

# Vanderley John

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106  
papers

3,547  
citations

29  
h-index

58  
g-index

113  
ext. papers

4,581  
ext. citations

5.1  
avg, IF

5.93  
L-index

#	Paper	IF	Citations
106	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> , <b>2022</b> , 254, 111550	7	0
105	Carbon dioxide emissions, embodied energy, material use efficiency of lumber manufactured from planted forest in Brazil. <i>Journal of Building Engineering</i> , <b>2022</b> , 52, 104349	5.2	1
104	Decontamination and re-use of surgical masks and respirators during the COVID-19 pandemic. <i>International Journal of Infectious Diseases</i> , <b>2021</b> , 104, 320-328	10.5	6
103	CO2 footprint of Amazon lumber: A meta-analysis. <i>Resources, Conservation and Recycling</i> , <b>2021</b> , 167, 105380	11.9	2
102	Filtration efficiency of a large set of COVID-19 face masks commonly used in Brazil. <i>Aerosol Science and Technology</i> , <b>2021</b> , 55, 1028-1041	3.4	14
101	Potential CO2 reduction and uptake due to industrialization and efficient cement use in Brazil by 2050. <i>Journal of Industrial Ecology</i> , <b>2021</b> , 25, 344-358	7.2	2
100	Effects of filler mineralogy on the compressive strength of cementitious mortars. <i>Construction and Building Materials</i> , <b>2021</b> , 299, 124363	6.7	1
99	Stakeholder influence on global warming potential of reinforced concrete structure. <i>Journal of Building Engineering</i> , <b>2021</b> , 44, 102979	5.2	1
98	Primary data priorities for the life cycle inventory of construction products: focus on foreground processes. <i>International Journal of Life Cycle Assessment</i> , <b>2020</b> , 25, 980-997	4.6	3
97	Efficiency of Portland-pozzolana cements: Water demand, chemical reactivity and environmental impact. <i>Construction and Building Materials</i> , <b>2020</b> , 247, 118546	6.7	13
96	Effects of natural aging on the properties of a cool surface exposed in different Brazilian environments. <i>Energy and Buildings</i> , <b>2020</b> , 221, 110031	7	7
95	Ulcer pressure prevention and opportunity for innovation during the COVID-19 crisis. <i>Clinics</i> , <b>2020</b> , 75, e2292	2.3	3
94	Comparing the Ecoefficiency of Cements Containing Calcined Clay and Limestone Filler. <i>RILEM Bookseries</i> , <b>2020</b> , 245-255	0.5	1
93	Influence of cement strength class on environmental impact of concrete. <i>Resources, Conservation and Recycling</i> , <b>2020</b> , 163, 105075	11.9	7
92	Environmental impacts and decarbonization strategies in the cement and concrete industries. <i>Nature Reviews Earth &amp; Environment</i> , <b>2020</b> , 1, 559-573	30.2	126
91	Microstructures of Building Materials from Huaca De La Luna, Peru. <i>International Journal of Architectural Heritage</i> , <b>2020</b> , 14, 256-273	2.1	0
90	Evaluation of the use of crushed returned concrete as recycled aggregate in ready-mix concrete plant. <i>Journal of Building Engineering</i> , <b>2020</b> , 31, 101408	5.2	7

