Hisham Alabduljabbar

List of Publications by Year
in descending order

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85 papers	3,889 citations	156536 32 h-index	150775 59 g-index
93 all docs	93 docs citations	93 times ranked	2498 citing authors

#	Article	IF	Citations
1	Investigation of semi-supported steel plate shear walls with different infill plates under cyclic loading. Mechanics Based Design of Structures and Machines, 2023, 51, 740-763.	3.4	2
2	Dynamic attainment of mixed aspect ratio for concrete members reinforced with steel fiber under impact loading. Mechanics of Advanced Materials and Structures, 2022, 29, 1986-1995.	1.5	8
3	Effects of Sulfate and Sulfuric Acid on Efficiency of Geopolymers as Concrete Repair Materials. Gels, 2022, 8, 53.	2.1	10
4	Enhanced Acoustic Properties of a Novel Prepacked Aggregates Concrete Reinforced with Waste Polypropylene Fibers. Materials, 2022, 15, 1173.	1.3	6
5	An Integrated Approach to Using Sheep Wool as a Fibrous Material for Enhancing Strength and Transport Properties of Concrete Composites. Materials, 2022, 15, 1638.	1.3	9
6	Recycled Untreated Rubber Waste for Controlling the Alkaliâ€“Silica Reaction in Concrete. Materials, 2022, 15, 3584.	1.3	5
7	Green concrete composites production comprising metalized plastic waste fibers and palm oil fuel ash. Materials Today: Proceedings, 2021, 39, 911-916.	0.9	8
8	Green and sustainable concrete production using carpet fibers waste and palm oil fuel ash. Materials Today: Proceedings, 2021, 39, 929-934.	0.9	12
9	Sugarcane bagasse ash-based engineered geopolymer mortar incorporating propylene fibers. Journal of Building Engineering, 2021, 33, 101492.	1.6	66
10	Structural behavior of out-of-plane loaded precast lightweight EPS-foam concrete C-shaped slabs. Journal of Building Engineering, 2021, 33, 101597.	1.6	14
11	Effects of waste glass addition on the physical and mechanical properties of brick. Innovative Infrastructure Solutions, 2021, 6, 1.	1.1	24
12	State-of-the-art-review on rice husk ash: A supplementary cementitious material in concrete. Journal of King Saud University, Engineering Sciences, 2021, 33, 294-307.	1.2	48
13	Self-Fibers Compacting Concrete Properties Reinforced with Propylene Fibers. Science and Engineering of Composite Materials, 2021, 28, 64-72.	0.6	13
14	Cold-Formed Steel Lipped Channel Section Columns Undergoing Local-Overall Buckling Interaction. International Journal of Steel Structures, 2021, 21, 408-429.	0.6	7
15	Effects of incorporating wood sawdust on the firing program and the physical and mechanical properties of fired clay bricks. Journal of Building Engineering, 2021, 35, 102106.	1.6	11
16	Prediction of Compressive Strength of Rice Husk Ash Concrete through Different Machine Learning Processes. Crystals, 2021, 11, 352.	1.0	38
17	PERFORMANCE OF SUSTAINABLE GREEN CONCRETE INCORPORATED WITH FLY ASH, RICE HUSK ASH, AND STONE DUST. Acta Polytechnica, 2021, 61, 279-291.	0.3	42
18	Experimental Evaluation of Untreated and Pretreated Crumb Rubber Used in Concrete. Crystals, 2021, 11, 558.	1.0	16

