Elie Y Hajj

List of Publications by Citations

89 papers	998 citations	18 h-index	27 g-index
90 ext. papers	1,148 ext. citations	2.2 avg, IF	4.57 L-index

#	Paper	IF	Citations
89	Towards 100% recycling of reclaimed asphalt in road surface courses: binder design methodology and case studies. *Journal of Cleaner Production*, **2016**, 131, 43-51	10.3	60
88	Laboratory Evaluation of Mixes Containing Recycled Asphalt Pavement (RAP). *Road Materials and Pavement Design*, **2009**, 10, 495-517	2.6	57
87	Oxidative Aging of Asphalt Binders in Hot-Mix Asphalt Mixtures. *Transportation Research Record*, **2011**, 2207, 107-116	1.7	52
86	The crossover temperature: significance and application towards engineering balanced recycled binder blends. *Road Materials and Pavement Design*, **2019**, 20, 1391-1412	2.6	52
85	Influence of Hydrogreen Bioasphalt on Viscoelastic Properties of Reclaimed Asphalt Mixtures. *Transportation Research Record*, **2013**, 2371, 13-22	1.7	49
84	A critical review of high polymer-modified asphalt binders and mixtures. *International Journal of Pavement Engineering*, **2020**, 21, 686-702	2.6	42
83	Numerical modeling of geogrid-reinforced flexible pavement and corresponding validation using large-scale tank test. *Construction and Building Materials*, **2016**, 122, 214-230	6.7	40
82	Low-temperature properties of plant-produced RAP mixtures in the Northeast. *Road Materials and Pavement Design*, **2014**, 15, 1-27	2.6	29
81	Evaluating Adhesion Properties and Moisture Damage Susceptibility of Warm-Mix Asphalts: Bitumen Bond Strength and Dynamic Modulus Ratio Tests. *Transportation Research Record*, **2012**, 2295, 44-53	1.7	29
80	Impact of Lime and Liquid Antistrip Agents on Properties of Idaho Hot-Mix Asphalt Mixture. *Transportation Research Record*, **2007**, 1998, 65-74	1.7	29
79	Equivalent Loading Frequencies for Dynamic Analysis of Asphalt Pavements. *Journal of Materials in Civil Engineering*, **2013**, 25, 1162-1170	3	27
78	Evaluation of selected warm mix asphalt technologies. *Road Materials and Pavement Design*, **2015**, 16, 475-486	2.6	23
77	Prediction of Asphalt Pavement Temperature Profile with Finite Control Volume Method. *Transportation Research Record*, **2014**, 2456, 96-106	1.7	21
76	Investigation of impact of wheel wander on pavement performance. *Road Materials and Pavement Design*, **2017**, 18, 390-407	2.6	20
75	Approach for Quantifying the Effect of Binder Oxidative Aging on the Viscoelastic Properties of Asphalt Mixtures. *Transportation Research Record*, **2013**, 2373, 109-120	1.7	20
74	Rheological Indexes: Phenomenological Aspects of Asphalt Binder Aging Evaluations. *Transportation Research Record*, **2015**, 2505, 32-40	1.7	20
73	Methodologies for Estimating Effective Performance Grade of Asphalt Binders in Mixtures with High Recycled Asphalt Pavement Content: Case Study. *Transportation Research Record*, **2012**, 2294, 53-63	1.7	20

72	Performance Evaluation of Asphalt Mixtures with High Recycled Asphalt Pavement Content. *Transportation Research Record*, **2011**, 2208, 72-81	1.7	20
71	A method to estimate the thermal stress build-up in an asphalt mixture from a single-cooling event. *Road Materials and Pavement Design*, **2013**, 14, 201-211	2.6	18
70	Optimum Time for Application of Slurry Seal to Asphalt Concrete Pavements. *Transportation Research Record*, **2011**, 2235, 66-81	1.7	18
69	Impact of Antistrip Additives on the Long-Term Aging Rheological Properties of Asphalt Binders. *Journal of Materials in Civil Engineering*, **2015**, 27,	3	16
68	Evaluation of select warm mix additives with polymer and rubber modified asphalt mixtures. *Canadian Journal of Civil Engineering*, **2015**, 42, 377-388	1.3	16
67	Long-Term Performance of Reflective Cracking Mitigation Techniques in Nevada. *Transportation Research Record*, **2008**, 2044, 86-95	1.7	16
66	Significance of Mixture Parameters on Binder Aging in Hot-Mix Asphalt Mixtures. *Transportation Research Record*, **2013**, 2370, 116-127	1.7	13
65	Evaluation of the Use of Reclaimed Asphalt Pavement in Airfield HMA Pavements. *Journal of Transportation Engineering*, **2010**, 136, 181-189		13
64	Estimation of Stress Conditions for the Flow Number Simple Performance Test. *Transportation Research Record*, **2010**, 2181, 67-78	1.7	13
63	A mechanistic-empirical approach to quantify the influence of geogrid on the performance of flexible pavement structures. *Transportation Geotechnics*, **2017**, 13, 69-80	4	12
62	Fatigue Characteristics of Superpave and Hveem Mixtures. *Journal of Transportation Engineering*, **2005**, 131, 302-310		12
61	Performance Evaluation of Asphalt Pavement Preservation Activities. *Transportation Research Record*, **2010**, 2150, 36-46	1.7	11
60	A comprehensive evaluation of moisture damage of asphalt concrete mixtures. *International Journal of Pavement Engineering*, **2017**, 18, 169-182	2.6	10
59	Data Processing Framework for Development of Driving Cycles with Data from SHRP 2 Naturalistic Driving Study. *Transportation Research Record*, **2017**, 2645, 50-56	1.7	10
58	Probabilistic Mechanistic-Based Pavement Damage Costs for Multitrip Overweight Vehicles. *Journal of Transportation Engineering Part B: Pavements*, **2018**, 144, 04018004	1.4	10
57	Performance Evaluation of Field-Produced Warm-Mix Asphalt Mixtures in Manitoba, Canada. *Transportation Research Record*, **2012**, 2294, 64-73	1.7	10
56	Impact of lime application method on ravelling and moisture sensitivity in HMA mixtures. *International Journal of Pavement Engineering*, **2011**, 12, 149-160	2.6	10
55	Effect of select warm-mix additives on thermo-viscoelastic properties of asphalt mixtures. *Road Materials and Pavement Design*, **2013**, 14, 175-186	2.6	9

