

Elie Y Hajj

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.

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	Investigation of Instantaneous Shear Failure in Pavement Subgrade Subjected to Superheavy Load Vehicle. <i>Lecture Notes in Civil Engineering</i> , 2022 , 169-178	0.3	
88	Full-Scale Pavement Testing of a High Polymer Modified Asphalt Concrete Mixture. <i>RILEM Bookseries</i> , 2022 , 959-966	0.5	
87	Compaction methods of cold recycled asphalt mixtures and their effects on pavement analysis. <i>Road Materials and Pavement Design</i> , 2021 , 22, S154-S179	2.6	3
86	Postmortem evaluation of accelerated rate of raveling of in-service asphalt pavements in arid climatic conditions-case of Kuwait. <i>Case Studies in Construction Materials</i> , 2021 , 14, e00533	2.7	4
85	Method to estimate design resilient modulus (Mr) of unbound materials for rehabilitation in ME design. <i>Construction and Building Materials</i> , 2021 , 267, 120887	6.7	0
84	Evaluation of Cracking Resistance of Tire Rubber Modified Asphalt Mixtures. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2021 , 147, 04021019	1.4	1
83	Structural Contribution of Cold In-Place Recycling Base Layer. <i>CivilEng</i> , 2021 , 2, 736-746	1.7	
82	Impact of high polymer modification on reflective cracking performance life of asphalt concrete overlays. <i>International Journal of Pavement Research and Technology</i> , 2020 , 13, 510-523	2	6
81	Fatigue-Based Structural Layer Coefficient of High Polymer-Modified Asphalt Mixtures. <i>Transportation Research Record</i> , 2020 , 2674, 232-247	1.7	7
80	Road Load Based Model for Vehicle Repair and Maintenance Cost Estimation. <i>Transportation Research Record</i> , 2020 , 2674, 490-497	1.7	
79	Asymmetric Logistic Model for Estimation of Mileage-Related Vehicle Depreciation Function of Roadway Characteristics. <i>Transportation Research Record</i> , 2020 , 2674, 395-408	1.7	
78	Mechanistic-based verification of a structural layer coefficient for high polymer-modified asphalt mixtures. <i>Road Materials and Pavement Design</i> , 2020 , 1-27	2.6	4
77	Finite element modelling of the rolling resistance due to pavement deformation. <i>International Journal of Pavement Engineering</i> , 2020 , 21, 365-375	2.6	8
76	A critical review of high polymer-modified asphalt binders and mixtures. <i>International Journal of Pavement Engineering</i> , 2020 , 21, 686-702	2.6	42
75	Strategies for Producing Asphalt Mixtures with High RAP Content. <i>Journal of Materials in Civil Engineering</i> , 2019 , 31, 05019002	3	8
74	Field Performance and Economic Analysis of Rehabilitated Pavement Sections with Engineered Stress Relief Course Interlayers. <i>Transportation Research Record</i> , 2019 , 2673, 351-364	1.7	3
73	Validation of the subgrade shear strength parameters estimation methodology using light weight deflectometer: Numerical simulation and measured testing data. <i>Transportation Geotechnics</i> , 2019 , 21, 100259	4	0

