

# Sumit Chakraborty

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

1,177  
citations

471061

17  
h-index

377514

34  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1060  
citing authors

#	ARTICLE	IF	CITATIONS
1	New Frontiers in Cementitious and Lime-Based Materials and Composites. Crystals, 2022, 12, 61.	1.0	1
2	Chemical attack and corrosion resistance of concrete prepared with electrolyzed water. Journal of Materials Research and Technology, 2021, 11, 1193-1205.	2.6	14
3	Concrete Prepared Using Electrolyzed Water Revealed Benefits in Controlling the Early Age Properties. Journal of Materials in Civil Engineering, 2021, 33, .	1.3	8
4	Effect of electrolyzed water (EW) in accelerating the cement setting and hydration as demonstrated by the analytical techniques. Construction and Building Materials, 2021, 311, 125367.	3.2	14
5	Development of nano cement concrete by top-down and bottom-up nanotechnology concept. , 2020, , 183-213.		6
6	Investigation on the effectiveness of electrolyzed water in controlling the early age properties of cement mortar. Construction and Building Materials, 2019, 211, 1-11.	3.2	14
7	Development of the electrolyzed water based set accelerated greener cement paste. Materials Letters, 2019, 243, 46-49.	1.3	15
8	Durability Study of Silica Fume-mortar exposed to the Combined Sulfate and Chloride-rich Solution. KSCE Journal of Civil Engineering, 2019, 23, 356-366.	0.9	10
9	Effectiveness of the mild alkali and dilute polymer modification in controlling the durability of jute fibre in alkaline cement medium. Construction and Building Materials, 2018, 174, 330-342.	3.2	18
10	Prediction of the Failure Stress of Hydrogen-rich Water Based Cement Mortar Using the Weibull Distribution Model. KSCE Journal of Civil Engineering, 2018, 22, 1827-1839.	0.9	5
11	Effectiveness of the surface modified jute fibre as fibre reinforcement in controlling the physical and mechanical properties of concrete paver blocks. Construction and Building Materials, 2018, 191, 554-563.	3.2	36
12	Aqueous-based carbon dioxide sequestration. , 2018, , 39-64.		6
13	Investigation of the acid and sulfate resistance performances of hydrogen-rich water based mortars. Construction and Building Materials, 2017, 137, 1-11.	3.2	25
14	Effectiveness of sewage sludge ash combined with waste pozzolanic minerals in developing sustainable construction material: An alternative approach for waste management. Journal of Cleaner Production, 2017, 153, 253-263.	4.6	61
15	Effectiveness of a hydrothermally produced alternative cementitious material on the physical and mechanical performance of concrete. Journal of Cleaner Production, 2017, 142, 3269-3280.	4.6	4
16	Strength and Durability Assessment of Portland Cement Mortars Formulated from Hydrogen-Rich Water. Advances in Materials Science and Engineering, 2017, 2017, 1-10.	1.0	11
17	Hydration Mechanism of the Hydrogen-Rich Water Based Cement Paste. Journal of Physical Chemistry C, 2016, 120, 8198-8209.	1.5	19
18	Investigation on the Effectiveness of Aqueous Carbonated Lime in Producing an Alternative Cementitious Material. International Journal of Concrete Structures and Materials, 2016, 10, 15-28.	1.4	5

#	ARTICLE	IF	CITATIONS
19	Efficacy of alkali-treated jute as fibre reinforcement in enhancing the mechanical properties of cement mortar. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016, 49, 1093-1104.	1.3	23
20	A mild alkali treated jute fibre controlling the hydration behaviour of greener cement paste. <i>Scientific Reports</i> , 2015, 5, 7837.	1.6	40
21	Prediction of the curing time to achieve maturity of the nano-cement based concrete using the Weibull distribution model: A complementary data set. <i>Data in Brief</i> , 2015, 4, 285-291.	0.5	3
22	Prediction of the curing time to achieve maturity of the nano cement based concrete using the Weibull distribution model. <i>Construction and Building Materials</i> , 2015, 84, 307-314.	3.2	11
23	Hydrogen-rich water revealed benefits in controlling the physical and mechanical performances of cement mortar. <i>Construction and Building Materials</i> , 2015, 100, 31-39.	3.2	12
24	Effectiveness of carbonated lime as a raw material in producing a CO <sub>2</sub> -stored cementitious material by the hydrothermal method. <i>Construction and Building Materials</i> , 2015, 95, 556-565.	3.2	13
25	Hydration study of the polymer modified jute fibre reinforced cement paste using analytical techniques. <i>Construction and Building Materials</i> , 2015, 101, 166-173.	3.2	28
26	Synthesis of a Cementitious Material Nanocement Using Bottom-Up Nanotechnology Concept: An Alternative Approach to Avoid CO <sub>2</sub> Emission during Production of Cement. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-12.	1.5	5
27	Effectiveness of the Top-Down Nanotechnology in the Production of Ultrafine Cement (<b>~</b>220â€%nm). <i>Journal of Nanomaterials</i> , 2014, 2014, 1-9.	1.5	8
28	A hypothetical model based on effectiveness of combined alkali and polymer latex modified jute fibre in controlling the setting and hydration behaviour of cement. <i>Construction and Building Materials</i> , 2014, 68, 1-9.	3.2	26
29	Investigation on the effectiveness of chemically synthesized nano cement in controlling the physical and mechanical performances of concrete. <i>Construction and Building Materials</i> , 2014, 70, 1-8.	3.2	18
30	Lignocellulosic jute fiber as a bioadsorbent for the removal of azo dye from its aqueous solution: Batch and column studies. <i>Journal of Applied Polymer Science</i> , 2013, 129, 15-27.	1.3	34
31	Surface grafting of Corchorus olitorius fibre: A green approach for the development of activated bioadsorbent. <i>Carbohydrate Polymers</i> , 2013, 92, 2118-2127.	5.1	7
32	Polymer modified jute fibre as reinforcing agent controlling the physical and mechanical characteristics of cement mortar. <i>Construction and Building Materials</i> , 2013, 49, 214-222.	3.2	73
33	Effect of Jute as Fiber Reinforcement Controlling the Hydration Characteristics of Cement Matrix. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 1252-1260.	1.8	141
34	Improvement of the mechanical properties of jute fibre reinforced cement mortar: A statistical approach. <i>Construction and Building Materials</i> , 2013, 38, 776-784.	3.2	96
35	Chemically modified jute fibre reinforced non-pressure (NP) concrete pipes with improved mechanical properties. <i>Construction and Building Materials</i> , 2012, 37, 841-850.	3.2	68
36	Adsorption of Anionic-Azo Dye from Aqueous Solution by Lignocellulose-Biomass Jute Fiber: Equilibrium, Kinetics, and Thermodynamics Study. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 12095-12106.	1.8	94

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37	Improvement in mechanical properties of jute fibres through mild alkali treatment as demonstrated by utilisation of the Weibull distribution model. <i>Bioresource Technology</i> , 2012, 107, 222-228.	4.8	204