Jamal Khatib

List of Publications by Year
in descending order

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134 papers	6,432 citations	136940 32 h-index	79691 73 g-index
152 all docs	152 docs citations	152 times ranked	4546 citing authors

#	Article	IF	Citations
1	Use of recycled plastic in concrete: A review. Waste Management, 2008, 28, 1835-1852.	7.4	740
2	Properties of concrete incorporating fine recycled aggregate. Cement and Concrete Research, 2005, 35, 763-769.	11.0	618
3	Relative strength, pozzolanic activity and cement hydration in superplasticised metakaolin concrete. Cement and Concrete Research, 1996, 26, 1537-1544.	11.0	492
4	Performance of self-compacting concrete containing fly ash. Construction and Building Materials, 2008, 22, 1963-1971.	7.2	248
5	Selected engineering properties of concrete incorporating slag and metakaolin. Construction and Building Materials, 2005, 19, 460-472.	7.2	225
6	Pore size distribution of metakaolin paste. Cement and Concrete Research, 1996, 26, 1545-1553.	11.0	205
7	Organische Katalysatoren, LXI. Asymmetrische Synthesen mit Ketenen, I. Alkaloidâ€katalysierte asymmetrische Synthesen von Î±â€Phenylâ€propionsÃureestern. Justus Liebigs Annalen Der Chemie, 1960, 634, 9-22.	0.5	182
8	Portlandite consumption in metakaolin cement pastes and mortars. Cement and Concrete Research, 1997, 27, 137-146.	11.0	160
9	Absorption characteristics of metakaolin concrete. Cement and Concrete Research, 2004, 34, 19-29.	11.0	151
10	Sulphate Resistance of Metakaolin Mortar. Cement and Concrete Research, 1998, 28, 83-92.	11.0	134
11	Influence of metakaolin and silica fume on the heat of hydration and compressive strength development of mortar. Applied Clay Science, 2011, 53, 704-708.	5.2	118
12	Strength and durability of concrete incorporating crushed limestone sand. Construction and Building Materials, 2009, 23, 625-633.	7.2	111
13	Properties of self-compacting mortar made with various types of sand. Cement and Concrete Composites, 2012, 34, 1167-1173.	10.7	109
14	Influence of calcined kaolin on mortar properties. Construction and Building Materials, 2011, 25, 2275-2282.	7.2	100
15	Effects of the addition of nanosilica on the rheology, hydration and development of the compressive strength of cement mortars. Composites Part B: Engineering, 2015, 81, 120-129.	12.0	99
16	Metakaolin concrete at a low water to binder ratio. Construction and Building Materials, 2008, 22, 1691-1700.	7.2	90
17	Capillarity of concrete incorporating waste foundry sand. Construction and Building Materials, 2013, 47, 867-871.	7.2	88
18	Factors influencing strength development of concrete containing silica fume. Cement and Concrete Research, 1995, 25, 1567-1580.	11.0	86

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19	Chemical shrinkage and autogenous shrinkage of Portland cementâ€"metakaolin pastes. Advances in Cement Research, 1998, 10, 109-119.	1.6	76
20	Absorption characteristics of concrete as a function of location relative to casting position. Cement and Concrete Research, 1995, 25, 999-1010.	11.0	74
21	Effect of nanosilica addition on the fresh properties and shrinkage of mortars with fly ash and superplasticizer. Construction and Building Materials, 2015, 84, 269-276.	7.2	69
22	Influence of initial curing on sulphate resistance of blended cement concrete. Cement and Concrete Research, 1992, 22, 1089-1100.	11.0	65
23	Influence of superplasticizer and curing on porosity and pore structure of cement paste. Cement and Concrete Composites, 1999, 21, 431-437.	10.7	61
24	Abrasion resistance and mechanical properties of high-volume fly ash concrete. Materials and Structures/Materiaux Et Constructions, 2010, 43, 709-718.	3.1	61
25	Durability of mortar and concretes containing slag with low hydraulic activity. Cement and Concrete Composites, 2012, 34, 671-677.	10.7	60
26	Sulphate resistance of mortar, containing ground brick clay calcined at different temperatures. Cement and Concrete Research, 1997, 27, 697-709.	11.0	59
27	Influence of high-temperature and low-humidity curing on chloride penetration in blended cement concrete. Cement and Concrete Research, 2002, 32, 1743-1753.	11.0	56
28	Valorisation of waste expanded polystyrene in concrete using a novel recycling technique. European Journal of Environmental and Civil Engineering, 2017, 21, 1384-1402.	2.1	49
29	Effect of metakaolin and foundry sand on the near surface characteristics of concrete. Construction and Building Materials, 2011, 25, 3257-3266.	7.2	45
30	Effect of using metakaolin as supplementary cementitious material and recycled CRT funnel glass as fine aggregate on the durability of green self-compacting concrete. Construction and Building Materials, 2020, 235, 117802.	7.2	44
31	Standard and modified falling mass impact tests on preplaced aggregate fibrous concrete and slurry infiltrated fibrous concrete. Construction and Building Materials, 2021, 298, 123857.	7.2	39
32	Prediction of the durability performance of ternary cement containing limestone powder and ground granulated blast furnace slag. Construction and Building Materials, 2019, 209, 215-221.	7.2	34
33	Microstructure, chloride diffusion and reinforcement corrosion in blended cement paste and concrete. Cement and Concrete Composites, 1994, 16, 73-81.	10.7	33
34	Î³-ray spectroscopy ofBi191,193. Physical Review C, 2004, 69, .	2.9	32
35	Improving biodegradability of polyvinyl alcohol/starch blend films for packaging applications. International Journal of Basic and Applied Sciences, 2014, 3, .	0.2	32
36	The efficiency of using CFRP as a strengthening technique for reinforced concrete beams subjected to blast loading. International Journal of Advanced Structural Engineering, 2019, 11, 411-420.	1.3	32

