

# Mehmet Saltan

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

830  
citations

516215

16  
h-index

500791

28  
g-index

57  
all docs

57  
docs citations

57  
times ranked

807  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of rice husk ash as filler in hot mix asphalt concrete. Construction and Building Materials, 2013, 48, 390-397.	3.2	104
2	Investigation of usability of steel fibers in asphalt concrete mixtures. Construction and Building Materials, 2012, 36, 238-244.	3.2	73
3	Examination of hot mix asphalt and binder performance modified with nano silica. Construction and Building Materials, 2017, 156, 976-984.	3.2	63
4	Performance analysis of nano modified bitumen and hot mix asphalt. Construction and Building Materials, 2018, 173, 228-237.	3.2	46
5	Backcalculation of pavement layer moduli and Poisson's ratio using data mining. Expert Systems With Applications, 2011, 38, 2600-2608.	4.4	39
6	Technical and environmental evaluation of metallurgical slags as aggregate for sustainable pavement layer applications. Transportation Geotechnics, 2018, 14, 61-69.	2.0	39
7	Waste frying oil modified bitumen usage for sustainable hot mix asphalt pavement. Archives of Civil and Mechanical Engineering, 2017, 17, 863-870.	1.9	38
8	Artificial neural networks-based backcalculation of the structural properties of a typical flexible pavement. Neural Computing and Applications, 2013, 23, 1703-1710.	3.2	37
9	Testing the abrasion resistance of aggregates including by-products by using Micro Deval apparatus with different standard test methods. Construction and Building Materials, 2016, 123, 1-7.	3.2	37
10	Use of glass waste as mineral filler in hot mix asphalt. Science and Engineering of Composite Materials, 2015, 22, 271-277.	0.6	36
11	Modeling deflection basin using artificial neural networks with cross-validation technique in backcalculating flexible pavement layer moduli. Advances in Engineering Software, 2008, 39, 588-592.	1.8	34
12	Stabilization of subbase layer materials with waste pumice in flexible pavement. Building and Environment, 2008, 43, 415-421.	3.0	32
13	Performance evaluation of nano-modified asphalt concrete. Construction and Building Materials, 2014, 71, 283-288.	3.2	26
14	Fuzzy logic modeling of deflection behavior against dynamic loading in flexible pavements. Construction and Building Materials, 2007, 21, 1406-1414.	3.2	20
15	Hybrid neural network and finite element modeling of sub-base layer material properties in flexible pavements. Materials & Design, 2007, 28, 1725-1730.	5.1	19
16	Effect of aggregate surface properties on chip seal retention performance. Construction and Building Materials, 2013, 44, 639-644.	3.2	19
17	Optimization of Traffic Signal Timing at Oversaturated Intersections Using Elimination Pairing System. Procedia Engineering, 2017, 187, 295-300.	1.2	17
18	Mechanical Behavior of Bitumen and Hot-Mix Asphalt Modified with Zinc Oxide Nanoparticle. Journal of Materials in Civil Engineering, 2019, 31, .	1.3	17