72	Practical method for in-place density measurement of cold in-place recycling mixtures. <i>Construction and Building Materials</i> , 2019 , 227, 116731	6.7	3
71	The crossover temperature: significance and application towards engineering balanced recycled binder blends. <i>Road Materials and Pavement Design</i> , 2019 , 20, 1391-1412	2.6	52
70	Probabilistic Mechanistic-Based Pavement Damage Costs for Multitrip Overweight Vehicles. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2018 , 144, 04018004	1.4	10
69	Damage Assessment for ME Rehabilitation Design of Modified Asphalt Pavements: Challenges and Findings. <i>Transportation Research Record</i> , 2018 , 2672, 228-241	1.7	5
68	Statistical Distributions of Pavement Damage Associated with Overweight Vehicles: Methodology and Case Study. <i>Transportation Research Record</i> , 2018 , 2672, 229-241	1.7	4
67	Nucleus approach for pavement analysis under superheavy load 2018 , 527-530		
66	Impact of Recycled Materials and Recycling Agents on Asphalt Binder Oxidative Aging Predictions. <i>Transportation Research Record</i> , 2018 , 2672, 277-289	1.7	4
65	A comprehensive evaluation of moisture damage of asphalt concrete mixtures. <i>International Journal of Pavement Engineering</i> , 2017 , 18, 169-182	2.6	10
64	A comprehensive model for predicting thermal cracking events in asphalt pavements. <i>International Journal of Pavement Engineering</i> , 2017 , 18, 871-885	2.6	7
63	Investigation of impact of wheel wander on pavement performance. <i>Road Materials and Pavement Design</i> , 2017 , 18, 390-407	2.6	20
62	Reflective cracking relief interlayer for asphalt pavement rehabilitation: from development to demonstration. <i>Road Materials and Pavement Design</i> , 2017 , 18, 30-57	2.6	7
61	Data Processing Framework for Development of Driving Cycles with Data from SHRP 2 Naturalistic Driving Study. <i>Transportation Research Record</i> , 2017 , 2645, 50-56	1.7	10
60	A mechanistic-empirical approach to quantify the influence of geogrid on the performance of flexible pavement structures. <i>Transportation Geotechnics</i> , 2017 , 13, 69-80	4	12
59	Modeling Interface Debonding between Asphalt Layers under Dynamic Aircraft Loading 2017 ,		2
58	Investigation of 3D-Move Responses Under Traffic Speed Deflection Devices (TSDDs) 2016 , 161-176		1
57	Numerical modeling of geogrid-reinforced flexible pavement and corresponding validation using large-scale tank test. <i>Construction and Building Materials</i> , 2016 , 122, 214-230	6.7	40
56	Assessment of Pavement Damage from Bus Rapid Transit: Case Study for Nevada. <i>Transportation Research Record</i> , 2016 , 2591, 70-79	1.7	6
55	Towards 100% recycling of reclaimed asphalt in road surface courses: binder design methodology and case studies. <i>Journal of Cleaner Production</i> , 2016 , 131, 43-51	10.3	60

54	Significance of Oxidative Aging on the Thermal Cracking Predictions in Asphalt Concrete Pavements. <i>RILEM Bookseries</i> , 2016 , 127-132	0.5	2
53	Impact of Additives on the Cracking Resistance of Asphalt Mixtures. <i>RILEM Bookseries</i> , 2016 , 299-306	0.5	
52	Evaluation of Modified Engineered Cementitious Composite with Local Materials. <i>Transportation Research Record</i> , 2016 , 2577, 78-87	1.7	1
51	Estimation of In-Situ Shear Strength Parameters for Subgrade Layer Using Non-destructive Testing 2016 , 525-538		1
50	Impact of Antistrip Additives on the Long-Term Aging Rheological Properties of Asphalt Binders. <i>Journal of Materials in Civil Engineering</i> , 2015 , 27,	3	16
49	Evaluation of select warm mix additives with polymer and rubber modified asphalt mixtures. <i>Canadian Journal of Civil Engineering</i> , 2015 , 42, 377-388	1.3	16
48	Evaluation of selected warm mix asphalt technologies. <i>Road Materials and Pavement Design</i> , 2015 , 16, 475-486	2.6	23
47	Impact of lime on the mechanical and mechanistic performance of hot mixed asphalt mixtures. <i>Road Materials and Pavement Design</i> , 2015 , 16, 421-444	2.6	8
46	Rheological Indexes: Phenomenological Aspects of Asphalt Binder Aging Evaluations. <i>Transportation Research Record</i> , 2015 , 2505, 32-40	1.7	20
45	Low-temperature properties of plant-produced RAP mixtures in the Northeast. <i>Road Materials and Pavement Design</i> , 2014 , 15, 1-27	2.6	29
44	Cold In-Place Recycling in Nevada: Field Performance Evaluation over the Past Decade. <i>Transportation Research Record</i> , 2014 , 2456, 146-160	1.7	5
43	Evolution of Thermoviscoelastic Properties of Asphalt Mixtures with Oxidative Aging. <i>Transportation Research Record</i> , 2014 , 2447, 1-12	1.7	4
42	Prediction of Asphalt Pavement Temperature Profile with Finite Control Volume Method. <i>Transportation Research Record</i> , 2014 , 2456, 96-106	1.7	21
41	Effect of select warm-mix additives on thermo-viscoelastic properties of asphalt mixtures. <i>Road Materials and Pavement Design</i> , 2013 , 14, 175-186	2.6	9
40	Approach for Quantifying the Effect of Binder Oxidative Aging on the Viscoelastic Properties of Asphalt Mixtures. <i>Transportation Research Record</i> , 2013 , 2373, 109-120	1.7	20
39	A method to estimate the thermal stress build-up in an asphalt mixture from a single-cooling event. <i>Road Materials and Pavement Design</i> , 2013 , 14, 201-211	2.6	18
38	Influence of Hydrogreen Bioasphalt on Viscoelastic Properties of Reclaimed Asphalt Mixtures. <i>Transportation Research Record</i> , 2013 , 2371, 13-22	1.7	49
37	Equivalent Loading Frequencies for Dynamic Analysis of Asphalt Pavements. <i>Journal of Materials in Civil Engineering</i> , 2013 , 25, 1162-1170	3	27

