

Rayed Al Yousef

List of Publications by Year in descending order

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133
papers

5,487
citations

87888

38
h-index

98798

67
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141
all docs

141
docs citations

141
times ranked

2706
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of semi-supported steel plate shear walls with different infill plates under cyclic loading. <i>Mechanics Based Design of Structures and Machines</i> , 2023, 51, 740-763.	4.7	2
2	Effect of recycled tyre steel fiber on flexural toughness, residual strength, and chloride permeability of high-performance concrete (HPC). <i>Journal of Sustainable Cement-Based Materials</i> , 2023, 12, 141-157.	3.1	12
3	Dynamic attainment of mixed aspect ratio for concrete members reinforced with steel fiber under impact loading. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 1986-1995.	2.6	8
4	Mix design of concrete: Advanced particle packing model by developing and combining multiple frameworks. <i>Construction and Building Materials</i> , 2022, 320, 126218.	7.2	19
5	Enduring performance of alkali-activated mortars with metakaolin as granulated blast furnace slag replacement. <i>Case Studies in Construction Materials</i> , 2022, 16, e00845.	1.7	5
6	Effects of Sulfate and Sulfuric Acid on Efficiency of Geopolymers as Concrete Repair Materials. <i>Gels</i> , 2022, 8, 53.	4.5	10
7	Enhanced Acoustic Properties of a Novel Prepacked Aggregates Concrete Reinforced with Waste Polypropylene Fibers. <i>Materials</i> , 2022, 15, 1173.	2.9	6
8	An Integrated Approach to Using Sheep Wool as a Fibrous Material for Enhancing Strength and Transport Properties of Concrete Composites. <i>Materials</i> , 2022, 15, 1638.	2.9	9
9	Heat-Induced Spalling of Concrete: A Review of the Influencing Factors and Their Importance to the Phenomenon. <i>Materials</i> , 2022, 15, 1693.	2.9	11
10	A Review of the Combined Effect of Fibers and Nano Materials on the Technical Performance of Mortar and Concrete. <i>Sustainability</i> , 2022, 14, 3464.	3.2	6
11	Development of Ductile and Durable High Strength Concrete (HSC) through Interactive Incorporation of Coir Waste and Silica Fume. <i>Materials</i> , 2022, 15, 2616.	2.9	12
12	Enhanced acoustic properties of concrete composites comprising modified waste sheep wool fibers. <i>Journal of Building Engineering</i> , 2022, 56, 104815.	3.4	10
13	Green concrete composites production comprising metalized plastic waste fibers and palm oil fuel ash. <i>Materials Today: Proceedings</i> , 2021, 39, 911-916.	1.8	8
14	Green and sustainable concrete production using carpet fibers waste and palm oil fuel ash. <i>Materials Today: Proceedings</i> , 2021, 39, 929-934.	1.8	12
15	Sugarcane bagasse ash-based engineered geopolymer mortar incorporating propylene fibers. <i>Journal of Building Engineering</i> , 2021, 33, 101492.	3.4	66
16	Structural behavior of out-of-plane loaded precast lightweight EPS-foam concrete C-shaped slabs. <i>Journal of Building Engineering</i> , 2021, 33, 101597.	3.4	14
17	Texture, morphology and strength performance of self-compacting alkali-activated concrete: Role of fly ash as GBFS replacement. <i>Construction and Building Materials</i> , 2021, 270, 121368.	7.2	22
18	Morphological and corrosion studies of ammonium phosphate and caesium nitrate treated Al coating deposited by arc thermal spray process. <i>Surfaces and Interfaces</i> , 2021, 22, 100885.	3.0	2

