Ana Silva

List of Publications by Year in descending order

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107 papers	1,863 citations	318942 23 h-index	406436 35 g-index
110 all docs	110 docs citations	110 times ranked	1158 citing authors

#	Article	IF	Citations
1	Building Inspection System Software Based on Expert Knowledge. Journal of Performance of Constructed Facilities, 2022, 36, .	1.0	2
2	Application of Petri Nets to Manage Bridge Decks. Lecture Notes in Civil Engineering, 2022, , 1308-1317.	0.3	1
3	Causal Effects between Criteria That Establish the End of Service Life of Buildings and Components. Buildings, 2022, 12, 88.	1.4	8
4	Impact of the Height of Buildings on the Maintainability of Natural Stone Claddings. Infrastructures, 2022, 7, 44.	1.4	1
5	Tree Based Approaches for Predicting Concrete Carbonation Coefficient. Applied Sciences (Switzerland), 2022, 12, 3874.	1.3	4
6	Information Systematisation Towards Rational Building Maintenance Decisions. Lecture Notes in Civil Engineering, 2022, , 379-419.	0.3	2
7	Insurance Policies for Condition-Based Maintenance Plans of ETICS. Buildings, 2022, 12, 707.	1.4	1
8	Dimensioning metallic inserts of stone claddings: a case study. Revista De Engenharia Civil IMED, 2022, 8, 37.	0.0	0
9	Cost-benefit analysis of the means of access used in maintenance actions. E3S Web of Conferences, 2022, 349, 04002.	0.2	0
10	The impact of imperfect maintenance actions on the degradation of buildingsâ€™ envelope components. Journal of Building Engineering, 2021, 33, 101571.	1.6	28
11	Definition of a condition-based model for natural stone claddings. Journal of Building Engineering, 2021, 33, 101643.	1.6	25
12	How Long Can a Wood Flooring System Last?. Buildings, 2021, 11, 23.	1.4	3
13	Critical Analysis about Emerging Technologies for Buildingâ€™s FaÃ§ade Inspection. Buildings, 2021, 11, 53.	1.4	24
14	Impact of Environmental Exposure Conditions on the Maintenance of Facadesâ€™ Claddings. Buildings, 2021, 11, 138.	1.4	14
15	Modelling the service life of timber claddings using the factor method. Journal of Building Engineering, 2021, 37, 102137.	1.6	11
16	Condition-Based Maintenance Strategies to Enhance the Durability of ETICS. Sustainability, 2021, 13, 6677.	1.6	3
17	Predicting carbonation coefficient using Artificial neural networks and genetic programming. Journal of Building Engineering, 2021, 39, 102258.	1.6	12
18	Criteria for selection of cladding systems based on their maintainability. Journal of Building Engineering, 2021, 39, 102260.	1.6	12

