

Susan Tighe

List of Publications by Year in descending order

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38
papers

741
citations

623574

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552653

26
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38
all docs

38
docs citations

38
times ranked

733
citing authors

#	ARTICLE	IF	CITATIONS
1	CrackUÊnet: A novel deep convolutional neural network for pixelwise pavement crack detection. Structural Control and Health Monitoring, 2020, 27, e2551.	1.9	161
2	Incorporating Road Safety into Pavement Management. Transportation Research Record, 2000, 1699, 1-10.	1.0	71
3	Coupling of oxidative ageing and moisture damage in asphalt mixtures. Road Materials and Pavement Design, 2015, 16, 265-279.	2.0	68
4	Effects of biochar on the chemical changes and phase separation of bio-asphalt under different aging conditions. Journal of Cleaner Production, 2020, 263, 121532.	4.6	54
5	Application of Markov chains and Monte Carlo simulations for developing pavement performance models for urban network management. Structure and Infrastructure Engineering, 2018, 14, 1169-1181.	2.0	43
6	Evaluation of pervious concrete pavement performance in cold weather climates. International Journal of Pavement Engineering, 2012, 13, 197-208.	2.2	35
7	Development of Preventive Maintenance Decision Trees Based on Cost-Effectiveness Analysis: An Ontario Case Study. Transportation Research Record, 2004, 1866, 9-19.	1.0	24
8	Illumination Compensation Model with <i>k</i> -Means Algorithm for Detection of Pavement Surface Cracks with Shadow. Journal of Computing in Civil Engineering, 2020, 34, .	2.5	24
9	Climate change adaptation strategies for transportation infrastructure in Prince George, Canada. Regional Environmental Change, 2016, 16, 1109-1120.	1.4	23
10	Calibration and Validation of Condition Indicator for Managing Urban Pavement Networks. Transportation Research Record, 2014, 2455, 28-36.	1.0	21
11	Crack image detection based on fractional differential and fractal dimension. IET Computer Vision, 2019, 13, 79-85.	1.3	18
12	Quantitative Analysis of Macrotecture of Asphalt Concrete Pavement Surface Based on 3D Data. Transportation Research Record, 2020, 2674, 732-744.	1.0	16
13	The potential use of lightweight cellular concrete in pavement application: a review. International Journal of Pavement Research and Technology, 2020, 13, 686-696.	1.3	15
14	Use of Soft Computing Applications to Model Pervious Concrete Pavement Condition in Cold Climates. Journal of Transportation Engineering, 2009, 135, 791-800.	0.9	14
15	Crystallization kinetics and morphology of biochar modified bio-asphalt binder. Journal of Cleaner Production, 2022, 349, 131495.	4.6	13
16	Three-dimensional pavement crack detection based on primary surface profile innovation optimized dual-phase computing. Engineering Applications of Artificial Intelligence, 2020, 89, 103376.	4.3	12
17	Evaluation of Mechanical Properties and Microscopic Structure of Coal Gangue after Aqueous Solution Treatment. Materials, 2019, 12, 3207.	1.3	11
18	Braking Availability Tester for Realistic Assessment of Aircraft Landing Distance on Winter Runways. Journal of Aerospace Engineering, 2015, 28, 04014089.	0.8	10

#	ARTICLE	IF	CITATIONS
19	Effects of high friction aggregate and PG Plus binder on rutting resistance of hot mix asphalt mixtures. International Journal of Pavement Engineering, 2017, 18, 292-302.	2.2	10
20	Life-Cycle Cost Analysis of Mitigating Reflective Cracking. Transportation Research Record, 2003, 1823, 73-79.	1.0	9
21	Development and Application of a Sustainable Management System for Unpaved Rural Road Networks. Transportation Research Record, 2019, 2673, 891-901.	1.0	9
22	Effects of extreme climatic conditions on pavement response. Road Materials and Pavement Design, 2020, 21, 1413-1425.	2.0	9
23	Climate Change and the Performance of Pavement Infrastructure in Southern Canada: Context and Case Study. , 2006, , .		8
24	Image-Based Coarse-Aggregate Angularity Analysis and Evaluation. Journal of Materials in Civil Engineering, 2020, 32, .	1.3	8
25	Overlay Performance in Canadian Strategic Highway Research Program's Long-Term Pavement Performance Study. Transportation Research Record, 2001, 1778, 191-200.	1.0	7
26	Characteristics of Lightweight Cellular Concrete and Effects on Mechanical Properties. Materials, 2020, 13, 2678.	1.3	7
27	Development of Canadian asphalt pavement deterioration models to benchmark performance. Canadian Journal of Civil Engineering, 2003, 30, 637-643.	0.7	6
28	Study on impact of variables to pavement preheating operation in HIR by using FEM. Construction and Building Materials, 2020, 243, 118304.	3.2	5
29	Structural capacity evaluation of lightweight cellular concrete for flexible pavement subbase. Road Materials and Pavement Design, 2022, 23, 2781-2797.	2.0	5
30	Environmental Deterioration Model for Flexible Pavement Design: An Ontario Example. Transportation Research Record, 2001, 1755, 81-89.	1.0	4
31	Effects of Preheating on the Rheological Properties of Rejuvenated Asphalt Binder. Transportation Research Record, 2019, 2673, 546-557.	1.0	4
32	Exploring implicit relationships between pavement surface friction and vehicle crash severity using interpretable extreme gradient boosting method. Canadian Journal of Civil Engineering, 2022, 49, 1206-1219.	0.7	4
33	Developing a framework for diagnosis of shear distress in asphalt surfaces. International Journal of Pavement Engineering, 2017, 18, 1039-1051.	2.2	3
34	Risk analysis in paving operations using discrete event simulation: a case study of Taiwan permeable asphalt concrete pavement pilot road project. International Journal of Pavement Engineering, 2020, 21, 830-840.	2.2	3
35	Crack grid detection and calculation based on convolutional neural network. Canadian Journal of Civil Engineering, 2021, 48, 1192-1205.	0.7	3
36	Incorporating Variability into Pavement Performance, Life-Cycle Cost Analysis, and Performance-Based Specification Pay Factors. Transportation Research Record, 2005, 1940, 13-20.	1.0	2

#	ARTICLE	IF	CITATIONS
37	Restoration Curves for Infrastructure: Preliminary Case Study on a Bridge in Quebec. Proceedings of the Institution of Civil Engineers: Bridge Engineering, 0, , 1-17.	0.3	1
38	Effects of cementitious stabilisers on performance and life cycle impacts of full-depth reclamation. Road Materials and Pavement Design, 0, , 1-18.	2.0	1