

Adeyemi Adesina

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

2,160
citations

236612

25
h-index

288905

40
g-index

107
all docs

107
docs citations

107
times ranked

1067
citing authors

#	ARTICLE	IF	CITATIONS
1	Plastic wastes to construction products: Status, limitations and future perspective. <i>Case Studies in Construction Materials</i> , 2020, 12, e00330.	0.8	128
2	Green concrete: A review of recent developments. <i>Materials Today: Proceedings</i> , 2020, 27, 54-58.	0.9	109
3	Recent advances in the concrete industry to reduce its carbon dioxide emissions. <i>Environmental Challenges</i> , 2020, 1, 100004.	2.0	97
4	A critical review on application of alkali activated slag as a sustainable composite binder. <i>Case Studies in Construction Materials</i> , 2019, 11, e00268.	0.8	82
5	Potential applications of geopolymer concrete in construction: A review. <i>Case Studies in Construction Materials</i> , 2021, 15, e00733.	0.8	79
6	Role of recycling fine materials as filler for improving performance of concrete - a review. <i>Australian Journal of Civil Engineering</i> , 2019, 17, 85-95.	0.6	70
7	Fresh, strength and microstructure properties of geopolymer concrete incorporating lime and silica fume as replacement of fly ash. <i>Journal of Building Engineering</i> , 2020, 32, 101780.	1.6	67
8	Performance of cementitious composites reinforced with chopped basalt fibres – An overview. <i>Construction and Building Materials</i> , 2021, 266, 120970.	3.2	66
9	Mechanical performance of engineered cementitious composite incorporating glass as aggregates. <i>Journal of Cleaner Production</i> , 2020, 260, 121113.	4.6	56
10	Overview of trends in the application of waste materials in self-compacting concrete production. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	53
11	Alkali activated binders: Challenges and opportunities. <i>Materials Today: Proceedings</i> , 2020, 27, 40-43.	0.9	52
12	Recent advancements in the use of biochar for cementitious applications: A review. <i>Journal of Building Engineering</i> , 2020, 32, 101705.	1.6	48
13	Characterization and performance evaluation of laterite based geopolymer binder cured at different temperatures. <i>Construction and Building Materials</i> , 2021, 270, 121443.	3.2	48
14	Influence of glass powder on the durability properties of engineered cementitious composites. <i>Construction and Building Materials</i> , 2020, 242, 118199.	3.2	45
15	Influence of coconut shell ash on workability, mechanical properties, and embodied carbon of concrete. <i>Environmental Science and Pollution Research</i> , 2021, 28, 5682-5692.	2.7	45
16	Performance of fibre reinforced alkali-activated composites – A review. <i>Materialia</i> , 2020, 12, 100782.	1.3	44
17	Performance of engineered cementitious composites incorporating crumb rubber as aggregate. <i>Construction and Building Materials</i> , 2021, 274, 122033.	3.2	44
18	Influence of Binary Blend of Corn Cob Ash and Glass Powder as Partial Replacement of Cement in Concrete. <i>Silicon</i> , 2021, 13, 1647-1654.	1.8	37