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19	Uncertainty in Building Inspection and Diagnosis: A Probabilistic Model Quantification. Infrastructures, 2021, 6, 124.	1.4	9
20	Degradation Assessment of Natural Stone Claddings over Their Service Life: Comparison between Tehran (Iran) and Lisbon (Portugal). Buildings, 2021, 11, 438.	1.4	5
21	Prediction of strength and heterogeneity of low-strength mortars from drilling data. Construction and Building Materials, 2021, 305, 124738.	3.2	4
22	Service life of building envelopes: A critical literature review. Journal of Building Engineering, 2021, 44, 102646.	1.6	23
23	An Approach Concerning Climate Change and Timber Building Resilience: AraucanÃa Region, South Chile. Buildings, 2021, 11, 452.	1.4	0
24	The Impact of Temporary Means of Access on Buildings Envelopeâ€™s Maintenance Costs. Buildings, 2021, 11, 601.	1.4	0
25	Impact of Environmental Exposure on the Service Life of FaÃ§ade Claddingsâ€”A Statistical Analysis. Buildings, 2021, 11, 615.	1.4	7
26	Computational models applied to the service life prediction of External Thermal Insulation Composite Systems (ETICS). Journal of Building Engineering, 2020, 27, 100944.	1.6	22
27	Service life prediction and environmental exposure conditions of timber claddings in South Chile. Building Research and Information, 2020, 48, 191-206.	2.0	16
28	Probabilistic analysis of the durability of architectural concrete surfaces. Applied Mathematical Modelling, 2020, 77, 199-215.	2.2	13
29	Stochastic maintenance models for ceramic claddings. Structure and Infrastructure Engineering, 2020, 16, 247-265.	2.0	20
30	Application of the factor method to the service life prediction of window frames. Engineering Failure Analysis, 2020, 109, 104245.	1.8	13
31	Optimization of Inspection Period in Natural Stone Claddings. Applied Sciences (Switzerland), 2020, 10, 8236.	1.3	4
32	On the impacts of climate change on the functional deterioration of heritage buildings in South Chile. Building and Environment, 2020, 183, 107138.	3.0	24
33	NLRP3 Inflammasome and Allergic Contact Dermatitis: A Connection to Demystify. Pharmaceutics, 2020, 12, 867.	2.0	18
34	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
35	Methodological Proposal for the Development of Insurance Policies for Building Components. CivilEng, 2020, 1, 1-9.	0.8	1
36	Evaluation of the Deterioration of Ceramic Claddings by Application of Artificial Neural Networks. Journal of Performance of Constructed Facilities, 2020, 34, .	1.0	7

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37	Methodological Proposal for the Development of Insurance Policies for Building Components. CivilEng, 2020, 1, 1-9.	0.8	0
38	Optimizing Service Life Prediction Models of External Paint Finishes. Journal of Performance of Constructed Facilities, 2020, 34, 04020014.	1.0	1
39	Life Cycle Prediction and Maintenance of Buildings. Buildings, 2020, 10, 112.	1.4	13
40	Classification model of low-strength mortars from drilling data. Construction and Building Materials, 2020, 246, 118484.	3.2	4
41	Urgency of repair of building elements: Prediction and influencing factors in faÃ§ade renders. Construction and Building Materials, 2020, 249, 118743.	3.2	18
42	Stochastic Petri-net models to predict the degradation of ceramic claddings. Building Research and Information, 2019, 47, 697-715.	2.0	10
43	Fuzzy Decision-Support System for Safeguarding Tangible and Intangible Cultural Heritage. Sustainability, 2019, 11, 3953.	1.6	16
44	Impact of Maintenance, Rehabilitation, and Other Interventions on Functionality of Heritage Buildings. Journal of Performance of Constructed Facilities, 2019, 33, .	1.0	15
45	Design of an Insurance Policy Model Applied to Natural Stone Facade Claddings. Buildings, 2019, 9, 111.	1.4	10
46	Application of the factor method to the service life prediction of architectural concrete. Canadian Journal of Civil Engineering, 2019, 46, 1054-1062.	0.7	11
47	Methodology for service life prediction of window frames. Canadian Journal of Civil Engineering, 2019, 46, 1010-1020.	0.7	13
48	Influence of Design on the Service Life of Indirectly Fastened Natural Stone Cladding. Journal of Performance of Constructed Facilities, 2019, 33, .	1.0	11
49	Do we need a buildingsâ€™ inspection, diagnosis and service life prediction software?. Journal of Building Engineering, 2019, 22, 335-348.	1.6	34
50	Protection value and functional service life of heritage timber buildings. Building Research and Information, 2019, 47, 567-584.	2.0	23
51	Methodology for the service life prediction of ceramic claddings in pitched roofs. Construction and Building Materials, 2018, 166, 386-399.	3.2	20
52	Stochastic Petri net-based modelling of the durability of renderings. Automation in Construction, 2018, 87, 96-105.	4.8	18
53	Application of a graphical method to predict the service life of adhesive ceramic external wall claddings in the city of BrasÃlia, Brazil. Journal of Building Engineering, 2018, 19, 1-13.	1.6	11
54	Serviceability of facade claddings. Building Research and Information, 2018, 46, 179-190.	2.0	23

