

# Guangwei Yang

## List of Publications by Year in descending order

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27  
papers

742  
citations

687363

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580821

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27  
docs citations

27  
times ranked

451  
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated Pixel-Level Pavement Crack Detection on 3D Asphalt Surfaces with a Recurrent Neural Network. Computer-Aided Civil and Infrastructure Engineering, 2019, 34, 213-229.	9.8	194
2	Pixel-Level Cracking Detection on 3D Asphalt Pavement Images Through Deep-Learning- Based CrackNet-V. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 273-284.	8.0	181
3	Pavement skid resistance as a function of pavement surface and aggregate texture properties. International Journal of Pavement Engineering, 2020, 21, 1159-1169.	4.4	44
4	Novel Macro- and Microtexture Indicators for Pavement Friction by Using High-Resolution Three-Dimensional Surface Data. Transportation Research Record, 2017, 2641, 164-176.	1.9	43
5	Convolutional Neural Network-Based Friction Model Using Pavement Texture Data. Journal of Computing in Civil Engineering, 2018, 32, .	4.7	40
6	Wavelet based macrotexture analysis for pavement friction prediction. KSCE Journal of Civil Engineering, 2018, 22, 117-124.	1.9	39
7	Finite Element Method-Based Skid Resistance Simulation Using In-Situ 3D Pavement Surface Texture and Friction Data. Materials, 2019, 12, 3821.	2.9	23
8	Automatic Pavement Type Recognition for Image-Based Pavement Condition Survey Using Convolutional Neural Network. Journal of Computing in Civil Engineering, 2021, 35, .	4.7	19
9	Network level pavement evaluation with 1Âmm 3D survey system. Journal of Traffic and Transportation Engineering (English Edition), 2015, 2, 391-398.	4.2	17
10	3D Characterization of Aggregates for Pavement Skid Resistance. Journal of Transportation Engineering Part B: Pavements, 2019, 145, 04019002.	1.5	17
11	Friction-ResNets: Deep Residual Network Architecture for Pavement Skid Resistance Evaluation. Journal of Transportation Engineering Part B: Pavements, 2020, 146, 04020027.	1.5	17
12	Random Forest-Based Pavement Surface Friction Prediction Using High-Resolution 3D Image Data. Journal of Testing and Evaluation, 2021, 49, 1141-1152.	0.7	15
13	Panel data analysis of surface skid resistance for various pavement preventive maintenance treatments using long term pavement performance (LTPP) data. Canadian Journal of Civil Engineering, 2017, 44, 358-366.	1.3	14
14	Multiresolution analysis of three-dimensional (3D) surface texture for asphalt pavement friction estimation. International Journal of Pavement Engineering, 2021, 22, 1882-1891.	4.4	14
15	Neural network-based prediction of sideway force coefficient for asphalt pavement using high-resolution 3D texture data. International Journal of Pavement Engineering, 2022, 23, 3157-3166.	4.4	13
16	Effectiveness and performance of high friction surface treatments at a national scale. Canadian Journal of Civil Engineering, 2016, 43, 812-821.	1.3	11
17	Field performance evaluation of high friction surface treatments (HFST) in Oklahoma. Canadian Journal of Civil Engineering, 2019, 46, 1142-1150.	1.3	7
18	Hilbert-Huang transformation (HHT) based texture profile analysis for continuous friction characterisation of pavements. International Journal of Pavement Engineering, 2022, 23, 2074-2082.	4.4	7

#	ARTICLE	IF	CITATIONS
19	Traffic inputs for pavement ME design using Oklahoma data. International Journal of Pavement Research and Technology, 2019, 12, 154-160.	2.6	6
20	Study of Pavement Micro- and Macro-Texture Evolution Due to Traffic Polishing Using 3D Areal Parameters. Materials, 2021, 14, 5769.	2.9	5
21	Data needs and implementation of the Pavement ME Design. Transportmetrica A: Transport Science, 2019, 15, 135-164.	2.0	4
22	Laboratory and Field Performance Evaluation of Warm Mix Asphalt Incorporating RAP and RAS. KSCE Journal of Civil Engineering, 2022, 26, 107-119.	1.9	4
23	Nondestructive Bridge Deck Evaluation Using Sub-mm 3D Laser Imaging Technology at Highway Speeds. Journal of Bridge Engineering, 2022, 27, .	2.9	3
24	Aggregate Characteristics-Based Preventive Maintenance Treatments for Optimized Skid Resistance of Pavements. Transportation Research Record, 2020, 2674, 372-384.	1.9	2
25	Change-Point Detection Approaches for Pavement Dynamic Segmentation. Journal of Transportation Engineering Part B: Pavements, 2021, 147, .	1.5	2
26	Evaluation of Pavement Surface Characteristics for High Friction Surface Treatment (HFST). , 2016, , .		1
27	Field Performance of Deep-Learning Based Fully Automated Cracking Analysis and Its Potential for PCI Surveys. , 2019, , .		0