

InÃ³s Flores-Colen

List of Publications by Year in descending order

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Version: 2024-02-01

127
papers

2,596
citations

212478

28
h-index

274796

44
g-index

132
all docs

132
docs citations

132
times ranked

1548
citing authors

#	ARTICLE	IF	CITATIONS
1	Laboratory assessment of the hygrothermal performance of an external vacuum-insulation composite system. <i>Energy and Buildings</i> , 2022, 254, 111549.	3.1	3
2	Impact of natural and artificial ageing on the properties of multilayer external wall thermal insulation systems. <i>Construction and Building Materials</i> , 2022, 317, 125834.	3.2	14
3	Study of the edge thermal bridging effect in vacuum insulation panels: Steady and unsteady-state approaches using numerical and experimental methods. <i>Energy and Buildings</i> , 2022, 258, 111821.	3.1	7
4	A Distress-Based Condition Assessment Approach of Urban Water Assets Using Novel Deterioration Indices. <i>Water Resources Management</i> , 2022, 36, 1075-1092.	1.9	2
5	Evaluating the effectiveness of self-cleaning products applied on external thermal insulation composite systems (ETICS). <i>Journal of Coatings Technology Research</i> , 2022, 19, 1437-1448.	1.2	5
6	Information Systematisation Towards Rational Building Maintenance Decisions. <i>Lecture Notes in Civil Engineering</i> , 2022, , 379-419.	0.3	2
7	Insurance Policies for Condition-Based Maintenance Plans of ETICS. <i>Buildings</i> , 2022, 12, 707.	1.4	1
8	Cost-benefit analysis of the means of access used in maintenance actions. <i>E3S Web of Conferences</i> , 2022, 349, 04002.	0.2	0
9	The impact of imperfect maintenance actions on the degradation of buildings' envelope components. <i>Journal of Building Engineering</i> , 2021, 33, 101571.	1.6	28
10	Definition of a condition-based model for natural stone claddings. <i>Journal of Building Engineering</i> , 2021, 33, 101643.	1.6	25
11	Fresh properties of cement-based thermal renders with fly ash, air lime and lightweight aggregates. <i>Journal of Building Engineering</i> , 2021, 34, 101868.	1.6	8
12	Evaluation of side effects of mechanical cleaning with an anionic detergent on granite cladding tiles. <i>Environmental Science and Pollution Research</i> , 2021, 28, 15173-15184.	2.7	2
13	Critical Analysis about Emerging Technologies for Buildings' Façade Inspection. <i>Buildings</i> , 2021, 11, 53.	1.4	24
14	Performance parameters of ETICS: Correlating water resistance, bio-susceptibility and surface properties. <i>Construction and Building Materials</i> , 2021, 272, 121956.	3.2	46
15	Evaluation of in-service performance factors of renders based on in-situ testing techniques. <i>Journal of Building Engineering</i> , 2021, 34, 101806.	1.6	6
16	Impact of Environmental Exposure Conditions on the Maintenance of Facades' Claddings. <i>Buildings</i> , 2021, 11, 138.	1.4	14
17	User Perception on Key Performance Indicators in an In-Service Office Building. <i>Infrastructures</i> , 2021, 6, 45.	1.4	5
18	Durability of Thermal Renders with Lightweight and Thermal Insulating Aggregates: Regranulated Expanded Cork, Silica Aerogel and Expanded Polystyrene. <i>Gels</i> , 2021, 7, 35.	2.1	8

