Eyal Levenberg

List of Publications by Year
in descending order

45	560	759055 12	713332 21
papers	citations	h-index	g-index

47	47	47	510
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evaluating and optimizing resilience of airport pavement networks. Computers and Operations Research, 2014, 43, 335-348.	2.4	75
2	On-specimen strain measurement with fiber optic distributed sensing. Measurement: Journal of the International Measurement Confederation, 2015, 60, 104-113.	2.5	41
3	Triaxial Small-Strain Viscoelastic-Viscoplastic Modeling of Asphalt Aggregate Mixes. Mechanics of Time-Dependent Materials, 2004, 8, 365-384.	2.3	37
4	Advanced Testing and Characterization of Asphalt Concrete Materials in Tension. International Journal of Geomechanics, 2007, 7, 158-165.	1.3	36
5	Viscoplastic response and modeling of asphalt-aggregate mixes. Materials and Structures/Materiaux Et Constructions, 2009, 42, 1139-1151.	1.3	26
6	Inferring Pavement Properties using an Embedded Accelerometer. International Journal of Transportation Science and Technology, 2012, 1, 229-246.	2.0	26
7	Estimating vehicle speed with embedded inertial sensors. Transportation Research Part C: Emerging Technologies, 2014, 46, 300-308.	3.9	26
8	Smoothing Asphalt Concrete Complex Modulus Test Data. Journal of Materials in Civil Engineering, 2011, 23, 606-611.	1.3	21
9	Resilience of Networked Infrastructure with Evolving Component Conditions: Pavement Network Application. Journal of Computing in Civil Engineering, 2017, 31, .	2.5	21
10	Inverse analysis of viscoelastic pavement properties using data from embedded instrumentation. International Journal for Numerical and Analytical Methods in Geomechanics, 2013, 37, 1016-1033.	1.7	20
11	Viscoelastic Genetic Algorithm for Inverse Analysis of Asphalt Layer Properties from Falling Weight Deflections. Transportation Research Record, 2013, 2369, 38-46.	1.0	20
12	Comparing Traffic Speed Deflectometer and Falling Weight Deflectometer Data. Transportation Research Record, 2018, 2672, 22-31.	1.0	14
13	Dynamic backcalculation with different load-time histories. Road Materials and Pavement Design, 2018, 19, 1314-1333.	2.0	13
14	Viscoelastic Pavement Modeling With a Spreadsheet. , 2016, , .		13
15	Exposing the nonlinear viscoelastic behavior of asphalt-aggregate mixes. Mechanics of Time-Dependent Materials, 2012, 16, 129-143.	2.3	12
16	Live Road Condition Assessment with Internal Vehicle Sensors. Transportation Research Record, 2021, 2675, 1442-1452.	1.0	11
17	Estimating the coefficient of at-rest earth pressure in granular pavement layers. Transportation Geotechnics, 2014, 1, 21-30.	2.0	10
18	Analysis of pavement response to subsurface deformations. Computers and Geotechnics, 2013, 50, 79-88.	2.3	9

#	Article	IF	Citations
19	Experimental investigation of a ballastless asphalt track mockup under vertical loads. Construction and Building Materials, 2020, 261, 119711.	3.2	8
20	Numerical modeling of a ballastless track mockup based on asphalt. Construction and Building Materials, 2021, 274, 121852.	3.2	8
21	Viscoelastic characterisation of asphalt-aggregate mixes in diametral compression. Road Materials and Pavement Design, 2013, 14, 105-119.	2.0	7
22	Viscoelastic Tension-Compression Nonlinearity in Asphalt Concrete. Journal of Materials in Civil Engineering, 2015, 27, .	1.3	7
23	In Situ Profiling of Soil Stiffness Parameters Using High-Resolution Fiber-Optic Distributed Sensing. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, .	1.5	7
24	Efficient reevaluation of surface displacements in a layered elastic half-space. International Journal of Pavement Engineering, 2020, 21, 408-415.	2.2	7
25	Strain Measurements in Asphalt Concrete Specimens towards the Development of a Fracture Model. International Journal of Pavement Engineering, 2001, 2, 243-258.	2.2	6
26	Analytic pavement modelling with a fragmented layer. International Journal of Pavement Engineering, 2022, 23, 1108-1120.	2.2	6
27	Analysis of a moving measurement platform based on line profile sensors for project-level pavement evaluation. Road Materials and Pavement Design, 2021, 22, 2069-2085.	2.0	6
28	Backcalculation with an Implanted Inertial Sensor. Transportation Research Record, 2015, 2525, 3-12.	1.0	5
29	Analyzing track responses to train braking. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 1984-1993.	1.3	5
30	Load-Independent Characterization of Plate Foundation Support Using High-Resolution Distributed Fiber-Optic Sensing. Sensors, 2019, 19, 3518.	2.1	5
31	Development of an Optical Displacement Transducer for Routine Testing of Asphalt Concrete. Journal of Materials in Civil Engineering, 2016, 28, 04016066.	1.3	4
32	Modelling asphalt concrete viscoelasticity with damage and healing. International Journal of Pavement Engineering, 2017, 18, 811-823.	2.2	4
33	Brillouin Optical Correlation Domain Analysis in Composite Material Beams. Sensors, 2017, 17, 2266.	2.1	4
34	Analytical solution for a viscoelastic plate on a Pasternak foundation. Road Materials and Pavement Design, 2020, 21, 800-820.	2.0	4
35	Backcalculation of Anisotropic Pavement Properties Using Time History of Embedded Gauge Readings. , 2009, , .		3
36	A Priori Determination of Track Modulus Based on Elastic Solutions. KSCE Journal of Civil Engineering, 2020, 24, 2939-2948.	0.9	3

#	Article	IF	Citations
37	On the thermal sensitivity of unbound granular pavement layers. International Journal of Pavement Research and Technology, 2020, 13, 32-39.	1.3	2
38	Inference of Pavement Properties with Roadside Accelerometers. Lecture Notes in Civil Engineering, 2020, , 719-728.	0.3	2
39	Mechanistic modelling of grid-reinforced milled-and-overlaid asphalt pavements. International Journal of Pavement Engineering, 2023, 24, .	2.2	2
40	Determination of Bulk Volume of Asphalt Specimens with Image-based Modeling. International Journal of Transportation Science and Technology, 2013, 2, 1-13.	2.0	1
41	Viscoelastic Characterization of Asphalt Concrete in Diametral Tension-Compression. Journal of Materials in Civil Engineering, 2016, 28, 04015073.	1.3	1
42	Soil Support Characterization in Slab-on-Grade Constructions with Fiber-Optic Distributed Strain Sensing. , 2020, , .		1
43	Viscoelasticâ€“Viscoplastic Characterization of Unbound Granular Material. Advances in Civil Engineering Materials, 2014, 3, 21-42.	0.2	1
44	High-resolution Brillouin analysis of composite materials beams. Proceedings of SPIE, 2015, , .	0.8	0
45	Inverse Analysis of Pavement Layer Moduli Based on Data Collected by Buried Accelerometers and Geophones. Lecture Notes in Civil Engineering, 2020, , 592-601.	0.3	0