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37	Experimental investigation on effects of calcined bentonite on fresh, strength and durability properties of sustainable self-compacting concrete. Construction and Building Materials, 2020, 230, 117062.	7.2	32
38	Numerical analysis of a reinforced concrete beam under blast loading. MATEC Web of Conferences, 2018, 149, 02063.	0.2	30
39	Porosity of cement paste cured at 45 Â°C as a function of location relative to casting position. Cement and Concrete Composites, 2003, 25, 97-108.	10.7	29
40	The effectiveness of using Raw Sewage Sludge (RSS) as a water replacement in cement mortar mixes containing Unprocessed Fly Ash (u-FA). Construction and Building Materials, 2017, 147, 27-34.	7.2	28
41	Effect of fly ashâ€“gypsum blend on porosity and pore size distribution of cement pastes. Advances in Applied Ceramics, 2013, 112, 197-201.	1.1	25
42	Metakaolin. , 2018, , 493-511.		25
43	Structural Performance of Reinforced Concrete Beams Incorporating Cathode-Ray Tube (CRT) Glass Waste. Buildings, 2021, 11, 67.	3.1	25
44	A Review on Cementitious Materials Including Municipal Solid Waste Incineration Bottom Ash (MSWI-BA) as Aggregates. Buildings, 2021, 11, 179.	3.1	24
45	Some Engineering Properties of Concrete Containing Natural Pozzolana and Silica Fume. Journal of Asian Architecture and Building Engineering, 2006, 5, 349-354.	2.0	22
46	Low Temperature Curing of Metakaolin Concrete. Journal of Materials in Civil Engineering, 2009, 21, 362-367.	2.9	22
47	Characteristics of concrete containing EPS. , 2019, , 137-165.		22
48	Multiwall carbon nanotubes (MWCNTs) dispersion & mechanical effects in OPC mortar & paste: A review. Journal of Building Engineering, 2021, 43, 102512.	3.4	22
49	Structural Assessment of Reinforced Concrete Beams Incorporating Waste Plastic Straws. Environments - MDPI, 2020, 7, 96.	3.3	21
50	EARLY AGE POROSITY AND PORE SIZE DISTRIBUTION OF CEMENT PASTE WITH FLUE GAS DESULPHURISATION (FGD) WASTE. Journal of Civil Engineering and Management, 2013, 19, 622-627.	3.5	20
51	Activation of slag through a combination of NaOH/NaS alkali for transforming it into geopolymer slag binder mortar â€“ assessment the effects of two different Blaine fines and three different curing conditions. Journal of Materials Research and Technology, 2021, 14, 1569-1584.	5.8	20
52	Dimensional Change and Strength of Mortars Containing Fly Ash and Metakaolin. Journal of Materials in Civil Engineering, 2009, 21, 523-528.	2.9	19
53	Effect of curing time on selected properties of soil stabilized with fly ash, marble dust and waste sand for road sub-base materials. Waste Management and Research, 2017, 35, 747-756.	3.9	19
54	Conceptualisation and pilot study of shelled compressed earth block for sustainable housing in Nigeria. International Journal of Sustainable Built Environment, 2014, 3, 72-86.	3.2	18

