

# Zahid Hossain

## List of Publications by Year in descending order

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55  
papers

723  
citations

623188

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580395

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docs citations

56  
times ranked

559  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural Network Based Estimation of Service Life of Different Metal Culverts in Arkansas. <i>Advances in Civil Engineering</i> , 2022, 2022, 1-10.	0.4	2
2	Evaluation of Alternative Sources of Supplementary Cementitious Materials for Concrete Materials. <i>Transportation Research Record</i> , 2022, 2676, 287-301.	1.0	1
3	Use of molecular-level dissipated energy of asphalt binders to predict moisture effects on pavements. <i>International Journal of Pavement Engineering</i> , 2021, 22, 1351-1362.	2.2	7
4	Nanoscale Study of the Influence of Short-Term and Long-Term Aging on Asphalt Binders's Properties. , 2021, , .		0
5	Evaluation of Compatibility of Asphalt Binders and Aggregates. , 2021, , .		2
6	Evaluation of Conventional Elastic Recovery Tests for Modified Binders. , 2021, , .		1
7	Comparing Micro- and Macro-Level Rheological Properties of Polymeric and Reclaimed Asphalt Pavement-Modified Asphalt Binders. <i>Transportation Research Record</i> , 2021, 2675, 247-263.	1.0	3
8	Viability Assessment of the Use of Ground Tire Rubber (GTR) as a Modifier in Asphalt Binders. <i>Sustainable Civil Infrastructures</i> , 2021, , 89-109.	0.1	0
9	Evaluation of Stripping Resistance of Organoclay-Modified Asphalt Binder and Aggregate Systems Using an Optical Contact Angle Analyzer. <i>Sustainable Civil Infrastructures</i> , 2021, , 68-82.	0.1	0
10	Effects of Aging on Physicomechanical and Chemical Properties of Chemically Modified Binders. <i>Journal of Testing and Evaluation</i> , 2021, 49, 822-838.	0.4	2
11	Analysis of Rheological Properties and Moisture Resistance of Nanoclay-Modified Asphalt Binders. <i>Lecture Notes in Civil Engineering</i> , 2021, , 293-300.	0.3	0
12	Prediction of Moisture Damage in Asphalt Pavements Using a Nanomechanistic Approach. <i>Lecture Notes in Civil Engineering</i> , 2021, , 21-28.	0.3	0
13	Evaluation of Alternative Sources of SCMs for Concrete Materials. , 2021, , .		1
14	Feasibility Study of Warm Mix Asphalt in Arkansas. , 2021, , .		2
15	Evaluation of rheological performance and moisture susceptibility of polyphosphoric acid modified asphalt binders. <i>Road Materials and Pavement Design</i> , 2020, 21, 237-252.	2.0	21
16	Prediction of Dynamic Modulus of Hot Mix Asphalts with Reclaimed Asphalt Pavement. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-13.	0.4	1
17	Relationship between Rank of Laboratory Testing Results and Field Performance of Asphalt Interstate Pavement. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, 04020242.	1.3	1
18	Exploration of alternatives of elastic recovery and conventional fatigue tests of modified binders. <i>International Journal of Pavement Research and Technology</i> , 2020, 13, 630-636.	1.3	5

#	ARTICLE	IF	CITATIONS
19	Microscopic examination of rejuvenated binders with high reclaimed asphalts. Construction and Building Materials, 2020, 257, 119490.	3.2	14
20	An Overview of Corrosion Risk of Metal Culverts in Arkansas. MATEC Web of Conferences, 2019, 271, 02004.	0.1	3
21	Effects of Aging and Rejuvenation on Surface-Free Energy Measurements and Adhesion of Asphalt Mixtures. Journal of Materials in Civil Engineering, 2019, 31, .	1.3	31
22	Nanoscale Quantification of Moisture Susceptibility of Paving Asphalts. MATEC Web of Conferences, 2019, 271, 03005.	0.1	7
23	Evaluation of Selected Performance Properties of Nanoclay-Modified Asphalt Binders. MATEC Web of Conferences, 2019, 271, 03006.	0.1	0
24	A Synthesis of Computational and Experimental Approaches of Evaluating Chemical, Physical, and Mechanistic Properties of Asphalt Binders. Advances in Civil Engineering, 2019, 2019, 1-20.	0.4	5
25	What are the Alternatives of PG Plus Tests for Modified Asphalt Binders?. MATEC Web of Conferences, 2019, 271, 03008.	0.1	0
26	Nanomechanistic properties of reclaimed asphalt pavement modified asphalt binders using an atomic force microscope. International Journal of Pavement Engineering, 2019, 20, 357-365.	2.2	41
27	Forensic Investigation of Ten Asphalt Interstate Pavements with Varying Performance in Arkansas. Journal of Transportation Engineering Part B: Pavements, 2018, 144, 04018019.	0.8	1
28	Viability of the Use of Nanoclay-Modified Asphalt Binders in Roofing Shingles. , 2018, , .		1
29	Supplemental use of rice husk ash (RHA) as a cementitious material in concrete industry. Construction and Building Materials, 2018, 178, 1-9.	3.2	82
30	Forensic Evaluation of Premature Pavement Failures in Arkansas. Journal of Performance of Constructed Facilities, 2018, 32, .	1.0	5
31	Nonrecoverable Compliance and Recovery Behavior of Polymer-Modified and Reclaimed Asphalt Pavementâ€“Modified Binders in Arkansas. Journal of Testing and Evaluation, 2018, 46, 2483-2497.	0.4	10
32	Changes in fractional compositions of PPA and SBS modified asphalt binders. Construction and Building Materials, 2017, 152, 386-393.	3.2	54
33	Morphological and Nanomechanical Characterization of Industrial and Agricultural Wasteâ€“Modified Asphalt Binders. International Journal of Geomechanics, 2017, 17, .	1.3	23
34	Laboratory characterisation of asphalt mixes containing RAP and RAS. International Journal of Pavement Engineering, 2016, 17, 829-846.	2.2	27
35	Morphological and Nanomechanical Analyses of Ground Tire Rubber Modified Asphalts. , 2016, , .		1
36	Prediction of the Stripping Resistance of Nanoclay-Modified Asphalts Using Their Surface Chemistries. , 2016, , .		1