89	Rethinking cement standards: Opportunities for a better future. <i>Cement and Concrete Research</i> , <b>2019</b> , 124, 105832	10.3	24
88	Waste generation from the production of ready-mixed concrete. <i>Waste Management</i> , <b>2019</b> , 94, 146-152	8.6	13
87	Evaluation of Portland pozzolan blended cements containing diatomaceous earth. <i>Ceramica</i> , <b>2019</b> , 65, 75-86	1	3
86	Material flow analysis and material use efficiency of Brazil's mortar and concrete supply chain. <i>Journal of Industrial Ecology</i> , <b>2019</b> , 23, 1396-1409	7.2	8
85	Variability of environmental impact of ready-mix concrete: a case study for Brazil. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 323, 012132	0.3	4
84	Consumption of superplasticizer admixture for different cements and their binder efficiency. <i>Revista IBRACON De Estruturas E Materiais</i> , <b>2019</b> , 12, 1260-1287	0.5	
83	Fillers in cementitious materials – Experience, recent advances and future potential. <i>Cement and Concrete Research</i> , <b>2018</b> , 114, 65-78	10.3	66
82	Education for sustainable use of cement based materials. <i>Cement and Concrete Research</i> , <b>2018</b> , 114, 103-114	11.4	15
81	Carbon dioxide reduction potential in the global cement industry by 2050. <i>Cement and Concrete Research</i> , <b>2018</b> , 114, 115-124	10.3	190
80	Retraccião química de pastas de cimento con incorporación de metacaolín. <i>Ambiente Construido</i> , <b>2018</b> , 18, 327-339	0.4	1
79	Effect of mixing method on the mini-slump spread of Portland cement pastes. <i>Revista IBRACON De Estruturas E Materiais</i> , <b>2018</b> , 11, 410-431	0.5	7
78	The Era of Engineering Grand Challenges. <i>Polytechnica</i> , <b>2018</b> , 1, 1-3	1	
77	Eco-efficient cements: Potential economically viable solutions for a low-CO2 cement-based materials industry. <i>Cement and Concrete Research</i> , <b>2018</b> , 114, 2-26	10.3	647
76	Roughness, wettability and water absorption of water repellent treated recycled aggregates. <i>Construction and Building Materials</i> , <b>2017</b> , 146, 502-513	6.7	36
75	Life cycle water inventory in concrete production – A review. <i>Resources, Conservation and Recycling</i> , <b>2017</b> , 122, 227-250	11.9	22
74	Logging residues and CO <sub>2</sub> of Brazilian Amazon timber: Two case studies of forest harvesting. <i>Resources, Conservation and Recycling</i> , <b>2017</b> , 122, 280-285	11.9	17
73	Influence of high contents of limestone fines on rheological behaviour and bond strength of cement-based mortars. <i>Construction and Building Materials</i> , <b>2017</b> , 156, 1114-1126	6.7	14
72	Influence of packing and dispersion of particles on the cement content of concretes. <i>Revista IBRACON De Estruturas E Materiais</i> , <b>2017</b> , 10, 998-1024	0.5	5

71	The performance of a self-cleaning cool cementitious surface. <i>Energy and Buildings</i> , <b>2016</b> , 114, 200-205	7	15
70	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> , <b>2016</b> , 51, 7929-7943	4.3	15
69	Variability in the life cycle of concrete block CO <sub>2</sub> emissions and cumulative energy demand in the Brazilian Market. <i>Construction and Building Materials</i> , <b>2016</b> , 114, 588-594	6.7	19
68	Rapid method for measuring the water absorption of recycled aggregates. <i>Materials and Structures/Materiaux Et Constructions</i> , <b>2016</b> , 49, 4069-4084	3.4	10
67	Effect of silver nanoparticle and TiO <sub>2</sub> coatings on biofilm formation on four types of modern glass. <i>International Biodeterioration and Biodegradation</i> , <b>2016</b> , 108, 175-180	4.8	11
66	Efeito do teor e da dispersão de fino calcário na aderência substrato-matriz cimentícia. <i>Ambiente Construído</i> , <b>2016</b> , 16, 21-34	0.4	2
65	Viscosity prediction of cement-filler suspensions using interference model: A route for binder efficiency enhancement. <i>Cement and Concrete Research</i> , <b>2016</b> , 84, 8-19	10.3	29
64	Susceptibility of biocalcite-modified fiber cement to biodeterioration. <i>International Biodeterioration and Biodegradation</i> , <b>2015</b> , 103, 215-220	4.8	8
63	Microbial colonization affects the efficiency of photovoltaic panels in a tropical environment. <i>Journal of Environmental Management</i> , <b>2015</b> , 157, 160-7	7.9	27
62	The Bond Strength Behavior of Polymer-modified Mortars During a Wetting and Drying Process. <i>Materials Research</i> , <b>2015</b> , 18, 1354-1361	1.5	4
61	Relations among electrical resistivity, chemical and autogenous shrinkage of cement pastes. <i>Advances in Cement Research</i> , <b>2015</b> , 27, 175-183	1.8	8
60	Sheath Bamboo Leaves Used at High Pressure Architect. <i>Key Engineering Materials</i> , <b>2015</b> , 668, 92-99	0.4	
59	Concrete Water Footprint Assessment Methodologies. <i>Key Engineering Materials</i> , <b>2015</b> , 668, 247-254	0.4	2
58	Effects of replacement of binder content on bond strength of mortars. <i>Revista IBRACON De Estruturas E Materiais</i> , <b>2015</b> , 8, 66-87	0.5	
57	Energy and CO <sub>2</sub> from high performance recycled aggregate production. <i>Resources, Conservation and Recycling</i> , <b>2014</b> , 90, 21-33	11.9	76
56	Mineralogical and microstructural changes promoted by accelerated carbonation and ageing cycles of hybrid fiber-cement composites. <i>Construction and Building Materials</i> , <b>2014</b> , 68, 750-756	6.7	50
55	Fungal and phototroph growth on fiber cement roofs and its influence on solar reflectance in a tropical climate. <i>International Biodeterioration and Biodegradation</i> , <b>2014</b> , 95, 332-337	4.8	13
54	Estratégias para a minimização da emissão de CO <sub>2</sub> de concretos. <i>Ambiente Construído</i> , <b>2014</b> , 14, 167-181	0.4	13

