

Isaac Akinwumi

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

602
citations

623734

14
h-index

677142

22
g-index

49
all docs

49
docs citations

49
times ranked

442
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil Modification by the Application of Steel Slag. <i>Periodica Polytechnica: Civil Engineering</i> , 2014, 58, 371-377.	0.6	60
2	Strength and microstructure of eco-concrete produced using waste glass as partial and complete replacement for sand. <i>Cogent Engineering</i> , 2018, 5, 1483860.	2.2	44
3	Marine plastic pollution and affordable housing challenge: Shredded waste plastic stabilized soil for producing compressed earth bricks. <i>Case Studies in Construction Materials</i> , 2019, 11, e00241.	1.7	34
4	Bio-Enzymatic Stabilization of a Soil Having Poor Engineering Properties. <i>International Journal of Civil Engineering</i> , 2017, 15, 401-409.	2.0	33
5	Banana Fibre-Reinforcement of a Soil Stabilized with Sodium Silicate. <i>Silicon</i> , 2020, 12, 357-363.	3.3	33
6	Plasticity, strength, permeability and compressibility characteristics of black cotton soil stabilized with precipitated silica. <i>Journal of Central South University</i> , 2016, 23, 2688-2694.	3.0	28
7	Cement stabilisation of crude-oil-contaminated soil. <i>Proceedings of the Institution of Civil Engineers: Geotechnical Engineering</i> , 2016, 169, 336-345.	1.6	25
8	Mechanical Properties and Microstructure of Fibre-Reinforced Clay Blended with By-Product Cementitious Materials. <i>Geosciences (Switzerland)</i> , 2020, 10, 241.	2.2	24
9	Sustainable use of recycled waste glass as an alternative material for building construction – A review. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 640, 012073.	0.6	22
10	Evaluation of Geotechnical Parameters using Geophysical Data. <i>Journal of Engineering and Technological Sciences</i> , 2017, 49, 95-113.	0.6	22
11	EXPERIMENTAL INSIGHTS OF USING WASTE MARBLE FINES TO MODIFY THE GEOTECHNICAL PROPERTIES OF A LATERITIC SOIL. <i>Journal of Environmental Engineering and Landscape Management</i> , 2015, 23, 121-128.	1.0	21
12	Lightweight Self-Compacting Concrete Incorporating Industrial Rejects and Mineral Admixtures: Strength and Durability Assessment. <i>Silicon</i> , 2020, 12, 1779-1785.	3.3	20
13	Subgrade Stabilization using Rice Husk Ash-based Geopolymer (GRHA) and Cement Kiln Dust (CKD). <i>Case Studies in Construction Materials</i> , 2020, 13, e00388.	1.7	20
14	Appropriate Use of Lime in the Study of the Physicochemical Behaviour of Stabilised Lateritic Soil under Continuous Water Ingress. <i>Sustainability</i> , 2021, 13, 257.	3.2	19
15	Soil modification by addition of cactus mucilage. <i>Geomechanics and Engineering</i> , 2015, 8, 649-661.	0.9	15
16	COMPARATIVE STUDY OF CORNCOB ASH-BASED LATERITIC INTERLOCKING AND SANDCRETE HOLLOW BLOCKS. <i>International Journal of GEOMATE</i> , 2018, 15, .	0.3	15
17	Incorporation of a nanotechnology-based product in cementitious binders for sustainable mitigation of sulphate-induced heaving of stabilised soils. <i>Engineering Science and Technology, an International Journal</i> , 2021, 24, 436-448.	3.2	14
18	Effects of Steel Slag Addition on the Plasticity, Strength, and Permeability of Lateritic Soil. , 2012, , .		13

