

Hamdy A Abdel-Gawwad

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,596
citations

293460

24
h-index

340414

39
g-index

51
all docs

51
docs citations

51
times ranked

1214
citing authors

#	ARTICLE	IF	CITATIONS
1	Physicomechanical properties, stabilization mechanism, and antifungal activity of alkali-activated slag mixed with Cr ⁶⁺ and Ni ²⁺ rich industrial wastewater. <i>Journal of Building Engineering</i> , 2022, 46, 103813.	1.6	4
2	Understanding the effect of hydrozincite and witherite nanominerals on the performance and phase composition of alkali-activated slag. <i>Journal of Building Engineering</i> , 2022, 48, 103963.	1.6	4
3	Reuse of lead glass sludge in the fabrication of thermally insulating foamed glass with outstanding properties and high Pb-stabilization. <i>Environmental Science and Pollution Research</i> , 2022, 29, 47209-47224.	2.7	4
4	Resistance of alkali-activated slag mixed with wastewater towards biogenic sulfuric acid attack. <i>Case Studies in Construction Materials</i> , 2022, 17, e01164.	0.8	2
5	Preparation and characterization of a novel alkali-activated magnesite cement. <i>Construction and Building Materials</i> , 2022, 345, 128384.	3.2	7
6	Stabilization of hazardous lead glass sludge using reactive magnesia via the fabrication of lightweight building bricks. <i>Journal of Hazardous Materials</i> , 2021, 403, 124017.	6.5	20
7	Evaluating the performance of high volume fly ash-blended-cement mortar individually containing nano- and ultrafine micro-magnesia. <i>Journal of Building Engineering</i> , 2021, 36, 102129.	1.6	10
8	The sustainable utilization of weathered cement kiln dust in the cleaner production of alkali activated binder incorporating glass sludge. <i>Construction and Building Materials</i> , 2021, 300, 124308.	3.2	21
9	An Innovative Method for Sustainable Utilization of Blast-Furnace Slag in the Cleaner Production of One-Part Hybrid Cement Mortar. <i>Materials</i> , 2021, 14, 5669.	1.3	7
10	The potential application of cement kiln dust-red clay brick waste-silica fume composites as unfired building bricks with outstanding properties and high ability to CO ₂ -capture. <i>Journal of Building Engineering</i> , 2021, 42, 102479.	1.6	12
11	Utilization of construction and demolition waste and synthetic aggregates. <i>Journal of Building Engineering</i> , 2021, 43, 103207.	1.6	16
12	Thermo-alkali activation of talc for the production of a novel white one-part alkali-activated magnesia-based cement. <i>Construction and Building Materials</i> , 2021, 306, 124909.	3.2	6
13	An initial study about the effect of activated carbon nano-sheets from residual biomass of olive trees pellets on the properties of alkali-activated slag pastes. <i>Journal of Building Engineering</i> , 2021, 44, 102661.	1.6	9
14	Role of barium carbonate and barium silicate nanoparticles in the performance of cement mortar. <i>Journal of Building Engineering</i> , 2021, 44, 102721.	1.6	5
15	Ultra-lightweight porous materials fabrication and hazardous lead-stabilization through alkali-activation/sintering of different industrial solid wastes. <i>Journal of Cleaner Production</i> , 2020, 244, 118742.	4.6	29
16	Towards a clean environment: The potential application of eco-friendly magnesia-silicate cement in CO ₂ sequestration. <i>Journal of Cleaner Production</i> , 2020, 252, 119875.	4.6	33
17	Biocarbonation: A novel method for synthesizing nano-zinc/zirconium carbonates and oxides. <i>Arabian Journal of Chemistry</i> , 2020, 13, 8092-8099.	2.3	4
18	A clean approach through sustainable utilization of cement kiln dust, hazardous lead-bearing, and sewage sludges in the production of lightweight bricks. <i>Journal of Cleaner Production</i> , 2020, 273, 123129.	4.6	34