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37	Morphological and nanomechanical analyses of ground tire rubber-modified asphalts. Innovative Infrastructure Solutions, 2016, 1, 1.	1.1	8
38	Micro-Structural Analysis of Moisture-Induced Damage Potential of Asphalt Mixes Containing RAP. Journal of Testing and Evaluation, 2016, 44, 194-205.	0.4	9
39	Use of the Multiple Stress Creep Recovery (MSCR) Test Method to Characterize Polymer-Modified Asphalt Binders. Journal of Testing and Evaluation, 2016, 44, 507-520.	0.4	49
40	Linking the Field and Lab Performance of Interstate Pavements. , 2015, , .		1
41	Evaluation of Moisture Susceptibility and Healing Properties of Nanoclay-Modified Asphalt Binders. , 2015, , .		3
42	Investigation of Rheological Properties of Asphalt Rubber toward Sustainable Use of Scrap Tires. , 2015, , .		6
43	Evaluation of Moisture Susceptibility of Nanoclay-Modified Asphalt Binders through the Surface Science Approach. Journal of Materials in Civil Engineering, 2015, 27, .	1.3	31
44	Investigation of moisture damage resistance of GTR-modified asphalt binder by static contact angle measurements. Construction and Building Materials, 2015, 95, 45-53.	3.2	63
45	Effect of Recycled Asphalt Pavement on Thermal Cracking Resistance of Hot-Mix Asphalt. International Journal of Geomechanics, 2015, 15, .	1.3	11
46	Moisture Susceptibility Evaluation of Nanosize Hydrated Lime-Modified Asphaltâ€™Aggregate Systems Based on Surface Free Energy Concept. Transportation Research Record, 2014, 2446, 52-59.	1.0	32
47	Evaluation of Viscosity and Rutting Properties of Nanoclay-Modified Asphalt Binders. , 2014, , .		22
48	Evaluation for Warm-Mix Additive-Modified Asphalt Binders Using Spectroscopy Techniques. Journal of Materials in Civil Engineering, 2013, 25, 149-159.	1.3	53
49	Behavior of Selected Warm Mix Asphalt Additive Modified Binders and Prediction of Dynamic Modulus of the Mixes. Journal of Testing and Evaluation, 2013, 41, 104639.	0.4	9
50	Sensitivity of Oklahoma Binders on Dynamic Modulus of Asphalt Mixes and Distress Functions. Journal of Materials in Civil Engineering, 2012, 24, 1076-1088.	1.3	8
51	Effectiveness of water-bearing and anti-stripping additives in warm mix asphalt technology. International Journal of Pavement Engineering, 2012, 13, 424-432.	2.2	29
52	Influence of Recovery Processes on Properties of Binders and Aggregates Recovered from Recycled Asphalt Pavement. Journal of ASTM International, 2012, 9, 1-18.	0.2	3
53	Influence of Recovery Processes on Properties of Binders and Aggregates Recovered from Recycled Asphalt Pavement. , 2012, , 27-54.		5
54	Rheological Evaluation of Warm Mix and Anti-Stripping Additives Modified Performance Grade Binders. Road Materials and Pavement Design, 2011, 12, 875-895.	2.0	16

#	ARTICLE	IF	CITATIONS
55	Effectiveness of Advera in Warm Mix Asphalt. , 2011, , .		9