

# Mena I Souliman

## List of Publications by Year in Descending Order

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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.

48 papers	323 citations	11 h-index	16 g-index
52 ext. papers	398 ext. citations	1.8 avg, IF	3.65 L-index

#	Paper	IF	Citations
48	Artificial neural network prediction model for in situ resilient modulus of subgrade soils for pavement design applications. <i>Innovative Infrastructure Solutions</i> , <b>2022</b> , 7, 1	2.3	0
47	Predictive Artificial Neural Network Laboratory Fatigue Endurance Limit Model for Asphalt Concrete Pavements Based on the Volumetric Properties and Loading Conditions. <i>Transportation Research Record</i> , <b>2021</b> , 2675, 630-642	1.7	1
46	Neural Network Modeling for the Rotational Viscosity of Reacted and Activated Rubber-Modified Binders. <i>Advances in Civil Engineering Materials</i> , <b>2021</b> , 10, 20200114	0.7	
45	Evaluating the structural capacity of flexible pavements at the network level using layered elastic analysis. <i>Innovative Infrastructure Solutions</i> , <b>2021</b> , 6, 1	2.3	1
44	Mechanistic Performance Analysis of Fiber-Reinforced Asphalt Pavement Overlays. <i>Sustainable Civil Infrastructures</i> , <b>2021</b> , 83-90	0.2	
43	Enhanced Flexible Pavement Performance Using Treated Compared to Untreated Aggregate Bases: A Comparative Case Study in the Southern United States. <i>Infrastructures</i> , <b>2021</b> , 6, 110	2.6	0
42	Fatigue behaviour of conventional and rubber-modified gap-graded asphalt mixtures using bending and axial fatigue tests. <i>Australian Journal of Civil Engineering</i> , <b>2020</b> , 1-13	1.8	
41	Mechanistic analysis and cost-effectiveness evaluation of asphalt rubber mixtures. <i>Road Materials and Pavement Design</i> , <b>2020</b> , 21, S76-S90	2.6	2
40	Estimated remaining fatigue life of flexible pavements based on the normalized comprehensive area ratio deflection parameter. <i>Canadian Journal of Civil Engineering</i> , <b>2020</b> , 47, 546-555	1.3	0
39	Correlating the asphalt-binder high-temperature properties (DSR) to HMA permanent deformation (RLPD) and field rutting: A laboratory-field study. <i>Construction and Building Materials</i> , <b>2020</b> , 262, 120761	6.7	12
38	Laboratory evaluation of grid-reinforced HMA beams using the flexural bending-beam fatigue (FBBF) test in load-controlled mode. <i>International Journal of Pavement Engineering</i> , <b>2020</b> , 1-15	2.6	3
37	Treated versus Untreated Aggregate Bases for Flexible Pavements: Nationwide Comparative Case Study. <i>Transportation Research Record</i> , <b>2020</b> , 2674, 225-236	1.7	5
36	Fatigue Endurance Limit Model Utilizing Artificial Neural Network for Asphalt Concrete Pavements <b>2019</b> ,		2
35	Mechanistic Analysis and Economic Benefits of Fiber-Reinforced Asphalt Mixtures. <i>Journal of Materials in Civil Engineering</i> , <b>2019</b> , 31, 04019142	3	4
34	Effect of asphalt binders with identical PG grading from different suppliers on the laboratory performance of asphalt mixture. <i>International Journal of Pavement Research and Technology</i> , <b>2019</b> , 12, 117-124	2	
33	Integrated predictive artificial neural network fatigue endurance limit model for asphalt concrete pavements. <i>Canadian Journal of Civil Engineering</i> , <b>2019</b> , 46, 114-123	1.3	5
32	Development of comprehensive deflection parameters to evaluate the structural capacity of flexible pavements at the network level. <i>International Journal of Pavement Research and Technology</i> , <b>2019</b> , 12, 347-355	2	3