36	Significance of Mixture Parameters on Binder Aging in Hot-Mix Asphalt Mixtures. <i>Transportation Research Record</i> , 2013 , 2370, 116-127	1.7	13
35	Low Temperature Characterization of Asphalt Mixtures by Measuring Visco-Elastic Properties under Thermal Loading 2013 ,		9
34	Impact of Antistrip Additives on Pavement Performance Using Mechanistic-Empirical Pavement Design Guide. <i>Journal of Materials in Civil Engineering</i> , 2013 , 25, 308-317	3	3
33	Effective Timing for Two Sequential Applications of Slurry Seal on Asphalt Pavement. <i>Journal of Transportation Engineering</i> , 2013 , 139, 476-484		7
32	Mechanistic-Based Approach to Evaluate Rutting Susceptibility of Hot-Mix Asphalt Mixtures by Use of Dynamic Triaxial Testing. <i>Transportation Research Record</i> , 2013 , 2373, 121-133	1.7	2
31	Influence of Aggregate Source and Warm-Mix Technologies on the Mechanical Properties of Asphalt Mixtures. <i>Advances in Civil Engineering Materials</i> , 2013 , 2, 20130072	0.7	3
30	Influence of Laboratory Mixing Procedures on Volumetric and Mechanical Properties of RAP Mixtures. <i>Advances in Civil Engineering Materials</i> , 2013 , 2, 20120049	0.7	
29	Evaluating Adhesion Properties and Moisture Damage Susceptibility of Warm-Mix Asphalts: Bitumen Bond Strength and Dynamic Modulus Ratio Tests. <i>Transportation Research Record</i> , 2012 , 2295, 44-53	1.7	29
28	Influence of Tire Pavement Stress Distribution, Shape, and Braking on Performance Predictions for Asphalt Pavement. <i>Transportation Research Record</i> , 2012 , 2306, 73-85	1.7	4
27	Methodologies for Estimating Effective Performance Grade of Asphalt Binders in Mixtures with High Recycled Asphalt Pavement Content: Case Study. <i>Transportation Research Record</i> , 2012 , 2294, 53-63	1.7	20
26	Performance Evaluation of Field-Produced Warm-Mix Asphalt Mixtures in Manitoba, Canada. <i>Transportation Research Record</i> , 2012 , 2294, 64-73	1.7	10
25	Recommendations for the characterization of RAP aggregate properties using traditional testing and mixture volumetrics. <i>Road Materials and Pavement Design</i> , 2012 , 13, 209-233	2.6	5
24	Impact of Lime and Liquid Additives on Life-Cycle Cost of Asphalt Pavements 2012 , 14-34		
23	Oxidative Aging of Asphalt Binders in Hot-Mix Asphalt Mixtures. <i>Transportation Research Record</i> , 2011 , 2207, 107-116	1.7	52
22	Performance Evaluation of Asphalt Mixtures with High Recycled Asphalt Pavement Content. <i>Transportation Research Record</i> , 2011 , 2208, 72-81	1.7	20
21	Optimum Time for Application of Slurry Seal to Asphalt Concrete Pavements. <i>Transportation Research Record</i> , 2011 , 2235, 66-81	1.7	18
20	Assessment of Reflective Cracking Models for Asphalt Pavements 2011 ,		1
19	Evaluation of Rut Resistant Asphalt Mixtures for Intersection. <i>Road Materials and Pavement Design</i> , 2011 , 12, 263-292	2.6	9