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55	Numerical Derivation of Iso-Damaged Curve for a Reinforced Concrete Beam Subjected to Blast Loading. MATEC Web of Conferences, 2018, 149, 02016.	0.2	18
56	Sustainability and Emerging Concrete Materials and Their Relevance to the Middle East. Open Construction and Building Technology Journal, 2008, 2, 103-110.	0.7	18
57	Properties of Cement-Based Materials Containing Cathode-Ray Tube (CRT) Glass Waste as Fine Aggregatesâ€"A Review. Sustainability, 2021, 13, 11529.	3.2	18
58	Development and assessment of cement and concrete made of the burning of quinary by-product. Journal of Materials Research and Technology, 2021, 15, 3708-3721.	5.8	17
59	Flexural Behaviour Of Reinforced Concrete Beams Containing Expanded Glass As Lightweight Aggregates. Slovak Journal of Civil Engineering, 2015, 23, 1-7.	0.5	16
60	Effect of pH on the physico-mechanical properties and miscibility of methyl cellulose/poly(acrylic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	10.2	15
61	Mechanical and physical properties of concrete containing FGD waste. Magazine of Concrete Research, 2016, 68, 550-560.	2.0	15
62	Combined effects of mineral additions and curing conditions on strength and durability of self-compacting mortars exposed to aggressive solutions in the natural hot-dry climate in North African desert region. Construction and Building Materials, 2019, 197, 307-318.	7.2	15
63	Experimental study on the reuse of cathode ray tubes funnel glass as fine aggregate for developing an ecological self-compacting mortar incorporating metakaolin. Journal of Building Engineering, 2020, 27, 100951.	3.4	15
64	Thermo-mechanical and physical properties of waste granular cork composite with slag cement. Construction and Building Materials, 2021, 272, 121923.	7.2	15
65	Effect of municipal solid waste incineration bottom ash (MSWI-BA) on the structural performance of reinforced concrete (RC) beams. Journal of Engineering, Design and Technology, 2023, 21, 862-882.	1.7	15
66	Effect of Chemical Warm Mix Additive on the Properties and Mechanical Performance of Recycled Asphalt Mixtures. Buildings, 2022, 12, 874.	3.1	15
67	Antecedents and benefits of 3D and 4D modelling for construction planners. Journal of Engineering, Design and Technology, 2007, 5, 159-172.	1.7	14
68	Effect of initial curing on absorption and pore size distribution of paste and concrete containing slag. KSCE Journal of Civil Engineering, 2014, 18, 264-272.	1.9	14
69	Volume Stability of Cement Paste Containing Limestone Fines. Buildings, 2021, 11, 366.	3.1	14
70	Synthesis, physico-mechanical properties, material processing, and math models of novel superior materials doped flake of carbon and colloid flake of carbon. Journal of Materials Research and Technology, 2021, 15, 4993-5009.	5.8	14
71	A simplified model for the prediction of long term concrete drying shrinkage. KSCE Journal of Civil Engineering, 2014, 18, 2196-2208.	1.9	13
72	Sulfate resistance of mortar containing simulated FGD waste. Proceedings of Institution of Civil Engineers: Construction Materials, 2008, 161, 119-128.	1.1	12