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19	Appraisal of Municipal Solid Waste Management, Its Effect and Resource Potential in a Semi-Urban City: a Case Study. <i>Journal of South African Business Research</i> , 0, , 1-13.	0.0	13
20	Nigerian Lateritic Clay Soils As Hydraulic Barriers To Adsorb Metals. <i>Geotechnical Characterization And Chemical Compatibility. Environmental Protection Engineering</i> , 2017, 43, .	0.1	12
21	A review on plastic waste as sustainable resource in civil engineering applications. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1036, 012019.	0.6	11
22	PERFORMANCE OF STEEL SLAG AGGREGATE CONCRETE WITH VARIED WATER- CEMENT RATIO. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2016, 78, .	0.4	10
23	Beneficiated pozzolans as cement replacement in bamboo-reinforced concrete: the intrinsic characteristics. <i>Innovative Infrastructure Solutions</i> , 2018, 3, 1.	2.2	9
24	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
25	Lignin modified PVDF membrane with antifouling properties for oil filtration. <i>Journal of Water Process Engineering</i> , 2021, 43, 102248.	5.6	8
26	Use of some agricultural wastes to modify the engineering properties of subgrade soils: A review. <i>Journal of Physics: Conference Series</i> , 2019, 1378, 022050.	0.4	7
27	Ballast Contamination Mechanisms: A Critical Review of Characterisation and Performance Indicators. <i>Infrastructures</i> , 2020, 5, 94.	2.8	7
28	Reactive project scheduling: minimizing delays in the completion times of projects. <i>Asian Journal of Civil Engineering</i> , 2019, 20, 1189-1202.	1.6	6
29	Overview of Industrial Pollution Activities and its Curbing Mechanisms. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 640, 012097.	0.6	6
30	Compaction and shear strength enhancement of weak soil by copper slag addition. <i>Materials Today: Proceedings</i> , 2021, 39, 834-838.	1.8	6
31	Sawdust Stabilization of Lateritic Clay as a Landfill Liner to Retain Heavy Metals. , 2016, , .		5
32	Diameter Inconsistency, Strength and Corrosion Characteristics of Locally-Produced and Imported Steel Reinforcing Bars in Ilorin, Nigeria. <i>International Journal of Engineering Research in Africa</i> , 0, 29, 90-97.	0.7	5
33	Perception of professionals on causes of structural cracks in concrete buildings. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 640, 012036.	0.6	5
34	Trends of non-communicable diseases and public health concerns of the people of northeastern Nigeria amidst the Boko Haram insurgency. <i>Zeitschrift Fur Gesundheitswissenschaften</i> , 2021, 29, 553-561.	1.6	3
35	Design of an engineered landfill as possible replacement for an existing dump at Akure, Nigeria. <i>African Journal of Science, Technology, Innovation and Development</i> , 2018, 10, 835-843.	1.6	2
36	The use of recycled concrete aggregate for concrete production incorporating calcined clay as pozzolanic admixture. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 640, 012047.	0.6	2

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37	Study of Reed-Bed of an Urban Wastewater in a Nigerian Community. , 2014, , .		2
38	Soil Erosion Protection on Hilly Regions Using Plant Roots: An Experimental Insight. Advances in Science, Technology and Innovation, 2020, , 321-335.	0.4	2
39	Geotechnical characteristics of a selected shallow marine area considered for quay wall construction. IOP Conference Series: Materials Science and Engineering, 2019, 640, 012075.	0.6	1
40	Housing crisis: Waste glass-stabilized clay for use as fired clay bricks. IOP Conference Series: Materials Science and Engineering, 2019, 640, 012072.	0.6	1
41	A review of the mineralogical and geotechnical properties of some residual soils in relation to the problems of road failures: A case study of Nigeria. IOP Conference Series: Materials Science and Engineering, 2021, 1036, 012071.	0.6	1
42	INVESTIGATION OF CALCIUM CARBIDE RESIDUE AS A STABILIZER FOR TROPICAL SAND USED AS PAVEMENT MATERIAL. WIT Transactions on the Built Environment, 2018, , .	0.0	1
43	Pollution emission evolution from composite and metal formation in Foundry Industry. IOP Conference Series: Materials Science and Engineering, 2019, 640, 012098.	0.6	0
44	Suitability of using borrow pit soils collected from Southwestern Nigeria as landfill liners. IOP Conference Series: Materials Science and Engineering, 2021, 1036, 012038.	0.6	0
45	INTEGER PROGRAMMING ALGORITHM FOR PUBLIC TRANSPORT SYSTEM IN SUB-SAHARAN AFRICAN CITIES. WIT Transactions on the Built Environment, 2018, , .	0.0	0
46	MODELLING RATE OF TRAFFIC-INDUCED BUILDING VIBRATIONS IN SANGO-OTA, NIGERIA: AN ASSUMPTION BASED ANALYSIS. , 2018, , .		0
47	A Comparative Study of Operations and Maintenance of Iju Water Works. IOP Conference Series: Materials Science and Engineering, 0, 640, 012076.	0.6	0