#	ARTICLE	IF	CITATIONS
19	Evaluating mechanical properties of bitumen and hot mix asphalt modified with nano ferric oxide. Construction and Building Materials, 2020, 234, 117381.	3.2	17
20	Utility of polyparaphenylene terephthalamide fiber in hot mix asphalt as a fiber. Construction and Building Materials, 2016, 107, 87-94.	3.2	15
21	Utilization of Pumice Waste for Clayey Subgrade of Pavements. Journal of Materials in Civil Engineering, 2011, 23, 1616-1623.	1.3	12
22	Determination of seal coat deterioration using image processing methods. Construction and Building Materials, 2014, 53, 273-283.	3.2	9
23	Modeling Marshall Stability of light asphalt concretes fabricated using expanded clay aggregate with Artificial Neural Networks. , 2012, , .		8
24	Backcalculation of pavement layer thickness using data mining. Neural Computing and Applications, 2013, 23, 1369-1379.	3.2	8
25	Utilization of Arundo donax in Hot Mix Asphalt as a fiber. Construction and Building Materials, 2016, 125, 981-986.	3.2	8
26	Examination of the Effect of Superhydrophobic Coated Pavement under Wet Conditions. Procedia Engineering, 2017, 187, 532-537.	1.2	8
27	Optimization of the Deflection Basin by Genetic Algorithm and Neural Network Approach. Lecture Notes in Computer Science, 2003, , 662-669.	1.0	7
28	Modeling Deflection Basin Using Neurofuzzy in Backcalculating Flexible Pavement Layer Moduli. Information Technology Journal, 2002, 1, 180-187.	0.3	7
29	Prediction of the marshall stability of reinforced asphalt concrete with steel fiber using fuzzy logic. Journal of Intelligent and Fuzzy Systems, 2014, 26, 1943-1950.	0.8	6
30	Stabilization of clayey subgrade with waste pumice for road infrastructure. Science and Engineering of Composite Materials, 2015, 22, 583-590.	0.6	5
31	Marshall stability estimating using artificial neural network with polyparaphenylene terephthalamide fibre rate. , 2016, , .		3
32	Investigation of chip seal performance under cold climate conditions. Science and Engineering of Composite Materials, 2016, 23, 649-658.	0.6	3
33	Modelling Marshall Stability of fiber reinforced asphalt mixtures with ANFIS. , 2017, , .		3
34	Use of scoria waste as subbase stabilization material for highway flexible pavement. Journal of Innovative Transportation, 2021, 2, 2101.	0.3	3
35	Backcalculation of Pavement Layer Thickness and Moduli Using Adaptive Neuro-fuzzy Inference System. Studies in Computational Intelligence, 2009, , 177-204.	0.7	2
36	Environmental Method Against Icing for Road Pavements: Development of New Testing Equipment and Proposal of a New Abrasive Material. Journal of Testing and Evaluation, 2014, 42, 475-483.	0.4	2

#	ARTICLE	IF	CITATIONS
37	Physical properties of multi-layer seal surfacing in Turkey. Proceedings of the Institution of Civil Engineers: Transport, 2013, 166, 137-143.	0.3	1
38	Pavement Performance Prediction through Fuzzy Logic Using Marine Corps Air Station Cherry Point, North Carolina Measurements. , 2013, , .		1
39	Backcalculation of Pavement Layer Thickness and Moduli by the Wavelet-Neuro Approach. , 2016, , .		1
40	Feasibility of Using 4th Power Law in Design of Plastic Deformation Resistant Low Volume Roads. Procedia Engineering, 2016, 143, 961-970.	1.2	1
41	Utility of Aramid, Polyolefin and Polypropylene Combination in Hot Mix Asphalt as a Fiber Material. Lecture Notes in Civil Engineering, 2020, , 915-922.	0.3	1
42	Investigation of effects of Cocamide Diethanolamide chemical on physical and rheological properties of bituminous binder. Frontiers of Structural and Civil Engineering, 2022, 16, 99-116.	1.2	1
43	Area-wide ANPR coverage with a small number of instrumented vehicles. , 2015, , .		0
44	Plasma Empowered Limestone Composite Structures for Asphalt Performance Applications. , 2015, , .		0
45	Increasing the visibility of roads using phosphorous paint. Road Materials and Pavement Design, 2019, 20, 199-210.	2.0	0
46	Bitumen expanding using bio-oil product of rose pulpâ€™s pyrolysis process. Construction and Building Materials, 2020, 249, 118721.	3.2	0
47	Estimation of Specific Gravity with Penetration and Penetration Index Parameters by Artificial Neural Network. Periodicals of Engineering and Natural Sciences, 2017, 5, .	0.3	0
48	An efficiency based approach to multi-year network-level maintenance programming. , 2017, , 1005-1012.		0
49	Precast concrete pavements for rapid rehabilitation of high traffic volume highwaysâ€™US state of practice. , 2017, , 989-996.		0
50	Quality assurance of traffic-speed structural condition surveys. , 2017, , 847-852.		0
51	Hot Mixture Performances of Bituminous Binders Modified with Soybean Oil. Advances in Civil Engineering Materials, 2020, 9, 427-443.	0.2	0
52	Expanded Glass Usability in Hot-Mix Asphalt as Fine Aggregate. Lecture Notes in Civil Engineering, 2020, , 831-838.	0.3	0
53	Investigation the Usability of Garnet as Filler Material in Hot Mix Asphalt. Lecture Notes in Civil Engineering, 2020, , 907-913.	0.3	0
54	Mixture Performance of Bitumen Modified with Cocamide Diethanolamide. Journal Wuhan University of Technology, Materials Science Edition, 2021, 36, 706-713.	0.4	0

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55	Site Assessment of Surface Texture and Skid Resistance by Varying the Grit Parameters of an SMA. Journal of Transportation Engineering Part B: Pavements, 2022, 148, .	0.8	0