31	Mechanistic Assessment of Fatigue Performance and Cost Analysis of Pavement Overlays: Comparison between Conventional Hot Mixed Asphalt, Asphalt Rubber, and Polymer-Modified Mixtures. <i>Advances in Civil Engineering Materials</i> , <b>2019</b> , 8, 20190118	0.7	
30	Performance evaluation of jointed plain concrete pavements with sealed and unsealed joints in North Texas. <i>Canadian Journal of Civil Engineering</i> , <b>2019</b> , 46, 601-608	1.3	
29	Mechanistic and Economic Impacts of Using Asphalt Rubber Mixtures at Various Vehicle Speeds. <i>Advances in Civil Engineering Materials</i> , <b>2018</b> , 7, 20170104	0.7	1
28	Quantifying the Mechanistic and Economic Impacts of Using Asphalt Rubber Mixtures. <i>Sustainable Civil Infrastructures</i> , <b>2018</b> , 16-26	0.2	2
27	Comparative assessment of the interlayer shear-bond strength of geogrid reinforcements in hot-mix asphalt. <i>Construction and Building Materials</i> , <b>2018</b> , 191, 726-735	6.7	20
26	Effect of Loading Waveform Pattern and Rest Period on Fatigue Life of Asphalt Concrete Using Viscoelastic Continuum Damage Model. <i>Transportation Research Record</i> , <b>2018</b> , 2672, 451-461	1.7	6
25	Effects of tire inclination (turning traffic) and dynamic loading on the pavement stress-strain responses using 3-D finite element modeling. <i>International Journal of Pavement Research and Technology</i> , <b>2017</b> , 10, 304-314	2	17
24	Simple Approach for Designing Sustainable Pavement with Self-Healing Fatigue Cracking. <i>Journal of Transportation Engineering Part B: Pavements</i> , <b>2017</b> , 143, 04017004	1.4	0
23	Impact of recycled asphalt materials on asphalt binder properties and rutting and cracking performance of plant-produced mixtures. <i>Construction and Building Materials</i> , <b>2017</b> , 155, 654-663	6.7	29
22	Effects of Short-Term Aging on Asphalt Binders and Hot Mix Asphalt at Elevated Temperatures and Extended Aging Time. <i>MATEC Web of Conferences</i> , <b>2017</b> , 120, 07010	0.3	7
21	Mechanical and economical impacts of adding polymers into asphalt mixtures. <i>MATEC Web of Conferences</i> , <b>2017</b> , 120, 02019	0.3	
20	Reducing Inconsistency of HMA Flexure Fatigue Testing. <i>Journal of Materials in Civil Engineering</i> , <b>2016</b> , 28, 04015131	3	1
19	Cost-effectiveness of Rubber and Polymer Modified Asphalt Mixtures as Related to Sustainable Fatigue Performance. <i>Procedia Engineering</i> , <b>2016</b> , 145, 404-411		18
18	Mechanistic Evaluation of the Long Term Performance Characteristics of Warm Mix Additives in Modified Asphalt Mixtures. <i>RILEM Bookseries</i> , <b>2016</b> , 411-416	0.5	
17	Mechanistic and Economical Characteristics of Asphalt Rubber Mixtures. <i>Advances in Civil Engineering</i> , <b>2016</b> , 2016, 1-6	1.3	8
16	Impact of Antistrip Additives on the Long-Term Aging Rheological Properties of Asphalt Binders. <i>Journal of Materials in Civil Engineering</i> , <b>2015</b> , 27,	3	16
15	Evaluation of select warm mix additives with polymer and rubber modified asphalt mixtures. <i>Canadian Journal of Civil Engineering</i> , <b>2015</b> , 42, 377-388	1.3	16
14	Impact of lime on the mechanical and mechanistic performance of hot mixed asphalt mixtures. <i>Road Materials and Pavement Design</i> , <b>2015</b> , 16, 421-444	2.6	8

13	Preliminary prediction of endurance limit for asphalt rubber mixtures due to healing. <i>Canadian Journal of Civil Engineering</i> , <b>2014</b> , 41, 964-969	1.3	8
12	Comparison of Fatigue Damage, Healing, and Endurance Limit with Beam and Uniaxial Fatigue Tests. <i>Transportation Research Record</i> , <b>2014</b> , 2447, 32-41	1.7	7
11	Endurance Limit for HMA Based on Healing Concept Using Uniaxial Tension-Compression Fatigue Test. <i>Journal of Materials in Civil Engineering</i> , <b>2014</b> , 26, 04014036	3	12
10	Influence of Hydrogreen Bioasphalt on Viscoelastic Properties of Reclaimed Asphalt Mixtures. <i>Transportation Research Record</i> , <b>2013</b> , 2371, 13-22	1.7	49
9	Laboratory Validation of Healing-Based Fatigue Endurance Limit for Hot-Mix Asphalt. <i>Transportation Research Record</i> , <b>2013</b> , 2373, 1-10	1.7	6
8	Laboratory Validation of an Endurance Limit for Asphalt Pavements <b>2013</b> ,		21
7	Influence of Laboratory Mixing Procedures on Volumetric and Mechanical Properties of RAP Mixtures. <i>Advances in Civil Engineering Materials</i> , <b>2013</b> , 2, 20120049	0.7	
6	Comparison of Design Thicknesses for Flexible Airfield Pavement Based on Agency Limiting Subgrade Strain Criteria. <i>Transportation Research Record</i> , <b>2012</b> , 2305, 141-149	1.7	2
5	Fiber-Reinforced Asphalt Concrete as Sustainable Paving Material for Airfields. <i>Transportation Research Record</i> , <b>2012</b> , 2266, 60-68	1.7	24
4	Refining Conditions of Fatigue Testing of Hot Mix Asphalt. <i>Advances in Civil Engineering Materials</i> , <b>2012</b> , 1, 20120018	0.7	4
3	Data Collection to Support Implementation of the Mechanistic-Empirical Pavement Design Guide for County Roads. <i>Transportation Research Record</i> , <b>2011</b> , 2225, 67-77	1.7	2
2	Estimating the impact of automated truck platoons on asphalt pavement fatigue life using artificial neural networks. <i>International Journal of Pavement Engineering</i> , 1-13	2.6	1
1	Development of a Smartphone Application Serving Pavement Management Engineers. <i>Transportation Research Record</i> , 036119812110733	1.7	