18	Impact of lime application method on ravelling and moisture sensitivity in HMA mixtures. <i>International Journal of Pavement Engineering</i> , 2011 , 12, 149-160	2.6	10
17	Bulk Specific Gravity of Reclaimed Asphalt Pavement Aggregate: Evaluating the Effect on Voids in Mineral Aggregate. <i>Transportation Research Record</i> , 2010 , 2180, 30-35	1.7	8
16	Evaluation of the Use of Reclaimed Asphalt Pavement in Airfield HMA Pavements. <i>Journal of Transportation Engineering</i> , 2010 , 136, 181-189		13
15	Estimation of Stress Conditions for the Flow Number Simple Performance Test. <i>Transportation Research Record</i> , 2010 , 2181, 67-78	1.7	13
14	Performance Evaluation of Asphalt Pavement Preservation Activities. <i>Transportation Research Record</i> , 2010 , 2150, 36-46	1.7	11
13	Laboratory Evaluation of Mixes Containing Recycled Asphalt Pavement (RAP). <i>Road Materials and Pavement Design</i> , 2009 , 10, 495-517	2.6	57
12	Long-Term Performance of Reflective Cracking Mitigation Techniques in Nevada. <i>Transportation Research Record</i> , 2008 , 2044, 86-95	1.7	16
11	Hot-Mix Asphalt Mixtures for Nevada's Intersections. <i>Transportation Research Record</i> , 2007 , 2001, 73-83	1.7	3
10	Impact of Lime and Liquid Antistrip Agents on Properties of Idaho Hot-Mix Asphalt Mixture. <i>Transportation Research Record</i> , 2007 , 1998, 65-74	1.7	29
9	Response of an Asphalt Pavement Mixture under a Slow Moving Truck 2005 , 134		3
8	Analysis of R/C decks in multi-cell box girder bridges under rational wheel load distributions. <i>Bridge Structures</i> , 2005 , 1, 69-80	0.7	1
7	Fatigue Characteristics of Superpave and Hveem Mixtures. <i>Journal of Transportation Engineering</i> , 2005 , 131, 302-310		12
6	Evaluation of Rut Resistant Asphalt Mixtures for Intersection		2
5	Investigation of the Rheological and Bonding Characteristics of Crumb Rubber-Modified Asphalt Binders Mixed with Warm Mix Asphalt Additive and Antistrip Agent. <i>International Journal of Pavement Research and Technology</i> , 1	2	1
4	Influence of aging on rheology- and chemistry-based properties of high polymer-modified asphalt binders. <i>International Journal of Pavement Engineering</i> , 1-19	2.6	3
3	Local agency transition to balanced mix design. <i>International Journal of Pavement Engineering</i> , 1-11	2.6	2
2	Examples of Successful Practices with State Implementation of Balanced Design of Asphalt Mixtures. <i>Transportation Research Record</i> , 036119812210846	1.7	
1	Influence of Balanced Mix Design Approaches on Pavement Design Making Through an Illustrative Example. <i>Transportation Research Record</i> , 036119812210902	1.7	1

