

Chamila Gunasekara

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,521
citations

361413

20
h-index

315739

38
g-index

48
all docs

48
docs citations

48
times ranked

1057
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of long term performance between alkali activated slag and fly ash geopolymer concretes. <i>Construction and Building Materials</i> , 2017, 143, 272-279.	7.2	148
2	Zeta potential, gel formation and compressive strength of low calcium fly ash geopolymers. <i>Construction and Building Materials</i> , 2015, 95, 592-599.	7.2	128
3	Long term permeation properties of different fly ash geopolymer concretes. <i>Construction and Building Materials</i> , 2016, 124, 352-362.	7.2	110
4	Performance of high volume fly ash concrete incorporating additives: A systematic literature review. <i>Construction and Building Materials</i> , 2020, 258, 120606.	7.2	110
5	Greenhouse gas emissions of different fly ash based geopolymer concretes in building construction. <i>Journal of Cleaner Production</i> , 2018, 204, 399-408.	9.3	103
6	Chloride induced corrosion in different fly ash based geopolymer concretes. <i>Construction and Building Materials</i> , 2019, 200, 502-513.	7.2	96
7	Design of fly ash geopolymer concrete mix proportions using Multivariate Adaptive Regression Spline model. <i>Construction and Building Materials</i> , 2018, 166, 472-481.	7.2	89
8	Effect of nano-silica addition into high volume fly ash-hydrated lime blended concrete. <i>Construction and Building Materials</i> , 2020, 253, 119205.	7.2	58
9	Sustainable criterion selection framework for green building materials - An optimisation based study of fly-ash Geopolymer concrete. <i>Sustainable Materials and Technologies</i> , 2020, 25, e00178.	3.3	55
10	Life cycle assessment and cost analysis of fly ash-rice husk ash blended alkali-activated concrete. <i>Journal of Environmental Management</i> , 2021, 295, 113140.	7.8	52
11	A critical review on drying shrinkage mitigation strategies in cement-based materials. <i>Journal of Building Engineering</i> , 2021, 38, 102210.	3.4	45
12	Alkali activated slag concrete incorporating recycled aggregate concrete: Long term performance and sustainability aspect. <i>Construction and Building Materials</i> , 2021, 271, 121512.	7.2	42
13	Long-Term Mechanical Properties of Different Fly Ash Geopolymers. <i>ACI Structural Journal</i> , 2017, 114, .	0.2	36
14	Comprehensive review on sustainable fiber reinforced concrete incorporating recycled textile waste. <i>Journal of Sustainable Cement-Based Materials</i> , 2022, 11, 28-42.	3.1	31
15	Suitability of Brown Coal Fly Ash for Geopolymer Production. <i>Journal of Materials in Civil Engineering</i> , 2017, 29, .	2.9	29
16	Compressive strength and microstructure evolution of low calcium brown coal fly ash-based geopolymer. <i>Journal of Sustainable Cement-Based Materials</i> , 2020, 9, 17-34.	3.1	29
17	Optimization of Enzyme-Based Soil Stabilization. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, .	2.9	29
18	Engineering Properties of Geopolymer Aggregate Concrete. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, .	2.9	28

