

# Fahid Aslam

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84  
papers

905  
citations

16  
h-index

25  
g-index

89  
ext. papers

2,125  
ext. citations

3.7  
avg, IF

5.53  
L-index

#	Paper	IF	Citations
84	Predicting the Mechanical Properties of RCA-Based Concrete Using Supervised Machine Learning Algorithms.. <i>Materials</i> , <b>2022</b> , 15,	3.5	2
83	Concrete filled double steel tube columns incorporating UPVC pipes under uniaxial compressive load at ambient and elevated temperature. <i>Case Studies in Construction Materials</i> , <b>2022</b> , 16, e00907	2.7	0
82	Impact Resistance of Styrene-Butadiene Rubber (SBR) Latex-Modified Fiber-Reinforced Concrete: The Role of Aggregate Size.. <i>Materials</i> , <b>2022</b> , 15,	3.5	2
81	Experimental study on the properties improvement of hybrid graphene oxide fiber-reinforced composite concrete. <i>Diamond and Related Materials</i> , <b>2022</b> , 124, 108883	3.5	2
80	Machine learning modeling integrating experimental analysis for predicting the properties of sugarcane bagasse ash concrete. <i>Construction and Building Materials</i> , <b>2022</b> , 314, 125634	6.7	2
79	Compressive strength prediction of fly ash-based geopolymer concrete via advanced machine learning techniques. <i>Case Studies in Construction Materials</i> , <b>2022</b> , 16, e00840	2.7	14
78	A comprehensive review on fire damage assessment of reinforced concrete structures. <i>Case Studies in Construction Materials</i> , <b>2022</b> , 16, e00843	2.7	1
77	A systematic review of waste materials in cement-based composites for construction applications. <i>Journal of Building Engineering</i> , <b>2022</b> , 45, 103447	5.2	12
76	Numerical Analysis of Piled-Raft Foundations on Multi-Layer Soil Considering Settlement and Swelling. <i>Buildings</i> , <b>2022</b> , 12, 356	3.2	2
75	Application of Soft Computing Techniques to Predict the Strength of Geopolymer Composites.. <i>Polymers</i> , <b>2022</b> , 14,	4.5	7
74	New prediction models for the compressive strength and dry-thermal conductivity of bio-composites using novel machine learning algorithms. <i>Journal of Cleaner Production</i> , <b>2022</b> , 350, 131364	10.3	3
73	Predictive modeling of compressive strength of sustainable rice husk ash concrete: Ensemble learner optimization and comparison. <i>Journal of Cleaner Production</i> , <b>2022</b> , 348, 131285	10.3	6
72	Prediction of Compressive Strength of Fly-Ash-Based Concrete Using Ensemble and Non-Ensemble Supervised Machine-Learning Approaches. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 361	2.6	5
71	Comparison of Prediction Models Based on Machine Learning for the Compressive Strength Estimation of Recycled Aggregate Concrete. <i>Materials</i> , <b>2022</b> , 15, 3430	3.5	7
70	Prediction of Mechanical Properties of Fly-Ash/Slag-Based Geopolymer Concrete Using Ensemble and Non-Ensemble Machine-Learning Techniques. <i>Materials</i> , <b>2022</b> , 15, 3478	3.5	1
69	Coupled effect of waste tire rubber and steel fibers on the mechanical properties of concrete. <i>Materials Science-Poland</i> , <b>2022</b> , 40, 49-59	0.6	0
68	Manufacturing of Sustainable Untreated Coal Ash Masonry Units for Structural Applications. <i>Materials</i> , <b>2022</b> , 15, 4003	3.5	0

