Elie Y Hajj

List of Publications by Year
in descending order

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87 papers	1,377 citations	361296 20 h-index	414303 32 g-index
90 all docs	90 docs citations	90 times ranked	954 citing authors

#	Article	IF	Citations
1	Towards 100% recycling of reclaimed asphalt in road surface courses: binder design methodology and case studies. Journal of Cleaner Production, 2016, 131, 43-51.	4.6	84
2	Laboratory Evaluation of Mixes Containing Recycled Asphalt Pavement (RAP). Road Materials and Pavement Design, 2009, 10, 495-517.	2.0	72
3	The crossover temperature: significance and application towards engineering balanced recycled binder blends. Road Materials and Pavement Design, 2019, 20, 1391-1412.	2.0	70
4	A critical review of high polymer-modified asphalt binders and mixtures. International Journal of Pavement Engineering, 2020, 21, 686-702.	2.2	69
5	Influence of Hydrogreen Bioasphalt on Viscoelastic Properties of Reclaimed Asphalt Mixtures. Transportation Research Record, 2013, 2371, 13-22.	1.0	63
6	Oxidative Aging of Asphalt Binders in Hot-Mix Asphalt Mixtures. Transportation Research Record, 2011, 2207, 107-116.	1.0	61
7	Numerical modeling of geogrid-reinforced flexible pavement and corresponding validation using large-scale tank test. Construction and Building Materials, 2016, 122, 214-230.	3.2	48
8	Prediction of Asphalt Pavement Temperature Profile with Finite Control Volume Method. Transportation Research Record, 2014, 2456, 96-106.	1.0	39
9	Evaluating Adhesion Properties and Moisture Damage Susceptibility of Warm-Mix Asphalts. Transportation Research Record, 2012, 2295, 44-53.	1.0	36
10	Equivalent Loading Frequencies for Dynamic Analysis of Asphalt Pavements. Journal of Materials in Civil Engineering, 2013, 25, 1162-1170.	1.3	35
11	Low-temperature properties of plant-produced RAP mixtures in the Northeast. Road Materials and Pavement Design, 2014, 15, 1-27.	2.0	34
12	Impact of Lime and Liquid Antistrip Agents on Properties of Idaho Hot-Mix Asphalt Mixture. Transportation Research Record, 2007, 1998, 65-74.	1.0	32
13	Investigation of impact of wheel wander on pavement performance. Road Materials and Pavement Design, 2017, 18, 390-407.	2.0	30
14	Optimum Time for Application of Slurry Seal to Asphalt Concrete Pavements. Transportation Research Record, 2011, 2235, 66-81.	1.0	29
15	Evaluation of selected warm mix asphalt technologies. Road Materials and Pavement Design, 2015, 16, 475-486.	2.0	29
16	Performance Evaluation of Asphalt Mixtures with High Recycled Asphalt Pavement Content. Transportation Research Record, 2011, 2208, 72-81.	1.0	26
17	Evaluation of the Use of Reclaimed Asphalt Pavement in Airfield HMA Pavements. Journal of Transportation Engineering, 2010, 136, 181-189.	0.9	24
18	Approach for Quantifying the Effect of Binder Oxidative Aging on the Viscoelastic Properties of Asphalt Mixtures. Transportation Research Record, 2013, 2373, 109-120.	1.0	24

