

# Eyal Levenberg

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

560  
citations

759055

12  
h-index

713332

21  
g-index

47  
all docs

47  
docs citations

47  
times ranked

510  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanistic modelling of grid-reinforced milled-and-overlaid asphalt pavements. International Journal of Pavement Engineering, 2023, 24, .	2.2	2
2	Analytic pavement modelling with a fragmented layer. International Journal of Pavement Engineering, 2022, 23, 1108-1120.	2.2	6
3	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
4	Numerical modeling of a ballastless track mockup based on asphalt. Construction and Building Materials, 2021, 274, 121852.	3.2	8
5	Live Road Condition Assessment with Internal Vehicle Sensors. Transportation Research Record, 2021, 2675, 1442-1452.	1.0	11
6	Analytical solution for a viscoelastic plate on a Pasternak foundation. Road Materials and Pavement Design, 2020, 21, 800-820.	2.0	4
7	Efficient reevaluation of surface displacements in a layered elastic half-space. International Journal of Pavement Engineering, 2020, 21, 408-415.	2.2	7
8	On the thermal sensitivity of unbound granular pavement layers. International Journal of Pavement Research and Technology, 2020, 13, 32-39.	1.3	2
9	Experimental investigation of a ballastless asphalt track mockup under vertical loads. Construction and Building Materials, 2020, 261, 119711.	3.2	8
10	A Priori Determination of Track Modulus Based on Elastic Solutions. KSCE Journal of Civil Engineering, 2020, 24, 2939-2948.	0.9	3
11	Soil Support Characterization in Slab-on-Grade Constructions with Fiber-Optic Distributed Strain Sensing. , 2020, , .		1
12	Inference of Pavement Properties with Roadside Accelerometers. Lecture Notes in Civil Engineering, 2020, , 719-728.	0.3	2
13	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
14	Load-Independent Characterization of Plate Foundation Support Using High-Resolution Distributed Fiber-Optic Sensing. Sensors, 2019, 19, 3518.	2.1	5
15	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
16	Dynamic backcalculation with different load-time histories. Road Materials and Pavement Design, 2018, 19, 1314-1333.	2.0	13
17	Comparing Traffic Speed Deflectometer and Falling Weight Deflectometer Data. Transportation Research Record, 2018, 2672, 22-31.	1.0	14
18	Modelling asphalt concrete viscoelasticity with damage and healing. International Journal of Pavement Engineering, 2017, 18, 811-823.	2.2	4

#	ARTICLE	IF	CITATIONS
19	Resilience of Networked Infrastructure with Evolving Component Conditions: Pavement Network Application. <i>Journal of Computing in Civil Engineering</i> , 2017, 31, .	2.5	21
20	Brillouin Optical Correlation Domain Analysis in Composite Material Beams. <i>Sensors</i> , 2017, 17, 2266.	2.1	4
21	In Situ Profiling of Soil Stiffness Parameters Using High-Resolution Fiber-Optic Distributed Sensing. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2016, 142, .	1.5	7
22	Development of an Optical Displacement Transducer for Routine Testing of Asphalt Concrete. <i>Journal of Materials in Civil Engineering</i> , 2016, 28, 04016066.	1.3	4
23	Viscoelastic Characterization of Asphalt Concrete in Diametral Tension-Compression. <i>Journal of Materials in Civil Engineering</i> , 2016, 28, 04015073.	1.3	1
24	Viscoelastic Pavement Modeling With a Spreadsheet. , 2016, , .		13
25	Backcalculation with an Implanted Inertial Sensor. <i>Transportation Research Record</i> , 2015, 2525, 3-12.	1.0	5
26	High-resolution Brillouin analysis of composite materials beams. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
27	Viscoelastic Tension-Compression Nonlinearity in Asphalt Concrete. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, .	1.3	7
28	On-specimen strain measurement with fiber optic distributed sensing. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 60, 104-113.	2.5	41
29	Estimating the coefficient of at-rest earth pressure in granular pavement layers. <i>Transportation Geotechnics</i> , 2014, 1, 21-30.	2.0	10
30	Evaluating and optimizing resilience of airport pavement networks. <i>Computers and Operations Research</i> , 2014, 43, 335-348.	2.4	75
31	Estimating vehicle speed with embedded inertial sensors. <i>Transportation Research Part C: Emerging Technologies</i> , 2014, 46, 300-308.	3.9	26
32	Viscoelastic and Viscoplastic Characterization of Unbound Granular Material. <i>Advances in Civil Engineering Materials</i> , 2014, 3, 21-42.	0.2	1
33	Inverse analysis of viscoelastic pavement properties using data from embedded instrumentation. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013, 37, 1016-1033.	1.7	20
34	Analysis of pavement response to subsurface deformations. <i>Computers and Geotechnics</i> , 2013, 50, 79-88.	2.3	9
35	Viscoelastic characterisation of asphalt-aggregate mixes in diametral compression. <i>Road Materials and Pavement Design</i> , 2013, 14, 105-119.	2.0	7
36	Viscoelastic Genetic Algorithm for Inverse Analysis of Asphalt Layer Properties from Falling Weight Deflections. <i>Transportation Research Record</i> , 2013, 2369, 38-46.	1.0	20

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37	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
38	Inferring Pavement Properties using an Embedded Accelerometer. International Journal of Transportation Science and Technology, 2012, 1, 229-246.	2.0	26
39	Exposing the nonlinear viscoelastic behavior of asphalt-aggregate mixes. Mechanics of Time-Dependent Materials, 2012, 16, 129-143.	2.3	12
40	Smoothing Asphalt Concrete Complex Modulus Test Data. Journal of Materials in Civil Engineering, 2011, 23, 606-611.	1.3	21
41	Backcalculation of Anisotropic Pavement Properties Using Time History of Embedded Gauge Readings. , 2009, , .		3
42	Viscoplastic response and modeling of asphalt-aggregate mixes. Materials and Structures/Materiaux Et Constructions, 2009, 42, 1139-1151.	1.3	26
43	Advanced Testing and Characterization of Asphalt Concrete Materials in Tension. International Journal of Geomechanics, 2007, 7, 158-165.	1.3	36
44	Triaxial Small-Strain Viscoelastic-Viscoplastic Modeling of Asphalt Aggregate Mixes. Mechanics of Time-Dependent Materials, 2004, 8, 365-384.	2.3	37
45	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