	2.3	22
58	Towards creating a combined database for earthquake pedestrians'™ evacuation models. <i>Safety Science</i> , 2016, 82, 77-94.	2.6	80
59	Thermal and Filtration Performance Assessment of a Dynamic Insulation System. <i>Energy Procedia</i> , 2015, 78, 513-518.	1.8	19
60	Biofouling Prevention of Ancient Brick Surfaces by TiO <sub>2</sub> -Based Nano-Coatings. <i>Coatings</i> , 2015, 5, 357-365.	1.2	19
61	Assessment of the effectiveness of cool and green roofs for the mitigation of the Heat Island effect and for the improvement of thermal comfort in Nearly Zero Energy Building. <i>Architectural Science Review</i> , 2015, 58, 134-143.	1.1	37
62	Design and experimental evaluation of an interactive system for pre-movement time reduction in case of fire. <i>Automation in Construction</i> , 2015, 52, 16-28.	4.8	36
63	Earthquake Emergencies Management by Means of Semantic-Based Internet of Things. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2015, , 318-327.	0.2	1
64	An Agent-based Model for Earthquake Pedestrians'™ Evacuation Simulation in Urban Scenarios. <i>Transportation Research Procedia</i> , 2014, 2, 255-263.	0.8	32
65	A field study of thermal inertia of roofs and its influence on indoor comfort. <i>Journal of Building Physics</i> , 2014, 38, 50-65.	1.2	6
66	The influence of clay brick substratum on the inhibitory efficiency of T i O 2 nanocoating against biofouling. <i>Building and Environment</i> , 2014, 82, 128-134.	3.0	36
67	EPES " Earthquake pedestrians <sup>3</sup> evacuation simulator: A tool for predicting earthquake pedestrians <sup>3</sup> evacuation in urban outdoor scenarios. <i>International Journal of Disaster Risk Reduction</i> , 2014, 10, 153-177.	1.8	56
68	Durability of self-cleaning TiO <sub>2</sub> coatings on fired clay brick façades: Effects of UV exposure and wet & dry cycles. <i>Building and Environment</i> , 2014, 71, 193-203.	3.0	120
69	Measurement of R-curve in clay brick blocks using optical measuring technique. <i>Engineering Fracture Mechanics</i> , 2014, 121-122, 1-10.	2.0	3
70	Effects of water absorption and surface roughness on the bioreceptivity of ETICS compared to clay bricks. <i>Building and Environment</i> , 2014, 77, 20-28.	3.0	74
71	Agent-based model for earthquake pedestrians'™ evacuation in urban outdoor scenarios: Behavioural patterns definition and evacuation paths choice. <i>Safety Science</i> , 2014, 62, 450-465.	2.6	116
72	Experimental operating cell temperature assessment of BIPV with different installation configurations on roofs under Mediterranean climate. <i>Renewable Energy</i> , 2014, 68, 378-396.	4.3	38

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73	Relationship between fracture toughness and porosity of clay brick panels used in ventilated façades: Initial investigation. <i>Engineering Fracture Mechanics</i> , 2014, 116, 108-121.	2.0	11
74	Moisture Buffering "Active" Devices for Indoor Humidity Control: Preliminary Experimental Evaluations. <i>Energy Procedia</i> , 2014, 62, 42-51.	1.8	13
75	An Experimental Study on the Correlation Between "Attachment to Belongings" "Pre-movement" Time. , 2014, , 167-178.		10
76	Evaluation of inhibitory effect of TiO2 nanocoatings against microalgal growth on clay brick façades under weak UV exposure conditions. <i>Building and Environment</i> , 2013, 64, 38-45.	3.0	95
77	Performance Assessment of Different Roof Integrated Photovoltaic Modules under Mediterranean Climate. <i>Energy Procedia</i> , 2013, 42, 183-192.	1.8	30
78	Experimental measurements and numerical model for the summer performance assessment of extensive green roofs in a Mediterranean coastal climate. <i>Energy and Buildings</i> , 2013, 63, 1-14.	3.1	91
79	Thermal performance of an insulated roof with reflective insulation: Field tests under hot climatic conditions. <i>Journal of Building Physics</i> , 2013, 36, 229-246.	1.2	29
80	Green roof yearly performance: A case study in a highly insulated building under temperate climate. <i>Energy and Buildings</i> , 2012, 55, 439-451.	3.1	93
81	Influence of the internal inertia of the building envelope on summertime comfort in buildings with high internal heat loads. <i>Energy and Buildings</i> , 2011, 43, 200-206.	3.1	123
82	Study on some sorption properties of treated bentonites for their potential use as a moisture regulating system for the preservation of historical wooden elements. <i>Journal of Cultural Heritage</i> , 2010, 11, 185-195.	1.5	5
83	The effects of roof covering on the thermal performance of highly insulated roofs in Mediterranean climates. <i>Energy and Buildings</i> , 2010, 42, 1619-1627.	3.1	45
84	Energy performance evaluation of a novel evaporative cooling technique. <i>Energy and Buildings</i> , 2010, 42, 1926-1938.	3.1	36
85	Light Vaults With Frescoes or Stuccoes Strengthened by Glass Fiber-Reinforced Polymer (GFRP) " the Role of the Reinforcement on Intrados Strains: First Experimental Data. <i>International Journal of Architectural Heritage</i> , 2010, 4, 320-336.	1.7	4
86	Moisture buffering capacity of highly absorbing materials. <i>Energy and Buildings</i> , 2009, 41, 164-168.	3.1	61
87	Experimental evaluation of the growth rate of mould on finishes for indoor housing environments: Effects of the 2002/91/EC directive. <i>Building and Environment</i> , 2009, 44, 1668-1674.	3.0	16
88	Thermal behaviour of vented roofs. <i>Structural Survey</i> , 2009, 27, 411-422.	1.0	2
89	Effects of roof tile permeability on the thermal performance of ventilated roofs: Analysis of annual performance. <i>Energy and Buildings</i> , 2008, 40, 911-916.	3.1	19
90	Rehabilitation and consolidation of high-value "camorcan" vaults with FRP. <i>Journal of Cultural Heritage</i> , 2006, 7, 13-22.	1.5	12

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91	Dynamic of moisture transfer in ancient plasters. <i>Journal of Cultural Heritage</i> , 2006, 7, 116-122.	1.5	3
92	In-life prediction of hygrometric behaviour of buildings materials: an application of fractal geometry to the determination of adsorption and suction properties. <i>Building and Environment</i> , 2002, 37, 733-739.	3.0	11