54	Low Temperature Characterization of Asphalt Mixtures by Measuring Visco-Elastic Properties under Thermal Loading **2013**,		9
53	Evaluation of Rut Resistant Asphalt Mixtures for Intersection. *Road Materials and Pavement Design*, **2011**, 12, 263-292	2.6	9
52	Strategies for Producing Asphalt Mixtures with High RAP Content. *Journal of Materials in Civil Engineering*, **2019**, 31, 05019002	3	8
51	Impact of lime on the mechanical and mechanistic performance of hot mixed asphalt mixtures. *Road Materials and Pavement Design*, **2015**, 16, 421-444	2.6	8
50	Bulk Specific Gravity of Reclaimed Asphalt Pavement Aggregate: Evaluating the Effect on Voids in Mineral Aggregate. *Transportation Research Record*, **2010**, 2180, 30-35	1.7	8
49	Finite element modelling of the rolling resistance due to pavement deformation. *International Journal of Pavement Engineering*, **2020**, 21, 365-375	2.6	8
48	A comprehensive model for predicting thermal cracking events in asphalt pavements. *International Journal of Pavement Engineering*, **2017**, 18, 871-885	2.6	7
47	Reflective cracking relief interlayer for asphalt pavement rehabilitation: from development to demonstration. *Road Materials and Pavement Design*, **2017**, 18, 30-57	2.6	7
46	Fatigue-Based Structural Layer Coefficient of High Polymer-Modified Asphalt Mixtures. *Transportation Research Record*, **2020**, 2674, 232-247	1.7	7
45	Effective Timing for Two Sequential Applications of Slurry Seal on Asphalt Pavement. *Journal of Transportation Engineering*, **2013**, 139, 476-484		7
44	Impact of high polymer modification on reflective cracking performance life of asphalt concrete overlays. *International Journal of Pavement Research and Technology*, **2020**, 13, 510-523	2	6
43	Assessment of Pavement Damage from Bus Rapid Transit: Case Study for Nevada. *Transportation Research Record*, **2016**, 2591, 70-79	1.7	6
42	Damage Assessment for ME Rehabilitation Design of Modified Asphalt Pavements: Challenges and Findings. *Transportation Research Record*, **2018**, 2672, 228-241	1.7	5
41	Cold In-Place Recycling in Nevada: Field Performance Evaluation over the Past Decade. *Transportation Research Record*, **2014**, 2456, 146-160	1.7	5
40	Recommendations for the characterization of RAP aggregate properties using traditional testing and mixture volumetrics. *Road Materials and Pavement Design*, **2012**, 13, 209-233	2.6	5
39	Statistical Distributions of Pavement Damage Associated with Overweight Vehicles: Methodology and Case Study. *Transportation Research Record*, **2018**, 2672, 229-241	1.7	4
38	Evolution of Thermoviscoelastic Properties of Asphalt Mixtures with Oxidative Aging. *Transportation Research Record*, **2014**, 2447, 1-12	1.7	4
37	Influence of Tire–Pavement Stress Distribution, Shape, and Braking on Performance Predictions for Asphalt Pavement. *Transportation Research Record*, **2012**, 2306, 73-85	1.7	4

