

Souradeep Gupta

List of Publications by Citations

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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.

29
papers

1,293
citations

19
h-index

29
g-index

29
ext. papers

1,869
ext. citations

7
avg, IF

5.9
L-index

#	Paper	IF	Citations
29	Use of biochar as carbon sequestering additive in cement mortar. <i>Cement and Concrete Composites</i> , 2018 , 87, 110-129	8.6	126
28	Application of biochar from food and wood waste as green admixture for cement mortar. <i>Science of the Total Environment</i> , 2018 , 619-620, 419-435	10.2	116
27	Factors Determining the Potential of Biochar As a Carbon Capturing and Sequestering Construction Material: Critical Review. <i>Journal of Materials in Civil Engineering</i> , 2017 , 29, 04017086	3	100
26	Autonomous healing in concrete by bio-based healing agents [A review]. <i>Construction and Building Materials</i> , 2017 , 146, 419-428	6.7	84
25	Biochar-based adsorbents for carbon dioxide capture: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 119, 109582	16.2	81
24	Effect of water entrainment by pre-soaked biochar particles on strength and permeability of cement mortar. <i>Construction and Building Materials</i> , 2018 , 159, 107-125	6.7	77
23	Biochar-mortar composite: Manufacturing, evaluation of physical properties and economic viability. <i>Construction and Building Materials</i> , 2018 , 167, 874-889	6.7	73
22	Healing cement mortar by immobilization of bacteria in biochar: An integrated approach of self-healing and carbon sequestration. <i>Cement and Concrete Composites</i> , 2018 , 86, 238-254	8.6	71
21	Waste Valorisation using biochar for cement replacement and internal curing in ultra-high performance concrete. <i>Journal of Cleaner Production</i> , 2019 , 238, 117876	10.3	65
20	Carbonaceous micro-filler for cement: Effect of particle size and dosage of biochar on fresh and hardened properties of cement mortar. <i>Science of the Total Environment</i> , 2019 , 662, 952-962	10.2	61
19	Multifunctional applications of biochar beyond carbon storage. <i>International Materials Reviews</i> , 2022 , 1-51	16.1	58
18	Application of rice husk biochar and thermally treated low silica rice husk ash to improve physical properties of cement mortar. <i>Theoretical and Applied Fracture Mechanics</i> , 2019 , 104, 102376	3.7	55
17	Biochar-immobilized bacteria and superabsorbent polymers enable self-healing of fiber-reinforced concrete after multiple damage cycles. <i>Cement and Concrete Composites</i> , 2019 , 100, 35-52	8.6	54
16	Use of biochar-coated polypropylene fibers for carbon sequestration and physical improvement of mortar. <i>Cement and Concrete Composites</i> , 2017 , 83, 171-187	8.6	54
15	Effect of biochar on mechanical and permeability properties of concrete exposed to elevated temperature. <i>Construction and Building Materials</i> , 2020 , 234, 117338	6.7	43
14	Application of biochar from coconut and wood waste to reduce shrinkage and improve physical properties of silica fume-cement mortar. <i>Construction and Building Materials</i> , 2020 , 262, 120688	6.7	30
13	Application of rice husk biochar as filler in cenosphere modified mortar: Preparation, characterization and performance under elevated temperature. <i>Construction and Building Materials</i> , 2020 , 253, 119083	6.7	28

12	Carbonaceous inserts from lignocellulosic and non-lignocellulosic sources in cement mortar: Preparation conditions and its effect on hydration kinetics and physical properties. <i>Construction and Building Materials</i> , 2020 , 264, 120214	6.7	19
11	Comparing influence of inert biochar and silica rich biochar on cement mortar [Hydration kinetics and durability under chloride and sulfate environment. <i>Construction and Building Materials</i> , 2021 , 268, 121142	6.7	19
10	Combination of polypropylene fibre and superabsorbent polymer to improve physical properties of cement mortar. <i>Magazine of Concrete Research</i> , 2018 , 70, 350-364	2	15
9	Utilization of biochar from unwashed peanut shell in cementitious building materials [Effect on early age properties and environmental benefits. <i>Fuel Processing Technology</i> , 2021 , 218, 106841	7.2	15
8	Combination of Biochar and Silica Fume as Partial Cement Replacement in Mortar: Performance Evaluation Under Normal and Elevated Temperature. <i>Waste and Biomass Valorization</i> , 2020 , 11, 2807-2824	3.2	15
7	Carbon sequestration in cementitious composites using biochar and fly ash [Effect on mechanical and durability properties. <i>Construction and Building Materials</i> , 2021 , 291, 123363	6.7	12
6	Effect of presoaked superabsorbent polymer on strength and permeability of cement mortar. <i>Magazine of Concrete Research</i> , 2018 , 70, 473-486	2	10
5	Comparison of improved autogenous and bio-based self-healing techniques in fiber-reinforced mortar: Effect of bacteria incorporation strategy and fiber hybridization. <i>Journal of Building Engineering</i> , 2022 , 45, 103607	5.2	4
4	Carbon sequestration in cementitious matrix containing pyrogenic carbon from waste biomass: A comparison of external and internal carbonation approach. <i>Journal of Building Engineering</i> , 2021 , 43, 102910	5.2	4
3	Carbonaceous admixtures in cementitious building materials: Effect of particle size blending on rheology, packing, early age properties and processing energy demand. <i>Science of the Total Environment</i> , 2021 , 807, 150884	10.2	3
2	Carbon sequestration in engineered lightweight foamed mortar [Effect on rheology, mechanical and durability properties. <i>Construction and Building Materials</i> , 2022 , 322, 126383	6.7	1
1	Cement Replacement and Improved Hydration in Ultra-High Performance Concrete Using Biochar. <i>RILEM Bookseries</i> , 2020 , 222-229	0.5	