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19	Durability performance of modified concrete incorporating fly ash and effective microorganism. Construction and Building Materials, 2021, 267, 120947.	7.2	11
20	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.	2.0	48
21	Compressive Strength of Fly-Ash-Based Geopolymer Concrete by Gene Expression Programming and Random Forest. Advances in Civil Engineering, 2021, 2021, 1-17.	0.7	74
22	Flexural behavior of RC beams strengthened with steel wire mesh and self-compacting concrete jacketing " experimental investigation and test results. Journal of Materials Research and Technology, 2021, 10, 1002-1019.	5.8	40
23	Self-Fibers Compacting Concrete Properties Reinforced with Propylene Fibers. Science and Engineering of Composite Materials, 2021, 28, 64-72.	1.4	13
24	A Step towards Sustainable Self-Compacting Concrete by Using Partial Substitution of Wheat Straw Ash and Bentonite Clay Instead of Cement. Sustainability, 2021, 13, 824.	3.2	47
25	Cold-Formed Steel Lipped Channel Section Columns Undergoing Local-Overall Buckling Interaction. International Journal of Steel Structures, 2021, 21, 408-429.	1.3	7
26	Towards Sustainable Concrete Composites through Waste Valorisation of Plastic Food Trays as Low-Cost Fibrous Materials. Sustainability, 2021, 13, 2073.	3.2	20
27	Assessment of High Performance Self-Consolidating Concrete through an Experimental and Analytical Multi-Parameter Approach. Materials, 2021, 14, 985.	2.9	10
28	Prediction of Compressive Strength of Fly Ash Based Concrete Using Individual and Ensemble Algorithm. Materials, 2021, 14, 794.	2.9	130
29	Performance evaluation of high-strength concrete reinforced with basalt fibers exposed to elevated temperatures. Journal of Building Engineering, 2021, 35, 102108.	3.4	38
30	Performance evaluation of reinforced concrete beams with corroded web reinforcement: Experimental and theoretical study. Journal of Building Engineering, 2021, 35, 102038.	3.4	8
31	Performance Evaluation of Soft Computing for Modeling the Strength Properties of Waste Substitute Green Concrete. Sustainability, 2021, 13, 2867.	3.2	29
32	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.	3.4	11
33	Prediction of Compressive Strength of Rice Husk Ash Concrete through Different Machine Learning Processes. Crystals, 2021, 11, 352.	2.2	38
34	PERFORMANCE OF SUSTAINABLE GREEN CONCRETE INCORPORATED WITH FLY ASH, RICE HUSK ASH, AND STONE DUST. Acta Polytechnica, 2021, 61, 279-291.	0.6	42
35	Predictive modeling for sustainable high-performance concrete from industrial wastes: A comparison and optimization of models using ensemble learners. Journal of Cleaner Production, 2021, 292, 126032.	9.3	204
36	Bio-inspired self-healing of concrete cracks using new B. pseudomycoides species. Journal of Materials Research and Technology, 2021, 12, 967-981.	5.8	22