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19	Performance and Durability of Rendering and Basecoat Mortars for ETICS with CSA and Portland Cement. Infrastructures, 2021, 6, 60.	1.4	3
20	The influence of stone joints width and roughness on the efficiency of biocementation sealing. Construction and Building Materials, 2021, 283, 122743.	3.2	6
21	Impact of Water-Repellent Products on the Moisture Transport Properties and Mould Susceptibility of External Thermal Insulation Composite Systems. Coatings, 2021, 11, 554.	1.2	13
22	Effect of multifunctional coatings on the moisture transport properties of ETICS. , 2021, , .		0
23	Condition-Based Maintenance Strategies to Enhance the Durability of ETICS. Sustainability, 2021, 13, 6677.	1.6	3
24	Hygrothermal performance of a new thermal aerogel-based render under distinct climatic conditions. Energy and Buildings, 2021, 243, 111001.	3.1	21
25	Criteria for selection of cladding systems based on their maintainability. Journal of Building Engineering, 2021, 39, 102260.	1.6	12
26	Uncertainty in Building Inspection and Diagnosis: A Probabilistic Model Quantification. Infrastructures, 2021, 6, 124.	1.4	9
27	Durability of a New Thermal Aerogel-Based Rendering System under Distinct Accelerated Aging Conditions. Materials, 2021, 14, 5413.	1.3	13
28	Onsite monitoring of ETICS comparing different exposure conditions and insulation materials. Journal of Building Engineering, 2021, 42, 103067.	1.6	5
29	Effects of hygrothermal, UV and SO2 accelerated ageing on the durability of ETICS in urban environments. Building and Environment, 2021, 204, 108151.	3.0	28
30	Influence of brick and concrete substrates on the performance of renders using in-situ testing techniques. Journal of Building Engineering, 2021, 43, 102871.	1.6	6
31	Onsite monitoring of a wall retrofitted with an external vacuum insulation composite system. Journal of Building Engineering, 2021, 44, 103301.	1.6	3
32	The Impact of Temporary Means of Access on Buildings Envelope’s Maintenance Costs. Buildings, 2021, 11, 601.	1.4	0
33	Impact of Environmental Exposure on the Service Life of Façade Claddings—A Statistical Analysis. Buildings, 2021, 11, 615.	1.4	7
34	Non-destructive mechanical and physical in-situ testing of rendered walls under natural exposure. Construction and Building Materials, 2020, 230, 116838.	3.2	14
35	The influence of dimension and content of natural organic fibrous materials on the multi-performance of cement-based composites: A statistical approach. Construction and Building Materials, 2020, 231, 117175.	3.2	16
36	Variability of in-situ testing in wall coating systems - Karsten tube and moisture meter techniques. Journal of Building Engineering, 2020, 27, 100998.	1.6	12

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37	Influence of gypsum wastes on the workability of plasters: Heating process and microstructural analysis. Journal of Building Engineering, 2020, 29, 101143.	1.6	14
38	Evaluation of the Ecotoxicological Potential of Fly Ash and Recycled Concrete Aggregates Use in Concrete. Applied Sciences (Switzerland), 2020, 10, 351.	1.3	28
39	A review of the challenges posed by the use of vacuum panels in external insulation finishing systems. Applied Energy, 2020, 257, 114028.	5.1	65
40	Optimization of Inspection Period in Natural Stone Claddings. Applied Sciences (Switzerland), 2020, 10, 8236.	1.3	4
41	Advanced Coatings for Buildings. Coatings, 2020, 10, 728.	1.2	3
42	Use of Polycarbonate Waste as Aggregate in Recycled Gypsum Plasters. Materials, 2020, 13, 3042.	1.3	23
43	Atlas of Defects within a Global Building Inspection System. Applied Sciences (Switzerland), 2020, 10, 5879.	1.3	4
44	A Review of Balcony Impacts on the Indoor Environmental Quality of Dwellings. Sustainability, 2020, 12, 6453.	1.6	29
45	Old Buildingsâ€™ Façades: Fieldwork and Discussion of Thermal Retrofitting Strategies in a Mediterranean Climate. Designs, 2020, 4, 45.	1.3	6
46	Maintenance Modelling of Ceramic Claddings in Pitched Roofs Based on the Evaluation of Their In Situ Degradation Condition. Infrastructures, 2020, 5, 77.	1.4	6
47	Auto-responsive technologies for thermal renovation of opaque facades. Energy and Buildings, 2020, 217, 109968.	3.1	9
48	Characterisation of a multilayer external wall thermal insulation system. Application in a Mediterranean climate. Journal of Building Engineering, 2020, 30, 101265.	1.6	22
49	Physical, mechanical, and microstructural characterisation of an innovative thermal insulating render incorporating silica aerogel. Energy and Buildings, 2020, 211, 109793.	3.1	59
50	Influence of Exposure to Elevated Temperatures on the Physical and Mechanical Properties of Cementitious Thermal Mortars. Applied Sciences (Switzerland), 2020, 10, 2200.	1.3	17
51	Nanomaterialsâ€™ Influence on the Performance of Thermal Insulating Mortarsâ€™ A Statistical Analysis. Applied Sciences (Switzerland), 2020, 10, 2219.	1.3	10
52	Effect of Hygrothermal Aging on Hydrophobic Treatments Applied to Building Exterior Claddings. Coatings, 2020, 10, 363.	1.2	14
53	Reliability of in-situ diagnosis in external wall renders. Construction and Building Materials, 2020, 252, 119079.	3.2	7
54	Expert Knowledge-based Inspection Systems. , 2020, , .		13

