

Rouzbeh Ghabchi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

363
citations

12
h-index

18
g-index

44
ext. papers

450
ext. citations

2.6
avg, IF

4
L-index

#	Paper	IF	Citations
42	Evaluation of moisture susceptibility of asphalt mixes containing RAP and different types of aggregates and asphalt binders using the surface free energy method. <i>Construction and Building Materials</i> , 2014 , 73, 479-489	6.7	68
41	Laboratory evaluation of stiffness, low-temperature cracking, rutting, moisture damage, and fatigue performance of WMA mixes. <i>Road Materials and Pavement Design</i> , 2015 , 16, 334-357	2.6	39
40	Numerical Analysis for a Realistic Support Design: Case Study of the Komurhan Tunnel in Eastern Turkey. <i>International Journal of Geomechanics</i> , 2016 , 16, 05015001	3.1	24
39	Application of Asphalt-aggregates Interfacial Energies to Evaluate Moisture-induced Damage of Warm Mix Asphalt. <i>Procedia, Social and Behavioral Sciences</i> , 2013 , 104, 29-38		22
38	Effect of Shape Parameters and Gradation on Laboratory-Measured Permeability of Aggregate Bases. <i>International Journal of Geomechanics</i> , 2015 , 15, 04014070	3.1	21
37	Mechanistic Evaluation of the Effect of WMA Additives on Wettability and Moisture Susceptibility Properties of Asphalt Mixes. <i>Journal of Testing and Evaluation</i> , 2013 , 41, 20120317	1	20
36	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, 04014254	3.1	18
35	Effect of gradation and source properties on stability and drainability of aggregate bases: a laboratory and field study. <i>International Journal of Pavement Engineering</i> , 2013 , 14, 274-290	2.6	18
34	Laboratory characterisation of asphalt mixes containing RAP and RAS. <i>International Journal of Pavement Engineering</i> , 2016 , 17, 829-846	2.6	18
33	Comparison of laboratory performance of asphalt mixes containing different proportions of RAS and RAP. <i>Construction and Building Materials</i> , 2016 , 124, 343-351	6.7	17
32	Effect of WMA additive on properties of PPA-modified asphalt binders containing anti-stripping agent. <i>International Journal of Pavement Engineering</i> , 2021 , 22, 418-431	2.6	13
31	An alternative analysis of indirect tensile test results for evaluating fatigue characteristics of asphalt mixes. <i>Construction and Building Materials</i> , 2018 , 166, 204-213	6.7	12
30	Feasibility of using micronized recycled Polyethylene Terephthalate (PET) as an asphalt binder additive: A laboratory study. <i>Construction and Building Materials</i> , 2021 , 292, 123377	6.7	11
29	Performance evaluation of plant-produced warm mix asphalts containing RAP and RAS. <i>Road Materials and Pavement Design</i> , 2017 , 18, 293-310	2.6	8
28	A Laboratory Study of Warm Mix Asphalt for Moisture Damage Potential Using Surface Free Energy Method 2013 ,		8
27	Micro-Structural Analysis of Moisture-Induced Damage Potential of Asphalt Mixes Containing RAP. <i>Journal of Testing and Evaluation</i> , 2016 , 44, 20140018	1	8
26	Laboratory Characterization of Asphalt Binders Containing a Chemical-Based Warm Mix Asphalt Additive. <i>Journal of Testing and Evaluation</i> , 2020 , 48, 20180409	1	5

