

Vanderley John

List of Publications by Year in descending order

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Version: 2024-02-01

111
papers

5,940
citations

145106

33
h-index

87275

74
g-index

114
all docs

114
docs citations

114
times ranked

4697
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of environment and carbonation of fiber cement tiles on the reflectance of a cool surface exposed in four Brazilian cities. <i>Energy and Buildings</i> , 2022, 254, 111550.	3.1	1
2	Carbon dioxide emissions, embodied energy, material use efficiency of lumber manufactured from planted forest in Brazil. <i>Journal of Building Engineering</i> , 2022, 52, 104349.	1.6	4
3	MgAl-Layered Double Hydroxide Nanoparticles as Smart Nanofillers To Control the Rheological Properties and the Residual Porosity of Cement-Based Materials. <i>ACS Applied Nano Materials</i> , 2022, 5, 7896-7907.	2.4	6
4	Decontamination and re-use of surgical masks and respirators during the COVID-19 pandemic. <i>International Journal of Infectious Diseases</i> , 2021, 104, 320-328.	1.5	12
5	CO2 footprint of Amazon lumber: A meta-analysis. <i>Resources, Conservation and Recycling</i> , 2021, 167, 105380.	5.3	6
6	Filtration efficiency of a large set of COVID-19 face masks commonly used in Brazil. <i>Aerosol Science and Technology</i> , 2021, 55, 1028-1041.	1.5	37
7	Potential CO ₂ reduction and uptake due to industrialization and efficient cement use in Brazil by 2050. <i>Journal of Industrial Ecology</i> , 2021, 25, 344-358.	2.8	18
8	Effects of filler mineralogy on the compressive strength of cementitious mortars. <i>Construction and Building Materials</i> , 2021, 299, 124363.	3.2	5
9	Stakeholder influence on global warming potential of reinforced concrete structure. <i>Journal of Building Engineering</i> , 2021, 44, 102979.	1.6	5
10	Microstructures of Building Materials from Huaca De La Luna, Peru. <i>International Journal of Architectural Heritage</i> , 2020, 14, 256-273.	1.7	3
11	Influence of cement strength class on environmental impact of concrete. <i>Resources, Conservation and Recycling</i> , 2020, 163, 105075.	5.3	15
12	Environmental impacts and decarbonization strategies in the cement and concrete industries. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 559-573.	12.2	483
13	Primary data priorities for the life cycle inventory of construction products: focus on foreground processes. <i>International Journal of Life Cycle Assessment</i> , 2020, 25, 980-997.	2.2	18
14	Efficiency of Portland-pozzolana cements: Water demand, chemical reactivity and environmental impact. <i>Construction and Building Materials</i> , 2020, 247, 118546.	3.2	34
15	Effects of natural aging on the properties of a cool surface exposed in different Brazilian environments. <i>Energy and Buildings</i> , 2020, 221, 110031.	3.1	13
16	Evaluation of the use of crushed returned concrete as recycled aggregate in ready-mix concrete plant. <i>Journal of Building Engineering</i> , 2020, 31, 101408.	1.6	11
17	Comparing the Ecoefficiency of Cements Containing Calcined Clay and Limestone Filler. <i>RILEM Bookseries</i> , 2020, , 245-255.	0.2	3
18	Ulcer pressure prevention and opportunity for innovation during the COVID-19 crisis. <i>Clinics</i> , 2020, 75, e2292.	0.6	4