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55	Buildingsâ€™ Management. , 2020, , 1-13.		1
56	Repair Techniques. , 2020, , 301-355.		1
57	Diagnosis Methods. , 2020, , 257-299.		0
58	Interface argamassa-suporte: anÃlise das caracterÃsticas fÃsicas com base em vÃrias campanhas experimentais. Ambiente ConstruÃdo, 2020, 20, 331-342.	0.2	0
59	The influence of hydrophobic protection on building exterior claddings. Journal of Coatings Technology Research, 2019, 16, 1379-1388.	1.2	18
60	Spaces in-between impacts on indoor environment and energy efficiency in dwellings. MATEC Web of Conferences, 2019, 282, 02071.	0.1	2
61	Pathology and Rehabilitation of Vinyl and Linoleum Floorings in Health Infrastructures: Statistical Survey. Buildings, 2019, 9, 116.	1.4	9
62	Economic assessment of the production of subcritically dried silica-based aerogels. Journal of Non-Crystalline Solids, 2019, 516, 26-34.	1.5	33
63	Influence of the heating process on the use of gypsum wastes in plasters: Mechanical, thermal and environmental analysis. Journal of Cleaner Production, 2019, 215, 444-457.	4.6	40
64	Physical performance of industrial and EPS and cork experimental thermal insulation renders. Construction and Building Materials, 2019, 198, 786-795.	3.2	31
65	Data Analysis of Inspection, Diagnosis, and Rehabilitation of Flat Roofs. Journal of Performance of Constructed Facilities, 2019, 33, .	1.0	19
66	Thermal conductivity measurement of thermal insulating mortars with EPS and silica aerogel by steady-state and transient methods. Construction and Building Materials, 2018, 172, 696-705.	3.2	66
67	Variability of in-situ testing on rendered walls in natural ageing conditions â€“ Rebound hammer and ultrasound techniques. Construction and Building Materials, 2018, 170, 167-181.	3.2	22
68	Physical and mechanical performance of cement-based renders with different contents of fly ash, expanded cork granules and expanded clay. Construction and Building Materials, 2018, 191, 535-543.	3.2	27
69	Inspection, Diagnosis, and Rehabilitation System for Vinyl and Linoleum Floorings in Health Infrastructures. Journal of Performance of Constructed Facilities, 2018, 32, .	1.0	19
70	EN 998-1 performance requirements for thermal aerogel-based renders. Construction and Building Materials, 2018, 179, 453-460.	3.2	17
71	Inspection and Numerical Modeling of Cracking in Existing Nonbearing Walls. Journal of Performance of Constructed Facilities, 2018, 32, .	1.0	3
72	The influence of moisture content on the thermal conductivity of external thermal mortars. Construction and Building Materials, 2017, 135, 279-286.	3.2	81

