Rouzbeh Ghabchi

List of Publications by Year in Descending Order

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	Neural Network Based Estimation of Service Life of Different Metal Culverts in Arkansas. *Advances in Civil Engineering*, **2022**, 2022, 1-10	1.3	1
41	Effect of laboratory-produced cellulose nanofiber as an additive on performance of asphalt binders and mixes. *Construction and Building Materials*, **2021**, 286, 122922	6.7	1
40	Rutting and moisture-induced damage potential of foamed warm mix asphalt (WMA) containing RAP. *Innovative Infrastructure Solutions*, **2021**, 6, 1	2.3	4
39	Effect of WMA additive on properties of PPA-modified asphalt binders containing anti-stripping agent. *International Journal of Pavement Engineering*, **2021**, 22, 418-431	2.6	13
38	Effectiveness of Using Polymer-Modified Asphalt Binders in Enhancing Fatigue Life of Asphalt Mixes Containing RAS and RAP. *Lecture Notes in Civil Engineering*, **2021**, 213-219	0.3	0
37	Feasibility of using micronized recycled Polyethylene Terephthalate (PET) as an asphalt binder additive: A laboratory study. *Construction and Building Materials*, **2021**, 292, 123377	6.7	11
36	Technical Challenges of Utilizing Ground Tire Rubber in Asphalt Pavements in the United States. *Materials*, **2021**, 14,	3.5	1
35	Evaluation of a biofuel residue-derived recycling agent with a low carbon footprint. *Transportation Engineering*, **2021**, 5, 100085	3	0
34	Effect of additives and aging on moisture-induced damage potential of asphalt mixes using surface free energy and laboratory-based performance tests. *International Journal of Pavement Engineering* , **2020**, 1-12	2.6	4
33	Characterization of Effect of Aging on Polymer- and Polyphosphoric Acid-Modified Asphalt Binders Using X-Ray Diffraction (XRD). *Journal of Testing and Evaluation*, **2020**, 48, 20180141	1	1
32	Laboratory Characterization of Asphalt Binders Containing a Chemical-Based Warm Mix Asphalt Additive. *Journal of Testing and Evaluation*, **2020**, 48, 20180409	1	5
31	Rutting Performance of PPA-Modified Binders Using Multiple Stress Creep and Recovery (MSCR) Test. *Lecture Notes in Civil Engineering*, **2020**, 607-616	0.3	
30	Effect of tack coat emulsion type, application rate, and surface type and texture on early-age interlayer shear strength of pavements in cold regions. *International Journal of Pavement Engineering*, **2020**, 1-16	2.6	1
29	Feasibility of Using XRF for Assessment of Surface Free Energy Components of Asphalt Binder. *Sustainable Civil Infrastructures*, **2019**, 163-174	0.2	
28	Effect of Polyphosphoric Acid on Stress Sensitivity of Polymer-Modified and Unmodified Asphalt Binders **2019**,		2
27	Effect of Anti-stripping Agents on Asphalt Mix Performance Using a Mechanistic Approach. *Sustainable Civil Infrastructures*, **2019**, 21-31	0.2	2
26	Enhancing Sustainability of Transportation Infrastructure in the 21st Century **2019**, 70-94		