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19	Mechanical and durability characteristics of sustainable concrete modified with partial substitution of waste foundry sand. Structural Concrete, 2021, 22, 2775-2790.	1.5	19
20	Effect of Recycled Coarse Aggregate and Bagasse Ash on Two-Stage Concrete. Crystals, 2021, 11, 556.	1.0	10
21	Geopolymer Concrete Compressive Strength via Artificial Neural Network, Adaptive Neuro Fuzzy Interface System, and Gene Expression Programming With K-Fold Cross Validation. Frontiers in Materials, 2021, 8, .	1.2	59
22	Waste Glass in Cement and Geopolymer Concretes: A Review on Durability and Challenges. Polymers, 2021, 13, 2071.	2.0	53
23	A step towards sustainable glass fiber reinforced concrete utilizing silica fume and waste coconut shell aggregate. Scientific Reports, 2021, 11, 12822.	1.6	62
24	Axial Compressive Strength Models of Eccentrically-Loaded Rectangular Reinforced Concrete Columns Confined with FRP. Materials, 2021, 14, 3498.	1.3	10
25	Recycling of rice husk waste for a sustainable concrete: A critical review. Journal of Cleaner Production, 2021, 312, 127734.	4.6	77
26	The Use of Calcium Lactate to Enhance the Durability and Engineering Properties of Bioconcrete. Sustainability, 2021, 13, 9269.	1.6	6
27	A Comparative Study for the Prediction of the Compressive Strength of Self-Compacting Concrete Modified with Fly Ash. Materials, 2021, 14, 4934.	1.3	66
28	A Study on the Mechanical Characteristics of Glass and Nylon Fiber Reinforced Peach Shell Lightweight Concrete. Materials, 2021, 14, 4488.	1.3	46
29	Cross-laminated timberâ€“concrete composite structural floor system: A state-of-the-art review. Engineering Failure Analysis, 2021, 130, 105766.	1.8	12
30	Performance of rubberized concrete exposed to chloride solution and continuous wetâ€“dry cycle. Innovative Infrastructure Solutions, 2021, 6, 1.	1.1	8
31	Strength and Acid Resistance of Ceramic-Based Self-Compacting Alkali-Activated Concrete: Optimizing and Predicting Assessment. Materials, 2021, 14, 6208.	1.3	7
32	Evaluation of Mechanical and Permeability Characteristics of Microfiber-Reinforced Recycled Aggregate Concrete with Different Potential Waste Mineral Admixtures. Materials, 2021, 14, 5933.	1.3	27
33	Performance of sustainable concrete containing different types of recycled plastic. Journal of Cleaner Production, 2021, 328, 129517.	4.6	40
34	Roles of Waste Glass and the Effect of Process Parameters on the Properties of Sustainable Cement and Geopolymer Concreteâ€”A State-of-the-Art Review. Polymers, 2021, 13, 3935.	2.0	15
35	Potential use of recycled plastic and rubber aggregate in cementitious materials for sustainable construction: A review. Journal of Cleaner Production, 2021, 329, 129736.	4.6	58
36	Effects of Waste Ceramic as Cement and Fine Aggregate on Durability Performance of Sustainable Mortar. Arabian Journal for Science and Engineering, 2020, 45, 3623-3634.	1.7	37

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37	Enhancement of strength and transport properties of a novel preplaced aggregate fiber reinforced concrete by adding waste polypropylene carpet fibers. Journal of Building Engineering, 2020, 27, 101003.	1.6	36
38	Properties and water penetration of structural concrete wrapped with CFRP. Results in Engineering, 2020, 5, 100094.	2.2	20
39	Performance properties of structural fibred-foamed concrete. Results in Engineering, 2020, 5, 100092.	2.2	45
40	3D-printed concrete: applications, performance, and challenges. Journal of Sustainable Cement-Based Materials, 2020, 9, 127-164.	1.7	68
41	Bituminous mineral compositions for paving with cullet. Case Studies in Construction Materials, 2020, 12, e00317.	0.8	2
42	RC beam strengthening using hinge and anchorage approach. Results in Materials, 2020, 5, 100047.	0.9	2
43	Clean production and properties of geopolymer concrete; A review. Journal of Cleaner Production, 2020, 251, 119679.	4.6	442
44	Renewable and sustainable energy production in Saudi Arabia according to Saudi Vision 2030; Current status and future prospects. Journal of Cleaner Production, 2020, 247, 119602.	4.6	119
45	The Impact Resistance and Deformation Performance of Novel Pre-Packed Aggregate Concrete Reinforced with Waste Polypropylene Fibres. Crystals, 2020, 10, 788.	1.0	14
46	Effect of Alumina Nano-Particles on Physical and Mechanical Properties of Medium Density Fiberboard. Materials, 2020, 13, 4207.	1.3	10
47	Applications of Gene Expression Programming for Estimating Compressive Strength of High-Strength Concrete. Advances in Civil Engineering, 2020, 2020, 1-23.	0.4	97
48	Bond Behavior of Cleaned Corroded Lap Spliced Beams Repaired with Carbon Fiber Reinforced Polymer Sheets and Partial Depth Repairs. Crystals, 2020, 10, 1014.	1.0	5
49	Experimental Investigation of NaOH and KOH Mixture in SCBA-Based Geopolymer Cement Composite. Materials, 2020, 13, 3437.	1.3	33
50	Utilisation of waste marble powder as low-cost cementing materials in the production of mortar. Journal of Building Engineering, 2020, 32, 101642.	1.6	21
51	Simulation of ultra-high-performance concrete mixed with hematite and barite aggregates using Monte Carlo for dry cask storage. Construction and Building Materials, 2020, 263, 120161.	3.2	40
52	Bond behavior of cleaned corroded rebar repaired by partial depth repair. Structures, 2020, 27, 813-823.	1.7	3
53	Enhanced Performance of Concrete Composites Comprising Waste Metalised Polypropylene Fibres Exposed to Aggressive Environments. Crystals, 2020, 10, 696.	1.0	14
54	New Prediction Model for the Ultimate Axial Capacity of Concrete-Filled Steel Tubes: An Evolutionary Approach. Crystals, 2020, 10, 741.	1.0	87