67	Predicting the Ultimate Axial Capacity of Uniaxially Loaded CFST Columns Using Multiphysics Artificial Intelligence.. <i>Materials</i> , <b>2021</b> , 15,	3.5	10
66	Effects of waste glass and waste marble on mechanical and durability performance of concrete. <i>Scientific Reports</i> , <b>2021</b> , 11, 21525	4.9	12
65	FE Modelling and Analysis of Beam Column Joint Using Reactive Powder Concrete. <i>Crystals</i> , <b>2021</b> , 11, 1372	2.3	6
64	Axial Behavior of Concrete-Filled Double-Skin Tubular Stub Columns Incorporating PVC Pipes. <i>Crystals</i> , <b>2021</b> , 11, 1434	2.3	1
63	Performance of sustainable self-compacting fiber reinforced concrete with substitution of marble waste (MW) and coconut fibers (CFs). <i>Scientific Reports</i> , <b>2021</b> , 11, 23184	4.9	4
62	Computation of High-Performance Concrete Compressive Strength Using Standalone and Ensembled Machine Learning Techniques. <i>Materials</i> , <b>2021</b> , 14,	3.5	8
61	A scientometric analysis approach to analyze the present research on recycled aggregate concrete. <i>Journal of Building Engineering</i> , <b>2021</b> , 46, 103679	5.2	9
60	Forecasting Strength of CFRP Confined Concrete Using Multi Expression Programming. <i>Materials</i> , <b>2021</b> , 14,	3.5	8
59	Experimental Study on Mechanical Performance of Recycled Fine Aggregate Concrete Reinforced With Discarded Carbon Fibers. <i>Frontiers in Materials</i> , <b>2021</b> , 8,	4	2
58	A comprehensive overview of geopolymers composites: A bibliometric analysis and literature review. <i>Case Studies in Construction Materials</i> , <b>2021</b> , e00830	2.7	8
57	Potential use of recycled plastic and rubber aggregate in cementitious materials for sustainable construction: A review. <i>Journal of Cleaner Production</i> , <b>2021</b> , 329, 129736	10.3	14
56	Mechanical properties and durability assessment of nylon fiber reinforced self-compacting concrete. <i>Journal of Engineered Fibers and Fabrics</i> , <b>2021</b> , 16, 155892502110628	0.9	0
55	Compressive strength prediction of rice husk ash using multiphysics genetic expression programming. <i>Ain Shams Engineering Journal</i> , <b>2021</b> , 13, 101593-101593	4.4	11
54	Effect of Quarry Rock Dust as a Binder on the Properties of Fly Ash and Slag-Based Geopolymer Concrete Exposed to Ambient and Elevated Temperatures. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 9192 <sup>2.6</sup>	2.6	3
53	Application of Advanced Machine Learning Approaches to Predict the Compressive Strength of Concrete Containing Supplementary Cementitious Materials. <i>Materials</i> , <b>2021</b> , 14,	3.5	15
52	Prediction of Geopolymer Concrete Compressive Strength Using Novel Machine Learning Algorithms. <i>Polymers</i> , <b>2021</b> , 13,	4.5	6
51	Machine Learning-Based Modeling with Optimization Algorithm for Predicting Mechanical Properties of Sustainable Concrete. <i>Advances in Civil Engineering</i> , <b>2021</b> , 2021, 1-15	1.3	9
50	Performance Evaluation of Soft Computing for Modeling the Strength Properties of Waste Substitute Green Concrete. <i>Sustainability</i> , <b>2021</b> , 13, 2867	3.6	14