#	Article	IF	Citations
19	Methodologies for Estimating Effective Performance Grade of Asphalt Binders in Mixtures with High Recycled Asphalt Pavement Content. Transportation Research Record, 2012, 2294, 53-63.	1.0	23
20	Long-Term Performance of Reflective Cracking Mitigation Techniques in Nevada. Transportation Research Record, 2008, 2044, 86-95.	1.0	22
21	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.	2.0	21
22	Rheological Indexes. Transportation Research Record, 2015, 2505, 32-40.	1.0	20
23	Finite element modelling of the rolling resistance due to pavement deformation. International Journal of Pavement Engineering, 2020, 21, 365-375.	2.2	19
24	Evaluation of select warm mix additives with polymer and rubber modified asphalt mixtures. Canadian Journal of Civil Engineering, 2015, 42, 377-388.	0.7	18
25	A comprehensive evaluation of moisture damage of asphalt concrete mixtures. International Journal of Pavement Engineering, 2017, 18, 169-182.	2.2	18
26	Bulk Specific Gravity of Reclaimed Asphalt Pavement Aggregate. Transportation Research Record, 2010, 2180, 30-35.	1.0	17
27	Impact of Antistrip Additives on the Long-Term Aging Rheological Properties of Asphalt Binders. Journal of Materials in Civil Engineering, 2015, 27, .	1.3	17
28	A mechanistic-empirical approach to quantify the influence of geogrid on the performance of flexible pavement structures. Transportation Geotechnics, 2017, 13, 69-80.	2.0	17
29	A comprehensive model for predicting thermal cracking events in asphalt pavements. International Journal of Pavement Engineering, 2017, 18, 871-885.	2.2	16
30	Significance of Mixture Parameters on Binder Aging in Hot-Mix Asphalt Mixtures. Transportation Research Record, 2013, 2370, 116-127.	1.0	15
31	Fatigue Characteristics of Superpave and Hveem Mixtures. Journal of Transportation Engineering, 2005, 131, 302-310.	0.9	14
32	Low Temperature Characterization of Asphalt Mixtures by Measuring Visco-Elastic Properties under Thermal Loading. , 2013, , .		14
33	Probabilistic Mechanistic-Based Pavement Damage Costs for Multitrip Overweight Vehicles. Journal of Transportation Engineering Part B: Pavements, 2018, 144, 04018004.	0.8	14
34	Estimation of Stress Conditions for the Flow Number Simple Performance Test. Transportation Research Record, 2010, 2181, 67-78.	1.0	13
35	Performance Evaluation of Asphalt Pavement Preservation Activities. Transportation Research Record, 2010, 2150, 36-46.	1.0	13
36	Performance Evaluation of Field-Produced Warm-Mix Asphalt Mixtures in Manitoba, Canada. Transportation Research Record, 2012, 2294, 64-73.	1.0	13

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37	Effect of select warm-mix additives on thermo-viscoelastic properties of asphalt mixtures. Road Materials and Pavement Design, 2013, 14, 175-186.	2.0	13
38	Reflective cracking relief interlayer for asphalt pavement rehabilitation: from development to demonstration. Road Materials and Pavement Design, 2017, 18, 30-57.	2.0	13
39	Impact of lime application method on ravelling and moisture sensitivity in HMA mixtures. International Journal of Pavement Engineering, 2011, 12, 149-160.	2.2	12
40	Data Processing Framework for Development of Driving Cycles with Data from SHRP 2 Naturalistic Driving Study. Transportation Research Record, 2017, 2645, 50-56.	1.0	12
41	Strategies for Producing Asphalt Mixtures with High RAP Content. Journal of Materials in Civil Engineering, 2019, 31, .	1.3	12
42	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.	1.3	11
43	Influence of aging on rheology- and chemistry-based properties of high polymer-modified asphalt binders. International Journal of Pavement Engineering, 2022, 23, 3285-3303.	2.2	11
44	Evaluation of Rut Resistant Asphalt Mixtures for Intersection. Road Materials and Pavement Design, 2011, 12, 263-292.	2.0	10
45	Influence of Tireâ€“Pavement Stress Distribution, Shape, and Braking on Performance Predictions for Asphalt Pavement. Transportation Research Record, 2012, 2306, 73-85.	1.0	10
46	Impact of lime on the mechanical and mechanistic performance of hot mixed asphalt mixtures. Road Materials and Pavement Design, 2015, 16, 421-444.	2.0	10
47	Assessment of Pavement Damage from Bus Rapid Transit: Case Study for Nevada. Transportation Research Record, 2016, 2591, 70-79.	1.0	10
48	Damage Assessment for ME Rehabilitation Design of Modified Asphalt Pavements: Challenges and Findings. Transportation Research Record, 2018, 2672, 228-241.	1.0	10
49	Fatigue-Based Structural Layer Coefficient of High Polymer-Modified Asphalt Mixtures. Transportation Research Record, 2020, 2674, 232-247.	1.0	10
50	Compaction methods of cold recycled asphalt mixtures and their effects on pavement analysis. Road Materials and Pavement Design, 2021, 22, S154-S179.	2.0	9
51	Effective Timing for Two Sequential Applications of Slurry Seal on Asphalt Pavement. Journal of Transportation Engineering, 2013, 139, 476-484.	0.9	8
52	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.	0.8	8
53	Impact of Recycled Materials and Recycling Agents on Asphalt Binder Oxidative Aging Predictions. Transportation Research Record, 2018, 2672, 277-289.	1.0	7
54	Validation of the subgrade shear strength parameters estimation methodology using light weight deflectometer: Numerical simulation and measured testing data. Transportation Geotechnics, 2019, 21, 100259.	2.0	7