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55	Analysis of the influencing factors of external wall ceramic claddings' service life using regression techniques. Engineering Failure Analysis, 2018, 83, 141-155.	1.8	20
56	Service life prediction of ceramic tiling systems in BrasÃ‍lia-Brazil using the factor method. Construction and Building Materials, 2018, 192, 38-49.	3.2	16
57	Statistical modelling of the resistance to chloride penetration in concrete with recycled aggregates. Construction and Building Materials, 2018, 182, 550-560.	3.2	26
58	A comparative multi-criteria decision analysis of service life prediction methodologies for rendered faÃ§ades. Journal of Building Engineering, 2018, 20, 476-487.	1.6	9
59	APPLICATION OF THE FACTOR METHOD TO THE SERVICE LIFE PREDICTION OF ETICS. International Journal of Strategic Property Management, 2018, 22, 204-222.	0.8	21
60	Statistical modelling of the influential factors on chloride penetration in concrete. Magazine of Concrete Research, 2017, 69, 255-270.	0.9	16
61	Service Life Prediction of Natural Stone Claddings with an Indirect Fastening System. Journal of Performance of Constructed Facilities, 2017, 31, .	1.0	12
62	Maintenance Planning of Pitched Roofs in Current Buildings. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	20
63	The Influence of Pathological Situations on Churchesâ€™ Functionality: An Approach Based on Historical Records. International Journal of Architectural Heritage, 2017, 11, 566-587.	1.7	15
64	Multiple linear regression and fuzzy logic models applied to the functional service life prediction of cultural heritage. Journal of Cultural Heritage, 2017, 27, 20-35.	1.5	55
65	Maintenance programmes for flat roofs in existing buildings. Property Management, 2017, 35, 339-362.	0.4	14
66	Methodology for service life prediction of architectural concrete facades. Construction and Building Materials, 2017, 133, 261-274.	3.2	52
67	Parametric Analysis to Study the Influence of Aerogel-Based Rendersâ€™ Components on Thermal and Mechanical Performance. Materials, 2016, 9, 336.	1.3	11
68	Functional and Physical Service Life of Natural Stone Claddings. Journal of Materials in Civil Engineering, 2016, 28, .	1.3	15
69	Phospholipidomic Profile Variation on THPâ€1 Cells Exposed to Skin or Respiratory Sensitizers and Respiratory Irritant. Journal of Cellular Physiology, 2016, 231, 2639-2651.	2.0	8
70	The variation of stygofauna along a gradient of salinization in a coastal aquifer. Hydrology Research, 2016, 47, 89-103.	1.1	19
71	Stochastic Approach to the Factor Method: Durability of Rendered FaÃ§ades. Journal of Materials in Civil Engineering, 2016, 28, .	1.3	11
72	Application of the factor method to the prediction of the service life of external paint finishes on faÃ§ades. Materials and Structures/Materiaux Et Constructions, 2016, 49, 5209-5225.	1.3	13