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37	Mechanical and durability characteristics of sustainable concrete modified with partial substitution of waste foundry sand. <i>Structural Concrete</i> , 2021, 22, 2775-2790.	3.1	19
38	Synergistic effects of fly ash and hooked steel fibers on strength and durability properties of high strength recycled aggregate concrete. <i>Resources, Conservation and Recycling</i> , 2021, 168, 105444.	10.8	56
39	Effects of limestone filler fineness on the rheological behavior of cement – Limestone filler grouts. <i>Ain Shams Engineering Journal</i> , 2021, 12, 3569-3578.	6.1	4
40	Mathematical prediction of the compressive strength of bacterial concrete using gene expression programming. <i>Ain Shams Engineering Journal</i> , 2021, 12, 3629-3639.	6.1	29
41	Sustainable Use of Waste Polypropylene Fibres to Enhance the Abrasion and Skid Resistance of Two-Stage Concrete. <i>Sustainability</i> , 2021, 13, 5200.	3.2	2
42	Geopolymer Concrete Compressive Strength via Artificial Neural Network, Adaptive Neuro Fuzzy Interface System, and Gene Expression Programming With K-Fold Cross Validation. <i>Frontiers in Materials</i> , 2021, 8, .	2.4	59
43	Development of a sustainable concrete incorporated with effective microorganism and fly Ash: Characteristics and modeling studies. <i>Construction and Building Materials</i> , 2021, 285, 122899.	7.2	28
44	Waste Glass in Cement and Geopolymer Concretes: A Review on Durability and Challenges. <i>Polymers</i> , 2021, 13, 2071.	4.5	53
45	A Review on the Performance of Concrete Containing Non-Potable Water. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6729.	2.5	2
46	Recycling of rice husk waste for a sustainable concrete: A critical review. <i>Journal of Cleaner Production</i> , 2021, 312, 127734.	9.3	77
47	Performance Evaluation of Sustainable Concrete Comprising Waste Polypropylene Food Tray Fibers and Palm Oil Fuel Ash Exposed to Sulfate and Acid Attacks. <i>Crystals</i> , 2021, 11, 966.	2.2	10
48	Low-velocity impact, resonance, and frequency responses of FG-GPLRC viscoelastic doubly curved panel. <i>Composite Structures</i> , 2021, 269, 114000.	5.8	38
49	Evaluating mechanical properties and impact resistance of modified concrete containing ground Blast Furnace slag and discarded rubber tire crumbs. <i>Construction and Building Materials</i> , 2021, 295, 123603.	7.2	36
50	Role of L-arginine on the formation and breakdown of passive film onto the steel rebars surface in chloride contaminated concrete pore solution. <i>Journal of Molecular Liquids</i> , 2021, 337, 116454.	4.9	9
51	Synergistic effects of waste plastic food tray as low-cost fibrous materials and palm oil fuel ash on transport properties and drying shrinkage of concrete. <i>Journal of Building Engineering</i> , 2021, 42, 102826.	3.4	14
52	Cracking behavior of sea sand RC beam bonded externally with CFRP plate. <i>Structures</i> , 2021, 33, 1578-1589.	3.6	15
53	Synthesis of rubberized Alkali-activated Concrete: Experimental and numerical evaluation. <i>Construction and Building Materials</i> , 2021, 303, 124526.	7.2	14
54	Geopolymer concrete as sustainable material: A state of the art review. <i>Construction and Building Materials</i> , 2021, 306, 124762.	7.2	109

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55	Cross-laminated timber-concrete composite structural floor system: A state-of-the-art review. <i>Engineering Failure Analysis</i> , 2021, 130, 105766.	4.0	12
56	Consolidated effect of fiber-reinforcement and concrete strength class on mechanical performance, economy and footprint of concrete for pavement use. <i>Journal of King Saud University, Engineering Sciences</i> , 2021, , .	2.0	7
57	Evaluation of Mechanical and Permeability Characteristics of Microfiber-Reinforced Recycled Aggregate Concrete with Different Potential Waste Mineral Admixtures. <i>Materials</i> , 2021, 14, 5933.	2.9	27
58	Performance of sustainable concrete containing different types of recycled plastic. <i>Journal of Cleaner Production</i> , 2021, 328, 129517.	9.3	40
59	Self-healing epoxy coating doped with <i>Elaeisis guineensis</i> /silver nanoparticles: A robust corrosion inhibitor. <i>Construction and Building Materials</i> , 2021, 312, 125396.	7.2	13
60	Potential use of recycled plastic and rubber aggregate in cementitious materials for sustainable construction: A review. <i>Journal of Cleaner Production</i> , 2021, 329, 129736.	9.3	58
61	Effects of Waste Ceramic as Cement and Fine Aggregate on Durability Performance of Sustainable Mortar. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 3623-3634.	3.0	37
62	Enhancement of strength and transport properties of a novel preplaced aggregate fiber reinforced concrete by adding waste polypropylene carpet fibers. <i>Journal of Building Engineering</i> , 2020, 27, 101003.	3.4	36
63	Properties and water penetration of structural concrete wrapped with CFRP. <i>Results in Engineering</i> , 2020, 5, 100094.	5.1	20
64	Performance properties of structural fibred-foamed concrete. <i>Results in Engineering</i> , 2020, 5, 100092.	5.1	45
65	3D-printed concrete: applications, performance, and challenges. <i>Journal of Sustainable Cement-Based Materials</i> , 2020, 9, 127-164.	3.1	68
66	Bituminous mineral compositions for paving with cullet. <i>Case Studies in Construction Materials</i> , 2020, 12, e00317.	1.7	2
67	RC beam strengthening using hinge and anchorage approach. <i>Results in Materials</i> , 2020, 5, 100047.	1.8	2
68	Clean production and properties of geopolymers concrete; A review. <i>Journal of Cleaner Production</i> , 2020, 251, 119679.	9.3	442
69	Renewable and sustainable energy production in Saudi Arabia according to Saudi Vision 2030; Current status and future prospects. <i>Journal of Cleaner Production</i> , 2020, 247, 119602.	9.3	119
70	The Impact Resistance and Deformation Performance of Novel Pre-Packed Aggregate Concrete Reinforced with Waste Polypropylene Fibres. <i>Crystals</i> , 2020, 10, 788.	2.2	14
71	Effect of Alumina Nano-Particles on Physical and Mechanical Properties of Medium Density Fiberboard. <i>Materials</i> , 2020, 13, 4207.	2.9	10
72	Applications of Gene Expression Programming for Estimating Compressive Strength of High-Strength Concrete. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-23.	0.7	97