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19	Performance and sustainability overview of alkali-activated self-compacting concrete. Waste Disposal & Sustainable Energy, 2020, 2, 165-175.	1.1	34
20	Phase change materials in concrete: An overview of properties. Materials Today: Proceedings, 2020, 27, 391-395.	0.9	33
21	Sustainable application of cenospheres in cementitious materials – Overview of performance. Developments in the Built Environment, 2020, 4, 100029.	2.0	31
22	Use of phase change materials in concrete: current challenges. Renewable Energy and Environmental Sustainability, 2019, 4, 9.	0.7	30
23	Drying shrinkage and permeability properties of fibre reinforced alkali-activated composites. Construction and Building Materials, 2020, 251, 119076.	3.2	28
24	Development of alkali-activated composites from calcined iron-rich laterite soil. Materialia, 2021, 15, 101032.	1.3	28
25	Properties of eco-friendly basalt fibre reinforced concrete designed by Taguchi method. Construction and Building Materials, 2021, 302, 124161.	3.2	28
26	Lateritic soils based geopolymer materials: A review. Construction and Building Materials, 2022, 344, 128157.	3.2	28
27	A statistical approach to assess the schedule delays and risks in Indian construction industry. International Journal of Construction Management, 2020, 20, 450-461.	2.2	26
28	Performance of Coconut Shell Alkali-Activated Concrete: Experimental Investigation and Statistical Modelling. Silicon, 2021, 13, 335-340.	1.8	25
29	Performance of eco-friendly mortars made with alkali-activated slag and glass powder as a binder. Construction and Building Materials, 2021, 270, 121457.	3.2	25
30	Nanomaterials in cementitious composites: review of durability performance. Journal of Building Pathology and Rehabilitation, 2020, 5, 1.	0.7	24
31	Physico-mechanical and microstructural properties of sodium sulfate activated materials: A review. Construction and Building Materials, 2021, 295, 123668.	3.2	24
32	Influence of mineralogy and activator type on the rheology behaviour and setting time of laterite based geopolymer paste. Cement and Concrete Composites, 2022, 126, 104345.	4.6	23
33	Durability Enhancement of Concrete Using Nanomaterials: An Overview. Materials Science Forum, 0, 967, 221-227.	0.3	22
34	Sustainable utilization of recycled asphalt as aggregates in engineered cementitious composites. Construction and Building Materials, 2021, 283, 122727.	3.2	21
35	Fresh and mechanical properties overview of alkali-activated materials made with glass powder as precursor. Cleaner Materials, 2022, 3, 100036.	1.9	21
36	Mechanical performance of concrete incorporating wheat straw ash as partial replacement of cement. Journal of Building Pathology and Rehabilitation, 2021, 6, 1.	0.7	19

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37	Utilization of polymer chemical admixtures for surface treatment and modification of cellulose fibres in cement-based composites: a review. <i>Cellulose</i> , 2021, 28, 1241-1266.	2.4	19
38	Sustainable utilization of ultrafine rice husk ash in alkali activated concrete: Characterization and performance evaluation. <i>Journal of Sustainable Cement-Based Materials</i> , 2022, 11, 100-112.	1.7	19
39	Synergetic effect of rice husk ash and quartz sand on microstructural and physical properties of laterite clay based geopolymer. <i>Journal of Building Engineering</i> , 2021, 43, 103229.	1.6	19
40	Evaluation of the Durability Properties of Engineered Cementitious Composites Incorporating Recycled Concrete as Aggregate. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, .	1.3	18
41	Performance and sustainability overview of sodium carbonate activated slag materials cured at ambient temperature. <i>Resources, Environment and Sustainability</i> , 2021, 3, 100016.	2.9	17
42	Overview of the influence of waste materials on the thermal conductivity of cementitious composites. <i>Cleaner Engineering and Technology</i> , 2021, 2, 100046.	2.1	17
43	Fire resistance and thermal insulation properties of foamed concrete incorporating pulverized ceramics and mineral admixtures. <i>Asian Journal of Civil Engineering</i> , 2020, 21, 147-156.	0.8	16
44	Economic potential comparative of reusing different industrial solid wastes in cementitious composites: a case study in Brazil. <i>Environment, Development and Sustainability</i> , 2022, 24, 5938-5961.	2.7	15
45	Evolution of room-cured alkali-activated silicomanganese fume-based green mortar designed using Taguchi method. <i>Construction and Building Materials</i> , 2021, 307, 124970.	3.2	15
46	Experimental and numerical investigation of the effect of sawdust ash on the performance of concrete. <i>Journal of Building Pathology and Rehabilitation</i> , 2020, 5, 1.	0.7	14
47	Alkali-activated laterite binders: Influence of silica modulus on setting time, Rheological behaviour and strength development. <i>Cleaner Engineering and Technology</i> , 2021, 4, 100175.	2.1	14
48	Properties of Alkali Activated Slag Concrete Incorporating Waste Materials as Aggregate: A Review. <i>Materials Science Forum</i> , 0, 967, 214-220.	0.3	13
49	Mechanical performance of engineered cementitious composites incorporating recycled glass powder. <i>Canadian Journal of Civil Engineering</i> , 2020, 47, 1311-1319.	0.7	13
50	Durability Evaluation of Green-Engineered Cementitious Composite Incorporating Glass as Aggregate. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, .	1.3	13
51	Influence of various additives on the early age compressive strength of sodium carbonate activated slag composites: An overview. <i>Journal of the Mechanical Behavior of Materials</i> , 2020, 29, 106-113.	0.7	13
52	Performance of green fibre-reinforced composite made with sodium-carbonate-activated slag as a binder. <i>Innovative Infrastructure Solutions</i> , 2020, 5, 1.	1.1	12
53	Performance of laterite-based geopolymers reinforced with sugarcane bagasse fibers. <i>Case Studies in Construction Materials</i> , 2021, 15, e00762.	0.8	12
54	Overview of Workability and Mechanical Performance of Cement-Based Composites Incorporating Nanomaterials. <i>Silicon</i> , 2022, 14, 135-144.	1.8	11