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73	Methodologies for Service Life Prediction of Buildings. Green Energy and Technology, 2016, , .	0.4	59
74	Probabilistic analysis of degradation of faÃ§ade claddings using Markov chain models. Materials and Structures/Materiaux Et Constructions, 2016, 49, 2871-2892.	1.3	15
75	Stochastic Models. Green Energy and Technology, 2016, , 163-218.	0.4	0
76	Comparative analysis of service life prediction methods applied to rendered faÃ§ades. Materials and Structures/Materiaux Et Constructions, 2016, 49, 4893-4910.	1.3	8
77	Fuzzy Systems in the Service-Life Prediction of Exterior Natural Stone Claddings. Journal of Performance of Constructed Facilities, 2016, 30, .	1.0	12
78	Statistical Modelling of Service Life Prediction of Exterior Painted Surfaces. Building Pathology and Rehabilitation, 2016, , 45-74.	0.1	0
79	BuildingsLife â€“ The use of genetic algorithms for maintenance plan optimization. Journal of Cleaner Production, 2016, 121, 84-98.	4.6	20
80	Statistical Modeling of Carbonation in Concrete Incorporating Recycled Aggregates. Journal of Materials in Civil Engineering, 2016, 28, .	1.3	26
81	Probabilistic transition of condition: render facades. Building Research and Information, 2016, 44, 301-318.	2.0	23
82	Service Life and Durability of Assemblies. Green Energy and Technology, 2016, , 13-66.	0.4	2
83	Factorial Models. Green Energy and Technology, 2016, , 263-324.	0.4	1
84	Comparative Analysis of Service Life Prediction Methods. Green Energy and Technology, 2016, , 325-411.	0.4	3
85	Mechanical Characteristics of Lightweight Mortars on Small-Scale Samples. Journal of Testing and Evaluation, 2016, 44, 402-413.	0.4	11
86	Deterministic Models. Green Energy and Technology, 2016, , 67-162.	0.4	1
87	Computational Models. Green Energy and Technology, 2016, , 219-262.	0.4	0
88	Modelling the service life of rendered facades using fuzzy systems. Automation in Construction, 2015, 51, 1-7.	4.8	31
89	Application of the Factor Method to the Prediction of the Service Life of Ceramic External Wall Cladding. Journal of Performance of Constructed Facilities, 2015, 29, .	1.0	29
90	UNCERTAINTY MODELLING OF SERVICE LIFE AND ENVIRONMENTAL PERFORMANCE TO REDUCE RISK IN BUILDING DESIGN DECISIONS. Journal of Civil Engineering and Management, 2015, 21, 308-322.	1.9	42

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91	STATISTICAL MODELLING OF THE SERVICE LIFE PREDICTION OF PAINTED SURFACES. International Journal of Strategic Property Management, 2015, 19, 173-185.	0.8	23
92	Modelling the degradation and service life of ETICS in external walls. Materials and Structures/Materiaux Et Constructions, 2015, 48, 2235-2249.	1.3	50
93	Predicting the Service Life of Exterior Wall Painting: Techno-Economic Analysis of Alternative Maintenance Strategies. Journal of Construction Engineering and Management - ASCE, 2014, 140, .	2.0	40
94	Durability of current renderings: A probabilistic analysis. Automation in Construction, 2014, 44, 92-102.	4.8	20
95	Neural networks applied to service life prediction of exterior painted surfaces. Building Research and Information, 2014, 42, 371-380.	2.0	27
96	Application of the factor method to the estimation of the service life of natural stone cladding. Construction and Building Materials, 2014, 66, 484-493.	3.2	44
97	Oxidative stress-dependent activation of the eIF2Î±â€“ATFr unfolded protein response branch by skin sensitizer 1-fluoro-2,4-dinitrobenzene modulates dendritic-like cell maturation and inflammatory status in a biphasic manner. Free Radical Biology and Medicine, 2014, 77, 217-229.	1.3	51
98	Respiratory sensitizer hexamethylene diisocyanate inhibits SOD 1 and induces ERK-dependent detoxifying and maturation pathways in dendritic-like cells. Free Radical Biology and Medicine, 2014, 72, 238-246.	1.3	9
99	Statistical modelling of carbonation in reinforced concrete. Cement and Concrete Composites, 2014, 50, 73-81.	4.6	81
100	The importance of the quality of sampling in service life prediction. Construction and Building Materials, 2014, 66, 19-29.	3.2	21
101	Statistical models applied to service life prediction of rendered faÃ§ades. Automation in Construction, 2013, 30, 151-160.	4.8	49
102	Probabilistic Analysis of the Degradation Evolution of Stone Wall Cladding Directly Adhered to the Substrate. Journal of Materials in Civil Engineering, 2013, 25, 227-235.	1.3	8
103	Application of the factor method to maintenance decision support for stone cladding. Automation in Construction, 2012, 22, 165-174.	4.8	52
104	Service life prediction modelling of adhesive ceramic tiling systems. Building Research and Information, 2011, 39, 66-78.	2.0	53
105	Service life prediction model applied to natural stone wall claddings (directly adhered to the) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.2	72
106	Service life prediction models for exterior stone cladding. Building Research and Information, 2011, 39, 637-653.	2.0	30
107	Probabilistic Approach to the Service Life Prediction of Timber Claddings. , 0, , .		3