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19	AVALIAÇÃO DO CICLO DE VIDA DO CONCRETO DOSADO EM CENTRAL COM BASE EM DADOS DA INDÚSTRIA BRASILEIRA. <i>CONCRETO & Construções</i> , 2020, XLVIII, 91-97.	0.2	4
20	Material flow analysis and material use efficiency of Brazil's mortar and concrete supply chain. <i>Journal of Industrial Ecology</i> , 2019, 23, 1396-1409.	2.8	10
21	Variability of environmental impact of ready-mix concrete: a case study for Brazil. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 323, 012132.	0.2	9
22	Rethinking cement standards: Opportunities for a better future. <i>Cement and Concrete Research</i> , 2019, 124, 105832.	4.6	56
23	Waste generation from the production of ready-mixed concrete. <i>Waste Management</i> , 2019, 94, 146-152.	3.7	24
24	Evaluation of Portland pozzolan blended cements containing diatomaceous earth. <i>Ceramica</i> , 2019, 65, 75-86.	0.3	8
25	Global Concrete Water Footprint. , 2019, , .		1
26	Consumption of superplasticizer admixture for different cements and their binder efficiency. <i>Revista IBRACON De Estruturas E Materiais</i> , 2019, 12, 1260-1287.	0.3	1
27	Fillers in cementitious materials – Experience, recent advances and future potential. <i>Cement and Concrete Research</i> , 2018, 114, 65-78.	4.6	123
28	Education for sustainable use of cement based materials. <i>Cement and Concrete Research</i> , 2018, 114, 103-114.	4.6	27
29	Carbon dioxide reduction potential in the global cement industry by 2050. <i>Cement and Concrete Research</i> , 2018, 114, 115-124.	4.6	359
30	Effect of mixing method on the mini-slump spread of Portland cement pastes. <i>Revista IBRACON De Estruturas E Materiais</i> , 2018, 11, 410-431.	0.3	11
31	The Era of Engineering Grand Challenges. <i>Polytechnica</i> , 2018, 1, 1-3.	2.1	0
32	Eco-efficient cements: Potential economically viable solutions for a low-CO2 cement-based materials industry. <i>Cement and Concrete Research</i> , 2018, 114, 2-26.	4.6	1,390
33	Retracción química de pastas de cemento con incorporación de metacaolín. <i>Ambiente Construido</i> , 2018, 18, 327-339.	0.2	3
34	Roughness, wettability and water absorption of water repellent treated recycled aggregates. <i>Construction and Building Materials</i> , 2017, 146, 502-513.	3.2	57
35	Life cycle water inventory in concrete production – A review. <i>Resources, Conservation and Recycling</i> , 2017, 122, 227-250.	5.3	31
36	Logging residues and CO ₂ of Brazilian Amazon timber: Two case studies of forest harvesting. <i>Resources, Conservation and Recycling</i> , 2017, 122, 280-285.	5.3	31

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37	Influence of high contents of limestone fines on rheological behaviour and bond strength of cement-based mortars. <i>Construction and Building Materials</i> , 2017, 156, 1114-1126.	3.2	29
38	Influence of packing and dispersion of particles on the cement content of concretes. <i>Revista IBRACON De Estruturas E Materiais</i> , 2017, 10, 998-1024.	0.3	15
39	Efeito do teor e da dispersão de fino calcário na aderência substrato-matriz cimentícia. <i>Ambiente Construção</i> , 2016, 16, 21-34.	0.2	3
40	Viscosity prediction of cement-filler suspensions using interference model: A route for binder efficiency enhancement. <i>Cement and Concrete Research</i> , 2016, 84, 8-19.	4.6	43
41	Rationalizing the impact of aging on fiber-matrix interface and stability of cement-based composites submitted to carbonation at early ages. <i>Journal of Materials Science</i> , 2016, 51, 7929-7943.	1.7	21
42	Variability in the life cycle of concrete block CO2 emissions and cumulative energy demand in the Brazilian Market. <i>Construction and Building Materials</i> , 2016, 114, 588-594.	3.2	24
43	Rapid method for measuring the water absorption of recycled aggregates. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016, 49, 4069-4084.	1.3	12
44	Effect of silver nanoparticle and TiO2 coatings on biofilm formation on four types of modern glass. <i>International Biodeterioration and Biodegradation</i> , 2016, 108, 175-180.	1.9	15
45	The performance of a self-cleaning cool cementitious surface. <i>Energy and Buildings</i> , 2016, 114, 200-205.	3.1	22
46	The Bond Strength Behavior of Polymer-modified Mortars During a Wetting and Drying Process. <i>Materials Research</i> , 2015, 18, 1354-1361.	0.6	7
47	Relations among electrical resistivity, chemical and autogenous shrinkage of cement pastes. <i>Advances in Cement Research</i> , 2015, 27, 175-183.	0.7	11
48	Sheath Bamboo Leaves Used at High Pressure Architect. <i>Key Engineering Materials</i> , 2015, 668, 92-99.	0.4	0
49	Concrete Water Footprint Assessment Methodologies. <i>Key Engineering Materials</i> , 2015, 668, 247-254.	0.4	5
50	Susceptibility of biocalcite-modified fiber cement to biodeterioration. <i>International Biodeterioration and Biodegradation</i> , 2015, 103, 215-220.	1.9	8
51	Microbial colonization affects the efficiency of photovoltaic panels in a tropical environment. <i>Journal of Environmental Management</i> , 2015, 157, 160-167.	3.8	41
52	Effects of replacement of binder content on bond strength of mortars. <i>Revista IBRACON De Estruturas E Materiais</i> , 2015, 8, 66-87.	0.3	0
53	Estratégias para a minimização da emissão de CO2 de concretos. <i>Ambiente Construção</i> , 2014, 14, 167-181.	0.2	17
54	Pintura à base de cal como alternativa de revestimento frio. <i>Ambiente Construção</i> , 2014, 14, 149-157.	0.2	3

