Navdeep Kaur Dhami

List of Publications by Year
in descending order

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Version: 2024-02-01

45 papers	3,112 citations	230014 27 h-index	286692 43 g-index
46 all docs	46 docs citations	46 times ranked	2383 citing authors

#	Article	IF	Citations
1	Role of nanomaterials in protecting building materials from degradation and deterioration. , 2022, , 405-475.		9
2	Biopolymer-biocement composite treatment for stabilisation of soil against both current and wave erosion. Acta Geotechnica, 2022, 17, 5391-5410.	2.9	8
3	Experimental and Numerical Investigations on Confined Granular Systems Stabilized by Bacterial Cementation. International Journal of Geomechanics, 2021, 21, .	1.3	10
4	Environmental implications of the use of bio-cement treated recycled aggregate in concrete. Resources, Conservation and Recycling, 2021, 167, 105436.	5.3	55
5	Insights into the influence of cell concentration in design and development of microbially induced calcium carbonate precipitation (MICP) process. PLoS ONE, 2021, 16, e0254536.	1.1	23
6	Biocementation mediated by native microbes from Brahmaputra riverbank for mitigation of soil erodibility. Scientific Reports, 2021, 11, 15250.	1.6	23
7	Bio-composites treatment for mitigation of current-induced riverbank soil erosion. Science of the Total Environment, 2021, 800, 149513.	3.9	18
8	Influence of native ureolytic microbial community on biocementation potential of Sporosarcina pasteurii. Scientific Reports, 2021, 11, 20856.	1.6	16
9	Life Cycle Assessment of Biocement: An Emerging Sustainable Solution?. Sustainability, 2021, 13, 13878.	1.6	11
10	Experimental and numerical investigation on heap formation of granular soil sparsely cemented by bacterial calcification. Powder Technology, 2020, 360, 253-263.	2.1	4
11	A review on different treatment methods for enhancing the properties of recycled aggregates for sustainable construction materials. Construction and Building Materials, 2020, 233, 117894.	3.2	120
12	Understanding and creating biocementing beachrocks via biostimulation of indigenous microbial communities. Applied Microbiology and Biotechnology, 2020, 104, 3655-3673.	1.7	16
13	Healing fine cracks in concrete with bacterial cement for an advanced non-destructive monitoring. Construction and Building Materials, 2020, 242, 118151.	3.2	33
14	Enhanced thermal resistance of rammed earth blocks with recycled industry by-products. International Journal of Thermal Sciences, 2019, 138, 447-458.	2.6	3
15	Petrographic investigation on recycled coarse aggregate and identification the reason behind the inferior performance. Construction and Building Materials, 2019, 221, 399-408.	3.2	25
16	Sustainable road bases with microbial precipitation. Proceedings of Institution of Civil Engineers: Construction Materials, 2018, 171, 95-108.	0.7	13
17	Rammed earth blocks with improved multifunctional performance. Cement and Concrete Composites, 2018, 92, 36-46.	4.6	46
18	Microbial Diversity and Mineralogical-Mechanical Properties of Calcitic Cave Speleothems in Natural and in Vitro Biomineralization Conditions. Frontiers in Microbiology, 2018, 9, 40.	1.5	52

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19	Biomineralization in metakaolin modified cement mortar to improve its strength with lowered cement content. Journal of Hazardous Materials, 2017, 329, 178-184.	6.5	85
20	Nanoparticles surface treatment on cemented materials for inhibition of bacterial growth. Construction and Building Materials, 2017, 150, 880-891.	3.2	31
21	Biogenic deterioration of concrete and its mitigation technologies. Construction and Building Materials, 2017, 149, 575-586.	3.2	84
22	Carbonate biomineralization and heavy metal remediation by calcifying fungi isolated from karstic caves. Ecological Engineering, 2017, 103, 106-117.	1.6	68
23	Microbial healing of cracks in concrete: a review. Journal of Industrial Microbiology and Biotechnology, 2017, 44, 1511-1525.	1.4	122
24	Synergistic chemical and microbial cementation for stabilization of aggregates. Cement and Concrete Composites, 2017, 83, 160-170.	4.6	38
25	Bacterial Community Dynamics and Biocement Formation during Stimulation and Augmentation: Implications for Soil Consolidation. Frontiers in Microbiology, 2017, 8, 1267.	1.5	56
26	Micrographical, minerological and nano-mechanical characterisation of microbial carbonates from urease and carbonic anhydrase producing bacteria. Ecological Engineering, 2016, 94, 443-454.	1.6	89
27	Applicability of bacterial biocementation in sustainable construction materials. Asia-Pacific Journal of Chemical Engineering, 2016, 11, 795-802.	0.8	4
28	Unearthing ecological wisdom from natural habitats and its ramifications on development of biocement and sustainable cities. Landscape and Urban Planning, 2016, 155, 61-68.	3.4	26
29	Biocalcification by halophilic bacteria for remediation of concrete structures in marine environment. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 1497-1505.	1.4	45
30	Utilization of carbon dioxide as an alternative to urea in biocementation. Construction and Building Materials, 2016, 123, 527-533.	3.2	56
31	Significant indicators for biomineralisation in sand of varying grain sizes. Construction and Building Materials, 2016, 104, 198-207.	3.2	77
32	Condition assessment of fire affected reinforced concrete shear wall building - A case study. Advances in Concrete Construction, 2016, 4, 89-105.	0.4	9
33	Biomineralization for sustainable construction â€“ A review of processes and applications. Earth-Science Reviews, 2015, 148, 1-17.	4.0	145
34	A review of microbial precipitation for sustainable construction. Construction and Building Materials, 2015, 93, 1224-1235.	3.2	214
35	Influence of Exopolymeric Materials on Bacterially Induced Mineralization of Carbonates. Applied Biochemistry and Biotechnology, 2015, 175, 3531-3541.	1.4	34
36	Application of calcifying bacteria for remediation of stones and cultural heritages. Frontiers in Microbiology, 2014, 5, 304.	1.5	100

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37	Synergistic Role of Bacterial Urease and Carbonic Anhydrase in Carbonate Mineralization. Applied Biochemistry and Biotechnology, 2014, 172, 2552-2561.	1.4	114
38	Bacillus megaterium mediated mineralization of calcium carbonate as biogenic surface treatment of green building materials. World Journal of Microbiology and Biotechnology, 2013, 29, 2397-2406.	1.7	83
39	Viability of calcifying bacterial formulations in fly ash for applications in building materials. Journal of Industrial Microbiology and Biotechnology, 2013, 40, 1403-1413.	1.4	24
40	Biomineralization of calcium carbonates and their engineered applications: a review. Frontiers in Microbiology, 2013, 4, 314.	1.5	446
41	Biomineralization of Calcium Carbonate Polymorphs by the Bacterial Strains Isolated from Calcareous Sites. Journal of Microbiology and Biotechnology, 2013, 23, 707-714.	0.9	182
42	Improvement in strength properties of ash bricks by bacterial calcite. Ecological Engineering, 2012, 39, 31-35.	1.6	134
43	Biofilm and Microbial Applications in Biomineralized Concrete. , 2012, , .		9
44	Microbial Concrete: Way to Enhance the Durability of Building Structures. Journal of Materials in Civil Engineering, 2011, 23, 730-734.	1.3	254
45	ORIGINAL RESEARCH: Biocalcification bySporosarcina pasteuriiusing corn steep liquor as the nutrient source. Industrial Biotechnology, 2010, 6, 170-174.	0.5	98