

Ali Behnood

List of Publications by Citations

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Version: 2024-04-25

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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.

69
papers

3,598
citations

33
h-index

59
g-index

71
ext. papers

4,683
ext. citations

6.3
avg, IF

7.02
L-index

#	Paper	IF	Citations
69	Utilization of copper slag in cement and concrete. <i>Resources, Conservation and Recycling</i> , 2008 , 52, 1115-1130	11.30	279
68	Morphology, rheology, and physical properties of polymer-modified asphalt binders. <i>European Polymer Journal</i> , 2019 , 112, 766-791	5.2	207
67	Effects of silica fume addition and water to cement ratio on the properties of high-strength concrete after exposure to high temperatures. <i>Cement and Concrete Composites</i> , 2008 , 30, 106-112	8.6	175
66	Determinants of bicyclist injury severities in bicycle-vehicle crashes: A random parameters approach with heterogeneity in means and variances. <i>Analytic Methods in Accident Research</i> , 2017 , 16, 35-47	9.5	163
65	The temporal stability of factors affecting driver-injury severities in single-vehicle crashes: Some empirical evidence. <i>Analytic Methods in Accident Research</i> , 2015 , 8, 7-32	9.5	134
64	An empirical assessment of the effects of economic recessions on pedestrian-injury crashes using mixed and latent-class models. <i>Analytic Methods in Accident Research</i> , 2016 , 12, 1-17	9.5	128
63	Predicting the compressive strength of silica fume concrete using hybrid artificial neural network with multi-objective grey wolves. <i>Journal of Cleaner Production</i> , 2018 , 202, 54-64	10.3	128
62	Rheological properties of asphalt binders modified with styrene-butadiene-styrene (SBS), ground tire rubber (GTR), or polyphosphoric acid (PPA). <i>Construction and Building Materials</i> , 2017 , 151, 464-478	6.7	123
61	Predicting the compressive strength of normal and High-Performance Concretes using ANN and ANFIS hybridized with Grey Wolf Optimizer. <i>Construction and Building Materials</i> , 2020 , 232, 117266	6.7	122
60	Prediction of the compressive strength of normal and high-performance concretes using M5P model tree algorithm. <i>Construction and Building Materials</i> , 2017 , 142, 199-207	6.7	121
59	Application of rejuvenators to improve the rheological and mechanical properties of asphalt binders and mixtures: A review. <i>Journal of Cleaner Production</i> , 2019 , 231, 171-182	10.3	118
58	Soil and clay stabilization with calcium- and non-calcium-based additives: A state-of-the-art review of challenges, approaches and techniques. <i>Transportation Geotechnics</i> , 2018 , 17, 14-32	4	114
57	The effect of passengers on driver-injury severities in single-vehicle crashes: A random parameters heterogeneity-in-means approach. <i>Analytic Methods in Accident Research</i> , 2017 , 14, 41-53	9.5	112
56	Predicting modulus elasticity of recycled aggregate concrete using M5? model tree algorithm. <i>Construction and Building Materials</i> , 2015 , 94, 137-147	6.7	110
55	Latent class analysis of the effects of age, gender, and alcohol consumption on driver-injury severities. <i>Analytic Methods in Accident Research</i> , 2014 , 3-4, 56-91	9.5	107
54	Mechanical properties of high-strength concrete incorporating copper slag as coarse aggregate. <i>Construction and Building Materials</i> , 2009 , 23, 2183-2188	6.7	98
53	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	6.7	89