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55	Caracterizaç�o reol�gica de suspens�es ciment�cias mistas com cales ou filitos. Ambiente Constru�do, 2014, 14, 75-84.	0.2	7
56	Characterisation of rendering mortars by squeeze-flow and rotational rheometry. Cement and Concrete Research, 2014, 57, 79-87.	4.6	58
57	Energy and CO2 from high performance recycled aggregate production. Resources, Conservation and Recycling, 2014, 90, 21-33.	5.3	114
58	Mineralogical and microstructural changes promoted by accelerated carbonation and ageing cycles of hybrid fiber�cement composites. Construction and Building Materials, 2014, 68, 750-756.	3.2	60
59	Fungal and phototroph growth on fiber cement roofs and its influence on solar reflectance in a tropical climate. International Biodeterioration and Biodegradation, 2014, 95, 332-337.	1.9	13
60	Production of recycled sand from construction and demolition waste. Construction and Building Materials, 2013, 40, 1168-1173.	3.2	95
61	Lower binder intensity eco-efficient concretes. , 2013, , 26-44.		7
62	Modelagem simplificada para estimativa do potencial de penetra�o de part�culas em substratos porosos. Ambiente Constru�do, 2013, 13, 25-34.	0.2	1
63	Separa�o �ptica do material cer�mico dos agregados mistos de res�duos de constru�o e demoli�o. Ambiente Constru�do, 2013, 13, 61-73.	0.2	9
64	Eco-efficient concrete. , 2013, , .		43
65	Use of Fine Fraction. RILEM State-of-the-Art Reports, 2013, , 195-227.	0.3	1
66	Prospects for the Use of Wood in Residential Construction in Brazil - First Results. Key Engineering Materials, 2012, 517, 247-260.	0.4	4
67	Effect of EVA on the fresh properties of cement paste. Cement and Concrete Composites, 2012, 34, 255-260.	4.6	78
68	Resistance of Cyanobacterial Fouling on Architectural Paint Films to Cleaning by Water Jet. Current Microbiology, 2012, 64, 312-316.	1.0	3
69	Effect of culture medium on biocalcification by Pseudomonas Putida, Lysinibacillus Sphaericus and Bacillus Subtilis. Brazilian Journal of Microbiology, 2011, 42, 499-507.	0.8	31
70	Sand bioconsolidation through the precipitation of calcium carbonate by two ureolytic bacteria. Materials Letters, 2011, 65, 1730-1733.	1.3	33
71	Discoloration and fungal growth on three fiber cement formulations exposed in urban, rural and coastal zones. Building and Environment, 2011, 46, 324-330.	3.0	22
72	The influence of moisture on the deformability of cement�polymer adhesive mortar. Construction and Building Materials, 2011, 25, 2948-2954.	3.2	33

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73	Biodeterioration of painted mortar surfaces in tropical urban and coastal situations: Comparison of four paint formulations. <i>International Biodeterioration and Biodegradation</i> , 2011, 65, 669-674.	1.9	39
74	Hybrid Reinforcement of Sisal and Polypropylene Fibers in Cement-Based Composites. <i>Journal of Materials in Civil Engineering</i> , 2011, 23, 177-187.	1.3	39
75	Effect of culture medium on biocalcification by <i>Pseudomonas Putida</i> , <i>Lysinibacillus Sphaericus</i> and <i>Bacillus Subtilis</i> . <i>Brazilian Journal of Microbiology</i> , 2011, 42, 499-507.	0.8	14
76	EmissãŁo de CO2 do transporte da madeira nativa da AmazŁnia. <i>Ambiente ConstruŁdo</i> , 2011, 11, 157-172.	0.2	10
77	On the classification of mixed construction and demolition waste aggregate by porosity and its impact on the mechanical performance of concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 2010, 43, 519-528.	1.3	75
78	Climate as the most important factor determining anti-fungal biocide performance in paint films. <i>Science of the Total Environment</i> , 2010, 408, 5878-5886.	3.9	44
79	Estimating thermal performance of cool colored paints. <i>Energy and Buildings</i> , 2010, 42, 17-22.	3.1	181
80	Measuring the eco-efficiency of cement use. <i>Cement and Concrete Composites</i> , 2010, 32, 555-562.	4.6	450
81	Exploring the potential of functionally graded materials concept for the development of fiber cement. <i>Construction and Building Materials</i> , 2010, 24, 140-146.	3.2	78
82	Special Issue on Inorganic-bonded Fiber Composites. <i>Construction and Building Materials</i> , 2010, 24, 129.	3.2	9
83	ComposiŁŁo quŁmica de agregados mistos de resŁduos de construŁŁo e demoliŁŁo do Estado de SŁo Paulo. <i>Revista Escola De Minas</i> , 2010, 63, 339-346.	0.1	11
84	Mixture Screening Design to Choose Formulations for Functionally Graded Fiber Cements. <i>Materials Science Forum</i> , 2009, 631-632, 65-70.	0.3	1
85	Chemical e mineralogical characterization of C&D waste recycled aggregates from SŁo Paulo, Brazil. <i>Waste Management</i> , 2009, 29, 721-730.	3.7	95
86	Carbide lime and industrial hydrated lime characterization. <i>Powder Technology</i> , 2009, 195, 143-149.	2.1	85
87	Effect of HMEC on the consolidation of cement pastes: Isothermal calorimetry versus oscillatory rheometry. <i>Cement and Concrete Research</i> , 2009, 39, 440-445.	4.6	75
88	Rheological behavior of mortars under different squeezing rates. <i>Cement and Concrete Research</i> , 2009, 39, 748-753.	4.6	61
89	Bond strength and transversal deformation aging on cement-polymer adhesive mortar. <i>Construction and Building Materials</i> , 2009, 23, 1022-1027.	3.2	39
90	Squeeze flow as a tool for developing optimized gypsum plasters. <i>Construction and Building Materials</i> , 2009, 23, 1349-1353.	3.2	19

