

Yuhong Wang

List of Publications by Year in Descending Order

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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.

87

papers

1,312

citations

20

h-index

32

g-index

90

ext. papers

1,639

ext. citations

4.3

avg, IF

5.39

L-index

#	Paper	IF	Citations
87	Sustainable design of pavement systems in highly urbanized context: A lifecycle assessment.. <i>Journal of Environmental Management</i> , 2022 , 305, 114410	7.9	2
86	Connections between asphaltene microstructures in aged asphalt binders and performance-related engineering properties. <i>Construction and Building Materials</i> , 2022 , 329, 127173	6.7	2
85	The hierarchical structure of bitumen of different aging states at the molecular level and nanoscale. <i>Fuel</i> , 2022 , 319, 123791	7.1	1
84	Pavement Marking Incorporated With Binary Code for Accurate Localization of Autonomous Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022 , 1-11	6.1	
83	Changes in the nanoscale asphaltene particles and relaxation spectra of asphalt binders during aging and rejuvenation. <i>Materials and Design</i> , 2022 , 110808	8.1	2
82	CTI-2 Inhibits Metastasis and Epithelial-Mesenchymal Transition of Breast Cancer Cells by Modulating MAPK Signaling Pathway. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
81	Analysis and assessment of respirable particles in asphalt pavement recycling from perspectives of workers' health. <i>Construction and Building Materials</i> , 2021 , 312, 125405	6.7	0
80	Planning considerations of green corridors for the improvement of biodiversity resilience in suburban areas. <i>Journal of Infrastructure Preservation and Resilience</i> , 2021 , 2, 6	2.1	3
79	Relationships between Asphalt-Layer Moduli under Vehicular Loading and FWD Loading. <i>Journal of Materials in Civil Engineering</i> , 2021 , 33, 04020437	3	8
78	Estimating Tensile and Compressive Moduli of Asphalt Mixture from Indirect Tensile and Four-Point Bending Tests. <i>Journal of Materials in Civil Engineering</i> , 2021 , 33, 04020402	3	6
77	Asphaltenes in asphalt: Direct observation and evaluation of their impacts on asphalt properties. <i>Construction and Building Materials</i> , 2021 , 271, 121862	6.7	10
76	3D Reconstruction of Polymer Phase in Polymer-Modified Asphalt Using Confocal Fluorescence Microscopy. <i>Journal of Materials in Civil Engineering</i> , 2021 , 33, 04020400	3	6
75	Influence of ageing conditions on the chemical property changes of asphalt binders. <i>Road Materials and Pavement Design</i> , 2021 , 22, 653-681	2.6	9
74	An international comparison analysis of CO2 emissions in the construction industry. <i>Sustainable Development</i> , 2021 , 29, 754-767	6.7	4
73	Effects of actual loading waveforms on the fatigue behaviours of asphalt mixtures. <i>International Journal of Fatigue</i> , 2021 , 151, 106386	5	22
72	Upstream-downstream water quality comparisons of restored channelized streams. <i>Ecological Engineering</i> , 2021 , 170, 106367	3.9	0
71	Real-time Water Quality Monitoring and Estimation in AIoT for Freshwater Biodiversity Conservation. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	3