25	Effect of additives and aging on moisture-induced damage potential of asphalt mixes using surface free energy and laboratory-based performance tests. <i>International Journal of Pavement Engineering</i> , 2020 , 1-12	2.6	4
24	Influence of In-Isolation Properties of Geogrids on Their Pullout Performance in a Dense Graded Aggregate 2013 , 43, 303-320		4
23	Influence of Tensile Strain at Failure on Flexural Properties of a Cementitiously Stabilized Subgrade Soil. <i>International Journal of Geomechanics</i> , 2017 , 17, 04016057	3.1	4
22	Rutting and moisture-induced damage potential of foamed warm mix asphalt (WMA) containing RAP. <i>Innovative Infrastructure Solutions</i> , 2021 , 6, 1	2.3	4
21	Flexural properties of chemically stabilised subgrade in designing semi-rigid pavements. <i>Road Materials and Pavement Design</i> , 2019 , 20, 836-858	2.6	3
20	Effect of Polyphosphoric Acid on Stress Sensitivity of Polymer-Modified and Unmodified Asphalt Binders 2019 ,		2
19	Effect of Anti-stripping Agents on Asphalt Mix Performance Using a Mechanistic Approach. <i>Sustainable Civil Infrastructures</i> , 2019 , 21-31	0.2	2
18	Evaluation of mix design volumetrics and cracking potential of foamed Warm Mix Asphalt (WMA) containing Reclaimed Asphalt Pavement (RAP). <i>International Journal of Pavement Engineering</i> , 1-13	2.6	2
17	Influence of Chemical Stabilization on the Flexural Fatigue Performance of Subgrade Soil 2017 ,		1
16	Laboratory Performance Evaluation of Stabilized Sulfate Containing Soil with Lime and Class C Fly Ash 2010 ,		1
15	Neural Network Based Estimation of Service Life of Different Metal Culverts in Arkansas. <i>Advances in Civil Engineering</i> , 2022 , 2022, 1-10	1.3	1
14	Characterization of Effect of Aging on Polymer- and Polyphosphoric Acid-Modified Asphalt Binders Using X-Ray Diffraction (XRD). <i>Journal of Testing and Evaluation</i> , 2020 , 48, 20180141	1	1
13	Moisture-induced damage potential of asphalt mixes containing polyphosphoric acid and antistripping agent. <i>Road Materials and Pavement Design</i> , 1-21	2.6	1
12	Effect of tack coat emulsion type, application rate, and surface type and texture on early-age interlayer shear strength of pavements in cold regions. <i>International Journal of Pavement Engineering</i> , 2020 , 1-16	2.6	1
11	Effect of laboratory-produced cellulose nanofiber as an additive on performance of asphalt binders and mixes. <i>Construction and Building Materials</i> , 2021 , 286, 122922	6.7	1
10	Technical Challenges of Utilizing Ground Tire Rubber in Asphalt Pavements in the United States. <i>Materials</i> , 2021 , 14,	3.5	1
9	Effect of Cement Kiln Dust and Rock Dust as Mineral Fillers on Bulk Specific Gravity of Fine Aggregates. <i>Journal of Testing and Evaluation</i> , 2011 , 39, 103255	1	0
8	Laboratory Characterization of Moisture-Induced Damage Potential of Asphalt Mixes Using Conventional and Unconventional Performance-Based Tests. <i>International Journal of Pavement Research and Technology</i> , 1	2	0

7	Effectiveness of Using Polymer-Modified Asphalt Binders in Enhancing Fatigue Life of Asphalt Mixes Containing RAS and RAP. <i>Lecture Notes in Civil Engineering</i> , 2021 , 213-219	0.3	0
6	Characterisation of a hybrid plant-based asphalt binder replacement with high reactive phenolic monomer content. <i>International Journal of Pavement Engineering</i> ,1-22	2.6	0
5	Evaluation of a biofuel residue-derived recycling agent with a low carbon footprint. <i>Transportation Engineering</i> , 2021 , 5, 100085	3	0
4	Feasibility of Using XRF for Assessment of Surface Free Energy Components of Asphalt Binder. <i>Sustainable Civil Infrastructures</i> , 2019 , 163-174	0.2	
3	Enhancing Sustainability of Transportation Infrastructure in the 21st Century 2019 , 70-94		
2	Rutting Performance of PPA-Modified Binders Using Multiple Stress Creep and Recovery (MSCR) Test. <i>Lecture Notes in Civil Engineering</i> , 2020 , 607-616	0.3	
1	Evaluation of Fracture Energy Parameters for Predicting Moisture-Induced Damage in Asphalt Mixes. <i>Transportation Infrastructure Geotechnology</i> ,1	1.3	