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73	Durability and thermal properties of prepacked aggregate concrete reinforced with waste polypropylene fibers. Journal of Building Engineering, 2020, 32, 101723.	3.4	23
74	Enhanced performance of nano-palm oil ash-based green mortar against sulphate environment. Journal of Building Engineering, 2020, 32, 101640.	3.4	15
75	Bond Behavior of Cleaned Corroded Lap Spliced Beams Repaired with Carbon Fiber Reinforced Polymer Sheets and Partial Depth Repairs. Crystals, 2020, 10, 1014.	2.2	5
76	Experimental Investigation of NaOH and KOH Mixture in SCBA-Based Geopolymer Cement Composite. Materials, 2020, 13, 3437.	2.9	33
77	Utilisation of waste marble powder as low-cost cementing materials in the production of mortar. Journal of Building Engineering, 2020, 32, 101642.	3.4	21
78	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.	7.2	40
79	A Comparative Study of Random Forest and Genetic Engineering Programming for the Prediction of Compressive Strength of High Strength Concrete (HSC). Applied Sciences (Switzerland), 2020, 10, 7330.	2.5	145
80	Enhanced Performance of Concrete Composites Comprising Waste Metalised Polypropylene Fibres Exposed to Aggressive Environments. Crystals, 2020, 10, 696.	2.2	14
81	New Prediction Model for the Ultimate Axial Capacity of Concrete-Filled Steel Tubes: An Evolutionary Approach. Crystals, 2020, 10, 741.	2.2	87
82	Applications of Gene Expression Programming and Regression Techniques for Estimating Compressive Strength of Bagasse Ash based Concrete. Crystals, 2020, 10, 737.	2.2	109
83	Elevated Temperature Performance of Reactive Powder Concrete Containing Recycled Fine Aggregates. Materials, 2020, 13, 3748.	2.9	7
84	Engineering Properties of Waste Sawdust-Based Lightweight Alkali-Activated Concrete: Experimental Assessment and Numerical Prediction. Materials, 2020, 13, 5490.	2.9	32
85	Effect of Varying Steel Fiber Content on Strength and Permeability Characteristics of High Strength Concrete with Micro Silica. Materials, 2020, 13, 5739.	2.9	53
86	Investigating BIM Implementation Barriers and Issues in Pakistan Using ISM Approach. Applied Sciences (Switzerland), 2020, 10, 7250.	2.5	22
87	Performance investigation of high-proportion Saudi-fly-ash-based concrete. Results in Engineering, 2020, 6, 100118.	5.1	31
88	Computational parameter identification of strongest influence on the shear resistance of reinforced concrete beams by fiber reinforcement polymer. Structures, 2020, 27, 118-127.	3.6	18
89	Waste ceramic as low cost and eco-friendly materials in the production of sustainable mortars. Journal of Cleaner Production, 2020, 266, 121825.	9.3	100
90	Drying shrinkage and creep properties of prepacked aggregate concrete reinforced with waste polypropylene fibers. Journal of Building Engineering, 2020, 32, 101522.	3.4	43