70	Resilient pavement design with consideration of flooding effect caused by climate change. <i>Transportmetrica A: Transport Science</i> , 2020 , 16, 1136-1155	2.5	1
69	Use of Sulphoaluminate Cement in Grouted Macadam as Sustainable Pavement Material. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2020 , 146, 04020018	1.4	1
68	Singular value decomposition-based virtual representation for face recognition. <i>Machine Vision and Applications</i> , 2020 , 31, 1	2.8	6
67	Property changes of SBS modified asphalt binders during short-term aging and implications on quality management. <i>Construction and Building Materials</i> , 2020 , 244, 118323	6.7	9
66	Changes of asphalt fumes in hot-mix asphalt pavement recycling. <i>Journal of Cleaner Production</i> , 2020 , 258, 120586	10.3	9
65	Detecting semantic regions of construction site images by transfer learning and saliency computation. <i>Automation in Construction</i> , 2020 , 114, 103185	9.6	7
64	Recent advances in characterizing the BeeB structures and asphaltene particles in asphalt binders. <i>International Journal of Pavement Research and Technology</i> , 2020 , 13, 697-706	2	4
63	Flood Resilience of Urban River Restoration Projects: Case Studies in Hong Kong. <i>Journal of Management in Engineering - ASCE</i> , 2020 , 36, 05020009	5.3	4
62	Improvements on the use of GPC to measure large-size microstructures in aged asphalt binders. <i>International Journal of Pavement Engineering</i> , 2020 , 1-11	2.6	4
61	Research and Analysis of Pressure-Maintaining Trapping Instrument for Macro-Organisms in Hadal Trenches. <i>Journal of Marine Science and Engineering</i> , 2020 , 8, 596	2.4	1
60	Effect of filler on thermodynamic and mechanical behaviour of asphalt mastic: a MD simulation study. <i>International Journal of Pavement Engineering</i> , 2020 , 21, 1248-1262	2.6	24
59	Influences of aging conditions on the rheological properties of asphalt binders. <i>International Journal of Pavement Engineering</i> , 2020 , 21, 653-665	2.6	8
58	The environmental impact evaluation on the application of permeable pavement based on life cycle analysis. <i>International Journal of Transportation Science and Technology</i> , 2019 , 8, 351-357	3.3	15
57	Wet Spinning of Silk Fibroin-Based Core-Sheath Fibers. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 3119-3130	5.5	12
56	Effects of asphalt source and mixing temperature on the generated asphalt fumes. <i>Journal of Hazardous Materials</i> , 2019 , 371, 342-351	12.8	24
55	Development of a sustainable pervious pavement material using recycled ceramic aggregate and bio-based polyurethane binder. <i>Journal of Cleaner Production</i> , 2019 , 220, 1052-1060	10.3	61
54	Effect of Oxidative Aging on Dynamic Modulus of Hot-Mix Asphalt Mixtures. <i>Journal of Materials in Civil Engineering</i> , 2019 , 31, 04018348	3	12
53	The engineering, economic, and environmental performance of terminal blend rubberized asphalt binders with wax-based warm mix additives. <i>Journal of Cleaner Production</i> , 2018 , 184, 985-1001	10.3	47

