Yusuf ÃaÄatay ErÅan

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Screening of bacteria and concrete compatible protection materials. Construction and Building Materials, 2015, 88, 196-203.	3.2	176
2	Microbially induced CaCO3 precipitation through denitrification: An optimization study in minimal nutrient environment. Biochemical Engineering Journal, 2015, 101, 108-118.	1.8	148
3	Application of microorganisms in concrete: a promising sustainable strategy to improve concrete durability. Applied Microbiology and Biotechnology, 2016, 100, 2993-3007.	1.7	146
4	Enhanced crack closure performance of microbial mortar through nitrate reduction. Cement and Concrete Composites, 2016, 70, 159-170.	4.6	138
5	Nitrate reducing CaCO3 precipitating bacteria survive in mortar and inhibit steel corrosion. Cement and Concrete Research, 2016, 83, 19-30.	4.6	122
6	Self-protected nitrate reducing culture for intrinsic repair of concrete cracks. Frontiers in Microbiology, 2015, 6, 1228.	1.5	75
7	Impact of air entraining admixtures on biogenic calcium carbonate precipitation and bacterial viability. Cement and Concrete Research, 2017, 98, 44-49.	4.6	64
8	Bio-Based Self-Healing Concrete: From Research to Field Application. Advances in Polymer Science, 2016, , 345-385.	0.4	44
9	Nitrite producing bacteria inhibit reinforcement bar corrosion in cementitious materials. Scientific Reports, 2018, 8, 14092.	1.6	27
10	Life cycle assessment of lightweight concrete containing recycled plastics and fly ash. European Journal of Environmental and Civil Engineering, 2022, 26, 2722-2735.	1.0	23
11	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
12	The effects of aerobic/anoxic period sequence on aerobic granulation and COD/N treatment efficiency. Bioresource Technology, 2013, 148, 149-156.	4.8	18
13	Microbially Induced Desaturation and Carbonate Precipitation through Denitrification: A Review. Applied Sciences (Switzerland), 2021, 11, 7842.	1.3	15
14	The effect of seed sludge type on aerobic granulation via anoxicâ€"aerobic operation. Environmental Technology (United Kingdom), 2014, 35, 2928-2939.	1.2	10
15	Overlooked Strategies in Exploitation of Microorganisms in the Field of Building Materials. Ecowise, 2019, , 19-45.	0.1	10
16	Durability of self-healing concrete. MATEC Web of Conferences, 2019, 289, 01003.	0.1	8
17	Production of concrete compatible biogranules for self-healing concrete applications. MATEC Web of Conferences, 2019, 289, 01002.	0.1	7
18	Surface Consolidation of Maastricht Limestone by Means of Bacillus Sphaericus under Varying Treatment Conditions. Journal of Materials in Civil Engineering, 2020, 32, 04020342.	1.3	7

#	Article	IF	Citations
19	Compatibility and Biomineralization Oriented Optimization of Nutrient Content in Nitrate-Reducing-Biogranules-Based Microbial Self-Healing Concrete. Sustainability, 2021, 13, 8990.	1.6	4
20	The effect of chemical- versus microbial-induced calcium carbonate mineralization on the enhancement of fine recycled concrete aggregate: A comparative study. Journal of Building Engineering, 2021, 44, 103316.	1.6	4
21	Self-Healing Performance of Biogranule Containing Microbial Self-Healing Concrete Under Intermittent Wet/Dry Cycles. Journal of Polytechnic, 2021, 24, 323-332.	0.4	4
22	Production and compatibility assessment of denitrifying biogranules tailored for self-healing concrete applications. Cement and Concrete Composites, 2022, 126, 104344.	4.6	1