25	Flexural properties of chemically stabilised subgrade in designing semi-rigid pavements. *Road Materials and Pavement Design*, **2019**, 20, 836-858	2.6	3
24	An alternative analysis of indirect tensile test results for evaluating fatigue characteristics of asphalt mixes. *Construction and Building Materials*, **2018**, 166, 204-213	6.7	12
23	Influence of Chemical Stabilization on the Flexural Fatigue Performance of Subgrade Soil **2017**,		1
22	Performance evaluation of plant-produced warm mix asphalts containing RAP and RAS. *Road Materials and Pavement Design*, **2017**, 18, 293-310	2.6	8
21	Influence of Tensile Strain at Failure on Flexural Properties of a Cementitiously Stabilized Subgrade Soil. *International Journal of Geomechanics*, **2017**, 17, 04016057	3.1	4
20	Numerical Analysis for a Realistic Support Design: Case Study of the Komurhan Tunnel in Eastern Turkey. *International Journal of Geomechanics*, **2016**, 16, 05015001	3.1	24
19	Micro-Structural Analysis of Moisture-Induced Damage Potential of Asphalt Mixes Containing RAP. *Journal of Testing and Evaluation*, **2016**, 44, 20140018	1	8
18	Laboratory characterisation of asphalt mixes containing RAP and RAS. *International Journal of Pavement Engineering*, **2016**, 17, 829-846	2.6	18
17	Comparison of laboratory performance of asphalt mixes containing different proportions of RAS and RAP. *Construction and Building Materials*, **2016**, 124, 343-351	6.7	17
16	Laboratory evaluation of stiffness, low-temperature cracking, rutting, moisture damage, and fatigue performance of WMA mixes. *Road Materials and Pavement Design*, **2015**, 16, 334-357	2.6	39
15	Effects of Regular-Sized and Nanosized Hydrated Lime on Binder Rheology and Surface Free Energy of Adhesion of Foamed Warm Mix Asphalt. *Journal of Materials in Civil Engineering*, **2015**, 27, 04014254	3	18
14	Effect of Shape Parameters and Gradation on Laboratory-Measured Permeability of Aggregate Bases. *International Journal of Geomechanics*, **2015**, 15, 04014070	3.1	21
13	Evaluation of moisture susceptibility of asphalt mixes containing RAP and different types of aggregates and asphalt binders using the surface free energy method. *Construction and Building Materials*, **2014**, 73, 479-489	6.7	68
12	A Laboratory Study of Warm Mix Asphalt for Moisture Damage Potential Using Surface Free Energy Method **2013**,		8
11	Influence of In-Isolation Properties of Geogrids on Their Pullout Performance in a Dense Graded Aggregate **2013**, 43, 303-320		4
10	Application of Asphalt-aggregates Interfacial Energies to Evaluate Moisture-induced Damage of Warm Mix Asphalt. *Procedia, Social and Behavioral Sciences*, **2013**, 104, 29-38		22
9	Effect of gradation and source properties on stability and drainability of aggregate bases: a laboratory and field study. *International Journal of Pavement Engineering*, **2013**, 14, 274-290	2.6	18
8	Mechanistic Evaluation of the Effect of WMA Additives on Wettability and Moisture Susceptibility Properties of Asphalt Mixes. *Journal of Testing and Evaluation*, **2013**, 41, 20120317	1	20

7	Effect of Cement Kiln Dust and Rock Dust as Mineral Fillers on Bulk Specific Gravity of Fine Aggregates. *Journal of Testing and Evaluation*, **2011**, 39, 103255	1	0
6	Laboratory Performance Evaluation of Stabilized Sulfate Containing Soil with Lime and Class C Fly Ash **2010**,		1
5	Moisture-induced damage potential of asphalt mixes containing polyphosphoric acid and antistripping agent. *Road Materials and Pavement Design*,1-21	2.6	1
4	Evaluation of mix design volumetrics and cracking potential of foamed Warm Mix Asphalt (WMA) containing Reclaimed Asphalt Pavement (RAP). *International Journal of Pavement Engineering*,1-13	2.6	2
3	Evaluation of Fracture Energy Parameters for Predicting Moisture-Induced Damage in Asphalt Mixes. *Transportation Infrastructure Geotechnology*,1	1.3	
2	Laboratory Characterization of Moisture-Induced Damage Potential of Asphalt Mixes Using Conventional and Unconventional Performance-Based Tests. *International Journal of Pavement Research and Technology*,1	2	0
1	Characterisation of a hybrid plant-based asphalt binder replacement with high reactive phenolic monomer content. *International Journal of Pavement Engineering*,1-22	2.6	0