

# Iman Aghayan

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

478  
citations

840776

11  
h-index

713466

21  
g-index

30  
all docs

30  
docs citations

30  
times ranked

481  
citing authors

#	ARTICLE	IF	CITATIONS
1	PREDICTION FOR TRAFFIC ACCIDENT SEVERITY: COMPARING THE ARTIFICIAL NEURAL NETWORK, GENETIC ALGORITHM, COMBINED GENETIC ALGORITHM AND PATTERN SEARCH METHODS. <i>Transport</i> , 2012, 26, 353-366.	1.2	78
2	Development of Mashhad driving cycle for passenger car to model vehicle exhaust emissions calibrated using on-board measurements. <i>Sustainable Cities and Society</i> , 2018, 36, 12-20.	10.4	57
3	Experimental investigation of using cross-linked polyethylene waste as aggregate in roller compacted concrete pavement. <i>Journal of Cleaner Production</i> , 2017, 165, 290-297.	9.3	47
4	Investigating the effects of aging and loading rate on low-temperature cracking resistance of core-based asphalt samples using semi-circular bending test. <i>Construction and Building Materials</i> , 2016, 126, 682-690.	7.2	38
5	Life cycle assessment, mechanical properties, and durability of roller compacted concrete pavement containing recycled waste materials. <i>International Journal of Pavement Research and Technology</i> , 2021, 14, 595-606.	2.6	33
6	Compressive strength determination of concrete specimens using X-ray computed tomography and finite element method. <i>Construction and Building Materials</i> , 2020, 256, 119427.	7.2	31
7	Characterization of elastic-plastic coated material properties by indentation techniques using optimisation algorithms and finite element analysis. <i>International Journal of Mechanical Sciences</i> , 2019, 152, 465-480.	6.7	29
8	Laboratory evaluation of the mechanical properties of roller compacted concrete pavement containing ceramic and coal waste powders. <i>Clean Technologies and Environmental Policy</i> , 2019, 21, 707-716.	4.1	28
9	Traffic Efficiency Evaluation of Elliptical Roundabout Compared with Modern and Turbo Roundabouts Considering Traffic Signal Control. <i>Promet - Traffic - Traffico</i> , 2017, 29, 1-11.	0.7	20
10	Experimental evaluation of ceramic waste as filler in hot mix asphalt. <i>Clean Technologies and Environmental Policy</i> , 2020, 22, 535-543.	4.1	19
11	Characterizing driver behavior in dilemma zones at signalized roundabouts. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2019, 63, 204-215.	3.7	17
12	Recycling of PET in asphalt concrete. , 2019, , 269-285.		15
13	Evaluation of aircraft emission at Imam Khomeini International Airport and Mehrabad International Airport. <i>International Journal of Environmental Science and Technology</i> , 2019, 16, 6587-6598.	3.5	10
14	A new hybrid method for size and topology optimization of truss structures using modified ALGA and QPGA. <i>Journal of Civil Engineering and Management</i> , 2016, 23, 252-262.	3.5	9
15	Studying perturbations and wave propagations by lane closures on traffic characteristics based on a dynamic approach. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 566, 125654.	2.6	7
16	A cuckoo search based approach to design sustainable transit network. <i>Transportation Letters</i> , 2020, , 1-14.	3.1	6
17	A comparative analysis of the performance of turbo roundabouts based on geometric characteristics and traffic scenarios. <i>Transportation Letters</i> , 2021, 13, 674-685.	3.1	5
18	Progressive collapse analysis of two existing steel buildings using a linear static procedure. <i>Structural Engineering and Mechanics</i> , 2013, 48, 207-220.	1.0	4

#	ARTICLE	IF	CITATIONS
19	Modelling of Crack Propagation in Layered Structures Using Extended Finite Element Method. Civil Engineering Journal (Iran), 2016, 2, 180-188.	3.9	4
20	Extended Traffic Crash Modelling through Precision and Response Time Using Fuzzy Clustering Algorithms Compared with Multi-layer Perceptron. Promet - Traffic - Traffico, 2012, 24, 455-467.	0.7	4
21	Detecting crash hotspots using grid and density-based spatial clustering. Proceedings of the Institution of Civil Engineers: Transport, 0, , 1-13.	0.6	3
22	The emission factor adjustments of the passenger cars in multi-story car parks under drive modes. Environmental Science and Pollution Research, 2022, 29, 5105-5123.	5.3	3
23	An extended dynamic probabilistic risk approach based on a surrogate safety measure for rear-end collisions on two-lane roads. Physica A: Statistical Mechanics and Its Applications, 2022, 603, 127845.	2.6	3
24	Optimization Model for Fire Station Location Based on GIS and Python: A Case Study in North Cyprus. Applied Mechanics and Materials, 0, 330, 1059-1064.	0.2	2
25	Modeling the Transport Mode Choice Behavior of Motorcyclists. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2020, 44, 175-184.	1.9	2
26	Progressive collapse analysis of buildings with concentric and eccentric braced frames. Structural Engineering and Mechanics, 2017, 61, 755-763.	1.0	2
27	The Contribution of Walking to School in Studentsâ€™ Physical Activity and Its Effect on Being Overweight. BioMed Research International, 2022, 2022, 1-15.	1.9	2
28	Fuzzy C-means clustering based on clustering algorithms for traffic crash data. , 2012, , 869-874.		0
29	An Analysis of Seismic Behavior of Two Non-coplanar Tunnels. Engineering Journal, 2017, 21, 199-211.	1.0	0
30	Modeling Dynamic Frequency Response on Slab Track of Shinkansen Railway Based on Finite Element Method. Advances in Civil Engineering, 2022, 2022, 1-18.	0.7	0