

# Ali Behnood

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

6,045  
citations

76196

40  
h-index

106150

65  
g-index

71  
all docs

71  
docs citations

71  
times ranked

3628  
citing authors

#	ARTICLE	IF	CITATIONS
1	Utilization of copper slag in cement and concrete. Resources, Conservation and Recycling, 2008, 52, 1115-1120.	5.3	394
2	Morphology, rheology, and physical properties of polymer-modified asphalt binders. European Polymer Journal, 2019, 112, 766-791.	2.6	360
3	Predicting the compressive strength of normal and High-Performance Concretes using ANN and ANFIS hybridized with Grey Wolf Optimizer. Construction and Building Materials, 2020, 232, 117266.	3.2	289
4	Effects of silica fume addition and water to cement ratio on the properties of high-strength concrete after exposure to high temperatures. Cement and Concrete Composites, 2008, 30, 106-112.	4.6	240
5	Predicting the compressive strength of silica fume concrete using hybrid artificial neural network with multi-objective grey wolves. Journal of Cleaner Production, 2018, 202, 54-64.	4.6	237
6	Determinants of bicyclist injury severities in bicycle-vehicle crashes: A random parameters approach with heterogeneity in means and variances. Analytic Methods in Accident Research, 2017, 16, 35-47.	4.7	225
7	Soil and clay stabilization with calcium- and non-calcium-based additives: A state-of-the-art review of challenges, approaches and techniques. Transportation Geotechnics, 2018, 17, 14-32.	2.0	219
8	Prediction of the compressive strength of normal and high-performance concretes using M5P model tree algorithm. Construction and Building Materials, 2017, 142, 199-207.	3.2	216
9	Application of rejuvenators to improve the rheological and mechanical properties of asphalt binders and mixtures: A review. Journal of Cleaner Production, 2019, 231, 171-182.	4.6	214
10	Rheological properties of asphalt binders modified with styrene-butadiene-styrene (SBS), ground tire rubber (GTR), or polyphosphoric acid (PPA). Construction and Building Materials, 2017, 151, 464-478.	3.2	187
11	The temporal stability of factors affecting driver-injury severities in single-vehicle crashes: Some empirical evidence. Analytic Methods in Accident Research, 2015, 8, 7-32.	4.7	174
12	An empirical assessment of the effects of economic recessions on pedestrian-injury crashes using mixed and latent-class models. Analytic Methods in Accident Research, 2016, 12, 1-17.	4.7	166
13	Predicting modulus elasticity of recycled aggregate concrete using M5 model tree algorithm. Construction and Building Materials, 2015, 94, 137-147.	3.2	161
14	The effect of passengers on driver-injury severities in single-vehicle crashes: A random parameters heterogeneity-in-means approach. Analytic Methods in Accident Research, 2017, 14, 41-53.	4.7	155
15	Mechanical properties of high-strength concrete incorporating copper slag as coarse aggregate. Construction and Building Materials, 2009, 23, 2183-2188.	3.2	144
16	Application of soft computing methods for predicting the elastic modulus of recycled aggregate concrete. Journal of Cleaner Production, 2018, 176, 1163-1176.	4.6	135
17	Latent class analysis of the effects of age, gender, and alcohol consumption on driver-injury severities. Analytic Methods in Accident Research, 2014, 3-4, 56-91.	4.7	126
18	Evaluation of the splitting tensile strength in plain and steel fiber-reinforced concrete based on the compressive strength. Construction and Building Materials, 2015, 98, 519-529.	3.2	120