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91	Influência do ligante na retração por secagem em fibrocimento. Ambiente Construído, 2009, 9, 7-16.	0.2	3
92	Caracterização reológica de pasta cimentícia: associação de técnicas complementares. Ambiente Construído, 2009, 9, 37-48.	0.2	14
93	Long-term aging of fiber-cement corrugated sheets – The effect of carbonation, leaching and acid rain. Cement and Concrete Composites, 2008, 30, 255-265.	4.6	52
94	The FGM Concept in the Development of Fiber Cement Components. AIP Conference Proceedings, 2008, , .	0.3	2
95	Influência da técnica de dispersão nas propriedades de sílica ativa. Cerâmica, 2008, 54, 456-461.	0.3	8
96	Desenvolvimento de PVC reforçado com resíduos de Pinus para substituir madeira convencional em diversas aplicações. Polimeros, 2006, 16, 1-11.	0.2	12
97	The effect of different mineral additions and synthetic fiber contents on properties of cement based composites. Cement and Concrete Composites, 2006, 28, 555-563.	4.6	43
98	Developments on vegetable fibre-cement based materials in São Paulo, Brazil: an overview. Cement and Concrete Composites, 2005, 27, 527-536.	4.6	255
99	Durability of slag mortar reinforced with coconut fibre. Cement and Concrete Composites, 2005, 27, 565-574.	4.6	108
100	Mould and phototroph growth on masonry façades after repainting. Materials and Structures/Materiaux Et Constructions, 2004, 37, 472-479.	1.3	15
101	Statistical analysis of fungicide activity in paint films on two buildings. Surface Coatings International Part B: Coatings Transactions, 2004, 87, 261-264.	0.3	5
102	Mould and phototroph growth on masonry façades after repainting. Materials and Structures/Materiaux Et Constructions, 2004, 37, 472-479.	1.3	6
103	Weathering of vegetable fibre-clinker free cement composites. Materials and Structures/Materiaux Et Constructions, 2002, 35, 64-68.	1.3	10
104	Fungal colonization and succession on newly painted buildings and the effect of biocide. FEMS Microbiology Ecology, 2002, 39, 165-173.	1.3	100
105	Pore size distribution of hydrated cement pastes modified with polymers. Cement and Concrete Research, 2001, 31, 1177-1184.	4.6	164
106	Research & development methodology for recycling residues as building materials – a proposal. Waste Management, 2001, 21, 213-219.	3.7	36
107	Durability evaluation of vegetable fibre reinforced materials. Building Research and Information, 1992, 20, 233-235.	2.0	35
108	Thermo-Mechanical Treatment to Improve Properties of Sisal Fibres for Composites. Materials Science Forum, 0, 636-637, 253-259.	0.3	11

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109	Developing Low CO ₂ Concretes: Is Clinker Replacement Sufficient? The Need of Cement Use Efficiency Improvement. Key Engineering Materials, 0, 517, 342-351.	0.4	21
110	Application of fracture mechanics for the characterization of poly(vinyl chloride) pipes. II . Evaluation of a ring-type specimen for fracture mechanics testing. Journal of Vinyl and Additive Technology, 0, , .	1.8	2
111	SEPARABILIDADE DE AGREGADOS RECICLADOS PROVENIENTES DE RESÍDUOS DE CONSTRUÇÃO E DEMOLIÇÃO DE DIFERENTES ORIGENS. Holos, 0, 3, 341.	0.0	0