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19	Improvement of heavy metal removal from urban runoff using modified pervious concrete. <i>Science of the Total Environment</i> , 2022, 815, 152936.	8.0	28
20	Microstructure and strength development of quaternary blend high-volume fly ash concrete. <i>Journal of Materials Science</i> , 2020, 55, 6441-6456.	3.7	23
21	Novel Analytical Method for Mix Design and Performance Prediction of High Calcium Fly Ash Geopolymer Concrete. <i>Polymers</i> , 2021, 13, 900.	4.5	21
22	A comprehensive review on geotechnical properties of alkali activated binder treated expansive soil. <i>Journal of Cleaner Production</i> , 2022, 363, 132488.	9.3	21
23	Microstructural characterisation of cementitious composite incorporating polymeric fibre: A comprehensive review. <i>Construction and Building Materials</i> , 2022, 335, 127497.	7.2	19
24	Creep, shrinkage and permeation characteristics of geopolymer aggregate concrete: long-term performance. <i>Archives of Civil and Mechanical Engineering</i> , 2020, 20, 1.	3.8	18
25	Geopolymer synthesis using low-grade clays. <i>Construction and Building Materials</i> , 2021, 268, 121066.	7.2	18
26	Engineering Performance of Concrete Incorporated with Recycled High-Density Polyethylene (HDPE) – A Systematic Review. <i>Polymers</i> , 2021, 13, 1885.	4.5	16
27	Long term mechanical performance of nano-engineered high volume fly ash concrete. <i>Journal of Building Engineering</i> , 2021, 43, 103168.	3.4	16
28	Systematic Review on Alkali-Activated Binders Blended with Rice Husk Ash. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, .	2.9	15
29	Modeling of hydration products and strength development for high-volume fly ash binders. <i>Construction and Building Materials</i> , 2022, 320, 126228.	7.2	13
30	Mechanism of Enzyme Stabilization for Expansive Soils Using Mechanical and Microstructural Investigation. <i>International Journal of Geomechanics</i> , 2021, 21, .	2.7	12
31	Effect of Curing Conditions on Microstructure and Pore-Structure of Brown Coal Fly Ash Geopolymers. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3138.	2.5	11
32	Engineering properties of waste-based alkali activated concrete brick containing low calcium fly ash and rice husk ash: A comparison with traditional Portland cement concrete brick. <i>Journal of Building Engineering</i> , 2022, 46, 103810.	3.4	10
33	Environmental evaluation and economic analysis of fly ash-rice husk ash blended alkali-activated bricks. <i>Environmental Impact Assessment Review</i> , 2022, 95, 106784.	9.2	10
34	Life cycle assessment of alkali-activated concretes under marine exposure in an Australian context. <i>Environmental Impact Assessment Review</i> , 2022, 96, 106813.	9.2	9
35	Long term creep and shrinkage of nano silica modified high volume fly ash concrete. <i>Journal of Sustainable Cement-Based Materials</i> , 2022, 11, 202-222.	3.1	8
36	Investigation of the reaction mechanism of blended fly ash and rice husk ash alkali-activated binders. <i>Archives of Civil and Mechanical Engineering</i> , 2022, 22, 1.	3.8	8

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37	Feasibility of Developing Sustainable Concrete Using Environmentally Friendly Coarse Aggregate. Applied Sciences (Switzerland), 2020, 10, 5207.	2.5	7
38	Hydraulic characteristics of stabilised expansive subgrade soils in road pavements. International Journal of Pavement Engineering, 2022, 23, 3129-3146.	4.4	6
39	Alkali-Activated Slag Concrete with Recycled Aggregate: Long-Term Performance. Journal of Materials in Civil Engineering, 2021, 33, .	2.9	5
40	Effect of Curing Temperature on the Alkali Activation of German Brown Coal Fly Ash. RILEM Bookseries, 2021, , 69-77.	0.4	2
41	Low-Grade Clay as an Alkali-Activated Material. Applied Sciences (Switzerland), 2021, 11, 1648.	2.5	2
42	A review on soil stabilisation of unsealed road pavements from an Australian perspective. Road Materials and Pavement Design, 2023, 24, 1005-1049.	4.0	2
43	Reactivity and Performance of Alkali-Activated Yallourn Brown Coal Ash. ACI Materials Journal, 2020, , .	0.2	1
44	Sustainable High-Performance Hydraulic Concrete. Sustainability, 2022, 14, 695.	3.2	1
45	Mix design of fly ash based alkali activated concrete. , 2022, , 41-65.		1
46	Damage Assessment of Geopolymer Aggregate Concrete Using Numerical Modeling. Lecture Notes in Civil Engineering, 2021, , 31-46.	0.4	0
47	Engineering properties of very high volume fly ash composite. Sustainable and Resilient Infrastructure, 2022, 7, 775-788.	2.8	0
48	Upcycled Polypropylene and Polytrimethylene Terephthalate Carpet Waste in Reinforcing Cementitious Composites. ACI Materials Journal, 2022, , .	0.2	0