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55	Applications of Gene Expression Programming and Regression Techniques for Estimating Compressive Strength of Bagasse Ash based Concrete. Crystals, 2020, 10, 737.	1.0	109
56	Elevated Temperature Performance of Reactive Powder Concrete Containing Recycled Fine Aggregates. Materials, 2020, 13, 3748.	1.3	7
57	Engineering Properties of Waste Sawdust-Based Lightweight Alkali-Activated Concrete: Experimental Assessment and Numerical Prediction. Materials, 2020, 13, 5490.	1.3	32
58	Performance investigation of high-proportion Saudi-fly-ash-based concrete. Results in Engineering, 2020, 6, 100118.	2.2	31
59	Computational parameter identification of strongest influence on the shear resistance of reinforced concrete beams by fiber reinforcement polymer. Structures, 2020, 27, 118-127.	1.7	18
60	Effect of Sodium Phosphate and Calcium Nitrate Sealing Treatment on Microstructure and Corrosion Resistance of Wire Arc Sprayed Aluminum Coatings. Coatings, 2020, 10, 33.	1.2	9
61	Performances, challenges and opportunities in strengthening reinforced concrete structures by using FRPs â€“ A state-of-the-art review. Engineering Failure Analysis, 2020, 111, 104480.	1.8	128
62	Eco-friendly concrete containing recycled plastic as partial replacement for sand. Journal of Materials Research and Technology, 2020, 9, 4631-4643.	2.6	140
63	Creep and drying shrinkage performance of concrete composite comprising waste polypropylene carpet fibres and palm oil fuel ash. Journal of Building Engineering, 2020, 30, 101250.	1.6	30
64	Flexural strength improvement in bamboo reinforced concrete beams subjected to pure bending. Journal of Building Engineering, 2020, 31, 101289.	1.6	20
65	Utilization of sheep wool as potential fibrous materials in the production of concrete composites. Journal of Building Engineering, 2020, 30, 101216.	1.6	44
66	A comparative study on performance evaluation of hybrid GNPs/CNTs in conventional and self-compacting mortar. AEJ - Alexandria Engineering Journal, 2020, 59, 369-379.	3.4	32
67	Use of recycled plastic as fine aggregate in cementitious composites: A review. Construction and Building Materials, 2020, 253, 119146.	3.2	163
68	Prediction of the flexural behavior of corroded concrete beams using combined method. Structures, 2020, 25, 1000-1008.	1.7	13
69	Application of extreme learning machine in behavior of beam to column connections. Structures, 2020, 25, 861-867.	1.7	20
70	Characteristic compressive strength correlation of rubberized concrete interlocking masonry wall. Structures, 2020, 26, 169-184.	1.7	39
71	Analytical mechanics solution for measuring the deflection of strengthened RC beams using FRP plates. Case Studies in Construction Materials, 2019, 11, e00272.	0.8	10
72	Properties and utilizations of waste tire rubber in concrete: A review. Construction and Building Materials, 2019, 224, 711-731.	3.2	239

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73	Flexural strength of FRP plated RC beams using a partial-interaction displacement-based approach. Structures, 2019, 22, 405-420.	1.7	14
74	Effect of elevated temperatures on properties of sustainable concrete composites incorporating waste metalized plastic fibres. SN Applied Sciences, 2019, 1, 1.	1.5	5
75	Performance of Foundry Sand Concrete under Ambient and Elevated Temperatures. Materials, 2019, 12, 2645.	1.3	25
76	Sodium Phosphate Post-treatment on Al Coating: Morphological and Corrosion Study. Journal of Thermal Spray Technology, 2019, 28, 1511-1531.	1.6	9
77	Flexural performance of wire mesh and geotextile-strengthened reinforced concrete beam. SN Applied Sciences, 2019, 1, 1.	1.5	18
78	Strengthening of reinforced concrete beams by using fiber-reinforced polymer composites: A review. Journal of Building Engineering, 2019, 25, 100798.	1.6	168
79	Mechanical Effect of Steel Fiber on the Cement Replacement Materials of Self-Compacting Concrete. Fibers, 2019, 7, 36.	1.8	22
80	Influence of slenderness ratio on the structural performance of lightweight foam concrete composite panel. Case Studies in Construction Materials, 2019, 10, e00226.	0.8	9
81	Effect of Nanosilica on Mechanical Properties and Microstructure of PVA Fiber-Reinforced Geopolymer Composite (PVA-FRGC). Materials, 2019, 12, 3624.	1.3	29
82	Performance and failure analysis of carbon fiber-reinforced polymer (CFRP) strengthened reinforced concrete (RC) beams. SN Applied Sciences, 2019, 1, 1.	1.5	13
83	Applicable use of lightweight foam concrete composite sandwich panels as a flooring system. , 2019, , .		0
84	Study on concrete with rice husk ash. Innovative Infrastructure Solutions, 2018, 3, 1.	1.1	67
85	Properties and applications of FRP in strengthening RC structures: A review. Structures, 2018, 16, 208-238.	1.7	206