53	Pintura base de cal como alternativa de revestimento frio. <i>Ambiente Construído</i> , <b>2014</b> , 14, 149-157	0.4	3
52	Caracterização reológica de suspensões cimentícias mistas com cales ou filitos. <i>Ambiente Construído</i> , <b>2014</b> , 14, 75-84	0.4	4
51	Characterisation of rendering mortars by squeeze-flow and rotational rheometry. <i>Cement and Concrete Research</i> , <b>2014</b> , 57, 79-87	10.3	39
50	Production of recycled sand from construction and demolition waste. <i>Construction and Building Materials</i> , <b>2013</b> , 40, 1168-1173	6.7	62
49	Lower binder intensity eco-efficient concretes <b>2013</b> , 26-44		4
48	Modelagem simplificada para estimativa do potencial de penetração de partículas em substratos porosos. <i>Ambiente Construído</i> , <b>2013</b> , 13, 25-34	0.4	1
47	Separação física do material cerâmico dos agregados mistos de resíduos de construção e demolição. <i>Ambiente Construído</i> , <b>2013</b> , 13, 61-73	0.4	6
46	Eco-efficient concrete <b>2013</b> ,		24
45	Use of Fine Fraction. <i>RILEM State-of-the-Art Reports</i> , <b>2013</b> , 195-227	1.3	0
44	Resistance of cyanobacterial fouling on architectural paint films to cleaning by water jet. <i>Current Microbiology</i> , <b>2012</b> , 64, 312-6	2.4	1
43	Effect of EVA on the fresh properties of cement paste. <i>Cement and Concrete Composites</i> , <b>2012</b> , 34, 255-260	2.0	56
42	Prospects for the Use of Wood in Residential Construction in Brazil - First Results. <i>Key Engineering Materials</i> , <b>2012</b> , 517, 247-260	0.4	4
41	Developing Low CO2 Concretes: Is Clinker Replacement Sufficient? The Need of Cement Use Efficiency Improvement. <i>Key Engineering Materials</i> , <b>2012</b> , 517, 342-351	0.4	13
40	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> , <b>2011</b> , 42, 499-507	2.2	24
39	Sand bioconsolidation through the precipitation of calcium carbonate by two ureolytic bacteria. <i>Materials Letters</i> , <b>2011</b> , 65, 1730-1733	3.3	26
38	Discoloration and fungal growth on three fiber cement formulations exposed in urban, rural and coastal zones. <i>Building and Environment</i> , <b>2011</b> , 46, 324-330	6.5	16
37	The influence of moisture on the deformability of cement-polymer adhesive mortar. <i>Construction and Building Materials</i> , <b>2011</b> , 25, 2948-2954	6.7	30
36	Biodeterioration of painted mortar surfaces in tropical urban and coastal situations: Comparison of four paint formulations. <i>International Biodeterioration and Biodegradation</i> , <b>2011</b> , 65, 669-674	4.8	29

