

Josã© Luã-s Barroso de Aguiar

List of Publications by Year in descending order

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74
papers

2,624
citations

201385

27
h-index

189595

50
g-index

76
all docs

76
docs citations

76
times ranked

2309
citing authors

#	ARTICLE	IF	CITATIONS
1	Sustainability Analysis of Interior Coatings for the Prevention of Fungal Development. <i>Construction Materials</i> , 2022, 2, 27-39.	0.5	0
2	Innovative coating materials to prevent fungi growth. , 2022, , 289-310.		0
3	Physical Properties of an Eco-Sustainable, Form-Stable Phase Change Material Included in Aerial-Lime-Based Mortar Intended for Different Climates. <i>Materials</i> , 2022, 15, 1192.	1.3	8
4	Physical Properties of Eco-Sustainable Form-Stable Phase Change Materials Included in Mortars Suitable for Buildings Located in Different Continental Regions. <i>Materials</i> , 2022, 15, 2497.	1.3	8
5	Chloride Ion Penetration into Cracked UHPFRC During Wetting-drying Cycles. <i>RILEM Bookseries</i> , 2021, , 227-238.	0.2	1
6	Eficiência energética dos edifícios: contributo dos materiais de mudança de fase. , 2021, , .		0
7	Argamassas com incorporação direta de Materiais de Mudança de Fase: Avaliação do comportamento a baixas e elevadas temperaturas. <i>Revista Materia</i> , 2021, 26, .	0.1	0
8	Durability of an UHPFRC under mechanical and chloride loads. <i>Construction and Building Materials</i> , 2021, 311, 125223.	3.2	12
9	Phase change materials and energy efficiency of buildings: A review of knowledge. <i>Journal of Energy Storage</i> , 2020, 27, 101083.	3.9	203
10	FEM Applied to Building Physics: Modeling Solar Radiation and Heat Transfer of PCM Enhanced Test Cells. <i>Energies</i> , 2020, 13, 2200.	1.6	5
11	An innovative approach for temperature control of massive concrete structures at early ages based on post-cooling: Proof of concept. <i>Journal of Building Engineering</i> , 2020, 32, 101832.	1.6	5
12	Innovative Materials for Construction. <i>Materials</i> , 2020, 13, 5448.	1.3	5
13	Hydraulic lime mortars incorporating micro cork granules with antifungal properties. <i>Construction and Building Materials</i> , 2020, 255, 119368.	3.2	8
14	Thermal Performance of Mortars Based on Different Binders and Containing a Novel Sustainable Phase Change Material (PCM). <i>Materials</i> , 2020, 13, 2055.	1.3	21
15	Spent equilibrium catalyst as internal curing agent in UHPFRC. <i>Cement and Concrete Composites</i> , 2019, 104, 103362.	4.6	29
16	Argamassas eco-eficientes com incorporação simultânea de material de mudança de fase e cinzas volantes. <i>Revista Materia</i> , 2019, 24, .	0.1	0
17	Applications of Sustainable Polymer-Based Phase Change Materials in Mortars Composed by Different Binders. <i>Materials</i> , 2019, 12, 3502.	1.3	17
18	Influence of the incorporation of phase change materials on temperature development in mortar at early ages: Experiments and numerical simulation. <i>Construction and Building Materials</i> , 2019, 225, 1036-1051.	3.2	16