#	ARTICLE	IF	CITATIONS
19	Machine learning study of the mechanical properties of concretes containing waste foundry sand. <i>Construction and Building Materials</i> , 2020, 243, 118152.	3.2	120
20	Estimation of the compressive strength of concretes containing ground granulated blast furnace slag using hybridized multi-objective ANN and salp swarm algorithm. <i>Construction and Building Materials</i> , 2020, 248, 118676.	3.2	118
21	Time-of-day variations and temporal instability of factors affecting injury severities in large-truck crashes. <i>Analytic Methods in Accident Research</i> , 2019, 23, 100102.	4.7	114
22	Estimating the optimal mix design of silica fume concrete using biogeography-based programming. <i>Cement and Concrete Composites</i> , 2019, 96, 95-105.	4.6	108
23	Effects of copper slag and recycled concrete aggregate on the properties of CIR mixes with bitumen emulsion, rice husk ash, Portland cement and fly ash. <i>Construction and Building Materials</i> , 2015, 96, 172-180.	3.2	105
24	Performance evaluation of asphalt mixtures containing warm mix asphalt (WMA) additives and reclaimed asphalt pavement (RAP). <i>Construction and Building Materials</i> , 2021, 268, 121200.	3.2	101
25	Laboratory studies to investigate the properties of CIR mixes containing steel slag as a substitute for virgin aggregates. <i>Construction and Building Materials</i> , 2012, 26, 475-480.	3.2	98
26	A review of the warm mix asphalt (WMA) technologies: Effects on thermo-mechanical and rheological properties. <i>Journal of Cleaner Production</i> , 2020, 259, 120817.	4.6	95
27	Automatic regression methods for formulation of elastic modulus of recycled aggregate concrete. <i>Applied Soft Computing Journal</i> , 2018, 64, 377-400.	4.1	76
28	Experimental investigation of stone matrix asphalt mixtures containing steel slag. <i>Scientia Iranica</i> , 2012, 19, 1214-1219.	0.3	74
29	Determinant of injury severities in large truck crashes: A weekly instability analysis. <i>Safety Science</i> , 2020, 131, 104911.	2.6	69
30	Stress-dependent behavior and rutting resistance of modified asphalt binders: An MSCR approach. <i>Construction and Building Materials</i> , 2017, 157, 635-646.	3.2	68
31	Rheological properties of asphalt binders modified with recycled materials: A comparison with Styrene-Butadiene-Styrene (SBS). <i>Construction and Building Materials</i> , 2020, 230, 117047.	3.2	67
32	Temporal stability of driver injury severities in animal-vehicle collisions: A random parameters with heterogeneity in means (and variances) approach. <i>Analytic Methods in Accident Research</i> , 2020, 26, 100120.	4.7	65
33	High-Temperature Properties of Asphalt Binders: Comparison of Multiple Stress Creep Recovery and Performance Grading Systems. <i>Transportation Research Record</i> , 2016, 2574, 131-143.	1.0	57
34	The effects of drug and alcohol consumption on driver injury severities in single-vehicle crashes. <i>Traffic Injury Prevention</i> , 2017, 18, 456-462.	0.6	56
35	Determinants of the infection rate of the COVID-19 in the U.S. using ANFIS and virus optimization algorithm (VOA). <i>Chaos, Solitons and Fractals</i> , 2020, 139, 110051.	2.5	51
36	Mechanical properties of GGBFS-based geopolymer concrete incorporating natural zeolite and silica fume with an optimum design using response surface method. <i>Journal of Building Engineering</i> , 2021, 36, 102138.	1.6	50