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91	The Utilization of Recycled Aggregate in High Performance Concrete: A Review. Journal of Materials Research and Technology, 2020, 9, 8469-8481.	5.8	72
92	Durability and mechanical properties of seashell partially-replaced cement. Journal of Building Engineering, 2020, 31, 101328.	3.4	42
93	Effect of Sodium Phosphate and Calcium Nitrate Sealing Treatment on Microstructure and Corrosion Resistance of Wire Arc Sprayed Aluminum Coatings. Coatings, 2020, 10, 33.	2.6	9
94	Performances, challenges and opportunities in strengthening reinforced concrete structures by using FRPs – A state-of-the-art review. Engineering Failure Analysis, 2020, 111, 104480.	4.0	128
95	Eco-friendly concrete containing recycled plastic as partial replacement for sand. Journal of Materials Research and Technology, 2020, 9, 4631-4643.	5.8	140
96	Effect of Coconut Fiber Length and Content on Properties of High Strength Concrete. Materials, 2020, 13, 1075.	2.9	101
97	Sustainable Use of Waste Polypropylene Fibers and Palm Oil Fuel Ash in the Production of Novel Prepacked Aggregate Fiber-Reinforced Concrete. Sustainability, 2020, 12, 4871.	3.2	40
98	Experimental Investigation of a New Ecological Block Made by Mixing Gypsum Plaster and Desert Sand. Arabian Journal for Science and Engineering, 2020, 45, 4037-4052.	3.0	6
99	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.	3.4	30
100	Flexural strength improvement in bamboo reinforced concrete beams subjected to pure bending. Journal of Building Engineering, 2020, 31, 101289.	3.4	20
101	Production of sustainable mortar comprising waste ceramic nanoparticles. , 2020, , 559-581.		1
102	Utilization of sheep wool as potential fibrous materials in the production of concrete composites. Journal of Building Engineering, 2020, 30, 101216.	3.4	44
103	A comparative study on performance evaluation of hybrid GNPs/CNTs in conventional and self-compacting mortar. AEJ - Alexandria Engineering Journal, 2020, 59, 369-379.	6.4	32
104	Use of recycled plastic as fine aggregate in cementitious composites: A review. Construction and Building Materials, 2020, 253, 119146.	7.2	163
105	Prediction of the flexural behavior of corroded concrete beams using combined method. Structures, 2020, 25, 1000-1008.	3.6	13
106	Application of extreme learning machine in behavior of beam to column connections. Structures, 2020, 25, 861-867.	3.6	20
107	Characteristic compressive strength correlation of rubberized concrete interlocking masonry wall. Structures, 2020, 26, 169-184.	3.6	39
108	Analytical mechanics solution for measuring the deflection of strengthened RC beams using FRP plates. Case Studies in Construction Materials, 2019, 11, e00272.	1.7	10