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19	Classificação de argamassas com incorporação de materiais de mudança de fase com base nas suas propriedades físicas, mecânicas e térmicas. Revista Materia, 2019, 24, .	0.1	0
20	Recycling of biomass and coal fly ash as cement replacement material and its effect on hydration and carbonation of concrete. Waste Management, 2019, 94, 39-48.	3.7	83
21	Hydraulic lime mortars with antifungal properties. Applied Surface Science, 2019, 483, 1192-1198.	3.1	17
22	Structural Properties of Phosphate-Washing Waste Based Geopolymeric Mortars. Advances in Science, Technology and Innovation, 2019, , 207-210.	0.2	0
23	Mortars Containing Sustainable PCM™s for the Energy Efficiency of Buildings. MATEC Web of Conferences, 2019, 303, 02001.	0.1	1
24	Reabilitação térmica: Contributo das argamassas com incorporação de material de mudança de fase. Revista Materia, 2019, 24, .	0.1	0
25	Mortars with Phase Change Materials (PCM) and Stone Waste to Improve Energy Efficiency in Buildings. , 2018, , 195-201.		2
26	Energy benefits of cement-based plaster containing hybrid phase-change material. Proceedings of Institution of Civil Engineers: Construction Materials, 2018, 171, 117-125.	0.7	3
27	Cost-efficient one-part alkali-activated mortars with low global warming potential for floor heating systems applications. European Journal of Environmental and Civil Engineering, 2017, 21, 412-429.	1.0	46
28	Cost efficiency and resistance to chemical attack of a fly ash geopolymeric mortar versus epoxy resin and acrylic paint coatings. European Journal of Environmental and Civil Engineering, 2017, 21, 555-571.	1.0	19
29	Red mud-based geopolymers with tailored alkali diffusion properties and pH buffering ability. Journal of Cleaner Production, 2017, 148, 23-30.	4.6	101
30	Performance on an Alkali-Activated Cement-Based Binder (AACB) for Coating of an OPC Infrastructure Exposed to Chemical Attack. , 2017, , 335-356.		1
31	Comportamento térmico de argamassas com incorporação de Materiais de Mudança de Fase (PCM) no clima português. Revista Materia, 2017, 22, .	0.1	0
32	Fresh State Properties of Concrete Incorporating Scrap Tire Rubber. Periodica Polytechnica: Civil Engineering, 2016, 60, 611-617.	0.6	4
33	Produtos de hidratação em argamassas geopoliméricas à base de argila da Tunísia para reparação de estruturas de concreto. Revista Materia, 2016, 21, 213-226.	0.1	1
34	Thermal performance and cost analysis of mortars made with PCM and different binders. Construction and Building Materials, 2016, 122, 637-648.	3.2	57
35	Influence of adding phase change materials on the physical and mechanical properties of cement mortars. Construction and Building Materials, 2016, 127, 1-10.	3.2	103
36	Mortars with Incorporation of Phase Change Materials for Thermal Rehabilitation. International Journal of Architectural Heritage, 2016, , 1-10.	1.7	6

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37	Concrete with triphasic conductive materials for self-monitoring of cracking development subjected to flexure. <i>Composite Structures</i> , 2016, 138, 184-191.	3.1	35
38	Optimal behavior of responsive residential demand considering hybrid phase change materials. <i>Applied Energy</i> , 2016, 163, 81-92.	5.1	52
39	Experimental and numerical studies of hybrid PCM embedded in plastering mortar for enhanced thermal behaviour of buildings. <i>Energy</i> , 2016, 94, 250-261.	4.5	121
40	Bioactivity enhancement of calcined kaolin geopolymer with CaCl ₂ treatment. <i>ScienceAsia</i> , 2016, 42, 407.	0.2	12
41	Self-monitoring of freeze-thaw damage using triphasic electric conductive concrete. <i>Construction and Building Materials</i> , 2015, 101, 440-446.	3.2	39
42	Argamassas com incorporação de Materiais de Mudança de Fase (PCM): Caracterização física, mecânica e durabilidade. <i>Revista Materia</i> , 2015, 20, 245-261.	0.1	8
43	Mix design, properties and cost analysis of fly ash-based geopolymer foam. <i>Construction and Building Materials</i> , 2015, 80, 18-30.	3.2	196
44	Mortars based in different binders with incorporation of phase-change materials: Physical and mechanical properties. <i>European Journal of Environmental and Civil Engineering</i> , 2015, 19, 1216-1233.	1.0	63
45	Assessing the feasibility of impregnating phase change materials in lightweight aggregate for development of thermal energy storage systems. <i>Construction and Building Materials</i> , 2015, 89, 48-59.	3.2	92
46	Apatite formation on calcined kaolin-white Portland cement geopolymer. <i>Materials Science and Engineering C</i> , 2015, 51, 1-6.	3.8	37
47	Effect of temperature on mortars with incorporation of phase change materials. <i>Construction and Building Materials</i> , 2015, 98, 89-101.	3.2	60
48	Ranking procedure based on mechanical, durability and thermal behavior of mortars with incorporation of phase change materials. <i>Materiales De Construccion</i> , 2015, 65, e068.	0.2	7
49	Compressive strength, microstructure and hydration products of hybrid alkaline cements. <i>Materials Research</i> , 2014, 17, 829-837.	0.6	30
50	Influence of the Type of Phase Change Materials Microcapsules on the Properties of Lime-gypsum Thermal Mortars. <i>Advanced Engineering Materials</i> , 2014, 16, 433-441.	1.6	31
51	Fibres for enhancing of the bond capacity between GFRP rebar and concrete. <i>Construction and Building Materials</i> , 2014, 51, 303-312.	3.2	45
52	Thermal behavior of cement based plastering mortar containing hybrid microencapsulated phase change materials. <i>Energy and Buildings</i> , 2014, 84, 526-536.	3.1	80
53	Estimation of the specific enthalpy-temperature functions for plastering mortars containing hybrid mixes of phase change materials. <i>International Journal of Energy and Environmental Engineering</i> , 2014, 5, 1.	1.3	9
54	Report from 13 th ICPIC and 7 th ASPIC: New Trends on Concrete-Polymer Composites. <i>Advanced Materials Research</i> , 2013, 687, 45-56.	0.3	2