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55	Influence of Aggregate Source and Warm-Mix Technologies on the Mechanical Properties of Asphalt Mixtures. Advances in Civil Engineering Materials, 2013, 2, 400-417.	0.2	7
56	Evolution of Thermoviscoelastic Properties of Asphalt Mixtures with Oxidative Aging. Transportation Research Record, 2014, 2447, 1-12.	1.0	6
57	Statistical Distributions of Pavement Damage Associated with Overweight Vehicles: Methodology and Case Study. Transportation Research Record, 2018, 2672, 229-241.	1.0	6
58	Hot-Mix Asphalt Mixtures for Nevada's Intersections. Transportation Research Record, 2007, 2001, 73-83.	1.0	5
59	Recommendations for the characterization of RAP aggregate properties using traditional testing and mixture volumetrics. Road Materials and Pavement Design, 2012, 13, 209-233.	2.0	5
60	Cold In-Place Recycling in Nevada. Transportation Research Record, 2014, 2456, 146-160.	1.0	5
61	Mechanistic-based verification of a structural layer coefficient for high polymer-modified asphalt mixtures. Road Materials and Pavement Design, 2021, 22, 2721-2747.	2.0	5
62	Response of an Asphalt Pavement Mixture under a Slow Moving Truck. , 2005, , 134.		4
63	Practical method for in-place density measurement of cold in-place recycling mixtures. Construction and Building Materials, 2019, 227, 116731.	3.2	4
64	Significance of Oxidative Aging on the Thermal Cracking Predictions in Asphalt Concrete Pavements. RILEM Bookseries, 2016, , 127-132.	0.2	4
65	Impact of Antistrip Additives on Pavement Performance Using Mechanistic-Empirical Pavement Design Guide. Journal of Materials in Civil Engineering, 2013, 25, 308-317.	1.3	3
66	Modeling Interface Debonding between Asphalt Layers under Dynamic Aircraft Loading. , 2017, , .		3
67	Field Performance and Economic Analysis of Rehabilitated Pavement Sections with Engineered Stress Relief Course Interlayers. Transportation Research Record, 2019, 2673, 351-364.	1.0	3
68	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, 2022, 15, 509-524.	1.3	3
69	Local agency transition to balanced mix design. International Journal of Pavement Engineering, 2022, 23, 4792-4802.	2.2	3
70	Assessment of Reflective Cracking Models for Asphalt Pavements. , 2011, , .		2
71	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.	1.0	2
72	Evaluation of Modified Engineered Cementitious Composite with Local Materials. Transportation Research Record, 2016, 2577, 78-87.	1.0	2

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73	Evaluation of Cracking Resistance of Tire Rubberâ€“Modified Asphalt Mixtures. Journal of Transportation Engineering Part B: Pavements, 2021, 147, 04021019.	0.8	2
74	Evaluation of Rut Resistant Asphalt Mixtures for Intersection. Road Materials and Pavement Design, 2011, 12, 263-292.	2.0	2
75	Examples of Successful Practices with State Implementation of Balanced Design of Asphalt Mixtures. Transportation Research Record, 0, , 036119812210846.	1.0	2
76	Influence of Balanced Mix Design Approaches on Pavement Design Making Through an Illustrative Example. Transportation Research Record, 2022, 2676, 495-506.	1.0	2
77	Analysis of R/C decks in multi-cell box girder bridges under rational wheel load distributions. Bridge Structures, 2005, 1, 69-80.	0.2	1
78	Investigation of 3D-Move Responses Under Traffic Speed Deflection Devices (TSDDs). , 2016, , 161-176.		1
79	Road Load Based Model for Vehicle Repair and Maintenance Cost Estimation. Transportation Research Record, 2020, 2674, 490-497.	1.0	1
80	Method to estimate design resilient modulus (Mr) of unbound materials for rehabilitation in Mâ^'E design. Construction and Building Materials, 2021, 267, 120887.	3.2	1
81	Performance Evaluation of a Polymer Binder Stabilized Aggregate Mixture: A Pilot Study. , 2017, , .		0
82	Asymmetric Logistic Model for Estimation of Mileage-Related Vehicle Depreciation Function of Roadway Characteristics. Transportation Research Record, 2020, 2674, 395-408.	1.0	0
83	Structural Contribution of Cold In-Place Recycling Base Layer. CivilEng, 2021, 2, 736-746.	0.8	0
84	Impact of Lime and Liquid Additives on Life-Cycle Cost of Asphalt Pavements. , 2012, , 14-34.		0
85	Influence of Laboratory Mixing Procedures on Volumetric and Mechanical Properties of RAP Mixtures. Advances in Civil Engineering Materials, 2013, 2, 485-505.	0.2	0
86	Impact of Additives on the Cracking Resistance of Asphalt Mixtures. RILEM Bookseries, 2016, , 299-306.	0.2	0
87	Nucleus approach for pavement analysis under superheavy load. , 2018, , 527-530.		0