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73	The Effect of Adding Phragmites australis Fibers on the Properties of Concrete. Buildings, 2022, 12, 278.	3.1	12
74	The influence of gypsum content on the porosity and pore-size distribution of cured PFAâ€"lime mixes. Advances in Cement Research, 1995, 7, 47-55.	1.6	11
75	Lightweight Concrete Incorporating Waste Expanded Polystyrene. Advanced Materials Research, 0, 787, 131-137.	0.3	11
76	Potential pozzolanicity of Algerian calcined bentonite used as cement replacement: optimisation of calcination temperature and effect on strength of self-compacting mortars. European Journal of Environmental and Civil Engineering, 2022, 26, 1379-1401.	2.1	11
77	Lime Activated Fly Ash Paste in the Presence of Metakaolin. Procedia Engineering, 2014, 95, 415-418.	1.2	10
78	Effect of desulphurised waste on long-term porosity and pore structure of blended cement pastes. Sustainable Environment Research, 2016, 26, 230-234.	4.2	10
79	Prediction of Deflection in Reinforced Concrete Beams Containing Plastic Waste. SSRN Electronic Journal, 0, , .	0.4	10
80	Effect of using limestone fines on the chemical shrinkage of pastes and mortars. Environmental Science and Pollution Research, 2023, 30, 25287-25298.	5.3	10
81	Effects of Surfactants on the Properties of Mortar Containing Styrene/Methacrylate Superplasticizer. Scientific World Journal, The, 2014, 2014, 1-10.	2.1	9
82	Pore size distribution of cement pastes containing fly ash-gypsum blends cured for 7 days. KSCE Journal of Civil Engineering, 2014, 18, 1091-1096.	1.9	9
83	Fracture behaviour of concrete containing limestone fines. Proceedings of Institution of Civil Engineers: Construction Materials, 2014, 167, 162-170.	1.1	9
84	Sustainability of compressed earth as a construction material. , 2016, , 309-341.		9
85	Characteristics of Engineered Waste Materials Used for Road Subbase Layers. KSCE Journal of Civil Engineering, 2020, 24, 2643-2656.	1.9	9
86	Bond to Bar Reinforcement of PET-Modified Concrete Containing Natural or Recycled Coarse Aggregates. Environments - MDPI, 2022, 9, 8.	3.3	9
87	Optimum utilisation of FGD waste in blended binders. Proceedings of Institution of Civil Engineers: Construction Materials, 2006, 159, 119-127.	1.1	8
88	Sustainable construction and low-carbon dioxide concrete: Algeria case. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2014, 167, 45-52.	0.7	8
89	Effect of limestone fines as a partial replacement of cement on the chemical, autogenous, drying shrinkage and expansion of mortars. Materials Today: Proceedings, 2022, 58, 1199-1204.	1.8	8
90	The perceptions of tenants in the refurbishment of tower blocks. Facilities, 2013, 31, 119-137.	1.6	7

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91	The sustainability of lightweight aggregates manufactured from clay wastes for reducing the carbon footprint of structural and foundation concrete. , 2016, , 209-244.		7
92	Sustainability of desulphurised (FGD) waste in construction. , 2016, , 683-715.		7
93	Selected properties of concrete containing municipal solid waste incineration bottom ash (MSWI-BA). , 2019, , .		7
94	Alternatives to Enhance the Structural Performance of PET-Modified Reinforced Concrete Beams. Environments - MDPI, 2022, 9, 37.	3.3	7
95	Voidage assessment of concrete using digital image processing. Magazine of Concrete Research, 2010, 62, 857-868.	2.0	6
96	Structural behaviour of reinforced concrete beams containing a novel lightweight aggregate. International Journal of Structural Engineering, 2016, 7, 1.	0.4	6
97	Chemical shrinkage of paste and mortar containing limestone fines. Materials Today: Proceedings, 2022, 61, 530-536.	1.8	6
98	Sustainability of sewage sludge in construction. , 2016, , 625-641.		5
99	Effect of partial replacement of cement with slag on the early-age strength of concrete. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2017, 170, 451-461.	0.8	5
100	The perceptions of contractor's and landlord's representatives in the refurbishment of tower blocks. Facilities, 2013, 31, 521-541.	1.6	4
101	Effect of synthesis parameters on the performance of alkali-activated non-conformant EN 450 pulverised fuel ash. Construction and Building Materials, 2016, 121, 453-459.	7.2	4
102	Properties of Self-Compacting Mortar Containing Slag with Different Finenesses. Civil Engineering Journal (Iran), 2021, 7, 840-856.	3.9	4
103	Application of mineral magnetic concentration measurements as a particle size proxy for urban road deposited sediments. WIT Transactions on Ecology and the Environment, 2009, , .	0.0	4
104	The Influence of the Fineness of Mineral Additions on Strength and Drying Shrinkage of Self-Compacting Mortars. Key Engineering Materials, 2014, 600, 367-374.	0.4	3
105	Principles for developing an effective framework to control minerals and rocks extraction impacts, mitigate waste and optimise sustainable quarries management. Resources Policy, 2016, 47, 164-170.	9.6	3
106	MECHANICAL AND DURABILITY PROPERTIES OF GEOPOLYMER CONCRETE â€“ A REVIEW. , 2022, 3, .		3
107	Challenges of waste management in a Nigerian leper colony. International Journal of Environmental Studies, 2008, 65, 177-189.	1.6	2
108	Waste utilization to enhance performance of road subbase fill. Journal of Engineering, Design and Technology, 2022, 20, 455-474.	1.7	2

