

# Audrius Vaitkus

## List of Publications by Year in descending order

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Version: 2024-02-01

82  
papers

1,000  
citations

430874

18  
h-index

526287

27  
g-index

82  
all docs

82  
docs citations

82  
times ranked

739  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis and evaluation of possibilities for the use of warm mix asphalt in Lithuania. <i>Baltic Journal of Road and Bridge Engineering</i> , 2009, 4, 80-86.	0.8	119
2	Influence of warm mix asphalt technology on asphalt physical and mechanical properties. <i>Construction and Building Materials</i> , 2016, 112, 800-806.	7.2	60
3	Asphalt wearing course optimization for road traffic noise reduction. <i>Construction and Building Materials</i> , 2017, 152, 345-356.	7.2	56
4	Advanced shear tester for evaluation of asphalt concrete under constant normal stiffness conditions. <i>Road Materials and Pavement Design</i> , 2015, 16, 187-210.	4.0	40
5	An algorithm for the use of MSWI bottom ash as a building material in road pavement structural layers. <i>Construction and Building Materials</i> , 2019, 212, 456-466.	7.2	36
6	The road of experimental pavement structures: experience of five years operation. <i>Baltic Journal of Road and Bridge Engineering</i> , 2012, 7, 220-227.	0.8	35
7	Research of Asphalt Pavement Structures on Lithuanian Roads (I). <i>Baltic Journal of Road and Bridge Engineering</i> , 2008, 3, 77-83.	0.8	34
8	Monitoring the Mechanical and Structural Behavior of the Pavement Structure Using Electronic Sensors. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2015, 30, 317-328.	9.8	32
9	Modified asphalt mixtures for heavy duty pavement wearing layers. <i>Construction and Building Materials</i> , 2017, 131, 503-511.	7.2	30
10	Effect of Aging on Chemical Composition and Rheological Properties of Neat and Modified Bitumen. <i>Materials</i> , 2019, 12, 4066.	2.9	25
11	Performance characteristics of the open-graded asphalt concrete filled with a special cement grout. <i>Baltic Journal of Road and Bridge Engineering</i> , 2015, 10, 316-324.	0.8	25
12	Asphalt Pavement Acoustic Performance Model. <i>Sustainability</i> , 2019, 11, 2938.	3.2	24
13	Traffic/Road Noise Mitigation under Modified Asphalt Pavements. <i>Transportation Research Procedia</i> , 2016, 14, 2698-2703.	1.5	23
14	Influence of bitumen chemical composition and ageing on pavement performance. <i>Baltic Journal of Road and Bridge Engineering</i> , 2015, 10, 97-104.	0.8	23
15	Research on the Dependence of Asphalt Pavement Stiffness Upon the Temperature of Pavement Layers. <i>Baltic Journal of Road and Bridge Engineering</i> , 2010, 5, 50-54.	0.8	22
16	Research and Assessment of Asphalt Layers Bonding. <i>Baltic Journal of Road and Bridge Engineering</i> , 2011, 6, 210-218.	0.8	22
17	Evaluation of Time Loading Influence on Asphalt Pavement Rutting. <i>Procedia Engineering</i> , 2013, 57, 1205-1212.	1.2	21
18	POTENTIAL OF MSWI BOTTOM ASH TO BE USED AS AGGREGATE IN ROAD BUILDING MATERIALS. <i>Baltic Journal of Road and Bridge Engineering</i> , 2018, 13, 77-86.	0.8	21

