

# Aboelkasim Diab

## List of Publications by Year in descending order

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59  
papers

1,107  
citations

489802

18  
h-index

488211

31  
g-index

60  
all docs

60  
docs citations

60  
times ranked

894  
citing authors

#	ARTICLE	IF	CITATIONS
1	Shrinkage, Fatigue and Microstructural Characteristics of Vibration Mixing Cement Stabilized Macadam. <i>International Journal of Pavement Research and Technology</i> , 2023, 16, 647-661.	1.3	3
2	High, intermediate and low temperature performance appraisal of elastomeric and plastomeric asphalt binders and mixes. <i>Journal of Elastomers and Plastics</i> , 2022, 54, 225-246.	0.7	7
3	3D Spectral element model with a space-decoupling technique for the response of transversely isotropic pavements to moving vehicular loading. <i>Road Materials and Pavement Design</i> , 2022, 23, 2567-2591.	2.0	20
4	Mechanical behaviors of asphalt mixtures modified with European rock bitumen and waste cooking oil. <i>Construction and Building Materials</i> , 2022, 319, 125909.	3.2	22
5	Aging Characteristics of a Colored Ultrathin Overlay. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2022, 148, .	0.8	0
6	Moisture, Rutting, and Fatigue-Cracking Susceptibility of Water-Carrying, Wax-Based, and Chemical-Based Warm Mix Asphalt Systems. <i>Journal of Materials in Civil Engineering</i> , 2022, 34, .	1.3	2
7	Compound modification of asphalt mixture using ethylene-vinyl acetate copolymer and amorphous poly alpha olefin. <i>Construction and Building Materials</i> , 2022, 341, 127705.	3.2	5
8	Response of binder-filler systems into and beyond linear viscoelastic domain: Modeling and healing efficiency. <i>Construction and Building Materials</i> , 2022, 344, 128194.	3.2	1
9	Short- and long-term properties of glass fiber reinforced asphalt mixtures. <i>International Journal of Pavement Engineering</i> , 2021, 22, 64-76.	2.2	35
10	Effect of long-term aging on waste tire rubber and amorphous poly alpha olefin compound modified asphalt binder and its mixtures. <i>Construction and Building Materials</i> , 2021, 272, 121667.	3.2	20
11	Workability, compactibility and engineering properties of rubber-modified asphalt mixtures prepared via wet process. <i>International Journal of Pavement Research and Technology</i> , 2021, 14, 560-569.	1.3	9
12	A numerical study on rutting behaviour of direct coal liquefaction residue modified asphalt mixture. <i>Road Materials and Pavement Design</i> , 2021, 22, 1454-1468.	2.0	7
13	Concave distribution characterization of asphalt pavement surface segregation using smartphone and image processing based techniques. <i>Construction and Building Materials</i> , 2021, 301, 124111.	3.2	11
14	High-temperature creep and low-temperature relaxation of recycled asphalt mixtures: Evaluation and balanced mix design. <i>Construction and Building Materials</i> , 2021, 310, 125222.	3.2	18
15	A Review on Utilization of Electronic Waste Plastics for Use Within Asphaltic Concrete Materials: Development, Opportunities and Challenges for Successful Implementation. , 2020, , 737-749.		2
16	Rheological models for non-newtonian viscosity of modified asphalt binders and mastics. <i>Egyptian Journal of Petroleum</i> , 2020, 29, 105-112.	1.2	7
17	Investigating the mechanisms of rubber, styrene-butadiene-styrene and ethylene-vinyl acetate in asphalt binder based on rheological and distress-related tests. <i>Construction and Building Materials</i> , 2020, 262, 120744.	3.2	17
18	Sensitivity of Rigid Pavement Performance Predictions to Individual Climate Variables using Pavement ME Design. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2020, 146, 04020028.	0.8	2

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19	Rheological properties and chemical characterisation of reacted and activated rubber modified asphalt binder. Road Materials and Pavement Design, 2020, 21, S140-S154.	2.0	14
20	Homogeneity evaluation of hot in-place recycling asphalt mixture using digital image processing technique. Journal of Cleaner Production, 2020, 258, 120524.	4.6	38
21	External sulfate attack on concrete under combined effects of flexural fatigue loading and drying-wetting cycles. Construction and Building Materials, 2020, 249, 118224.	3.2	36
22	Modeling shear stress response of bituminous materials under small and large strains. Construction and Building Materials, 2020, 252, 119133.	3.2	10
23	Effect of Asphalt Grade and Polymer Type (SBS and EE-2) on Produced PMB and Asphalt Concrete Mix Properties. Journal of Materials in Civil Engineering, 2020, 32, .	1.3	7
24	Rheological Characteristics of Reacted and Activated Rubber Modified Asphalt Binder. , 2019, , .		1
25	Closure to "Linear and Nonlinear Rheological Properties of Bituminous Mastics under Large Amplitude Oscillatory Shear Testing" by Aboelkasim Diab and Zhanping You. Journal of Materials in Civil Engineering, 2019, 31, 07019002.	1.3	0
26	Influence of aging on properties of polymer-modified asphalt. Construction and Building Materials, 2019, 196, 54-65.	3.2	77
27	Characterizing the Temperature Effects on Rutting and Fatigue Properties of Asphalt Binders Based on Time-Temperature Superposition Principle. Journal of Testing and Evaluation, 2019, 47, 2476-2496.	0.4	3
28	Linear and Nonlinear Rheological Properties of Bituminous Mastics under Large Amplitude Oscillatory Shear Testing. Journal of Materials in Civil Engineering, 2018, 30, .	1.3	19
29	Experimental and theoretical investigations on the viscosity of heterogeneous asphalt binders. Journal of Elastomers and Plastics, 2018, 50, 354-371.	0.7	6
30	Refining the Calculation Method for Fatigue Failure Criterion of Asphalt Binder from Linear Amplitude Sweep Test. Journal of Materials in Civil Engineering, 2018, 30, .	1.3	28
31	Investigating influence of mineral filler at asphalt mixture and mastic scales. International Journal of Pavement Research and Technology, 2018, 11, 213-224.	1.3	59
32	Advanced Pavement Materials for Sustainable Transportation Infrastructure. Advances in Materials Science and Engineering, 2018, 2018, 1-1.	1.0	3
33	Aggregate Morphology and Internal Structure for Asphalt Concrete: Prestep of Computer-Generated Microstructural Models. International Journal of Geomechanics, 2018, 18, .	1.3	16
34	A Bitumen-Based Prototype to Predict the Workability of Asphalt Concrete Mixtures. Sustainable Civil Infrastructures, 2018, , 14-30.	0.1	4
35	Characteristics of asphalt binder and mixture containing nanosilica. International Journal of Pavement Research and Technology, 2017, 10, 148-157.	1.3	94
36	Environmental and mechanical performance of crumb rubber modified warm mix asphalt using Evotherm. Journal of Cleaner Production, 2017, 159, 346-358.	4.6	99

