

Mohamed Heikal

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,129
citations

201385

27
h-index

233125

45
g-index

50
all docs

50
docs citations

50
times ranked

1554
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydration characteristic, thermal expansion and microstructure of cement containing nano-silica. Construction and Building Materials, 2014, 59, 151-160.	3.2	170
2	Limestone-filled pozzolanic cement. Cement and Concrete Research, 2000, 30, 1827-1834.	4.6	154
3	Effect of calcium formate as an accelerator on the physicochemical and mechanical properties of pozzolanic cement pastes. Cement and Concrete Research, 2004, 34, 1051-1056.	4.6	99
4	Physico-mechanical, microstructure characteristics and fire resistance of cement pastes containing Al ₂ O ₃ nano-particles. Construction and Building Materials, 2015, 91, 232-242.	3.2	98
5	Behavior of composite cement pastes containing microsilica and fly ash at elevated temperature. Construction and Building Materials, 2013, 38, 1180-1190.	3.2	93
6	Physico-chemical, mechanical, microstructure and durability characteristics of alkali activated Egyptian slag. Construction and Building Materials, 2014, 69, 60-72.	3.2	90
7	Hydration and durability of sulphate-resisting and slag cement blends in Caron's Lake water. Cement and Concrete Research, 2005, 35, 1592-1600.	4.6	82
8	Characteristics of blended cements containing nano-silica. HBRC Journal, 2013, 9, 243-255.	0.2	82
9	Effect of temperature on the physico-mechanical and mineralogical properties of Homra pozzolanic cement pastes. Cement and Concrete Research, 2000, 30, 1835-1839.	4.6	81
10	Behavior of composite cement pastes containing silica nano-particles at elevated temperature. Construction and Building Materials, 2014, 70, 339-350.	3.2	80
11	Effect of treatment temperature on the early hydration characteristics of superplasticized silica fume blended cement pastes. Cement and Concrete Research, 2005, 35, 680-687.	4.6	75
12	Mechanical, microstructure and rheological characteristics of high performance self-compacting cement pastes and concrete containing ground clay bricks. Construction and Building Materials, 2013, 38, 101-109.	3.2	68
13	Hydration, microstructure and phase composition of composite cements containing nano-clay. Construction and Building Materials, 2016, 112, 19-27.	3.2	59
14	Physico-chemical and mechanical characteristics of pozzolanic cement pastes and mortars hydrated at different curing temperatures. Construction and Building Materials, 2012, 26, 310-316.	3.2	58
15	Microstructure of composite cements containing blast-furnace slag and silica nano-particles subjected to elevated thermally treatment temperature. Construction and Building Materials, 2015, 93, 1067-1077.	3.2	51
16	Characteristics, textural properties and fire resistance of cement pastes containing Fe ₂ O ₃ nano-particles. Journal of Thermal Analysis and Calorimetry, 2016, 126, 1077-1087.	2.0	49
17	Reactivity of dealuminated kaolin and burnt kaolin using cement kiln dust or hydrated lime as activators. Construction and Building Materials, 2013, 47, 1451-1460.	3.2	48
18	Sustainable utilization of pretreated concrete waste in the production of one-part alkali-activated cement. Journal of Cleaner Production, 2019, 232, 318-328.	4.6	48

