

Luis Fuentes

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

883
citations

471371
17
h-index

526166
27
g-index

52
all docs

52
docs citations

52
times ranked

647
citing authors

#	ARTICLE	IF	CITATIONS
1	A probabilistic approach to detect structural problems in flexible pavement sections at network level assessment. <i>International Journal of Pavement Engineering</i> , 2022, 23, 1867-1880.	2.2	15
2	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> , 2022, 23, 1198-1212.	2.2	7
3	3D-finite element pavement structural model for using with traffic speed deflectometers. <i>International Journal of Pavement Engineering</i> , 2022, 23, 4065-4079.	2.2	15
4	Using ANN modeling for pavement layer moduli backcalculation as a function of traffic speed deflections. <i>Construction and Building Materials</i> , 2022, 315, 125736.	3.2	17
5	Correlating the Asphalt-Binder MSCR Test Results to the HMA HWTT and Field Rutting Performance. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2022, 148, .	0.8	14
6	Pavement serviceability evaluation using whole body vibration techniques: a case study for urban roads. <i>International Journal of Pavement Engineering</i> , 2021, 22, 1238-1249.	2.2	23
7	Exploration of a mechanistic model for the quantification of the resilient modulus using free-free resonant column testing. <i>Road Materials and Pavement Design</i> , 2021, 22, 2369-2383.	2.0	8
8	Viscoelastic modelling of an asphalt pavement based on actual tire-pavement contact pressure. <i>Road Materials and Pavement Design</i> , 2021, 22, 2458-2477.	2.0	17
9	Multivariate analysis of user perceptions about the serviceability of urban roads: case of Barranquilla. <i>International Journal of Pavement Engineering</i> , 2021, 22, 54-63.	2.2	8
10	Modelling pavement serviceability of urban roads using deterministic and probabilistic approaches. <i>International Journal of Pavement Engineering</i> , 2021, 22, 77-86.	2.2	23
11	Correlations and preliminary validation of the laboratory monotonic overlay test (OT) data to reflective cracking performance of in-service field highway sections. <i>Construction and Building Materials</i> , 2021, 267, 121029.	3.2	15
12	Establishment of some parametric criteria for standardizing the stirring and blending conditions of using RPAF as an asphalt-binder modifier. <i>Construction and Building Materials</i> , 2021, 272, 121944.	3.2	0
13	Statistical Evaluation of the Material-Source Effects on the DSR Rheological Properties of Plant-Mix Extracted Asphalt-Binders. <i>Materials</i> , 2021, 14, 1931.	1.3	12
14	Evaluation of a roadway thermoelectric energy harvester through FE analysis and laboratory tests. <i>International Journal of Sustainable Engineering</i> , 2021, 14, 1016-1032.	1.9	3
15	Correlating the Asphalt-Binder BBR Test Data to the HMA (ML-OT) Fracture Properties. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, .	1.3	10
16	A mechanistic framework for tensile fatigue resistance of asphalt mixtures. <i>International Journal of Fatigue</i> , 2021, 151, 106345.	2.8	19
17	Portable WIM Systems: Comparison of Sensor Installation Methods for Site-Specific Traffic Data Measurements. <i>Journal of Testing and Evaluation</i> , 2021, 49, 20190040.	0.4	2
18	Rejuvenation of short-term aged asphalt-binder using waste engine oil. <i>Canadian Journal of Civil Engineering</i> , 2020, 47, 822-832.	0.7	39

