

Shenghua Wu

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.

41
papers

546
citations

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h-index

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g-index

43
ext. papers

696
ext. citations

3.3
avg, IF

5.13
L-index

#	Paper	IF	Citations
41	Repurposing waste plastics into cleaner asphalt pavement materials: A critical literature review. <i>Journal of Cleaner Production</i> , 2021 , 280, 124355	10.3	58
40	Evaluation of the performance of warm mix asphalt in Washington state. <i>International Journal of Pavement Engineering</i> , 2016 , 17, 423-434	2.6	46
39	Performance Evaluation of Asphalt Mixes Containing Steel Slag Aggregate as a Measure to Resist Studded Tire Wear. <i>Journal of Materials in Civil Engineering</i> , 2016 , 28, 04015191	3	32
38	Field performance of top-down fatigue cracking for warm mix asphalt pavements. <i>International Journal of Pavement Engineering</i> , 2019 , 20, 33-43	2.6	31
37	Investigation of effectiveness of prediction of fatigue life for hot mix asphalt blended with recycled concrete aggregate using monotonic fracture testing. <i>Construction and Building Materials</i> , 2017 , 131, 50-56	6.7	28
36	Long-Term Field Rutting and Moisture Susceptibility Performance of Warm-Mix Asphalt Pavement. <i>Transportation Research Record</i> , 2016 , 2575, 103-112	1.7	28
35	Prediction Model for Field Rut Depth of Asphalt Pavement Based on Hamburg Wheel Tracking Test Properties. <i>Journal of Materials in Civil Engineering</i> , 2017 , 29, 04017098	3	22
34	Field-aged asphalt binder performance evaluation for Evotherm warm mix asphalt: Comparisons with hot mix asphalt. <i>Construction and Building Materials</i> , 2017 , 156, 574-583	6.7	22
33	State-of-art carbon and graphene family nanomaterials for asphalt modification. <i>Road Materials and Pavement Design</i> , 2021 , 22, 735-756	2.6	20
32	Performance Evaluation of Hot Mix Asphalt Containing Recycled Asphalt Shingles in Washington State. <i>Journal of Materials in Civil Engineering</i> , 2016 , 28, 04015088	3	19
31	Development of Predictive Models for Initiation and Propagation of Field Transverse Cracking. <i>Transportation Research Record</i> , 2015 , 2524, 92-99	1.7	18
30	Comparison of Laboratory and Field Asphalt Aging for Polymer-Modified and Warm-Mix Asphalt Binders. <i>Journal of Materials in Civil Engineering</i> , 2018 , 30, 04018150	3	18
29	Effects of In-Place Volumetric Properties on Field Rutting and Cracking Performance of Asphalt Pavement. <i>Journal of Materials in Civil Engineering</i> , 2019 , 31, 04019150	3	16
28	Performance and optimization of castor beans-based bio-asphalt and European rock-asphalt modified asphalt binder. <i>Construction and Building Materials</i> , 2020 , 240, 117951	6.7	16
27	Early-age performance characterization of hot-mix asphalt overlay with varying amounts of asphalt binder replacement. <i>Construction and Building Materials</i> , 2017 , 153, 294-306	6.7	15
26	Long-Term Field Aging of Warm-Mix and Hot-Mix Asphalt Binders. <i>Transportation Research Record</i> , 2017 , 2632, 140-149	1.7	15
25	Impact of high recycled mixed on HMA overlay crack development rate. <i>Road Materials and Pavement Design</i> , 2017 , 18, 311-327	2.6	15

