Henk M Jonkers

List of Publications by Year
in descending order

23 papers	2,868 citations	623734 14 h-index	677142 22 g-index
23 all docs	23 docs citations	23 times ranked	1759 citing authors

#	Article	IF	Citations
1	Influence of self-healing induced by polylactic-acid and alkanoates-derivates precursors on transport properties and chloride penetration resistance of sound and cracked mortar specimens. Construction and Building Materials, 2022, 319, 126081.	7.2	9
2	Assessment of Functional Performance, Self-Healing Properties and Degradation Resistance of Poly-Lactic Acid and Polyhydroxyalkanoates Composites. Polymers, 2022, 14, 926.	4.5	0
3	Gas chromatography to detect bacteria-based self-healing agents in concrete. MATEC Web of Conferences, 2022, 361, 07004.	0.2	1
4	From waste to self-healing concrete: A proof-of-concept of a new application for polyhydroxyalkanoate. Resources, Conservation and Recycling, 2021, 164, 105206.	10.8	35
5	On the Applicability of a Precursor Derived from Organic Waste Streams for Bacteria-Based Self-Healing Concrete. Frontiers in Built Environment, 2021, 7, .	2.3	8
6	Self-healing capacity of mortars with added-in bio-plastic bacteria-based agents: Characterization and quantification through micro-scale techniques. Construction and Building Materials, 2021, 297, 123793.	7.2	14
7	Assessment of the selfâ€healing capacity of cementitious materials through active thin sections. Journal of Microscopy, 2021, , .	1.8	2
8	Encapsulation Techniques and Test Methods of Evaluating the Bacteria-Based Self-Healing Efficiency of Concrete: A Literature Review. Nordic Concrete Research, 2020, 62, 63-85.	0.6	10
9	An Improved Test for Generating Rapid, Accurate, and Reliable Crack Permeability Data for Cementitious Materials. International Journal of Civil Engineering, 2019, 17, 645-652.	2.0	7
10	Volume Fraction, Thickness, and Permeability of the Sealing Layer in Microbial Self-Healing Concrete Containing Biogranules. Frontiers in Built Environment, 2018, 4, .	2.3	20
11	A Review of Selfâ€Healing Concrete for Damage Management of Structures. Advanced Materials Interfaces, 2018, 5, 1800074.	3.7	412
12	Toward Bio-based geo- & Civil Engineering for a Sustainable Society. Procedia Engineering, 2017, 171, 168-175.	1.2	10
13	Bacillus sphaericus LMG 22257 is physiologically suitable for self-healing concrete. Applied Microbiology and Biotechnology, 2017, 101, 5101-5114.	3.6	109
14	A Bacteria-Based Self-Healing Cementitious Composite for Application in Low-Temperature Marine Environments. Biomimetics, 2017, 2, 13.	3.3	65
15	Bio-based Self-healing Mortar: An Experimental and Numerical Study. Journal of Advanced Concrete Technology, 2017, 15, 536-543.	1.8	28
16	Effect on Concrete Surface Water Absorption upon Addition of Lactate Derived Agent. Coatings, 2017, 7, 51.	2.6	24
17	Selection of Nutrient Used in Biogenic Healing Agent for Cementitious Materials. Frontiers in Materials, 2017, 4, .	2.4	24
18	A mathematical model for bacterial self-healing of cracks in concrete. Journal of Intelligent Material Systems and Structures, 2014, 25, 4-12.	2.5	39

#	Article	IF	Citations
19	Towards a Bacteria-Based Agent to Make Concrete Self-Healing. Materials Research Society Symposia Proceedings, 2012, 1488, 75.	0.1	3
20	Quantification of crack-healing in novel bacteria-based self-healing concrete. Cement and Concrete Composites, 2011, 33, 763-770.	10.7	780
21	Application of bacteria as self-healing agent for the development of sustainable concrete. Ecological Engineering, 2010, 36, 230-235.	3.6	1,041
22	Self Healing Concrete: A Biological Approach. Springer Series in Materials Science, 2007, , 195-204.	0.6	147
23	Photosynthesis-controlled calcification in a hypersaline microbial mat. Limnology and Oceanography, 2005, 50, 1836-1843.	3.1	80