49	Prediction of Compressive Strength of Rice Husk Ash Concrete through Different Machine Learning Processes. <i>Crystals</i> , <b>2021</b> , 11, 352	2.3	8
48	Predictive modeling for sustainable high-performance concrete from industrial wastes: A comparison and optimization of models using ensemble learners. <i>Journal of Cleaner Production</i> , <b>2021</b> , 292, 126032	10.3	47
47	Experimental Evaluation of Untreated and Pretreated Crumb Rubber Used in Concrete. <i>Crystals</i> , <b>2021</b> , 11, 558	2.3	5
46	Mechanical and durability characteristics of sustainable concrete modified with partial substitution of waste foundry sand. <i>Structural Concrete</i> , <b>2021</b> , 22, 2775	2.6	6
45	Effect of Recycled Coarse Aggregate and Bagasse Ash on Two-Stage Concrete. <i>Crystals</i> , <b>2021</b> , 11, 556	2.3	2
44	Effect of Incorporation of Rice Husk Ash Instead of Cement on the Performance of Steel Fibers Reinforced Concrete. <i>Frontiers in Materials</i> , <b>2021</b> , 8,	4	10
43	A step towards sustainable glass fiber reinforced concrete utilizing silica fume and waste coconut shell aggregate. <i>Scientific Reports</i> , <b>2021</b> , 11, 12822	4.9	17
42	Axial Compressive Strength Models of Eccentrically-Loaded Rectangular Reinforced Concrete Columns Confined with FRP. <i>Materials</i> , <b>2021</b> , 14,	3.5	3
41	Compressive Strength Prediction via Gene Expression Programming (GEP) and Artificial Neural Network (ANN) for Concrete Containing RCA. <i>Buildings</i> , <b>2021</b> , 11, 324	3.2	23
40	Sugarcane bagasse ash-based engineered geopolymer mortar incorporating propylene fibers. <i>Journal of Building Engineering</i> , <b>2021</b> , 33, 101492	5.2	36
39	Morphological and corrosion studies of ammonium phosphate and caesium nitrate treated Al coating deposited by arc thermal spray process. <i>Surfaces and Interfaces</i> , <b>2021</b> , 22, 100885	4.1	2
38	Compressive Strength of Fly-Ash-Based Geopolymer Concrete by Gene Expression Programming and Random Forest. <i>Advances in Civil Engineering</i> , <b>2021</b> , 2021, 1-17	1.3	30
37	Self-Fibers Compacting Concrete Properties Reinforced with Propylene Fibers. <i>Science and Engineering of Composite Materials</i> , <b>2021</b> , 28, 64-72	1.5	6
36	A Step towards Sustainable Self-Compacting Concrete by Using Partial Substitution of Wheat Straw Ash and Bentonite Clay Instead of Cement. <i>Sustainability</i> , <b>2021</b> , 13, 824	3.6	17
35	Prediction of Compressive Strength of Fly Ash Based Concrete Using Individual and Ensemble Algorithm. <i>Materials</i> , <b>2021</b> , 14,	3.5	37
34	Mechanical and durability characteristics of sustainable coconut fibers reinforced concrete with incorporation of marble powder. <i>Materials Research Express</i> , <b>2021</b> , 8, 075505	1.7	12
33	A Comparative Study for the Prediction of the Compressive Strength of Self-Compacting Concrete Modified with Fly Ash. <i>Materials</i> , <b>2021</b> , 14,	3.5	16
32	Seismic Hazard Assessment of Shigo Kas Hydro-Power Project (Khyber Pakhtunkhwa, Pakistan). <i>Buildings</i> , <b>2021</b> , 11, 349	3.2	1

