

Ayaz Ahmad

List of Publications by Year in descending order

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34
papers

1,713
citations

218592

26
h-index

377752

34
g-index

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all docs

34
docs citations

34
times ranked

275
citing authors

#	ARTICLE	IF	CITATIONS
1	A systematic review of waste materials in cement-based composites for construction applications. <i>Journal of Building Engineering</i> , 2022, 45, 103447.	1.6	38
2	A scientometric analysis approach to analyze the present research on recycled aggregate concrete. <i>Journal of Building Engineering</i> , 2022, 46, 103679.	1.6	31
3	A comprehensive overview of geopolymers composites: A bibliometric analysis and literature review. <i>Case Studies in Construction Materials</i> , 2022, 16, e00830.	0.8	32
4	Compressive strength prediction of fly ash-based geopolymer concrete via advanced machine learning techniques. <i>Case Studies in Construction Materials</i> , 2022, 16, e00840.	0.8	74
5	Predicting the Mechanical Properties of RCA-Based Concrete Using Supervised Machine Learning Algorithms. <i>Materials</i> , 2022, 15, 647.	1.3	50
6	Application of Soft Computing Techniques to Predict the Strength of Geopolymer Composites. <i>Polymers</i> , 2022, 14, 1074.	2.0	43
7	Prediction of Compressive Strength of Fly-Ash-Based Concrete Using Ensemble and Non-Ensemble Supervised Machine-Learning Approaches. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 361.	1.3	18
8	Plastic Waste Management Strategies and Their Environmental Aspects: A Scientometric Analysis and Comprehensive Review. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 4556.	1.2	66
9	Predicting the Splitting Tensile Strength of Recycled Aggregate Concrete Using Individual and Ensemble Machine Learning Approaches. <i>Crystals</i> , 2022, 12, 569.	1.0	23
10	Machine Learning Prediction Models to Evaluate the Strength of Recycled Aggregate Concrete. <i>Materials</i> , 2022, 15, 2823.	1.3	46
11	Evaluation of Artificial Intelligence Methods to Estimate the Compressive Strength of Geopolymers. <i>Gels</i> , 2022, 8, 271.	2.1	39
12	Comparison of Prediction Models Based on Machine Learning for the Compressive Strength Estimation of Recycled Aggregate Concrete. <i>Materials</i> , 2022, 15, 3430.	1.3	38
13	Comparative Study of Experimental and Modeling of Fly Ash-Based Concrete. <i>Materials</i> , 2022, 15, 3762.	1.3	32
14	Split Tensile Strength Prediction of Recycled Aggregate-Based Sustainable Concrete Using Artificial Intelligence Methods. <i>Materials</i> , 2022, 15, 4296.	1.3	18
15	A Comprehensive Review of Types, Properties, Treatment Methods and Application of Plant Fibers in Construction and Building Materials. <i>Materials</i> , 2022, 15, 4362.	1.3	20
16	Assessment of Artificial Intelligence Strategies to Estimate the Strength of Geopolymer Composites and Influence of Input Parameters. <i>Polymers</i> , 2022, 14, 2509.	2.0	23
17	Exploring the Use of Waste Marble Powder in Concrete and Predicting Its Strength with Different Advanced Algorithms. <i>Materials</i> , 2022, 15, 4108.	1.3	21
18	Potential use of waste eggshells in cement-based materials: A bibliographic analysis and review of the material properties. <i>Construction and Building Materials</i> , 2022, 344, 128143.	3.2	29

#	ARTICLE	IF	CITATIONS
19	A Systematic Review of the Research Development on the Application of Machine Learning for Concrete. <i>Materials</i> , 2022, 15, 4512.	1.3	14
20	Comparative study of evolutionary artificial intelligence approaches to predict the rheological properties of fresh concrete. <i>Materials Today Communications</i> , 2022, 32, 103964.	0.9	10
21	Prediction of Compressive Strength of Fly Ash Based Concrete Using Individual and Ensemble Algorithm. <i>Materials</i> , 2021, 14, 794.	1.3	130
22	Application of Novel Machine Learning Techniques for Predicting the Surface Chloride Concentration in Concrete Containing Waste Material. <i>Materials</i> , 2021, 14, 2297.	1.3	64
23	Compressive Strength Prediction via Gene Expression Programming (GEP) and Artificial Neural Network (ANN) for Concrete Containing RCA. <i>Buildings</i> , 2021, 11, 324.	1.4	107
24	Comparative Study of Supervised Machine Learning Algorithms for Predicting the Compressive Strength of Concrete at High Temperature. <i>Materials</i> , 2021, 14, 4222.	1.3	83
25	An Experimental and Empirical Study on the Use of Waste Marble Powder in Construction Material. <i>Materials</i> , 2021, 14, 3829.	1.3	57
26	Analyzing the Compressive Strength of Ceramic Waste-Based Concrete Using Experiment and Artificial Neural Network (ANN) Approach. <i>Materials</i> , 2021, 14, 4518.	1.3	41
27	Predicting the compressive strength of concrete with fly ash admixture using machine learning algorithms. <i>Construction and Building Materials</i> , 2021, 308, 125021.	3.2	166
28	A scientometric review of waste material utilization in concrete for sustainable construction. <i>Case Studies in Construction Materials</i> , 2021, 15, e00683.	0.8	48
29	Sustainable approach of using sugarcane bagasse ash in cement-based composites: A systematic review. <i>Case Studies in Construction Materials</i> , 2021, 15, e00698.	0.8	35
30	Application of Advanced Machine Learning Approaches to Predict the Compressive Strength of Concrete Containing Supplementary Cementitious Materials. <i>Materials</i> , 2021, 14, 5762.	1.3	67
31	Prediction of Geopolymer Concrete Compressive Strength Using Novel Machine Learning Algorithms. <i>Polymers</i> , 2021, 13, 3389.	2.0	52
32	Computation of High-Performance Concrete Compressive Strength Using Standalone and Ensembled Machine Learning Techniques. <i>Materials</i> , 2021, 14, 7034.	1.3	39
33	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.	4.6	58
34	Effect of Coconut Fiber Length and Content on Properties of High Strength Concrete. <i>Materials</i> , 2020, 13, 1075.	1.3	101