Henk M Jonkers

List of Publications by Year
in descending order

23	2,868	623188	676716
papers	citations	14 h-index	22 g-index

23	23	23	1759
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Application of bacteria as self-healing agent for the development of sustainable concrete. Ecological Engineering, 2010, 36, 230-235.	1.6	1,041
2	Quantification of crack-healing in novel bacteria-based self-healing concrete. Cement and Concrete Composites, 2011, 33, 763-770.	4.6	780
3	A Review of Selfâ€Healing Concrete for Damage Management of Structures. Advanced Materials Interfaces, 2018, 5, 1800074.	1.9	412
4	Self Healing Concrete: A Biological Approach. Springer Series in Materials Science, 2007, , 195-204.	0.4	147
5	Bacillus sphaericus LMG 22257 is physiologically suitable for self-healing concrete. Applied Microbiology and Biotechnology, 2017, 101, 5101-5114.	1.7	109
6	Photosynthesis-controlled calcification in a hypersaline microbial mat. Limnology and Oceanography, 2005, 50, 1836-1843.	1.6	80
7	A Bacteria-Based Self-Healing Cementitious Composite for Application in Low-Temperature Marine Environments. Biomimetics, 2017, 2, 13.	1.5	65
8	A mathematical model for bacterial self-healing of cracks in concrete. Journal of Intelligent Material Systems and Structures, 2014, 25, 4-12.	1.4	39
9	From waste to self-healing concrete: A proof-of-concept of a new application for polyhydroxyalkanoate. Resources, Conservation and Recycling, 2021, 164, 105206.	5.3	35
10	Bio-based Self-healing Mortar: An Experimental and Numerical Study. Journal of Advanced Concrete Technology, 2017, 15, 536-543.	0.8	28
11	Effect on Concrete Surface Water Absorption upon Addition of Lactate Derived Agent. Coatings, 2017, 7, 51.	1.2	24
12	Selection of Nutrient Used in Biogenic Healing Agent for Cementitious Materials. Frontiers in Materials, 2017, 4, .	1.2	24
13	Volume Fraction, Thickness, and Permeability of the Sealing Layer in Microbial Self-Healing Concrete Containing Biogranules. Frontiers in Built Environment, 2018, 4, .	1.2	20
14	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.	3.2	14
15	Toward Bio-based geo- & Civil Engineering for a Sustainable Society. Procedia Engineering, 2017, 171, 168-175.	1.2	10
16	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.	0.3	10
17	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.	3.2	9
18	On the Applicability of a Precursor Derived from Organic Waste Streams for Bacteria-Based Self-Healing Concrete. Frontiers in Built Environment, 2021, 7, .	1.2	8

#	Article	IF	Citations
19	An Improved Test for Generating Rapid, Accurate, and Reliable Crack Permeability Data for Cementitious Materials. International Journal of Civil Engineering, 2019, 17, 645-652.	0.9	7
20	Towards a Bacteria-Based Agent to Make Concrete Self-Healing. Materials Research Society Symposia Proceedings, 2012, 1488, 75.	0.1	3
21	Assessment of the selfâ€healing capacity of cementitious materials through active thin sections. Journal of Microscopy, 2021, , .	0.8	2
22	Gas chromatography to detect bacteria-based self-healing agents in concrete. MATEC Web of Conferences, 2022, 361, 07004.	0.1	1
23	Assessment of Functional Performance, Self-Healing Properties and Degradation Resistance of Poly-Lactic Acid and Polyhydroxyalkanoates Composites. Polymers, 2022, 14, 926.	2.0	0