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109	Hydration characteristics and structure formation of cement pastes containing metakaolin. MATEC Web of Conferences, 2018, 149, 01013.	0.2	2
110	Effect of Wet Curing and Hot Climate on Strength and Durability of SCC with Natural Pozzolan. Current Materials Science, 2020, 13, 58-73.	0.4	2
111	Possible utilization of wheat husk ash waste in the production of precast concrete elements. , 2008, , .		2
112	A discussion of the paper, â€œInfluence of high temperature and low humidity curing on chloride penetration in blended cement concrete,â€•by J.M. Khatib and P.S. Mangat. Cement and Concrete Research, 2003, 33, 1703.	11.0	1
113	WASTEWATER MANAGEMENT IN A NIGERIAN LEPER COLONY / RAUPSAIS UÅ½SIKRÄ–TUSIÅ² Å½MONIÅ² KOLONIJOS NUOTEKÅ² TVARKYMAS NIGERIJOJE / ÐŸÐ˜Ð'Ð•Ð"Ð•ÐÐ˜Ð• Ð' ÐŸÐžÐÐ¯Ð"ÐžÐš Ð¡Ð˜Ð¡Ð¢Ð•Ðœ Ð¡Ð¢ÐžÐšÐžÐ'Ð' ÐšÐžÐ›ÐžÐÐ˜Ð Management, 2011, 19, 260-269.		
114	The Use of Raw Sewage Sludge (RSS) As a Water Replacement in Cement-Based Mixes. , 2012, , .		1
115	Digital imaging 2D and 3D particle assessment using a flat-bed scanner. Magazine of Concrete Research, 2015, 67, 1033-1047.	2.0	1
116	Hydration characteristics and structure formation of cement pastes containing metakaolin. MATEC Web of Conferences, 2018, 149, 01013.	0.2	1
117	Numerical Derivation of Iso-Damaged Curve for a Reinforced Concrete Beam Subjected to Blast Loading. MATEC Web of Conferences, 2018, 149, 02016.	0.2	1
118	Effect of palm fibres addition on absorption characteristics and mechanical properties of concrete. , 2019, , .		1
119	Flexural characteristics of reinforced concrete beams containing lightweight aggregate in the tensile zone. , 2019, , .		1
120	Effect of duct type, size, and embedment on bond behavior of post-tensioned mono-strand concrete members. Materials Today: Proceedings, 2022, , .	1.8	1
121	Rehabilitation of reinforced concrete slabs damaged by impact loading using swimmers as shear reinforcement. Materials Today: Proceedings, 2022, , .	1.8	1
122	A reply to the discussion by M. Collepardi of the paper, â€œInfluence of high temperature and low humidity curing on chloride penetration in blended cement concreteâ€• Cement and Concrete Research, 2003, 33, 1705-1706.	11.0	0
123	Effect of Copolymer Latexes on Physicomechanical Properties of Mortar Containing High Volume Fly Ash as a Replacement Material of Cement. Scientific World Journal, The, 2014, 2014, 1-11.	2.1	0
124	Using metal plates for measurement of cement dust emission. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2014, 167, 208-215.	0.7	0
125	Properties of SCC at elevated temperature. , 2020, , 195-218.		0
126	Affordable and Sustainable Housing in Rwanda. Sustainability, 2021, 13, 4188.	3.2	0

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127	Excellence in Concrete Construction through Innovation. , 0, , .		0
128	Strength properties of high-volume fly ash (HVFA) concrete incorporating steel fibres. , 2008, , .		0
129	Effect of GGBFS and GSS on the properties of mortar. , 2008, , .		0
130	The use of mineral magnetic measurements as a particulate matter (PM) proxy for road deposited sediments (RDS): Marylebone Road, London. WIT Transactions on Ecology and the Environment, 2011, , .	0.0	0
131	Salient Parameters Influencing the Strength Properties of CementLess Wastepaper Based Lightweight Block. , 2016, , .		0
132	CHARACTERISTICS OF FRESH MIXTURE OF A NOVEL CEMENT-LESS WASTEPAPER-BASED LIGHTWEIGHT BLOCK AND ITS MOLDING PROCESSES. Proceedings of International Structural Engineering and Construction, 2017, 4, .	0.1	0
133	Numerical analysis of a reinforced concrete beam under blast loading. MATEC Web of Conferences, 2018, 149, 02063.	0.2	0
134	PRODUCTION OF LOW-COST SELF-CONSOLIDATING CONCRETE (SCC) USING MANUFACTURED AGGREGATES. , 2022, 3, .		0