

Paul Awoyera

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

2,303
citations

218381

26
h-index

253896

43
g-index

95
all docs

95
docs citations

95
times ranked

1274
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	Estimating strength properties of geopolymer self-compacting concrete using machine learning techniques. <i>Journal of Materials Research and Technology</i> , 2020, 9, 9016-9028.	2.6	116
3	Characterization of ceramic waste aggregate concrete. <i>HBRC Journal</i> , 2018, 14, 282-287.	0.2	114
4	Green concrete: A review of recent developments. <i>Materials Today: Proceedings</i> , 2020, 27, 54-58.	0.9	109
5	Green concrete production with ceramic wastes and laterite. <i>Construction and Building Materials</i> , 2016, 117, 29-36.	3.2	92
6	Low carbon building: Experimental insight on the use of fly ash and glass fibre for making geopolymer concrete. <i>Sustainable Environment Research</i> , 2017, 27, 146-153.	2.1	86
7	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
8	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
9	Suitability of mortars produced using laterite and ceramic wastes: Mechanical and microscale analysis. <i>Construction and Building Materials</i> , 2017, 148, 195-203.	3.2	65
10	Microstructural characteristics, porosity and strength development in ceramic-laterized concrete. <i>Cement and Concrete Composites</i> , 2018, 86, 224-237.	4.6	63
11	A review of residual strength properties of normal and high strength concrete exposed to elevated temperatures: Impact of materials modification on behaviour of concrete composite. <i>Construction and Building Materials</i> , 2021, 296, 123448.	3.2	62
12	Synergic effect of metakaolin and groundnut shell ash on the behavior of fly ash-based self-compacting geopolymer concrete. <i>Construction and Building Materials</i> , 2021, 311, 125327.	3.2	59
13	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
14	Shear capacity prediction of slender reinforced concrete structures with steel fibers using machine learning. <i>Engineering Structures</i> , 2021, 227, 111470.	2.6	53
15	Alkali activated binders: Challenges and opportunities. <i>Materials Today: Proceedings</i> , 2020, 27, 40-43.	0.9	52
16	Permeability properties of lightweight self-consolidating concrete made with coconut shell aggregate. <i>Journal of Materials Research and Technology</i> , 2020, 9, 3547-3557.	2.6	50
17	Structural distress in glass fibre-reinforced concrete under loading and exposure to aggressive environments. <i>Construction and Building Materials</i> , 2019, 197, 862-870.	3.2	48
18	Enhancing the Strength Properties of High-Performance Concrete Using Ternary Blended Cement: OPC, Nano-Silica, Bagasse Ash. <i>Silicon</i> , 2020, 12, 1949-1956.	1.8	43

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19	Experimental Study on Performance of Hardened Concrete Using Nano Materials. KSCE Journal of Civil Engineering, 2020, 24, 596-602.	0.9	37
20	Mechanical and durability properties of recycled aggregate concrete with ternary binder system and optimized mix proportion. Journal of Materials Research and Technology, 2020, 9, 6521-6532.	2.6	35
21	Phase change materials in concrete: An overview of properties. Materials Today: Proceedings, 2020, 27, 391-395.	0.9	33
22	Using silica mineral waste as aggregate in a green high strength concrete: workability, strength, failure mode, and morphology assessment. Australian Journal of Civil Engineering, 2018, 16, 122-128.	0.6	32
23	Fresh and Hardened Properties of Concrete Incorporating Binary Blend of Metakaolin and Ground Granulated Blast Furnace Slag as Supplementary Cementitious Material. Advances in Civil Engineering, 2020, 2020, 1-8.	0.4	32
24	Utilization of Corn Cob Ash as Fine Aggregate and Ground Granulated Blast Furnace Slag as Cementitious Material in Concrete. Buildings, 2021, 11, 422.	1.4	32
25	Cleaner production of self-compacting concrete with selected industrial rejects-an overview. Silicon, 2021, 13, 2809-2820.	1.8	27
26	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
27	Experimental Study on Engineering Properties of Cement Concrete Reinforced with Nylon and Jute Fibers. Buildings, 2021, 11, 454.	1.4	26
28	Hydration mechanism and strength properties of recycled aggregate concrete made using ceramic blended cement. Cogent Engineering, 2017, 4, 1282667.	1.1	25
29	Physical, strength, and microscale properties of plastic fiber-reinforced concrete containing fine ceramics particles. Materialia, 2021, 15, 100970.	1.3	25
30	Foamed concrete incorporating mineral admixtures and pulverized ceramics: Effect of phase change and mineralogy on strength characteristics. Construction and Building Materials, 2020, 234, 117434.	3.2	23
31	A Review of the Engineering Properties of Metakaolin Based Concrete: Towards Combatting Chloride Attack in Coastal/Marine Structures. Advances in Civil Engineering, 2020, 2020, 1-13.	0.4	23
32	Durability Phenomenon in Manufactured Sand Concrete: Effects of Zinc Oxide and Alcofine on Behaviour. Silicon, 2021, 13, 1079-1085.	1.8	22
33	Structural retrofitting of corroded fly ash based concrete beams with fibres to improve bending characteristics. Australian Journal of Structural Engineering, 2019, 20, 198-203.	0.4	21
34	Sustainable composite development: Novel use of human hair as fiber in concrete. Case Studies in Construction Materials, 2020, 13, e00412.	0.8	21
35	Filler-Ability of Highly Active Metakaolin for Improving Morphology and Strength Characteristics of Recycled Aggregate Concrete. Silicon, 2019, 11, 1971-1978.	1.8	20
36	Lightweight Self-Compacting Concrete Incorporating Industrial Rejects and Mineral Admixtures: Strength and Durability Assessment. Silicon, 2020, 12, 1779-1785.	1.8	20