24	Characteristics of waste tire rubber (WTR) and amorphous poly alpha olefin (APAO) compound modified porous asphalt mixtures. <i>Construction and Building Materials</i> , 2020 , 253, 119071	6.7	14
23	Evaluation of Long-Term Performance of Stone Matrix Asphalt in Washington State. <i>Journal of Performance of Constructed Facilities</i> , 2017 , 31, 04016074	2	14
22	Evaluation of effect of curing time on mixture performance of Advera warm mix asphalt. <i>Construction and Building Materials</i> , 2017 , 145, 62-67	6.7	12
21	Performance assessments of open-graded cement stabilized macadam containing recycled aggregate. <i>Construction and Building Materials</i> , 2020 , 233, 117326	6.7	11
20	Long-Term Field Transverse Cracking Performance of Warm-Mix Asphalt Pavement and Its Significant Material Property. <i>Transportation Research Record</i> , 2016 , 2576, 109-120	1.7	9
19	Evaluation of the Effects of Waste Engine Oil on the Rheological Properties of Asphalt Binders. <i>Journal of Materials in Civil Engineering</i> , 2018 , 30, 06017020	3	9
18	Field Performance of Foaming Warm Mix Asphalt Pavement. <i>Transportation Research Record</i> , 2019 , 2673, 281-294	1.7	7
17	Characterization of ductility of field-aged petroleum asphalt. <i>Petroleum Science and Technology</i> , 2018 , 36, 696-703	1.4	7
16	A mechanistic-empirical model for predicting top-down fatigue cracking in an asphalt pavement overlay. <i>Road Materials and Pavement Design</i> , 2019 , 20, 1322-1353	2.6	7
15	Environmental impact evaluation and long-term rutting resistance performance of warm mix asphalt technologies. <i>Journal of Cleaner Production</i> , 2021 , 278, 123938	10.3	7
14	Comparison of the Relative Long-Term Field Performance among Various Warm Mix Asphalt (WMA) Pavements. <i>Transportation Research Record</i> , 2018 , 2672, 200-210	1.7	6
13	Short-Term Performance and Evolution of Material Properties of Warm- and Hot-Mix Asphalt Pavements: Case Studies. <i>Transportation Research Record</i> , 2017 , 2631, 39-54	1.7	5
12	Evaluate thermal cracking resistance of asphalt binder using 4-mm dynamic shear rheometer monotonic test. <i>Petroleum Science and Technology</i> , 2017 , 35, 732-737	1.4	4
11	Case study: Characterization of short-term field aged asphalt binders in cold mix asphalt pavement. <i>Construction and Building Materials</i> , 2022 , 324, 126643	6.7	3
10	Case Study: Evaluation of the Effect of Extraction Temperature on WMA Binder Containing Sasobit Additive. <i>Journal of Testing and Evaluation</i> , 2018 , 46, 20160516	1	3
9	Evaluation of Effectiveness of Cleaning on In Situ Permeability Restoration of Open-Graded Friction Course. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2020 , 146, 04020003	1.4	2
8	Laboratory Investigation of an Alternative Permeability Indicator to Determine Optimal Maintenance Timing for Open-Graded Friction Course. <i>Transportation Research Record</i> , 2020 , 2674, 165-177	1.7	2
7	Evaluation of the correlations between laboratory measured material properties with field cracking performance for asphalt pavement. <i>Construction and Building Materials</i> , 2021 , 301, 124126	6.7	2

6	Numerical analysis of rehabilitated concrete pavement using crack-and-sealing technique. <i>International Journal of Pavement Engineering</i> , 2019 , 1-13	2.6	1
5	Conversion of Municipal Solid Waste Incineration Bottom Ash in Asphalt Pavements. <i>Advances in Civil Engineering Materials</i> , 2022 , 11, 20210032	0.7	1
4	Integrating Team-Based Learning Modules to Improve Civil Engineering Students' Technical Writing Skills. <i>Journal of Civil Engineering Education</i> , 2020 , 146, 04020005	1.1	0
3	Using Team-Based Learning to Promote Engineering Students' Performance and Self-Efficacy in a Technical Writing Class. <i>IEEE Transactions on Professional Communication</i> , 2021 , 1-12	1	0
2	Investigation of Field Rut Depth of Asphalt Pavements Using Hamburg Wheel Tracking Test. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2021 , 147, 04020091	1.4	0
1	Developing In-Situ Permeability and Air Voids Requirements for Open-Graded Friction Course Pavement: Case Study. <i>International Journal of Civil Engineering</i> , 1	1.9	