52	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	6.7	85
51	Application of soft computing methods for predicting the elastic modulus of recycled aggregate concrete. <i>Journal of Cleaner Production</i> , 2018 , 176, 1163-1176	10.3	81
50	Evaluation of the splitting tensile strength in plain and steel fiber-reinforced concrete based on the compressive strength. <i>Construction and Building Materials</i> , 2015 , 98, 519-529	6.7	71
49	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	9.5	66
48	Estimating the optimal mix design of silica fume concrete using biogeography-based programming. <i>Cement and Concrete Composites</i> , 2019 , 96, 95-105	8.6	64
47	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	6.7	63
46	Automatic regression methods for formulation of elastic modulus of recycled aggregate concrete. <i>Applied Soft Computing Journal</i> , 2018 , 64, 377-400	7.5	55
45	Experimental investigation of stone matrix asphalt mixtures containing steel slag. <i>Scientia Iranica</i> , 2012 , 19, 1214-1219	1.5	52
44	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	10.3	51
43	Stress-dependent behavior and rutting resistance of modified asphalt binders: An MSCR approach. <i>Construction and Building Materials</i> , 2017 , 157, 635-646	6.7	48
42	The effects of drug and alcohol consumption on driver injury severities in single-vehicle crashes. <i>Traffic Injury Prevention</i> , 2017 , 18, 456-462	1.8	47
41	Machine learning study of the mechanical properties of concretes containing waste foundry sand. <i>Construction and Building Materials</i> , 2020 , 243, 118152	6.7	47
40	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	9.5	39
39	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	6.7	39
38	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	1.7	38
37	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	6.7	33
36	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	8.6	31
35	Determinant of injury severities in large truck crashes: A weekly instability analysis. <i>Safety Science</i> , 2020 , 131, 104911	5.8	30

34	The effects of Gilsonite and Sasobit on the mechanical properties and durability of asphalt mixtures. <i>Construction and Building Materials</i> , 2020 , 238, 117676	6.7	28
33	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	5.2	25
32	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	9.3	23
31	A machine learning study of the dynamic modulus of asphalt concretes: An application of MSP model tree algorithm. <i>Construction and Building Materials</i> , 2020 , 262, 120544	6.7	22
30	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	4.5	20
29	Estimation of the dynamic modulus of asphalt concretes using random forests algorithm. <i>International Journal of Pavement Engineering</i> , 2020 , 1-11	2.6	19
28	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	6.7	17
27	Moisture Susceptibility of Asphalt Mixtures: Thermodynamic Evaluation of the Effects of Antistripping Additives. <i>Journal of Materials in Civil Engineering</i> , 2021 , 33, 04020457	3	15
26	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	9.5	14
25	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	4.2	13
24	Analysis of the Multiple Stress Creep Recovery Asphalt Binder Test and Specifications for Use in Indiana		11
23	Predicting the compressive strength of self-compacting concrete containing Class F fly ash using metaheuristic radial basis function neural network. <i>Structural Concrete</i> ,	2.6	11
22	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	2.7	10
21	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	1.5	10
20	Pavement Patching Practices 2014 ,		9
19	Rheological, physicochemical, and microstructural properties of asphalt binder modified by fumed silica nanoparticles. <i>Scientific Reports</i> , 2021 , 11, 11455	4.9	9
18	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	6.7	9
17	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	4	8

16	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	4	8
15	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	10.3	8
14	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	6.7	7
13	Determining the Moisture Content of Pre-Wetted Lightweight Aggregate: Assessing the Variability of the Paper Towel and Centrifuge Methods 2014 ,		6
12	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	10.3	6
11	Predicting the compressive strength of green concretes using Harris hawks optimization-based data-driven methods. <i>Construction and Building Materials</i> , 2022 , 318, 125944	6.7	5
10	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	5.8	5
9	Artificial Intelligence to Model the Performance of Concrete Mixtures and Elements: A Review. <i>Archives of Computational Methods in Engineering</i> ,1	7.8	4
8	Engineered nanocomposites in asphalt binders. <i>Nanotechnology Reviews</i> , 2022 , 11, 1047-1067	6.3	2
7	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	3.4	2
6	Predicting the dynamic modulus of asphalt mixture using hybridized artificial neural network and grey wolf optimizer. <i>International Journal of Pavement Engineering</i> ,1-11	2.6	1
5	Bicyclists injury severities: An empirical assessment of temporal stability.. <i>Accident Analysis and Prevention</i> , 2022 , 168, 106616	6.1	1
4	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	3.7	1
3	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> ,1-23	1.5	1
2	Cracking features of asphalt mixtures under induced heating-healing. <i>Construction and Building Materials</i> , 2022 , 324, 126625	6.7	0
1	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	1.7	