36	Mechanistic-based verification of a structural layer coefficient for high polymer-modified asphalt mixtures. *Road Materials and Pavement Design*, **2020**, 1-27	2.6	4
35	Postmortem evaluation of accelerated rate of raveling of in-service asphalt pavements in arid climatic conditions-case of Kuwait. *Case Studies in Construction Materials*, **2021**, 14, e00533	2.7	4
34	Impact of Recycled Materials and Recycling Agents on Asphalt Binder Oxidative Aging Predictions. *Transportation Research Record*, **2018**, 2672, 277-289	1.7	4
33	Field Performance and Economic Analysis of Rehabilitated Pavement Sections with Engineered Stress Relief Course Interlayers. *Transportation Research Record*, **2019**, 2673, 351-364	1.7	3
32	Practical method for in-place density measurement of cold in-place recycling mixtures. *Construction and Building Materials*, **2019**, 227, 116731	6.7	3
31	Impact of Antistrip Additives on Pavement Performance Using Mechanistic-Empirical Pavement Design Guide. *Journal of Materials in Civil Engineering*, **2013**, 25, 308-317	3	3
30	Hot-Mix Asphalt Mixtures for Nevada Ts Intersections. *Transportation Research Record*, **2007**, 2001, 73-83	1.7	3
29	Response of an Asphalt Pavement Mixture under a Slow Moving Truck **2005**, 134		3
28	Influence of Aggregate Source and Warm-Mix Technologies on the Mechanical Properties of Asphalt Mixtures. *Advances in Civil Engineering Materials*, **2013**, 2, 20130072	0.7	3
27	Compaction methods of cold recycled asphalt mixtures and their effects on pavement analysis. *Road Materials and Pavement Design*, **2021**, 22, S154-S179	2.6	3
26	Influence of aging on rheology- and chemistry-based properties of high polymer-modified asphalt binders. *International Journal of Pavement Engineering*,1-19	2.6	3
25	Modeling Interface Debonding between Asphalt Layers under Dynamic Aircraft Loading **2017**,		2
24	Mechanistic-Based Approach to Evaluate Rutting Susceptibility of Hot-Mix Asphalt Mixtures by Use of Dynamic Triaxial Testing. *Transportation Research Record*, **2013**, 2373, 121-133	1.7	2
23	Evaluation of Rut Resistant Asphalt Mixtures for Intersection		2
22	Significance of Oxidative Aging on the Thermal Cracking Predictions in Asphalt Concrete Pavements. *RILEM Bookseries*, **2016**, 127-132	0.5	2
21	Local agency transition to balanced mix design. *International Journal of Pavement Engineering*,1-11	2.6	2
20	Investigation of 3D-Move Responses Under Traffic Speed Deflection Devices (TSDDs) **2016**, 161-176		1
19	Assessment of Reflective Cracking Models for Asphalt Pavements **2011**,		1

18	Analysis of R/C decks in multi-cell box girder bridges under rational wheel load distributions. *Bridge Structures*, **2005**, 1, 69-80	0.7	1
17	Investigation of the Rheological and Bonding Characteristics of Crumb Rubber-Modified Asphalt Binders Mixed with Warm Mix Asphalt Additive and Antistrip Agent. *International Journal of Pavement Research and Technology*,1	2	1
16	Evaluation of Modified Engineered Cementitious Composite with Local Materials. *Transportation Research Record*, **2016**, 2577, 78-87	1.7	1
15	Estimation of In-Situ Shear Strength Parameters for Subgrade Layer Using Non-destructive Testing **2016**, 525-538		1
14	Evaluation of Cracking Resistance of Tire Rubber Modified Asphalt Mixtures. *Journal of Transportation Engineering Part B: Pavements*, **2021**, 147, 04021019	1.4	1
13	Influence of Balanced Mix Design Approaches on Pavement Design Making Through an Illustrative Example. *Transportation Research Record*,036119812210902	1.7	1
12	Validation of the subgrade shear strength parameters estimation methodology using light weight deflectometer: Numerical simulation and measured testing data. *Transportation Geotechnics*, **2019**, 21, 100259	4	0
11	Method to estimate design resilient modulus (Mr) of unbound materials for rehabilitation in ME design. *Construction and Building Materials*, **2021**, 267, 120887	6.7	0
10	Nucleus approach for pavement analysis under superheavy load **2018**, 527-530		
9	Impact of Additives on the Cracking Resistance of Asphalt Mixtures. *RILEM Bookseries*, **2016**, 299-306	0.5	
8	Impact of Lime and Liquid Additives on Life-Cycle Cost of Asphalt Pavements **2012**, 14-34		
7	Influence of Laboratory Mixing Procedures on Volumetric and Mechanical Properties of RAP Mixtures. *Advances in Civil Engineering Materials*, **2013**, 2, 20120049	0.7	
6	Road Load Based Model for Vehicle Repair and Maintenance Cost Estimation. *Transportation Research Record*, **2020**, 2674, 490-497	1.7	
5	Asymmetric Logistic Model for Estimation of Mileage-Related Vehicle Depreciation Function of Roadway Characteristics. *Transportation Research Record*, **2020**, 2674, 395-408	1.7	
4	Investigation of Instantaneous Shear Failure in Pavement Subgrade Subjected to Superheavy Load Vehicle. *Lecture Notes in Civil Engineering*, **2022**, 169-178	0.3	
3	Structural Contribution of Cold In-Place Recycling Base Layer. *CivilEng*, **2021**, 2, 736-746	1.7	
2	Full-Scale Pavement Testing of a High Polymer Modified Asphalt Concrete Mixture. *RILEM Bookseries*, **2022**, 959-966	0.5	
1	Examples of Successful Practices with State Implementation of Balanced Design of Asphalt Mixtures. *Transportation Research Record*,036119812210846	1.7	