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73	Maintenance Planning of Pitched Roofs in Current Buildings. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	20
74	Maintenance planning of facades in current buildings. Construction and Building Materials, 2017, 147, 790-802.	3.2	97
75	Step-by-step approach to ranking green roof retrofit potential in urban areas: A case study of Lisbon, Portugal. Urban Forestry and Urban Greening, 2017, 25, 120-129.	2.3	23
76	Maintenance programmes for flat roofs in existing buildings. Property Management, 2017, 35, 339-362.	0.4	14
77	Economic and Energy Life Cycle Assessment of aerogel-based thermal renders. Journal of Cleaner Production, 2017, 151, 537-545.	4.6	36
78	Inspection, Diagnosis, and Rehabilitation System of Door and Window Frames. Journal of Performance of Constructed Facilities, 2017, 31, .	1.0	24
79	Analysis of the Inspection, Diagnosis, and Repair of External Door and Window Frames. Journal of Performance of Constructed Facilities, 2017, 31, 04017098.	1.0	14
80	Inspection, Diagnosis, and Rehabilitation System for Flat Roofs. Journal of Performance of Constructed Facilities, 2017, 31, .	1.0	25
81	Study of the cleaning effectiveness of limestone and lime-based mortar substrates protected with anti-graffiti products. Journal of Cultural Heritage, 2017, 24, 31-44.	1.5	14
82	Methodology for the Assessment of the Ecotoxicological Potential of Construction Materials. Materials, 2017, 10, 649.	1.3	40
83	Experimental Study of the Compressive Strength of Multi-Coat Renders. Materials Research, 2017, 20, 1254-1265.	0.6	1
84	Parametric Analysis to Study the Influence of Aerogel-Based Rendersâ€™ Components on Thermal and Mechanical Performance. Materials, 2016, 9, 336.	1.3	11
85	Drying index for in-service physical performance assessment of renders. Construction and Building Materials, 2016, 112, 1101-1109.	3.2	18
86	Aerogel-based renders with lightweight aggregates: Correlation between molecular/pore structure and performance. Construction and Building Materials, 2016, 124, 485-495.	3.2	65
87	Silica-based aerogels as aggregates for cement-based thermal renders. Cement and Concrete Composites, 2016, 72, 309-318.	4.6	60
88	Using Ultrasound for In-Service Assessment of Rendered Walls. Experimental Techniques, 2016, 40, 1203-1214.	0.9	5
89	Study of the effect of three anti-graffiti products on the physical properties of different substrates. Construction and Building Materials, 2016, 107, 157-164.	3.2	17
90	Biocementation as Rehabilitation Technique of Porous Materials. Building Pathology and Rehabilitation, 2016, , 99-120.	0.1	10

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91	Durability of ETICS and Premixed One-Coat Renders in Natural Exposure Conditions. Building Pathology and Rehabilitation, 2016, , 131-158.	0.1	5
92	Mechanical Characteristics of Lightweight Mortars on Small-Scale Samples. Journal of Testing and Evaluation, 2016, 44, 402-413.	0.4	11
93	Natural Ageing Tests to Study In-service Different FaÃade Solutionsâ€”ETICS and Premixed One-Coat Rendered Walls. Journal of Civil Engineering and Architecture, 2016, 10, .	0.0	1
94	Time-Dependent Passive Building Thermography for Detecting Delamination of Adhered Ceramic Cladding. Journal of Nondestructive Evaluation, 2015, 34, 1.	1.1	10
95	In Situ Characterization of Damaging Soluble Salts in Wall Construction Materials. Journal of Performance of Constructed Facilities, 2015, 29, 04014127.	1.0	6
96	Variability of the Pull-off Technique for Adhesion Strength Evaluation on Ceramic Tile Claddings. Journal of Adhesion, 2015, 91, 768-791.	1.8	13
97	Rehabilitation of renders of old buildings in Portugal. Structural Survey, 2015, 33, 337-353.	1.0	5
98	In-situ assessment of physical performance and degradation analysis of rendering walls. Construction and Building Materials, 2015, 75, 283-292.	3.2	42
99	Quasi-quantitative infrared thermographic detection of moisture variation in facades with adhered ceramic cladding using principal component analysis. Building and Environment, 2015, 94, 97-108.	3.0	56
100	Green roofs in Mediterranean areas â€” Survey and maintenance planning. Building and Environment, 2015, 94, 131-143.	3.0	31
101	Building Thermography: Detection of Delamination of Adhered Ceramic Claddings Using the Passive Approach. Journal of Nondestructive Evaluation, 2015, 34, 1.	1.1	53
102	Influence of slenderness on the compressive strength evaluation of cores of renders. Materials and Structures/Materiaux Et Constructions, 2015, 48, 1449-1460.	1.3	6
103	Renders. , 2015, , 53-122.		5
104	Gypsum Plasters. , 2015, , 123-184.		9
105	Use of Non-Standard Specimens to Study the Compressive Strength of Multi-Coat Renders. Journal of Testing and Evaluation, 2015, 43, 20140028.	0.4	2
106	Passive thermographic detection of moisture problems in faÃades with adhered ceramic cladding. Construction and Building Materials, 2014, 51, 187-197.	3.2	67
107	STATISTICAL SURVEY OF THE PATHOLOGY, DIAGNOSIS AND REHABILITATION OF ETICS IN WALLS. Journal of Civil Engineering and Management, 2014, 20, 511-526.	1.9	58
108	In-service performance of renders using a cohesive zone model. International Journal of Adhesion and Adhesives, 2014, 55, 145-154.	1.4	0