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37	Small and large strain rheological characterizations of polymer- and crumb rubber-modified asphalt binders. <i>Construction and Building Materials</i> , 2017, 144, 168-177.	3.2	47
38	Multi-scale characterization of hydrated lime mastics. <i>Canadian Journal of Civil Engineering</i> , 2017, 44, 985-993.	0.7	5
39	Studying viscosity of asphalt binders and effect of varied production temperatures on engineering properties of hot mix asphalt mixtures. <i>Canadian Journal of Civil Engineering</i> , 2017, 44, 1-9.	0.7	12
40	Sensitivity of traffic accidents mitigation policies based on fuzzy modeling: A case study. , 2017, , .		2
41	Towards an Alternate Evaluation of Moisture-Induced Damage of Bituminous Materials. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1049.	1.3	5
42	TRAFFIC ACCIDENTS PREDICTION MODEL USING FUZZY LOGIC: ASWAN DESERT ROAD CASE STUDY. <i>JES Journal of Engineering Sciences</i> , 2017, 45, 28-44.	0.0	4
43	A conditioning method to evaluate moisture influence on the durability of asphalt mixture materials. <i>Canadian Journal of Civil Engineering</i> , 2016, 43, 943-948.	0.7	6
44	Design and performance investigation on dense graded anti-sliding ultra-thin wearing course material. , 2016, , 1203-1212.		6
45	Characteristics of a Surfactant Produced Warm Mix Asphalt Binder and Workability of the Mixture. <i>Journal of Testing and Evaluation</i> , 2016, 44, 2219-2230.	0.4	10
46	Characterization of Low Temperature Crack Resistance of Crumb Rubber Modified Asphalt Mixtures Using Semi-Circular Bending Tests. <i>Journal of Testing and Evaluation</i> , 2016, 44, 20150145.	0.4	57
47	Effects of Regular-Sized and Nanosized Hydrated Lime on Binder Rheology and Surface Free Energy of Adhesion of Foamed Warm Mix Asphalt. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, .	1.3	23
48	Evaluation of Foam-based Warm Mix Asphalt Modified with Nano-sized Hydrated Lime Using Multiple Creep and Recovery Tests. , 2014, , .		2
49	Rheological Characteristics of Nano-Sized Hydrated Lime-Modified Foamed Warm Mix Asphalt. , 2014, , .		13
50	Rheological Properties of Short-Term Aged Foamed Asphalt Modified with Nano Hydrated Lime. , 2014, , .		14
51	Moisture Susceptibility Evaluation of Nanosize Hydrated Lime-Modified Asphalt Aggregate Systems Based on Surface Free Energy Concept. <i>Transportation Research Record</i> , 2014, 2446, 52-59.	1.0	32
52	Laboratory performance of warm mix asphalt containing recycled asphalt mixtures. <i>Construction and Building Materials</i> , 2014, 64, 141-149.	3.2	107
53	A Simple Approach to Estimating Dynamic Moduli from Resilient Moduli for the Mechanistic Empirical Design of Asphalt Pavements. , 2013, , .		0
54	Rheological Evaluation of Foamed WMA Modified with Nano Hydrated Lime. <i>Procedia, Social and Behavioral Sciences</i> , 2013, 96, 2858-2866.	0.5	27

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55	Development of a Realistic Conditioning and Evaluation System to Study Moisture Damage of Asphalt Materials. , 2013, , .		4
56	Using Modified Creep and Recovery Tests to Evaluate the Foam-Based Warm Mix Asphalt Contained Nano Hydrated Lime. Advanced Materials Research, 2013, 646, 90-96.	0.3	15
57	Development and Application of the Single-Spiral Inductive-Capacitive Resonant Circuit Sensor for Wireless, Real-Time Characterization of Moisture in Sand. Journal of Sensors, 2013, 2013, 1-7.	0.6	7
58	Effect of Hydrated Lime Application Method on Mechanical and Fatigue Properties of HMA. , 2012, , .		4
59	Integration of Minerâ€™s approach in linear amplitude sweep test data to determine the fatigue life of asphalt binders. Mechanics of Time-Dependent Materials, 0, , 1.	2.3	1