

Walaa S Mogawer

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,498
citations

331538

21
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315616

38
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45
all docs

45
docs citations

45
times ranked

861
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance characteristics of plant produced high RAP mixtures. Road Materials and Pavement Design, 2012, 13, 183-208.	2.0	215
2	Evaluating the effect of rejuvenators on the degree of blending and performance of high RAP, RAS, and RAP/RAS mixtures. Road Materials and Pavement Design, 2013, 14, 193-213.	2.0	162
3	Evaluation of Fatigue Tests for Characterizing Asphalt Binders. Journal of Materials in Civil Engineering, 2013, 25, 610-617.	1.3	97
4	Assessment of Workability and Compactability of Warm-Mix Asphalt. Transportation Research Record, 2010, 2180, 36-47.	1.0	92
5	How to Construct an Asphalt Binder Master Curve and Assess the Degree of Blending between RAP and Virgin Binders. Journal of Materials in Civil Engineering, 2013, 25, 1813-1821.	1.3	78
6	Evaluation of high RAP-WMA asphalt rubber mixtures. Road Materials and Pavement Design, 2013, 14, 129-147.	2.0	76
7	Evaluating the Effect of Warm-Mix Asphalt Technologies on Moisture Characteristics of Asphalt Binders and Mixtures. Transportation Research Record, 2011, 2209, 52-60.	1.0	56
8	Ageing and rejuvenators: evaluating their impact on high RAP mixtures fatigue cracking characteristics using advanced mechanistic models and testing methods. Road Materials and Pavement Design, 2015, 16, 1-28.	2.0	54
9	Performance Characteristics of Thin-Lift Overlay Mixtures. Transportation Research Record, 2011, 2208, 17-25.	1.0	51
10	Multi-scale evaluation of the effect of rejuvenators on the performance of high RAP content mixtures. Construction and Building Materials, 2015, 101, 50-56.	3.2	40
11	Fatigue Evaluation of Warm-Mix Asphalt Mixtures. Transportation Research Record, 2011, 2208, 26-32.	1.0	38
12	Performance characteristics of high reclaimed asphalt pavement containing bio-modifier. Road Materials and Pavement Design, 2016, 17, 753-767.	2.0	38
13	Quantification of the degree of blending in hot-mix asphalt (HMA) with reclaimed asphalt pavement (RAP) using Energy Dispersive X-Ray Spectroscopy (EDX) analysis. Journal of Cleaner Production, 2021, 294, 126261.	4.6	35
14	Low-temperature properties of plant-produced RAP mixtures in the Northeast. Road Materials and Pavement Design, 2014, 15, 1-27.	2.0	34
15	Using Polymer Modification and Rejuvenators to Improve the Performance of High Reclaimed Asphalt Pavement Mixtures. Transportation Research Record, 2016, 2575, 10-18.	1.0	31
16	Evaluation of the effects of hot mix asphalt density on mixture fatigue performance, rutting performance and MEPDG distress predictions. International Journal of Pavement Engineering, 2011, 12, 161-175.	2.2	29
17	Performance space diagram for the evaluation of high- and low-temperature asphalt mixture performance. Road Materials and Pavement Design, 2017, 18, 336-358.	2.0	29
18	High-Performance Thin-Lift Overlays with High Reclaimed Asphalt Pavement Content and Warm-Mix Asphalt Technology. Transportation Research Record, 2012, 2293, 18-28.	1.0	26