31	A Study on the Mechanical Characteristics of Glass and Nylon Fiber Reinforced Peach Shell Lightweight Concrete. <i>Materials</i> , <b>2021</b> , 14,	3.5	13
30	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> , <b>2021</b> , 337, 116454	6	1
29	Comparative study of mechanical properties between irradiated and regular plastic waste as a replacement of cement and fine aggregate for manufacturing of green concrete. <i>Ain Shams Engineering Journal</i> , <b>2021</b> , 13, 101563-101563	4.4	5
28	Multigene Expression Programming Based Forecasting the Hardened Properties of Sustainable Bagasse Ash Concrete. <i>Materials</i> , <b>2021</b> , 14,	3.5	5
27	Predicting the compressive strength of concrete with fly ash admixture using machine learning algorithms. <i>Construction and Building Materials</i> , <b>2021</b> , 308, 125021	6.7	30
26	Geopolymer concrete as sustainable material: A state of the art review. <i>Construction and Building Materials</i> , <b>2021</b> , 306, 124762	6.7	16
25	A scientometric review of waste material utilization in concrete for sustainable construction. <i>Case Studies in Construction Materials</i> , <b>2021</b> , 15, e00683	2.7	17
24	Sustainable approach of using sugarcane bagasse ash in cement-based composites: A systematic review. <i>Case Studies in Construction Materials</i> , <b>2021</b> , 15, e00698	2.7	15
23	Predictive Modeling of Mechanical Properties of Silica Fume-Based Green Concrete Using Artificial Intelligence Approaches: MLPNN, ANFIS, and GEP.. <i>Materials</i> , <b>2021</b> , 14,	3.5	8
22	Modeling of Mechanical Properties of Silica Fume-Based Green Concrete Using Machine Learning Techniques.. <i>Polymers</i> , <b>2021</b> , 14,	4.5	8
21	Life Cycle Impact Assessment of Recycled Aggregate Concrete, Geopolymer Concrete, and Recycled Aggregate-Based Geopolymer Concrete. <i>Sustainability</i> , <b>2021</b> , 13, 13515	3.6	5
20	Simulation of Depth of Wear of Eco-Friendly Concrete Using Machine Learning Based Computational Approaches.. <i>Materials</i> , <b>2021</b> , 15,	3.5	9
19	Investigating BIM Implementation Barriers and Issues in Pakistan Using ISM Approach. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 7250	2.6	7
18	Effect of Sodium Phosphate and Calcium Nitrate Sealing Treatment on Microstructure and Corrosion Resistance of Wire Arc Sprayed Aluminum Coatings. <i>Coatings</i> , <b>2020</b> , 10, 33	2.9	6
17	Effect of Coconut Fiber Length and Content on Properties of High Strength Concrete. <i>Materials</i> , <b>2020</b> , 13,	3.5	48
16	Flexural strength improvement in bamboo reinforced concrete beams subjected to pure bending. <i>Journal of Building Engineering</i> , <b>2020</b> , 31, 101289	5.2	7
15	A comparative study on performance evaluation of hybrid GNPs/CNTs in conventional and self-compacting mortar. <i>AEJ - Alexandria Engineering Journal</i> , <b>2020</b> , 59, 369-379	6.1	16
14	Applications of Gene Expression Programming for Estimating Compressive Strength of High-Strength Concrete. <i>Advances in Civil Engineering</i> , <b>2020</b> , 2020, 1-23	1.3	37

13	Experimental Investigation of NaOH and KOH Mixture in SCBA-Based Geopolymer Cement Composite. <i>Materials</i> , <b>2020</b> , 13,	3.5	8
12	A Comparative Study of Random Forest and Genetic Engineering Programming for the Prediction of Compressive Strength of High Strength Concrete (HSC). <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 7330 <sup>2.6</sup>		47
11	New Prediction Model for the Ultimate Axial Capacity of Concrete-Filled Steel Tubes: An Evolutionary Approach. <i>Crystals</i> , <b>2020</b> , 10, 741	2.3	38
10	Applications of Gene Expression Programming and Regression Techniques for Estimating Compressive Strength of Bagasse Ash based Concrete. <i>Crystals</i> , <b>2020</b> , 10, 737	2.3	45
9	Elevated Temperature Performance of Reactive Powder Concrete Containing Recycled Fine Aggregates. <i>Materials</i> , <b>2020</b> , 13,	3.5	2
8	Performance of Foundry Sand Concrete under Ambient and Elevated Temperatures. <i>Materials</i> , <b>2019</b> , 12,	3.5	10
7	Sodium Phosphate Post-treatment on Al Coating: Morphological and Corrosion Study. <i>Journal of Thermal Spray Technology</i> , <b>2019</b> , 28, 1511-1531	2.5	6
6	Coupled effect of coarse aggregate and micro-silica on the relation between strength and elasticity of high performance concrete. <i>Construction and Building Materials</i> , <b>2018</b> , 175, 321-332	6.7	2
5	Analysis of punching shear in high strength RC panels-experiments, comparison with codes and FEM results. <i>Computers and Concrete</i> , <b>2016</b> , 17, 739-760		3
4	Coupled Effect of Coarse Aggregate Type and Silica Fume on Creep Coefficients of High-Strength Concrete. <i>Journal of Materials in Civil Engineering</i> , <b>2016</b> , 28, 04016159	3	1
3	Economical-Structural Performance of Steel Moment Resisting Building Frames Using the Section Variation Technique. <i>Revista De La Construccion</i> , <b>2014</b> , 13, 41-46	1.2	2
2	Bond behaviour of high-strength concrete flexural member under low cyclic fatigue loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2013</b> , 36, 602-613	3	0
1	To evaluate the performance of waste marble powder and wheat straw ash in steel fiber reinforced concrete. <i>Structural Concrete</i> ,	2.6	1