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37	A machine learning study of the dynamic modulus of asphalt concretes: An application of M5P model tree algorithm. <i>Construction and Building Materials</i> , 2020, 262, 120544.	3.2	49
38	Effects of deicers on the performance of concrete pavements containing air-cooled blast furnace slag and supplementary cementitious materials. <i>Cement and Concrete Composites</i> , 2018, 90, 27-41.	4.6	46
39	The effects of Gilsonite and Sasobit on the mechanical properties and durability of asphalt mixtures. <i>Construction and Building Materials</i> , 2020, 238, 117676.	3.2	45
40	Predicting the compressive strength of self-compacting concrete containing Class F fly ash using metaheuristic radial basis function neural network. <i>Structural Concrete</i> , 2022, 23, 1191-1213.	1.5	44
41	Estimation of the dynamic modulus of asphalt concretes using random forests algorithm. <i>International Journal of Pavement Engineering</i> , 2022, 23, 250-260.	2.2	42
42	Predicting the dynamic modulus of asphalt mixture using machine learning techniques: An application of multi biogeography-based programming. <i>Construction and Building Materials</i> , 2021, 266, 120983.	3.2	40
43	A fracture-based approach to characterize long-term performance of asphalt mixes under moisture and freeze-thaw conditions. <i>Engineering Fracture Mechanics</i> , 2021, 241, 107418.	2.0	40
44	Road safety research in the context of low- and middle-income countries: Macro-scale literature analyses, trends, knowledge gaps and challenges. <i>Safety Science</i> , 2022, 146, 105513.	2.6	38
45	Temporal stability of pedestrian injury severity in pedestrian-vehicle crashes: New insights from random parameter logit model with heterogeneity in means and variances. <i>Analytic Methods in Accident Research</i> , 2021, 32, 100184.	4.7	34
46	Predicting the mechanical properties of sustainable concrete containing waste foundry sand using multi-objective ANN approach. <i>Construction and Building Materials</i> , 2021, 291, 123314.	3.2	33
47	Prediction of the shear modulus of municipal solid waste (MSW): An application of machine learning techniques. <i>Journal of Cleaner Production</i> , 2021, 303, 127053.	4.6	30
48	Moisture Susceptibility of Asphalt Mixtures: Thermodynamic Evaluation of the Effects of Antistripping Additives. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, .	1.3	29
49	Comparison of contributing factors in hit-and-run crashes with distracted and non-distracted drivers. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2016, 38, 22-28.	1.8	24
50	Estimation of the compressive strength of green concretes containing rice husk ash: a comparison of different machine learning approaches. <i>European Journal of Environmental and Civil Engineering</i> , 2023, 27, 961-983.	1.0	24
51	Structural anatomy and temporal trends of road accident research: Full-scope analyses of the field. <i>Journal of Safety Research</i> , 2021, 79, 173-198.	1.7	23
52	Prediction of the resilient modulus of non-cohesive subgrade soils and unbound subbase materials using a hybrid support vector machine method and colliding bodies optimization algorithm. <i>Construction and Building Materials</i> , 2021, 275, 122140.	3.2	22
53	Novel metaheuristic-based type-2 fuzzy inference system for predicting the compressive strength of recycled aggregate concrete. <i>Journal of Cleaner Production</i> , 2021, 320, 128771.	4.6	21
54	Rheological, physicochemical, and microstructural properties of asphalt binder modified by fumed silica nanoparticles. <i>Scientific Reports</i> , 2021, 11, 11455.	1.6	20

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55	Predicting the compressive strength of green concretes using Harris hawks optimization-based data-driven methods. <i>Construction and Building Materials</i> , 2022, 318, 125944.	3.2	20
56	Post-fire behavior evaluation of concrete mixtures containing natural zeolite using a novel metaheuristic-based machine learning method. <i>Archives of Civil and Mechanical Engineering</i> , 2022, 22, 1.	1.9	19
57	Assessment of temporal stability in risk factors of crashes at horizontal curves on rural two-lane undivided highways. <i>Journal of Safety Research</i> , 2021, 76, 205-217.	1.7	16
58	Artificial Intelligence to Model the Performance of Concrete Mixtures and Elements: A Review. <i>Archives of Computational Methods in Engineering</i> , 2022, 29, 1941-1964.	6.0	16
59	Pavement Patching Practices. , 2014, , .		16
60	Coupled effects of warm mix asphalt (WMA) additives and rheological modifiers on the properties of asphalt binders. <i>Cleaner Engineering and Technology</i> , 2020, 1, 100028.	2.1	15
61	Engineered nanocomposites in asphalt binders. <i>Nanotechnology Reviews</i> , 2022, 11, 1047-1067.	2.6	15
62	Bicyclists injury severities: An empirical assessment of temporal stability. <i>Accident Analysis and Prevention</i> , 2022, 168, 106616.	3.0	12
63	The effects of drivers' behavior on driver-injury severities in Iran: An application of the mixed-logit model. <i>Scientia Iranica</i> , 2016, 23, 2429-2440.	0.3	11
64	Predicting the dynamic modulus of asphalt mixture using hybridized artificial neural network and grey wolf optimizer. <i>International Journal of Pavement Engineering</i> , 2023, 24, 1-11.	2.2	9
65	Determinants of purchase likelihood for partially and fully automated vehicles: Insights from mixed logit model with heterogeneity in means and variances. <i>Transportation Research, Part A: Policy and Practice</i> , 2022, 159, 119-139.	2.0	9
66	Determining the Moisture Content of Pre-Wetted Lightweight Aggregate: Assessing the Variability of the Paper Towel and Centrifuge Methods. , 2014, , .		8
67	Cracking features of asphalt mixtures under induced heating-healing. <i>Construction and Building Materials</i> , 2022, 324, 126625.	3.2	4
68	Full-Scale Laboratory Evaluation of the Effectiveness of Subgrade Soil Stabilization Practices for Portland Cement Concrete Pavements Patching Applications. <i>Transportation Research Record</i> , 2020, 2674, 465-474.	1.0	0