#	ARTICLE	IF	CITATIONS
19	Effect of Silo Storage Time on the Characteristics of Virgin and Reclaimed Asphalt Pavement Mixtures. Transportation Research Record, 2016, 2573, 76-85.	1.0	26
20	Performance and blending evaluation of asphalt mixtures containing reclaimed asphalt pavement. Road Materials and Pavement Design, 2021, 22, 2441-2457.	2.0	24
21	Using binder and mixture space diagrams to evaluate the effect of re-refined engine oil bottoms on binders and mixtures after ageing. Road Materials and Pavement Design, 2017, 18, 154-182.	2.0	22
22	Development of a coherent framework for balanced mix design and production quality control and quality acceptance. Construction and Building Materials, 2021, 287, 123020.	3.2	22
23	Effects of GTR and Treated GTR on Asphalt Binder and High-RAP Mixtures. Journal of Materials in Civil Engineering, 2014, 26, 721-727.	1.3	21
24	Strategies for Incorporating Higher Recycled Asphalt Pavement Percentages. Transportation Research Record, 2014, 2445, 83-93.	1.0	20
25	Determining the Influence of Plant Type and Production Parameters on Performance of Plant-Produced Reclaimed Asphalt Pavement Mixtures. Transportation Research Record, 2012, 2268, 71-81.	1.0	19
26	Effects of Mineral Fillers on Properties of Stone Matrix Asphalt Mixtures. Transportation Research Record, 1996, 1530, 86-94.	1.0	17
27	A Mechanical Approach to Quantify Blending of Aged Binder from Recycled Materials in New Hot Mix Asphalt Mixtures. Transportation Research Record, 2018, 2672, 107-118.	1.0	16
28	Haul Time Effects on Unmodified, Foamed, and Additive-Modified Binders Used in Hot-Mix Asphalt. Transportation Research Record, 2013, 2347, 88-95.	1.0	15
29	Do Asphalt Mixtures Correlate Better with Mastics or Binders in Evaluating Permanent Deformation?. Transportation Research Record, 2003, 1829, 16-25.	1.0	14
30	Evaluating the mechanical properties of terminal blend tire rubber mixtures incorporating RAP. Construction and Building Materials, 2017, 138, 427-433.	3.2	12
31	Evaluation of Binder Elastic Recovery on HMA Fatigue Cracking using Continuum Damage and Overlay Test Based Analyses. Road Materials and Pavement Design, 2011, 12, 345-376.	2.0	11
32	Effect of Binder Modification on the Performance of an Ultra-Thin Overlay Pavement Preservation Strategy. Transportation Research Record, 2016, 2550, 1-7.	1.0	10
33	Variability of Reclaimed Asphalt Pavement (RAP) Properties within a State and Its Effects on RAP Specifications. Transportation Research Record, 2020, 2674, 73-84.	1.0	10
34	Analysis of Pavement Rutting Data from FHWA Pavement Testing Facility Superpave Validation Study. Transportation Research Record, 1997, 1590, 80-88.	1.0	9
35	Evaluation of Ability of Superpave Shear Tester To Differentiate Between Mixtures with Different Aggregate Sizes. Transportation Research Record, 1998, 1630, 69-76.	1.0	9
36	Effect of Binder Type, Mastic, and Aggregate Type on the Low-Temperature Characteristics of Modified Hot Mix Asphalt. Journal of Testing and Evaluation, 2013, 41, 914-923.	0.4	8

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37	Influence of Production Considerations on Balanced Mixture Designs. Transportation Research Record, 2018, 2672, 426-437.	1.0	6
38	Performance of Modified Asphalt Binders with Identical High-Temperature Performance Grades but Varied Polymer Chemistries. Transportation Research Record, 2004, 1875, 33-44.	1.0	5
39	Evaluating Asphalt Binders Prepared with Different Processes to Meet the Same Performance Grade: Use of Atomic Force Microscope. Transportation Research Record, 2017, 2632, 99-109.	1.0	5
40	Investigating the Performances of Plant-Produced High-Reclaimed Asphalt Pavement Content Warm Mix Asphalts. Transportation Research Record, 2018, 2672, 130-142.	1.0	5
41	Local calibration of the Hirsch model to determine the degree of blending between aged and virgin asphalt binders. Road Materials and Pavement Design, 2022, 23, 2132-2150.	2.0	5
42	Recycled Polyethylene Modified Asphalt Binders and Mixtures: Performance Characteristics and Environmental Impact. Transportation Research Record, 2022, 2676, 202-224.	1.0	3
43	Design, construction and implementation of Superpave pilot projects under a quality assurance programme. International Journal of Pavement Engineering, 2010, 11, 71-82.	2.2	1
44	Effect of Binder Modification and Recycled Asphalt Pavement on the Performance of Permeable Friction Course. Transportation Research Record, 2018, 2672, 119-129.	1.0	1
45	Short- and Mid-Term Loose Mix Conditioning Protocols for Asphalt Overlay Balanced Mix Design and Quality Control and Quality Acceptance. Transportation Research Record, 0, , 036119812210839.	1.0	1