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37	Numerical simulation and specification provisions for buckling characteristics of a built-up steel column section subjected to axial loading. <i>Engineering Structures</i> , 2020, 207, 110256.	2.6	20
38	Models for Predictions of Mechanical Properties of Low-Density Self-compacting Concrete Prepared from Mineral Admixtures and Pumice Stone. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 677-690.	0.5	18
39	Predictive models for determination of compressive and split-tensile strengths of steel slag aggregate concrete. <i>Materials Research Innovations</i> , 2018, 22, 287-293.	1.0	16
40	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
41	Model Development for Strength Properties of Laterized Concrete Using Artificial Neural Network Principles. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 197-207.	0.5	16
42	Durability Properties of Self-compacting Concrete Made With Recycled Aggregate. <i>Silicon</i> , 2021, 13, 2727-2735.	1.8	15
43	Engineering performance of metakaolin based concrete. <i>Cleaner Engineering and Technology</i> , 2022, 6, 100383.	2.1	15
44	Thermal insulation and mechanical characteristics of cement mortar reinforced with mineral wool and rice straw fibers. <i>Journal of Building Engineering</i> , 2022, 53, 104568.	1.6	15
45	Effect of mineral admixtures on early age properties of high performance concrete. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 561, 012067.	0.3	14
46	Effect of Wheat Straw Ash on Fresh and Hardened Concrete Reinforced with Jute Fiber. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-11.	0.4	14
47	Structural Retrofitting of Corroded Reinforced Concrete Beams Using Bamboo Fiber Laminate. <i>Materials</i> , 2021, 14, 6711.	1.3	13
48	Estimating optimum parameters of a new SMA damper under different earthquake ground motions. <i>Structures</i> , 2021, 33, 2700-2712.	1.7	12
49	Optimization of the Curved Metal Damper to Improve Structural Energy Dissipation Capacity. <i>Buildings</i> , 2022, 12, 67.	1.4	12
50	Impact resistance of high strength chopped basalt fibre-reinforced concrete. , 0, , 240-249.		11
51	Synergic effect of millet husk ash and wheat straw ash on the fresh and hardened properties of Metakaolin-based self-compacting geopolymer concrete. <i>Case Studies in Construction Materials</i> , 2021, 15, e00729.	0.8	11
52	PERFORMANCE OF STEEL SLAG AGGREGATE CONCRETE WITH VARIED WATER- CEMENT RATIO. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2016, 78, .	0.3	10
53	Suitability of <i>Cordia millenii</i> Ash Blended Cement in Concrete Production. <i>International Journal of Engineering Research in Africa</i> , 2016, 22, 59-67.	0.7	10
54	Impact Resistance and Strength Development of Fly Ash Based Self-compacting Concrete. <i>Silicon</i> , 2022, 14, 481-492.	1.8	10

