

Aboelkasim Diab

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,107
citations

430754

18
h-index

434063

31
g-index

60
all docs

60
docs citations

60
times ranked

778
citing authors

#	ARTICLE	IF	CITATIONS
1	Laboratory performance of warm mix asphalt containing recycled asphalt mixtures. <i>Construction and Building Materials</i> , 2014, 64, 141-149.	3.2	107
2	Environmental and mechanical performance of crumb rubber modified warm mix asphalt using Evotherm. <i>Journal of Cleaner Production</i> , 2017, 159, 346-358.	4.6	99
3	Characteristics of asphalt binder and mixture containing nanosilica. <i>International Journal of Pavement Research and Technology</i> , 2017, 10, 148-157.	1.3	94
4	Influence of aging on properties of polymer-modified asphalt. <i>Construction and Building Materials</i> , 2019, 196, 54-65.	3.2	77
5	Investigating influence of mineral filler at asphalt mixture and mastic scales. <i>International Journal of Pavement Research and Technology</i> , 2018, 11, 213-224.	1.3	59
6	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
7	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
8	Homogeneity evaluation of hot in-place recycling asphalt mixture using digital image processing technique. <i>Journal of Cleaner Production</i> , 2020, 258, 120524.	4.6	38
9	External sulfate attack on concrete under combined effects of flexural fatigue loading and drying-wetting cycles. <i>Construction and Building Materials</i> , 2020, 249, 118224.	3.2	36
10	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
11	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
12	Refining the Calculation Method for Fatigue Failure Criterion of Asphalt Binder from Linear Amplitude Sweep Test. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, .	1.3	28
13	Rheological Evaluation of Foamed WMA Modified with Nano Hydrated Lime. <i>Procedia, Social and Behavioral Sciences</i> , 2013, 96, 2858-2866.	0.5	27
14	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
15	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
16	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
17	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
18	Linear and Nonlinear Rheological Properties of Bituminous Mastics under Large Amplitude Oscillatory Shear Testing. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, .	1.3	19

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Aggregate Morphology and Internal Structure for Asphalt Concrete: Prestep of Computer-Generated Microstructural Models. <i>International Journal of Geomechanics</i> , 2018, 18, .	1.3	16
22	Using Modified Creep and Recovery Tests to Evaluate the Foam-Based Warm Mix Asphalt Contained Nano Hydrated Lime. <i>Advanced Materials Research</i> , 2013, 646, 90-96.	0.3	15
23	Rheological Properties of Short-Term Aged Foamed Asphalt Modified with Nano Hydrated Lime. , 2014, , .		14
24	Rheological properties and chemical characterisation of reacted and activated rubber modified asphalt binder. <i>Road Materials and Pavement Design</i> , 2020, 21, S140-S154.	2.0	14
25	Rheological Characteristics of Nano-Sized Hydrated Lime-Modified Foamed Warm Mix Asphalt. , 2014, , .		13
26	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
27	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
28	Modeling shear stress response of bituminous materials under small and large strains. <i>Construction and Building Materials</i> , 2020, 252, 119133.	3.2	10
29	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
30	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
31	Development and Application of the Single-Spiral Inductive-Capacitive Resonant Circuit Sensor for Wireless, Real-Time Characterization of Moisture in Sand. <i>Journal of Sensors</i> , 2013, 2013, 1-7.	0.6	7
32	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
33	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
34	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
35	Effect of Asphalt Grade and Polymer Type (SBS and EE-2) on Produced PMB and Asphalt Concrete Mix Properties. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, .	1.3	7
36	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

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37	Experimental and theoretical investigations on the viscosity of heterogeneous asphalt binders. <i>Journal of Elastomers and Plastics</i> , 2018, 50, 354-371.	0.7	6
38	Design and performance investigation on dense graded anti-sliding ultra-thin wearing course material. , 2016, , 1203-1212.		6
39	Multi-scale characterization of hydrated lime mastics. <i>Canadian Journal of Civil Engineering</i> , 2017, 44, 985-993.	0.7	5
40	Towards an Alternate Evaluation of Moisture-Induced Damage of Bituminous Materials. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1049.	1.3	5
41	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
42	Effect of Hydrated Lime Application Method on Mechanical and Fatigue Properties of HMA. , 2012, , .		4
43	Development of a Realistic Conditioning and Evaluation System to Study Moisture Damage of Asphalt Materials. , 2013, , .		4
44	A Bitumen-Based Prototype to Predict the Workability of Asphalt Concrete Mixtures. <i>Sustainable Civil Infrastructures</i> , 2018, , 14-30.	0.1	4
45	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
46	Advanced Pavement Materials for Sustainable Transportation Infrastructure. <i>Advances in Materials Science and Engineering</i> , 2018, 2018, 1-1.	1.0	3
47	Characterizing the Temperature Effects on Rutting and Fatigue Properties of Asphalt Binders Based on Time-Temperature Superposition Principle. <i>Journal of Testing and Evaluation</i> , 2019, 47, 2476-2496.	0.4	3
48	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
49	Evaluation of Foam-based Warm Mix Asphalt Modified with Nano-sized Hydrated Lime Using Multiple Creep and Recovery Tests. , 2014, , .		2
50	Sensitivity of traffic accidents mitigation policies based on fuzzy modeling: A case study. , 2017, , .		2
51	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
52	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
53	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
54	Rheological Characteristics of Reacted and Activated Rubber Modified Asphalt Binder. , 2019, , .		1

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55	Integration of Miner's approach in linear amplitude sweep test data to determine the fatigue life of asphalt binders. <i>Mechanics of Time-Dependent Materials</i> , 0, , 1.	2.3	1
56	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
57	A Simple Approach to Estimating Dynamic Moduli from Resilient Moduli for the Mechanistic Empirical Design of Asphalt Pavements. , 2013, , .		0
58	Closure to "Linear and Nonlinear Rheological Properties of Bituminous Mastics under Large Amplitude Oscillatory Shear Testing" by Aboelkasim Diab and Zhanping You. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, 07019002.	1.3	0
59	Aging Characteristics of a Colored Ultrathin Overlay. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2022, 148, .	0.8	0