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55	Latent heat storage in PCM containing mortars – Study of microstructural modifications. Energy and Buildings, 2013, 66, 724-731.	3.1	51
56	Incorporation of titanium dioxide nanoparticles in mortars – Influence of microstructure in the hardened state properties and photocatalytic activity. Cement and Concrete Research, 2013, 43, 112-120.	4.6	168
57	Carbonation of surface protected concrete. Construction and Building Materials, 2013, 49, 478-483.	3.2	58
58	Thermal Mortars with Incorporation of PCM Microcapsules. Restoration of Buildings and Monuments, 2013, 19, 171-178.	0.6	16
59	Thermal enhancement of plastering mortars with Phase Change Materials: Experimental and numerical approach. Energy and Buildings, 2012, 49, 16-27.	3.1	129
60	Properties and durability of HPC with tyre rubber wastes. Construction and Building Materials, 2012, 34, 186-191.	3.2	159
61	Study on residual behaviour and flexural toughness of fibre cocktail reinforced self compacting high performance concrete after exposure to high temperature. Construction and Building Materials, 2011, 34, 186-191.	3.2	20
62	Thermography as a technique for monitoring early age temperatures of hardening concrete. Construction and Building Materials, 2011, 25, 4232-4240.	3.2	25
63	Concrete retrofitting using metakaolin geopolymer mortars and CFRP. Construction and Building Materials, 2011, 25, 3213-3221.	3.2	95
64	Effect of temperature on RC elements strengthened with CFRP. Materials and Structures/Materiaux Et Constructions, 2008, 41, 1133-1142.	1.3	13
65	Coatings for Concrete Protection against Aggressive Environments. Journal of Advanced Concrete Technology, 2008, 6, 243-250.	0.8	38
66	Mechanical behaviour of Portland cement mortars with incorporation of Al-containing salt slags. Cement and Concrete Research, 2000, 30, 1131-1138.	4.6	50
67	Durability of polymeric pipes in contact with domestic products. Construction and Building Materials, 1999, 13, 155-157.	3.2	5
68	A study of the adhesion between hydraulic mortars and concrete. Journal of Adhesion Science and Technology, 1998, 12, 1243-1251.	1.4	20
69	Essais d'adhérence des époxydes au béton hydraulique (Tests on bonding between epoxies and concrete). Journal of Adhesion Science and Technology, 1998, 12, 1243-1251.	0.3	0
70	Concrete Retrofitting Using CFRP and Geopolymer Mortars. Materials Science Forum, 0, 730-732, 427-432.	0.3	5
71	Influence of Adding Encapsulated Phase Change Materials in Aerial Lime Based Mortars. Advanced Materials Research, 0, 687, 255-261.	0.3	28
72	Properties of Polymer Modified Concrete in Fresh and Hardened State. Advanced Materials Research, 0, 687, 204-212.	0.3	9

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73	Development of Foam One-Part Geopolymers with Enhanced Thermal Insulation Performance and Low Carbon Dioxide Emissions. <i>Advanced Materials Research</i> , 0, 1129, 565-572.	0.3	14
74	Durability Properties of Five Years Aged Lightweight Concretes Containing Rubber Aggregates. <i>Periodica Polytechnica: Civil Engineering</i> , 0, , .	0.6	8