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109	The road to facility management. <i>Facilities</i> , 2014, 32, 46-57.	0.8	12
110	Inspection and diagnosis system of ETICS on walls. <i>Construction and Building Materials</i> , 2013, 47, 1257-1267.	3.2	81
111	Numerical analysis of rendersâ€™ adhesion using an interface model. <i>Construction and Building Materials</i> , 2013, 38, 292-305.	3.2	13
112	Passive Thermographic Inspection of Adhered Ceramic Claddings: Limitation and Conditioning Factors. <i>Journal of Performance of Constructed Facilities</i> , 2013, 27, 737-747.	1.0	26
113	In-situ Techniques for Mechanical Performance and Degradation Analysis of Rendering Walls. <i>Restoration of Buildings and Monuments</i> , 2013, 19, 255-266.	0.6	12
114	On-site performance assessment of rendering façades for predictive maintenance. <i>Structural Survey</i> , 2011, 29, 133-146.	1.0	40
115	Discussion of proactive maintenance strategies in façadesâ€™ coatings of social housing. <i>Journal of Building Appraisal</i> , 2010, 5, 223-240.	0.4	30
116	In-service parameters from façade rendering mortars. <i>Structural Survey</i> , 2010, 28, 17-27.	1.0	12
117	A systematic approach for maintenance budgeting of buildings façades based on predictive and preventive strategies. <i>Construction and Building Materials</i> , 2010, 24, 1718-1729.	3.2	143
118	Discussion of Criteria for Prioritization of Predictive Maintenance of Building Façades: Survey of 30 Experts. <i>Journal of Performance of Constructed Facilities</i> , 2010, 24, 337-344.	1.0	61
119	IN SITU ADHERENCE EVALUATION OF COATING MATERIALS. <i>Experimental Techniques</i> , 2009, 33, 51-60.	0.9	27
120	Expected render performance assessment based on impact resistance in situ determination. <i>Construction and Building Materials</i> , 2009, 23, 2997-3004.	3.2	39
121	Stains in facadesâ€™ rendering â€“ Diagnosis and maintenance techniquesâ€™ classification. <i>Construction and Building Materials</i> , 2008, 22, 211-221.	3.2	87
122	Expedient in situ test techniques for predictive maintenance of rendered façades. <i>Journal of Building Appraisal</i> , 2006, 2, 142-156.	0.4	28
123	Water-Resistance of Mortars with Lightweight Aggregates. <i>Key Engineering Materials</i> , 0, 634, 46-53.	0.4	14
124	Multivariate Data Analysis of the Thermal Performance of Portuguese Residential Building Stock. <i>KnE Engineering</i> , 0, , .	0.1	0
125	In-Situ Tests on Silica Aerogel-Based Rendering Walls. , 0, , .		3
126	Vinyl and Linoleum Floorings in Health Infrastructures: Maintenance Recommendations Based on Fieldwork Data. , 0, , .		0

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127	Assessing Water Resistance and Surface Properties of ETICS. , 0, , .		1