52	Multiobjective optimization of asphalt pavement design and maintenance decisions based on sustainability principles and mechanistic-empirical pavement analysis. <i>International Journal of Sustainable Transportation</i> , 2018 , 12, 461-472	3.6	15
51	Asphalt Fume Exposures by Pavement Construction Workers: Current Status and Project Cases. <i>Journal of Construction Engineering and Management - ASCE</i> , 2018 , 144, 05018002	4.2	17
50	Determination of oxygen diffusion coefficients of compacted asphalt mixtures. <i>Construction and Building Materials</i> , 2018 , 160, 385-398	6.7	9
49	Investigation of the bond and shear strength between open-graded friction course (OGFC) and dense-graded asphalt concrete. <i>Road Materials and Pavement Design</i> , 2018 , 19, 1164-1191	2.6	2
48	Diluting or dissolving? The use of relaxation spectrum to assess rejuvenation effects in asphalt recycling. <i>Construction and Building Materials</i> , 2018 , 188, 143-152	6.7	14
47	The use of natural rubber latex as a renewable and sustainable modifier of asphalt binder. <i>International Journal of Pavement Engineering</i> , 2017 , 18, 547-559	2.6	44
46	Improved Image Unevenness Reduction and Thresholding Methods for Effective Asphalt X-Ray CT Image Segmentation. <i>Journal of Computing in Civil Engineering</i> , 2017 , 31, 04017002	5	9
45	Automatic key frame extraction in continuous videos from construction monitoring by using color, texture, and gradient features. <i>Automation in Construction</i> , 2017 , 81, 355-368	9.6	13
44	Quality verification of polymer-modified asphalt binder used in hot-mix asphalt pavement construction. <i>Construction and Building Materials</i> , 2017 , 150, 157-166	6.7	15
43	Impacts of flexible pavement design and management decisions on life cycle energy consumption and carbon footprint. <i>International Journal of Life Cycle Assessment</i> , 2017 , 22, 952-971	4.6	24
42	Analysis of Nanoscale Microstructures in Asphalts of Different Aging States. <i>Journal of Materials in Civil Engineering</i> , 2016 , 28, 04015090	3	9
41	Modeling and Validation of Energy Consumption in Asphalt Mixture Production. <i>Journal of Construction Engineering and Management - ASCE</i> , 2016 , 142, 04016069	4.2	11
40	The effects of using reclaimed asphalt pavements (RAP) on the long-term performance of asphalt concrete overlays. <i>Construction and Building Materials</i> , 2016 , 120, 335-348	6.7	34
39	Characterization of the Distress Modes and In Situ Material Properties of Highway Asphalt Pavement with Long Service Life. <i>Journal of Performance of Constructed Facilities</i> , 2016 , 30, 04015095	2	6
38	Different Forms of Asphaltene Microstructures Discovered in Transmission Electron Microscopy. <i>Journal of Materials in Civil Engineering</i> , 2016 , 28, 04016137	3	17
37	Incorporation of Alternatives and Importance Levels in Scheduling Complex Construction Programs. <i>Journal of Management in Engineering - ASCE</i> , 2015 , 31, 04014098	5.3	7
36	Adaptation strategies of transport infrastructures to global climate change. <i>Transport Policy</i> , 2015 , 41, 159-166	5.7	27
35	Improvement of Pavement Design and Management for More Frequent Flooding Caused by Climate Change. <i>Advances in Structural Engineering</i> , 2015 , 18, 487-496	1.9	11

34	Connections between the Rheological and Chemical Properties of Long-Term Aged Asphalt Binders. <i>Journal of Materials in Civil Engineering</i> , 2015 , 27, 04014248	3	27
33	Experimental research of effects of different rotation radii on the growth rate of potassium dihydrogen phosphate crystals. <i>Crystal Research and Technology</i> , 2015 , 50, 331-337	1.3	1
32	Analysis of geoenvironmental hazards in urban underground space development in Shanghai. <i>Natural Hazards</i> , 2015 , 75, 2067-2079	3	28
31	Analysis of fraud risk in public construction projects in China. <i>Public Money and Management</i> , 2014 , 34, 51-58	1.5	8
30	Structural contribution of open-graded friction course mixes in mechanistic-empirical pavement design. <i>International Journal of Pavement Engineering</i> , 2014 , 15, 731-741	2.6	20
29	Cooling Time Estimation of Newly Placed Hot-Mix Asphalt Pavement in Different Weather Conditions. <i>Journal of Construction Engineering and Management - ASCE</i> , 2014 , 140, 04014009	4.2	20
28	Volatile Organic Compounds Generated in Asphalt Pavement Construction and Their Health Effects on Workers. <i>Journal of Construction Engineering and Management - ASCE</i> , 2014 , 140, 04013051	4.2	22
27	Impact of Construction-Induced Vibration on Vibration-Sensitive Medical Equipment: A Case Study. <i>Advances in Structural Engineering</i> , 2014 , 17, 907-920	1.9	7
26	Effects of Using Recycled Asphalt Shingles in Open-Graded Friction Course on Flexible Pavement Performance. <i>Journal of Testing and Evaluation</i> , 2014 , 42, 20130271	1	6
25	THE GREENING OF AFFORDABLE HOUSING THROUGH PUBLIC AND PRIVATE PARTNERSHIPS: DEVELOPMENT OF A MODEL FOR GREEN AFFORDABLE HOUSING. <i>Journal of Green Building</i> , 2014 , 9, 93-112	1.3	11
24	Roadmap to Sustainable Road Construction in Hong Kong 2014 , 107-115		
23	Sustainable Development Planning of Protected Areas near Cities: Case Study in China. <i>Journal of the Urban Planning and Development Division, ASCE</i> , 2013 , 139, 133-143	2.2	20
22	Integration of Financial and Contract Management on the Shanghai Expo Construction Program. <i>Journal of Construction Engineering and Management - ASCE</i> , 2013 , 139, 738-748	4.2	1
21	The viscosity-reducing mechanism of organic wax additive on CRMA. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2013 , 28, 726-732	1	7
20	Impacts of water content on rheological properties and performance-related behaviors of foamed warm-mix asphalt. <i>Construction and Building Materials</i> , 2013 , 48, 203-209	6.7	34
19	Effects of Types and Content of Warm-Mix Additives on CRMA. <i>Journal of Materials in Civil Engineering</i> , 2013 , 25, 939-945	3	27
18	Ordinal Logistic Regression Model for Predicting AC Overlay Cracking. <i>Journal of Performance of Constructed Facilities</i> , 2013 , 27, 346-353	2	23
17	Impact of Climate Conditions on Effectiveness of Asphalt Pavement Preservation Techniques. <i>Transportation Research Record</i> , 2012 , 2292, 73-80	1.7	6