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19	Exploring the feasibility of using reclaimed paper-based asphalt felt waste as a modifier in asphalt-binders. <i>Construction and Building Materials</i> , 2020, 234, 117379.	3.2	22
20	Correlating the HWTT laboratory test data to field rutting performance of in-service highway sections. <i>Construction and Building Materials</i> , 2020, 236, 117552.	3.2	35
21	Influence of recycled concrete aggregates from different sources in hot mix asphalt design. <i>Construction and Building Materials</i> , 2020, 259, 120427.	3.2	42
22	Performance Characterization of Warm-Mix Asphalt Containing High Reclaimed-Asphalt Pavement with Bio-Oil Rejuvenator. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, .	1.3	22
23	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> , 2020, 262, 120761.	3.2	28
24	Effect of Speed Bumps on Pavement Condition. <i>Transportation Research Record</i> , 2020, 2674, 66-82.	1.0	4
25	Statistical Evaluation of the Material-Source Effect on the Ductility and Elastic Recovery (ER) of Plant-Mix Extracted Asphalt-Binders. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-12.	0.4	3
26	Mechanistic-Empirical Compatible Traffic Data Generation: Portable Weigh-in-Motion versus Cluster Analysis. <i>Journal of Testing and Evaluation</i> , 2020, 48, 2377-2392.	0.4	4
27	A Practical Approach to Incorporate Roughness-Induced Dynamic Loads in Pavement Design and Performance Prediction. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 4339-4348.	1.7	14
28	Evaluating the incidence of mix design parameters and compaction on the properties of pervious concrete mixtures for urban pavements: a statistical approach. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 471, 032060.	0.3	2
29	Using the Simple Punching Shear Test (SPST) for evaluating the HMA shear properties and predicting field rutting performance. <i>Construction and Building Materials</i> , 2019, 224, 920-929.	3.2	16
30	Comparative evaluation of five HMA rutting-related laboratory test methods relative to field performance data: DM, FN, RLPD, SPST, and HWTT. <i>Construction and Building Materials</i> , 2019, 215, 737-753.	3.2	55
31	Use of grid reinforcement in HMA overlays – A Texas field case study of highway US 59 in Atlanta District. <i>Construction and Building Materials</i> , 2019, 213, 325-336.	3.2	18
32	Life Cycle Assessment of Natural and Recycled Concrete Aggregate Production for Road Pavements Applications in the Northern Region of Colombia: Case Study. <i>Transportation Research Record</i> , 2019, 2673, 397-406.	1.0	31
33	Trece años de continuo desarrollo con mezclas asfálticas modificadas con Grano de Caucho Reciclado en Bogotá: Logrando sostenibilidad en pavimentos. <i>Revista Ingeniería De Construcción</i> , 2018, 33, 41-50.	0.4	3
34	Travel Quality Assessment of Urban Roads Based on International Roughness Index: Case Study in Colombia. <i>Transportation Research Record</i> , 2017, 2612, 1-10.	1.0	31
35	Measure of asphalt emulsions stability by oscillatory rheology. <i>Construction and Building Materials</i> , 2017, 155, 838-845.	3.2	6
36	Experimental study on the use of rejuvenators and plastomeric polymers for improving durability of high RAP content asphalt mixtures. <i>Construction and Building Materials</i> , 2017, 155, 37-44.	3.2	55

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37	Laboratory Investigation on the Effects of Natural Fine Aggregates and Recycled Waste Tire Rubber in Pervious Concrete to Develop More Sustainable Pavement Materials. IOP Conference Series: Materials Science and Engineering, 2017, 245, 032081.	0.3	8
38	Evaluation of the methodologies used to generate random pavement profiles based on the power spectral density: An approach based on the International Roughness Index. Ingenieria E Investigacion, 2017, 37, 49.	0.2	15
39	Asphalt emulsions formulation: State-of-the-art and dependency of formulation on emulsions properties. Construction and Building Materials, 2016, 123, 162-173.	3.2	74
40	Improving Pervious Concrete Pavements for Achieving More Sustainable Urban Roads. Procedia Engineering, 2016, 161, 1568-1573.	1.2	31
41	Characterization and development of closed form solutions for axle load spectra associated with trucks circulating the highways of Colombia. Revista Facultad De IngenierÁa, 2015, , .	0.5	0
42	Mechanical Response of Asphalt Mixtures Modified with Natural Wax. , 2014, , .		3
43	Development of Pavement Performance Prediction Models for the Colombian Highway Network. , 2014, , .		1
44	Evaluation of the Use of Ribbed Tires for the Characterization of Skid Resistance Using Friction Models. Journal of Testing and Evaluation, 2014, 42, JTE20130063.	0.4	3
45	Determination of Pavement Macrottexture Limit for Use in International Friction Index Model. Transportation Research Record, 2012, 2306, 138-143.	1.0	8
46	Evaluation of Hot Mix Asphalt Mixtures with Replacement of Aggregates by Reclaimed Asphalt Pavement (RAP) Material. Procedia, Social and Behavioral Sciences, 2012, 53, 379-388.	0.5	43
47	Evaluation of Truck Factors for Pavement Design in Developing Countries. Procedia, Social and Behavioral Sciences, 2012, 53, 1139-1148.	0.5	8
48	Revised Methodology for Computing International Friction Index. Transportation Research Record, 2011, 2227, 129-137.	1.0	5
49	Evaluation of the Speed Constant and Its Effect on the Calibration of Friction-Measuring Devices. Transportation Research Record, 2010, 2155, 134-144.	1.0	10
50	Evaluation of the Effect of Pavement Roughness on Skid Resistance. Journal of Transportation Engineering, 2010, 136, 640-653.	0.9	26
51	Characterization of Recycled Concrete Aggregate as Potential Replacement of Natural Aggregate in Asphalt Pavement. IOP Conference Series: Materials Science and Engineering, 0, 471, 102045.	0.3	8
52	Mechanical properties of Cold Recycled Bituminous Mixes with Crumb Rubber. IOP Conference Series: Materials Science and Engineering, 0, 471, 102044.	0.3	2