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Equivalent Loading Frequencies for Dynamic Analysis of Asphalt Pavements

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Journal of Materials in Civil Engineering, 2013, 25, 1162-1170.

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#	Paper	IF	Citations
28	TimeFrequency Domain Analysis of Asphalt Longitudinal Strain. <i>Transportation Research Record</i> , 2016 , 2590, 56-64	1.7	0
27	Assessment of dynamic modulus prediction models in fatigue cracking estimation. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016 , 49, 5007-5019	3.4	6
26	Numerical evaluation of the mid-span assumption in the calculation of total load effects in railway bridges. <i>Engineering Structures</i> , 2016 , 107, 1-8	4.7	12
25	Backcalculation of Flexible Pavement Layer Moduli from Traffic Speed Deflectometer Data. <i>Transportation Research Record</i> , 2017 , 2641, 66-74	1.7	16
24	Dynamic simulation analysis of the tire-pavement system considering temperature fields. <i>Construction and Building Materials</i> , 2018 , 171, 261-272	6.7	4
23	Dynamic Behavior and Performance Analysis of Asphalt Pavement in Areas with Extreme Seasonal Variation in Temperature. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2018 , 144, 04018035	1.4	1
22	Influence of viscoelastic properties of cold recycled asphalt mixtures on pavement response by means of temperature instrumentation. <i>Road Materials and Pavement Design</i> , 2019 , 20, S710-S724	2.6	7
21	A spectral analysis of the dynamic frequency characteristics of asphalt pavement under live vehicle loading. <i>Road Materials and Pavement Design</i> , 2020 , 21, 486-499	2.6	2
20	Determination of complex modulus gradients of flexible pavements using falling weight deflectometer and artificial intelligence. <i>Materials and Structures/Materiaux Et Constructions</i> , 2020 , 53, 1	3.4	11
19	Comparative analysis of strain-pulse-based loading frequencies for three types of asphalt pavements via field tests with moving truck axle loading. <i>Construction and Building Materials</i> , 2020 , 247, 118519	6.7	17
18	Relationships between Asphalt-Layer Moduli under Vehicular Loading and FWD Loading. <i>Journal of Materials in Civil Engineering</i> , 2021 , 33, 04020437	3	8
17	A mechanistic framework for field response assessment of asphalt pavements. <i>International Journal of Pavement Research and Technology</i> , 2021 , 14, 174-185	2	6
16	Determination of flexible pavement deterioration conditions using Long-Term Pavement Performance database and artificial intelligence-based finite element model updating. <i>Structural Control and Health Monitoring</i> , 2021 , 28, e2671	4.5	7
15	Evaluation of flexible pavement deterioration conditions using deflection profiles under moving loads. <i>Transportation Geotechnics</i> , 2021 , 26, 100434	4	8
14	Asphalt pavement dynamic response under different vehicular speeds and pavement roughness. <i>Road Materials and Pavement Design</i> , 2021 , 22, 1287-1308	2.6	0
13	Development of equivalent stationary dynamic loads for moving vehicular loads using artificial intelligence-based finite element model updating. <i>Engineering With Computers</i> , 1	4.5	2
12	Influence of Slow-Moving Nature of Super Heavy Load (SHL) Vehicles on the Service Life of Pavement Structures. 2021 ,		1

11	Relating Field Moduli of Asphalt Mixture Layer Under Vehicular Loading and its Dynamic Moduli Under Laboratory Loading. <i>Transportation Research Record</i> , 036119812110444	1.7	1
10	Estimation of Vehicle Speed from Pavement Stress Responses Using Wireless Sensors. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2021 , 147, 04021028	1.4	2
9	Effect of Temperature and Traffic Speed on the Asphalt Moduli for Fatigue Cracking and Pavement Structural Design Considerations. <i>RILEM Bookseries</i> , 2016 , 397-402	0.5	2
8	Viscoelastic Asphalt Pavement Simulations and Simplified Elastic Pavement Models Based on an Equivalent Asphalt Modulus Concept. <i>Journal of Testing and Evaluation</i> , 2017 , 45, 20160652	1	8
7	A mechanistic perspective for airfield pavements evaluation focusing on the asphalt layers behaviour. <i>International Journal of Pavement Engineering</i> , 1-14	2.6	2
6	Numerical investigation of pavement responses under TSD and FWD loading. <i>Construction and Building Materials</i> , 2022 , 318, 126014	6.7	3
5	Mechanistic Analysis of Asphalt Pavements in Support of Pavement Preservation Decision-Making. <i>Infrastructures</i> , 2022 , 7, 61	2.6	3
4	Bridging the gap between laboratory and field moduli of asphalt layer for pavement design and assessment: A comprehensive loading frequency-based approach. <i>Frontiers of Structural and Civil Engineering</i> , 1	2.5	5
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2	Analysis of LVE behaviour and fatigue damage evolution of asphalt pavements with different interface conditions in an accelerated full-scale experiment. 1-14		0
1	Fatigue test setups and analysis methods for asphalt mixture: A state-of-the-art review. 2022 ,		0