16	Prices of Highway Resurfacing Projects in Economic Downturn: Lessons Learned and Strategies Forward. <i>Journal of Management in Engineering - ASCE</i> , 2012 , 28, 391-397	5.3	19
15	Costs and Effectiveness of Flexible Pavement Treatments: Experience and Evidence. <i>Journal of Performance of Constructed Facilities</i> , 2012 , 26, 516-525	2	16
14	Hot-Mix Asphalt that Contains Nickel Slag Aggregate: Laboratory Evaluation of Use in Highway Construction. <i>Transportation Research Record</i> , 2011 , 2208, 1-8	1.7	17
13	Poverty issues in a national wildlife reserve in China. <i>International Journal of Sustainable Development and World Ecology</i> , 2010 , 17, 529-541	3.8	3
12	Use of steel slag as a granular material: volume expansion prediction and usability criteria. <i>Journal of Hazardous Materials</i> , 2010 , 184, 555-560	12.8	228
11	Sustainability in Construction Education. <i>Journal of Professional Issues in Engineering Education and Practice</i> , 2009 , 135, 21-30	0.7	30
10	Dynamic Panel Data Model for Predicting Performance of Asphalt Concrete Overlay. <i>Journal of Transportation Engineering</i> , 2008 , 134, 86-92		3
9	Axle Load Distribution for Mechanistic Empirical Pavement Design. <i>Journal of Transportation Engineering</i> , 2007 , 133, 469-479		23
8	Survival Analysis of Fatigue Cracking for Flexible Pavements Based on Long-Term Pavement Performance Data. <i>Journal of Transportation Engineering</i> , 2005 , 131, 608-616		48
7	Contractor-Performed Quality Control: Is the Fox Guarding the Henhouse?. <i>Journal of Professional Issues in Engineering Education and Practice</i> , 2004 , 130, 255-258	0.7	3
6	Coordination Issues in Chinese Large Building Projects. <i>Journal of Management in Engineering - ASCE</i> , 2000 , 16, 54-61	5.3	32
5	Analysis of fatigue behaviors of asphalt mixture under actual loading waveforms using pseudo-strain-based approaches. <i>International Journal of Pavement Engineering</i> , 1-14	2.6	1
4	Stress distributions in the textures of prefabricated pavement surface created with the assistance of 3D printing technology. <i>International Journal of Pavement Engineering</i> , 1-17	2.6	5
3	Determination of the master curves of shear modulus and phase angle for asphalt binders with consideration of relaxation spectrum. <i>International Journal of Pavement Engineering</i> , 1-15	2.6	0
2	Effects of using different dynamic moduli on predicted asphalt pavement responses in mechanistic pavement design. <i>Road Materials and Pavement Design</i> , 1-17	2.6	2
1	Property transitions of neat and styrene-butadiene-styrene (SBS)-modified asphalt binders from small, medium to large-amplitude oscillatory shears. <i>International Journal of Pavement Engineering</i> , 1-19	2.6	1