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55	Engineering Properties of Concrete with a Ternary Blend of Fly Ash, Wheat Straw Ash, and Maize Cob Ash. <i>International Journal of Engineering Research in Africa</i> , 0, 54, 43-55.	0.7	10
56	Structural Performance of Biaxial Geogrid Reinforced Concrete Slab. <i>International Journal of Civil Engineering</i> , 2022, 20, 349-359.	0.9	10
57	Water absorption, strength and microscale properties of interlocking concrete blocks made with plastic fibre and ceramic aggregates. <i>Case Studies in Construction Materials</i> , 2021, 15, e00677.	0.8	10
58	Mechanical Properties of Concrete Incorporating Rice Husk Ash and Wheat Straw Ash as Ternary Cementitious Material. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-13.	0.4	10
59	Beneficiated pozzolans as cement replacement in bamboo-reinforced concrete: the intrinsic characteristics. <i>Innovative Infrastructure Solutions</i> , 2018, 3, 1.	1.1	9
60	Fresh properties of self-compacting concrete incorporating electric arc furnace oxidizing slag (EAFOS) as coarse aggregate. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	9
61	Reinforced concrete deterioration caused by contaminated construction water: An overview. <i>Engineering Failure Analysis</i> , 2020, 116, 104715.	1.8	9
62	Plastic fiber-strengthened interlocking bricks for load bearing applications. <i>Innovative Infrastructure Solutions</i> , 2021, 6, 1.	1.1	9
63	Experimental Findings and Validation on Torsional Behaviour of Fibre-Reinforced Concrete Beams: A Review. <i>Polymers</i> , 2022, 14, 1171.	2.0	9
64	Stabilization Effect of Aluminum Dross on Tropical Lateritic Soil. <i>International Journal of Engineering Research in Africa</i> , 2018, 39, 86-96.	0.7	8
65	Rheological, Mineralogical and Strength Variability of Concrete due to Construction Water Impurities. <i>International Journal of Engineering Research in Africa</i> , 2020, 48, 78-91.	0.7	8
66	Benefits of Using Ceramic Tile Waste For Making Sustainable Concrete. <i>Journal of Solid Waste Technology and Management</i> , 2017, 43, 233-241.	0.2	7
67	Curing, thermal resistance and bending behaviour of laterised concrete containing ceramic wastes. <i>Cogent Engineering</i> , 2018, 5, 1485476.	1.1	7
68	Experimental and numerical analysis of large-scale bamboo-reinforced concrete beams containing crushed sand. <i>Innovative Infrastructure Solutions</i> , 2019, 4, 1.	1.1	7
69	Comparative Study on Mechanical Properties of Concrete Blended with <i>Costus englerianus</i> Bagasse Ash and Bagasse Fibre as Partial Replacement for Lime and Cement. <i>Advances in Civil Engineering</i> , 2022, 2022, 1-8.	0.4	7
70	Effects of calcined clay on the engineering properties of cementitious mortars. <i>Materials Today: Proceedings</i> , 2021, 39, 110-113.	0.9	6
71	Thermal and Mechanical Characterization of Microencapsulated Phase Change Material in Cementitious Composites. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 0, , 1.	1.0	6
72	Implementation of new elements and material models in OpenSees software to account for post-earthquake fire damage. <i>Structures</i> , 2020, 27, 1777-1785.	1.7	5

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73	Optimization of Mix Proportions for Novel Dry Stack Interlocking Concrete Blocks Using ANN. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-15.	0.4	5
74	Development of Fibre-Reinforced Cementitious Mortar with Mineral Wool and Coconut Fibre. <i>Materials</i> , 2022, 15, 4520.	1.3	5
75	Prediction of California Bearing Ratio of Subgrade Soils Using Artificial Neural Network Principles. <i>Lecture Notes in Networks and Systems</i> , 2021, , 133-146.	0.5	4
76	Professional methods of assessments in architectural design projects: A focus on the relevant parametric measures in selected Nigerian universities. <i>Cogent Social Sciences</i> , 2017, 3, 1328793.	0.5	3
77	New Light Weight Mortar for Structural Application: Assessment of Porosity, Strength and Morphology Properties. <i>Learning and Analytics in Intelligent Systems</i> , 2020, , 59-65.	0.5	3
78	Strength characterisation of self cured concrete using AI tools. <i>Materials Today: Proceedings</i> , 2021, 39, 839-848.	0.9	3
79	Production of lightweight mortar using recycled waste papers and pulverized ceramics: Mechanical and microscale properties. <i>Journal of Building Engineering</i> , 2021, 39, 102233.	1.6	3
80	Modeling flexural overstrength factor for steel beams using heuristic soft-computing methods. <i>Structures</i> , 2021, 34, 3238-3246.	1.7	3
81	The use of slags in recycled aggregate concrete. , 2022, , 145-170.		3
82	Strength and Durability Assessments of Induction Furnace Slag - Quarry Dust -Based High Performance Self - Compacting Concrete. <i>Civil and Environmental Engineering</i> , 2022, 18, 1-16.	0.4	3
83	Modeling Temperature of Fire-Damaged Reinforced Concrete Buildings Based on Nondestructive Testing and Gene Algorithm Techniques. <i>Fire Technology</i> , 2022, 58, 941-957.	1.5	2
84	Comparison of thermal performance of steel moment and eccentrically braced frames. <i>Journal of Building Engineering</i> , 2022, 49, 104052.	1.6	2
85	A Study on the Effect of Hollow Tubular Flange Sections on the Behavior of Cold-Formed Steel Built-Up Beams. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-9.	0.4	1
86	Influence of fly ash in physical and mechanical properties of recycled aggregate concrete. , 2022, , 25-37.		1
87	Modelling the edge breakout shear capacity of single anchors using gene expression programming. <i>Neural Computing and Applications</i> , 2022, 34, 9635-9646.	3.2	1
88	Effect of Marble Dust and Basalt Fiber on the Energy Absorbance of Concrete Measured through Impact Loading Method. <i>Current Materials Science</i> , 2019, 13, .	0.2	0
89	Performance of Pier-to-Pier Cap Connections of Integral Bridges under Thermal and Seismic Loads. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-16.	0.4	0
90	Upcycling CO2 for enhanced performance of recycled aggregate concrete and modeling of properties. , 2022, , 349-364.		0

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91	Overview on environmental impact of recycled aggregate concrete incorporating pozzolans or fillers. , 2022, , 435-444.		0