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19	The Effects of Temperature Curing on the Strength Development, Transport Properties, and Freeze-Thaw Resistance of Blast Furnace Slag Cement Mortars Modified with Nanosilica. <i>Materials</i> , 2020, 13, 5800.	1.3	9
20	Performance, radiation shielding, and anti-fungal activity of alkali-activated slag individually modified with zinc oxide and zinc ferrite nano-particles. <i>Construction and Building Materials</i> , 2020, 257, 119584.	3.2	60
21	Bio-removal of Pb, Cu, and Ni from solutions as nano-carbonates using a plant-derived urease enzymeâ€œurea mixture. <i>Environmental Science and Pollution Research</i> , 2020, 27, 30741-30754.	2.7	8
22	A novel eco-sustainable approach for the cleaner production of ready-mix alkali activated cement using industrial solid wastes and organic-based activator powder. <i>Journal of Cleaner Production</i> , 2020, 256, 120705.	4.6	21
23	Preparation, performance, and stability of alkali-activated-concrete waste-lead- bearing sludge composites. <i>Journal of Cleaner Production</i> , 2020, 259, 120924.	4.6	40
24	Surface protection of concrete by new protective coating. <i>Construction and Building Materials</i> , 2019, 220, 245-252.	3.2	41
25	Single and dual effects of magnesia and alumina nano-particles on strength and drying shrinkage of alkali activated slag. <i>Construction and Building Materials</i> , 2019, 228, 116827.	3.2	44
26	Evaluating the impact of nano-magnesium calcite waste on the performance of cement mortar in normal and sulfate-rich media. <i>Construction and Building Materials</i> , 2019, 203, 392-400.	3.2	21
27	Sustainable disposal of cement kiln dust in the production of cementitious materials. <i>Journal of Cleaner Production</i> , 2019, 232, 1218-1229.	4.6	47
28	Sustainable utilization of pretreated concrete waste in the production of one-part alkali-activated cement. <i>Journal of Cleaner Production</i> , 2019, 232, 318-328.	4.6	48
29	Recycling of slag and lead-bearing sludge in the cleaner production of alkali activated cement with high performance and microbial resistivity. <i>Journal of Cleaner Production</i> , 2019, 220, 568-580.	4.6	64
30	Cleaner production of one-part white geopolymer cement using pre-treated wood biomass ash and diatomite. <i>Journal of Cleaner Production</i> , 2019, 209, 1420-1428.	4.6	100
31	Mechanical properties and microstructure of innovative bio-mortar containing different aggregates. <i>Geosystem Engineering</i> , 2018, 21, 291-296.	0.7	8
32	Recycling of concrete waste to produce ready-mix alkali activated cement. <i>Ceramics International</i> , 2018, 44, 7300-7304.	2.3	48
33	Positive impact performance of hybrid effect of nano-clay and silica nano-particles on composite cements. <i>Construction and Building Materials</i> , 2018, 190, 508-516.	3.2	44
34	Preparation and characterization of one-part magnesium oxychloride cement. <i>Construction and Building Materials</i> , 2018, 189, 745-750.	3.2	15
35	Fabrication and characterization of thermally-insulating coconut ash-based geopolymer foam. <i>Waste Management</i> , 2018, 80, 235-240.	3.7	49
36	Combined impact of silicate-amorphicity and MgO-reactivity on the performance of Mg-silicate cement. <i>Construction and Building Materials</i> , 2018, 189, 78-85.	3.2	45

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37	Resistivity of eco-friendly alkali activated industrial solid wastes against sulfur oxidizing bacteria. Ecological Engineering, 2018, 112, 1-9.	1.6	19
38	Synergistic effects of curing conditions and magnesium oxide addition on the physico-mechanical properties and firing resistivity of Portland cement mortar. Construction and Building Materials, 2018, 176, 676-689.	3.2	21
39	Application of thermal treatment on cement kiln dust and feldspar to create one-part geopolymer cement. Construction and Building Materials, 2018, 187, 231-237.	3.2	58
40	A new method to create one-part non-Portland cement powder. Journal of Thermal Analysis and Calorimetry, 2018, 134, 1447-1456.	2.0	25
41	Thermal activation of air cooled slag to create one-part alkali activated cement. Ceramics International, 2018, 44, 14935-14939.	2.3	34
42	Influence of nano-silica and -metakaolin on the hydration characteristics and microstructure of air-cooled slag-blended cement mortar. Geosystem Engineering, 2017, 20, 276-285.	0.7	21
43	Performance of bio-mortar under elevated temperatures. Journal of Thermal Analysis and Calorimetry, 2017, 130, 1439-1444.	2.0	11
44	Effect of internal sulfate attack on the properties of sulfate-resisting cement and alkali-activated slag. Geosystem Engineering, 2017, 20, 195-206.	0.7	5
45	A novel method to produce dry geopolymer cement powder. HBRC Journal, 2016, 12, 13-24.	0.2	117
46	Impact of magnesium chloride on the mechanical properties of innovative bio-mortar. Materials Letters, 2016, 178, 39-43.	1.3	31
47	Coupled effect of alkali concentration and metakaolin content on accelerated ageing of slag. Geosystem Engineering, 2016, 19, 125-132.	0.7	8
48	Characterization of alkali activated geopolymer mortar doped with MWCNT. Construction and Building Materials, 2016, 102, 329-337.	3.2	127
49	Preparation and characterization of one-part non-Portland cement. Ceramics International, 2016, 42, 220-228.	2.3	54
50	Effect of substitution of granulated slag by air-cooled slag on the properties of alkali activated slag. Ceramics International, 2013, 39, 171-181.	2.3	35
51	Properties and durability of alkali-activated slag pastes immersed in sea water. Ceramics International, 2012, 38, 3773-3780.	2.3	91