35	Hybrid Reinforcement of Sisal and Polypropylene Fibers in Cement-Based Composites. <i>Journal of Materials in Civil Engineering</i> , <b>2011</b> , 23, 177-187	3	32
34	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> , <b>2011</b> , 42, 499-507	2.2	11
33	Emissõ de CO2 do transporte da madeira nativa da Amazõia. <i>Ambiente Construído</i> , <b>2011</b> , 11, 157-172	0.4	6
32	Composiõ quõmica de agregados mistos de resíduos de construõ e demoliõ do Estado de Sõ Paulo. <i>Revista Escola De Minas</i> , <b>2010</b> , 63, 339-346		5
31	Thermo-Mechanical Treatment to Improve Properties of Sisal Fibres for Composites. <i>Materials Science Forum</i> , <b>2010</b> , 636-637, 253-259	0.4	8
30	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> , <b>2010</b> , 43, 519-528	3.4	66
29	Climate as the most important factor determining anti-fungal biocide performance in paint films. <i>Science of the Total Environment</i> , <b>2010</b> , 408, 5878-86	10.2	35
28	Estimating thermal performance of cool colored paints. <i>Energy and Buildings</i> , <b>2010</b> , 42, 17-22	7	151
27	Measuring the eco-efficiency of cement use. <i>Cement and Concrete Composites</i> , <b>2010</b> , 32, 555-562	8.6	290
26	Exploring the potential of functionally graded materials concept for the development of fiber cement. <i>Construction and Building Materials</i> , <b>2010</b> , 24, 140-146	6.7	63
25	Special Issue on Inorganic-bonded Fiber Composites. <i>Construction and Building Materials</i> , <b>2010</b> , 24, 129	6.7	9
24	Mixture Screening Design to Choose Formulations for Functionally Graded Fiber Cements. <i>Materials Science Forum</i> , <b>2009</b> , 631-632, 65-70	0.4	1
23	Chemical-mineralogical characterization of C&D waste recycled aggregates from Sõ Paulo, Brazil. <i>Waste Management</i> , <b>2009</b> , 29, 721-30	8.6	66
22	Carbide lime and industrial hydrated lime characterization. <i>Powder Technology</i> , <b>2009</b> , 195, 143-149	5.2	57
21	Effect of HMEC on the consolidation of cement pastes: Isothermal calorimetry versus oscillatory rheometry. <i>Cement and Concrete Research</i> , <b>2009</b> , 39, 440-445	10.3	58
20	Rheological behavior of mortars under different squeezing rates. <i>Cement and Concrete Research</i> , <b>2009</b> , 39, 748-753	10.3	39
19	Bond strength and transversal deformation aging on cement-polymer adhesive mortar. <i>Construction and Building Materials</i> , <b>2009</b> , 23, 1022-1027	6.7	34
18	Squeeze flow as a tool for developing optimized gypsum plasters. <i>Construction and Building Materials</i> , <b>2009</b> , 23, 1349-1353	6.7	13

17	Influência do ligante na retração por secagem em fibrocimento. <i>Ambiente Construído</i> , <b>2009</b> , 9, 7-16	0.4	2
16	Caracterização reológica de pasta cimentícia: associação de técnicas complementares. <i>Ambiente Construído</i> , <b>2009</b> , 9, 37-48	0.4	10
15	The FGM Concept in the Development of Fiber Cement Components. <i>AIP Conference Proceedings</i> , <b>2008</b> ,	0	1
14	Influência da técnica de dispersão nas propriedades de sílica ativa. <i>Cerâmica</i> , <b>2008</b> , 54, 456-461	1	6
13	Long-term aging of fiber-cement corrugated sheets – The effect of carbonation, leaching and acid rain. <i>Cement and Concrete Composites</i> , <b>2008</b> , 30, 255-265	8.6	41
12	Desenvolvimento de PVC reforçado com resíduos de Pinus para substituir madeira convencional em diversas aplicações. <i>Polímeros</i> , <b>2006</b> , 16, 1-11	1.6	9
11	The effect of different mineral additions and synthetic fiber contents on properties of cement based composites. <i>Cement and Concrete Composites</i> , <b>2006</b> , 28, 555-563	8.6	33
10	Developments on vegetable fibre/cement based materials in São Paulo, Brazil: an overview. <i>Cement and Concrete Composites</i> , <b>2005</b> , 27, 527-536	8.6	207
9	Durability of slag mortar reinforced with coconut fibre. <i>Cement and Concrete Composites</i> , <b>2005</b> , 27, 565-574	8.6	86
8	Mould and phototroph growth on masonry façades after repainting. <i>Materials and Structures/Materiaux Et Constructions</i> , <b>2004</b> , 37, 472-479	3.4	13
7	Statistical analysis of fungicide activity in paint films on two buildings. <i>Surface Coatings International Part B: Coatings Transactions</i> , <b>2004</b> , 87, 261-264		5
6	Mould and phototroph growth on masonry façades after repainting. <i>Materials and Structures/Materiaux Et Constructions</i> , <b>2004</b> , 37, 472-479	3.4	6
5	Weathering of vegetable fibre-clinker free cement composites. <i>Materials and Structures/Materiaux Et Constructions</i> , <b>2002</b> , 35, 64-68	3.4	9
4	Fungal colonization and succession on newly painted buildings and the effect of biocide. <i>FEMS Microbiology Ecology</i> , <b>2002</b> , 39, 165-73	4.3	85
3	Pore size distribution of hydrated cement pastes modified with polymers. <i>Cement and Concrete Research</i> , <b>2001</b> , 31, 1177-1184	10.3	120
2	Research & development methodology for recycling residues as building materials—a proposal. <i>Waste Management</i> , <b>2001</b> , 21, 213-9	8.6	28
1	Durability evaluation of vegetable fibre reinforced materials. <i>Building Research and Information</i> , <b>1992</b> , 20, 233-235	4.3	30