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55	Effect of crumb rubber aggregate on the performance of cementitious composites: A review. IOP Conference Series: Earth and Environmental Science, 2020, 445, 012032.	0.2	11
56	Optimization of self-compacting composite composition using Taguchi-Grey relational analysis. Materialia, 2021, 15, 101027.	1.3	11
57	Structural performance of corroded reinforced concrete beams made with fiber-reinforced self-compacting concrete. Structures, 2021, 32, 1145-1155.	1.7	11
58	Reactivity and mechanical performance of geopolymer binders from metakaolin/meta-halloysite blends. Construction and Building Materials, 2022, 336, 127546.	3.2	11
59	Influence of amorphous raw rice husk ash as precursor and curing condition on the performance of alkali activated concrete. Case Studies in Construction Materials, 2021, 15, e00777.	0.8	10
60	Performance of basalt fibre-reinforced concrete for pavement and flooring applications. Innovative Infrastructure Solutions, 2020, 5, 1.	1.1	9
61	Reinforced concrete deterioration caused by contaminated construction water: An overview. Engineering Failure Analysis, 2020, 116, 104715.	1.8	9
62	Synthesis and SWOT analysis of date palm frond ash-Portland cement composites. Environmental Science and Pollution Research, 2021, 28, 45240-45252.	2.7	9
63	The influence of nano CaCO ₃ on the mechanical performance of micro glass-reinforced geopolymer paste. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	9
64	Characterization, reactivity and rheological behaviour of metakaolin and Meta-halloysite based geopolymer binders. Cleaner Materials, 2021, 2, 100025.	1.9	9
65	Critical review on the evolution, properties, and utilization of plasticwastes for construction applications. Journal of Material Cycles and Waste Management, 2022, 24, 435-451.	1.6	9
66	Development of Eco-Friendly Basalt Fibre Reinforced Cementitious Composites Using Taguchi Method. Silicon, 2021, 13, 1303-1312.	1.8	8
67	Influence of Thermal Activation and Silica Modulus on the Properties of Clayey-Lateritic Based Geopolymer Binders Cured at Room Temperature. Silicon, 2022, 14, 7399-7416.	1.8	8
68	Application of bacterial biomass in biocementation process to enhance the mechanical and durability properties of concrete. Cleaner Materials, 2022, 3, 100050.	1.9	7
69	Structural Integrity Assessment of Bamboo for Construction Purposes. , 2017, , 326-336.		6
70	Influence of Curing Media and Mixing Solution on the Compressive Strength of Laterized Concrete. Silicon, 2020, 12, 2425-2432.	1.8	6
71	Feasibility study on the sustainable utilization of uncalcined clay soils as Low-Cost binders. Construction and Building Materials, 2022, 340, 127724.	3.2	6
72	The Performance of Slag Containing Engineered Cementitious Composites. IOP Conference Series: Materials Science and Engineering, 2020, 978, 012024.	0.3	5