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109	Performance Evaluation of Pre-fabricated Footing Using Cold-Formed Steel of Lipped C-Channel Section. Arabian Journal for Science and Engineering, 2019, 44, 8225-8238.	3.0	4
110	Properties and utilizations of waste tire rubber in concrete: A review. Construction and Building Materials, 2019, 224, 711-731.	7.2	239
111	Flexural strength of FRP plated RC beams using a partial-interaction displacement-based approach. Structures, 2019, 22, 405-420.	3.6	14
112	Effect of elevated temperatures on properties of sustainable concrete composites incorporating waste metalized plastic fibres. SN Applied Sciences, 2019, 1, 1.	2.9	5
113	Performance of Foundry Sand Concrete under Ambient and Elevated Temperatures. Materials, 2019, 12, 2645.	2.9	25
114	Sodium Phosphate Post-treatment on Al Coating: Morphological and Corrosion Study. Journal of Thermal Spray Technology, 2019, 28, 1511-1531.	3.1	9
115	Flexural performance of wire mesh and geotextile-strengthened reinforced concrete beam. SN Applied Sciences, 2019, 1, 1.	2.9	18
116	Mechanics-based approach for predicting the short-term deflection of CFRP plated RC beams. Composite Structures, 2019, 225, 111169.	5.8	22
117	Effects of Incorporation of Marble Powder Obtained by Recycling Waste Sludge and Limestone Powder on Rheology, Compressive Strength, and Durability of Self-Compacting Concrete. Advances in Materials Science and Engineering, 2019, 2019, 1-15.	1.8	18
118	Strengthening of reinforced concrete beams by using fiber-reinforced polymer composites: A review. Journal of Building Engineering, 2019, 25, 100798.	3.4	168
119	Performance evaluation of green mortar comprising ceramic waste as cement and fine aggregates replacement. SN Applied Sciences, 2019, 1, 1.	2.9	15
120	Mechanical Effect of Steel Fiber on the Cement Replacement Materials of Self-Compacting Concrete. Fibers, 2019, 7, 36.	4.0	22
121	Experimental Study of New Insulation Lightweight Concrete Block Floor Based on Perlite Aggregate, Natural Sand, and Sand Obtained from Marble Waste. Advances in Materials Science and Engineering, 2019, 2019, 1-14.	1.8	22
122	Influence of slenderness ratio on the structural performance of lightweight foam concrete composite panel. Case Studies in Construction Materials, 2019, 10, e00226.	1.7	9
123	Performance and failure analysis of carbon fiber-reinforced polymer (CFRP) strengthened reinforced concrete (RC) beams. SN Applied Sciences, 2019, 1, 1.	2.9	13
124	Application of correlation analysis techniques to surface wave testing for the evaluation of reinforced concrete structural elements. NDT and E International, 2019, 102, 68-76.	3.7	13
125	Applicable use of lightweight foam concrete composite sandwich panels as a flooring system. , 2019, , .		0
126	Crack growth modeling of tension lap spliced reinforced concrete beams strengthened with fibre reinforced polymer wrapping under fatigue loading. Construction and Building Materials, 2018, 166, 345-355.	7.2	11

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127	Experimental and Theoretical Study of a New Technique for Mixing Self-Compacting Concrete with Marble Sludge Grout. <i>Advances in Civil Engineering</i> , 2018, 2018, 1-11.	0.7	11
128	Study of the Effects of Marble Powder Amount on the Self-Compacting Concretes Properties by Microstructure Analysis on Cement-Marble Powder Pastes. <i>Advances in Civil Engineering</i> , 2018, 2018, 1-13.	0.7	17
129	Properties and applications of FRP in strengthening RC structures: A review. <i>Structures</i> , 2018, 16, 208-238.	3.6	206
130	Development of new baked bricks based on clay and sawdust. <i>MATEC Web of Conferences</i> , 2018, 149, 01040.	0.2	0
131	Fatigue Bond Stress–Slip Behavior of Lap Splices in the Reinforcement of Unwrapped and FRP-Wrapped Concrete Beams. <i>Journal of Composites for Construction</i> , 2016, 20, 04016039.	3.2	6
132	Effect of the thickness of concrete cover on the fatigue bond strength of GFRP wrapped and non-wrapped reinforced concrete beams containing a lap splice. <i>Structures</i> , 2016, 6, 1-8.	3.6	9
133	Effect of FRP Wrapping on Fatigue Bond Behavior of Spliced Concrete Beams. <i>Journal of Composites for Construction</i> , 2016, 20, .	3.2	12