

# Walaa S Mogawer

## List of Publications by Year in descending order

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45  
papers

1,498  
citations

331538

21  
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315616

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all docs

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docs citations

45  
times ranked

861  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Recycled Polyethylene Modified Asphalt Binders and Mixtures: Performance Characteristics and Environmental Impact. Transportation Research Record, 2022, 2676, 202-224.	1.0	3
3	Performance and blending evaluation of asphalt mixtures containing reclaimed asphalt pavement. Road Materials and Pavement Design, 2021, 22, 2441-2457.	2.0	24
4	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
5	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
6	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
7	Influence of Production Considerations on Balanced Mixture Designs. Transportation Research Record, 2018, 2672, 426-437.	1.0	6
8	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
9	Investigating the Performances of Plant-Produced High-Reclaimed Asphalt Pavement Content Warm Mix Asphalts. Transportation Research Record, 2018, 2672, 130-142.	1.0	5
10	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
11	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
12	Evaluating the mechanical properties of terminal blend tire rubber mixtures incorporating RAP. Construction and Building Materials, 2017, 138, 427-433.	3.2	12
13	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
14	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
15	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
16	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
17	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
18	Performance characteristics of high reclaimed asphalt pavement containing bio-modifier. Road Materials and Pavement Design, 2016, 17, 753-767.	2.0	38

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Strategies for Incorporating Higher Recycled Asphalt Pavement Percentages. Transportation Research Record, 2014, 2445, 83-93.	1.0	20
22	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
23	Low-temperature properties of plant-produced RAP mixtures in the Northeast. Road Materials and Pavement Design, 2014, 15, 1-27.	2.0	34
24	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
25	Evaluation of Fatigue Tests for Characterizing Asphalt Binders. Journal of Materials in Civil Engineering, 2013, 25, 610-617.	1.3	97
26	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
27	Evaluation of high RAP-WMA asphalt rubber mixtures. Road Materials and Pavement Design, 2013, 14, 129-147.	2.0	76
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	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
30	Performance characteristics of plant produced high RAP mixtures. Road Materials and Pavement Design, 2012, 13, 183-208.	2.0	215
31	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
32	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
33	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
34	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
35	Fatigue Evaluation of Warm-Mix Asphalt Mixtures. Transportation Research Record, 2011, 2208, 26-32.	1.0	38
36	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

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37	Performance Characteristics of Thin-Lift Overlay Mixtures. Transportation Research Record, 2011, 2208, 17-25.	1.0	51
38	Assessment of Workability and Compactability of Warm-Mix Asphalt. Transportation Research Record, 2010, 2180, 36-47.	1.0	92
39	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
40	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
41	Do Asphalt Mixtures Correlate Better with Mastics or Binders in Evaluating Permanent Deformation?. Transportation Research Record, 2003, 1829, 16-25.	1.0	14
42	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
43	Analysis of Pavement Rutting Data from FHWA Pavement Testing Facility Superpave Validation Study. Transportation Research Record, 1997, 1590, 80-88.	1.0	9
44	Effects of Mineral Fillers on Properties of Stone Matrix Asphalt Mixtures. Transportation Research Record, 1996, 1530, 86-94.	1.0	17
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