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73	Role of casting and curing conditions on the strength and drying shrinkage of greener concrete. Environmental Science and Pollution Research, 2022, 29, 72598-72610.	2.7	5
74	Synthesis and characterization of eco-friendly mortars made with RHA-NaOH activated fly ash as binder at room temperature. Cleaner Materials, 2021, 1, 100010.	1.9	4
75	Performance Evaluation of Thermal-Efficient Lightweight Mortars Made with Expanded Glass as Aggregates. Journal of Materials in Civil Engineering, 2022, 34, .	1.3	4
76	Physico-mechanical and microstructural properties of geopolymer binders synthesized with metakaolin and meta-halloysite as precursors. Cleaner Materials, 2022, 4, 100070.	1.9	4
77	Field Applications of Basalt Fiber Materials for Rehabilitation of Deteriorated Concrete Structures. Journal of Performance of Constructed Facilities, 2020, 34, 04020093.	1.0	3
78	Effect of curing conditions on the compressive strength of sodium carbonate activated slag-glass powder mortar. Canadian Journal of Civil Engineering, 2021, 48, 1056-1061.	0.7	3
79	Solid wastes. , 2021, , 199-220.		3
80	Development of low-carbon masonry grout mixtures using alkali-activated binder. Magazine of Concrete Research, 2022, 74, 154-161.	0.9	3
81	Sustainable Utilization of GCP Sludge as a Reductant in the Reduction Roasting of Low-Grade Manganese Ore to Recover Mn and Fe Values. Mining, Metallurgy and Exploration, 2021, 38, 1537-1550.	0.4	3
82	Development of eco-friendly engineered cementitious composites using glass aggregates: Shrinkage properties. Cleaner Engineering and Technology, 2021, 5, 100299.	2.1	3
83	Analytical investigation of the influence of various void shape and spacing on the load-bearing behavior of concrete hollow core slabs. Journal of Building Pathology and Rehabilitation, 2022, 7, 1.	0.7	3
84	Physico-thermal and microstructural properties of thermal-efficient mortars made with low cement content. Construction and Building Materials, 2022, 325, 126850.	3.2	3
85	Effect of curing methods on the strength of interlocking paving blocks. Cogent Engineering, 2020, 7, 1770914.	1.1	2
86	Mitigating of drying shrinkage in alkali-activated slag composites. IOP Conference Series: Materials Science and Engineering, 2020, 981, 032075.	0.3	2
87	Rehabilitation of Steel I-Beam with Basalt Fiber Reinforced Polymer. , 2020, , .		2
88	Utilization of Biomass Energy in Cement Production: A Pathway Towards Sustainable Infrastructure. Innovative Renewable Energy, 2020, , 791-799.	0.2	2
89	Innovative use of brick wastes as coarse aggregate in concrete. IOP Conference Series: Materials Science and Engineering, 2020, 981, 032077.	0.3	1
90	Strengthening of Concrete Beams with Basalt Fibre Reinforced Polymer. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
91	Circular Economy in the Concrete Industry. , 2021, , 1-15.		1
92	Crack properties, toughness and absorption evaluation of FRCC incorporating reclaimed asphalt pavement and crumb rubber as aggregates. Cleaner Materials, 2021, 1, 100004.	1.9	1
93	Influence of fly ash in physical and mechanical properties of recycled aggregate concrete. , 2022, , 25-37.		1
94	Use of Agricultural Wastes in Cementitious Composites. , 2022, , 593-617.		1
95	Durability Properties of Mortar Overlays with Glass Aggregates. , 2020, , .		0
96	Performance of High Strength Cementitious Composites with High Volume Supplementary Cementitious Materials. IOP Conference Series: Materials Science and Engineering, 2020, 978, 012020.	0.3	0
97	Interfacial Characteristics of Engineered Pulp Fibre Reinforced Concretes Containing Various Pozzolans. IOP Conference Series: Materials Science and Engineering, 2020, 978, 012023.	0.3	0
98	Prediction of chloride ingress for palm kernel shell concrete. Research on Engineering Structures and Materials, 2021, , .	0.2	0
99	Use of Agricultural Wastes in Cementitious Composites. , 2021, , 1-25.		0
100	The Influence of Various Factors on the Drying Shrinkage of Basalt Fibre Reinforced Cement-Based Composites Designed by the Taguchi Method. IOP Conference Series: Materials Science and Engineering, 0, 978, 012019.	0.3	0
101	Performance of cementitious composites incorporating coconut fibers as reinforcement. , 2022, , 645-660.		0
102	Engineered uses of nanomaterials for sustainable cementitious composites. , 2022, , 635-654.		0
103	Circular Economy in the Concrete Industry. , 2022, , 1433-1447.		0