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19	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
20	Portland cement clinker, granulated slag and by-pass cement dust composites. <i>Cement and Concrete Research</i> , 2002, 32, 1805-1812.	4.6	46
21	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
22	Electrical conductivity and phase composition of calcium aluminate cement containing air-cooled and water-cooled slag at 20, 40 and 60 Å°C. <i>Cement and Concrete Research</i> , 2005, 35, 1438-1446.	4.6	43
23	Physico-chemical and surface characteristics of some granulated slagâ€“fired drinking water sludge composite cement pastes. <i>HBRC Journal</i> , 2014, 10, 73-81.	0.2	37
24	Stabilization of lead bearing sludge by utilization in fly ash-slag based geopolymer. <i>Construction and Building Materials</i> , 2019, 227, 116694.	3.2	35
25	Hydration characteristics of tricalcium aluminate phase in mixes containing Î²-hemihydrate and phosphogypsum. <i>Cement and Concrete Research</i> , 2005, 35, 1601-1608.	4.6	33
26	Physico-mechanical characteristics and durability of calcium aluminate blended cement subject to different aggressive media. <i>Construction and Building Materials</i> , 2015, 78, 379-385.	3.2	33
27	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
28	Electrochemical and physico-mechanical characterizations of fly ash-composite cement. <i>Construction and Building Materials</i> , 2020, 243, 118309.	3.2	27
29	Physico-chemical characteristics of some polymer cement composites. <i>Materials Chemistry and Physics</i> , 2001, 71, 76-83.	2.0	25
30	Characteristics and durability of cements containing fly ash and limestone subjected to Caron's Lake water. <i>Advances in Cement Research</i> , 2009, 21, 91-99.	0.7	24
31	Effect of delaying addition time of SMF superplasticizer on the physico-mechanical properties and durability of cement pastes. <i>Construction and Building Materials</i> , 2012, 35, 261-269.	3.2	23
32	Characterization, hydration, durability of nano-Fe ₂ O ₃ -composite cements subjected to sulphates and chlorides media. <i>Construction and Building Materials</i> , 2021, 269, 121310.	3.2	22
33	Preparation of Î²-dicalcium silicate (Î²-C ₂ S) and calcium sulfoaluminate phases using non-traditional nano-materials. <i>Construction and Building Materials</i> , 2012, 35, 77-83.	3.2	21
34	Synergistic effects of curing conditions and magnesium oxide addition on the physico-mechanical properties and firing resistivity of Portland cement mortar. <i>Construction and Building Materials</i> , 2018, 176, 676-689.	3.2	21
35	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
36	Effect of delayed addition time of synthesized SSPF condensate on the durability of sulphate resisting cement pastes incorporating micro-silica. <i>Construction and Building Materials</i> , 2013, 48, 1092-1103.	3.2	19

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37	Impact of delayed addition time of SNF condensate on the fire resistance and durability of SRC-SF composite cement pastes. <i>Construction and Building Materials</i> , 2014, 50, 281-290.	3.2	15
38	Preparation, physico-mechanical characteristics and durability of eco-alkali-activated binder from blast-furnace slag, cement kiln-by-pass dust and microsilica ternary system. <i>Construction and Building Materials</i> , 2020, 260, 119947.	3.2	15
39	Influence of delayed addition time of sodium sulfanilate phenol formaldehyde condensate on the hydration characteristics of sulfate resisting cement pastes containing silica fume. <i>Construction and Building Materials</i> , 2012, 37, 269-276.	3.2	11
40	Characteristics of cement pastes containing sulphoaluminate and belite prepared from nano-materials. <i>Construction and Building Materials</i> , 2013, 38, 14-21.	3.2	11
41	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
42	Coupled Effect of Elevated Temperature and Cooling Conditions on the Properties of Ground Clay Brick Mortars. <i>Slovak Journal of Civil Engineering</i> , 2013, 21, 41-50.	0.2	7
43	Utilization of GBFS in The Preparation of Low Cost Cement. <i>Egyptian Journal of Chemistry</i> , 2016, 59, 623-636.	0.1	6
44	Influence of hydrothermal condition on the physico-mechanical, phase composition and microstructure of autoclaved granulated slag-ground sand mixes using an industrial lime-rich sludge as an activator. <i>Advances in Cement Research</i> , 2005, 17, 153-160.	0.7	5
45	Preparation and Characterization of an Eco-Friendly Binder from Alkali-Activated Aluminosilicate Solid Industrial Wastes Containing CKD and GGBS. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, .	1.3	5
46	Title is missing!. <i>Journal of Materials Science</i> , 2003, 38, 4499-4505.	1.7	3
47	PERFORMANCE OF SILICA-NANO-PARTICLES ON THE PHYSICOCHEMICAL, AND MICROSCOPIC CHARACTERISTICS OF BLENDED AND COMPOSITE CEMENT. <i>Ceramics - Silikaty</i> , 2020, , 320-337.	0.2	3
48	IMPROVEMENT OF CEMENT PASTES COMPOSITE PROPERTIES CONTAINING CLAY NANOPARTICLES. <i>Ceramics - Silikaty</i> , 2020, , 398-406.	0.2	3
49	Effect of Various Superplasticizers on the Textural Properties of Silica Fume Pozzolanic Cements. <i>Adsorption Science and Technology</i> , 2002, 20, 453-466.	1.5	0
50	Superior-mechanical, microstructure properties of composite cement incorporating SiO ₂ -nano-particles. <i>Egyptian Journal of Chemistry</i> , 2020, 63, 5-6.	0.1	0