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19	Design of Frost Resistant Pavement Structure Based on Road Weather Stations (RWSs) Data. Sustainability, 2016, 8, 1328.	3.2	17
20	Traffic Calming Measures: An Evaluation of the Effect on Driving Speed. Promet - Traffic - Traffico, 2017, 29, 275-285.	0.7	15
21	Evaluation of Asphalt Mix with Dolomite Aggregates for Wearing Layer. Transportation Research Procedia, 2016, 14, 732-737.	1.5	13
22	Analysis of 4-mm DSR tests: calibration, sample preparation, and evaluation of repeatability and reproducibility. Road Materials and Pavement Design, 2021, 22, 557-571.	4.0	13
23	Elements of pavement management system: case study. Baltic Journal of Road and Bridge Engineering, 2014, 9, 1-9.	0.8	13
24	Optimal selection of soils and aggregates mixtures for a frost blanket course of road pavement structure. Baltic Journal of Road and Bridge Engineering, 2012, 7, 154-159.	0.8	12
25	Methods and criteria for evaluation of asphalt mixture resistance to low temperature cracking. Baltic Journal of Road and Bridge Engineering, 2017, 12, 135-144.	0.8	12
26	Concrete Modular Pavements – Types, Issues And Challenges. Baltic Journal of Road and Bridge Engineering, 2019, 14, 80-103.	0.8	12
27	RESEARCH OF SNOW MELTING MATERIALS PERFORMANCE EFFICIENCY FOR ROAD WINTER MAINTENANCE. Transport, 2016, 31, 322-332.	1.2	11
28	Analysis and Evaluation of Trapezoidal Speed Humps and Their Impact on the Driver. Baltic Journal of Road and Bridge Engineering, 2018, 13, 104-109.	0.8	11
29	Influence of Temperature and Moisture Content on Pavement Bearing Capacity with Improved Subgrade. Materials, 2019, 12, 3826.	2.9	10
30	Peculiarity of low noise pavement design under Lithuanian conditions. Baltic Journal of Road and Bridge Engineering, 2014, 9, 155-163.	0.8	10
31	The impact of MSWI bottom ash as aggregate on concrete mechanical performance. International Journal of Pavement Engineering, 2022, 23, 2903-2911.	4.4	9
32	Effect of Silica Fume on High-strength Concrete Performance. , 0, , .		9
33	Research and Evaluation of Methods for Determining Deformation Modulus of A Base Course of Road Pavement. Baltic Journal of Road and Bridge Engineering, 2010, 5, 110-115.	0.8	9
34	DEFINITION OF CONCRETE AND COMPOSITE PRECAST CONCRETE PAVEMENTS TEXTURE. Transport, 2019, 34, 404-414.	1.2	9
35	Asphalt Layer Density and Air Voids Content: GPR and Laboratory Testing Data Reliance. Baltic Journal of Road and Bridge Engineering, 2020, 15, 93-110.	0.8	9
36	The effect of exposed aggregate concrete gradation on the texture characteristics and durability. Construction and Building Materials, 2020, 261, 119921.	7.2	8

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37	Development of low noise and durable semi-dense asphalt mixtures. Construction and Building Materials, 2021, 293, 123413.	7.2	8
38	Regulations for use of geosynthetics for road embankments and subgrades. Baltic Journal of Road and Bridge Engineering, 2014, 9, 88-93.	0.8	8
39	Influence of asphalt visco-elastic properties on flexible pavement performance. Baltic Journal of Road and Bridge Engineering, 2016, 11, 313-323.	0.8	8
40	Effect of intelligent transport systems on traffic safety. Baltic Journal of Road and Bridge Engineering, 2016, 11, 136-143.	0.8	7
41	Comparison of the Bearing Capacity of Pavement Structures with Unbound and Cold Central-Plant Recycled Base Courses Based on FWD Data. Sustainability, 2021, 13, 6310.	3.2	6
42	PREDICTION OF LIFESPAN OF RAILWAY BALLAST AGGREGATE ACCORDING TO MECHANICAL PROPERTIES OF IT. Baltic Journal of Road and Bridge Engineering, 2017, 12, 203-209.	0.8	6
43	LABORATORY STUDY ON THE INFLUENCE OF CASTING ON PROPERTIES OF ULTRA-HIGH PERFORMANCE FIBRE REINFORCED CONCRETE (UHPC) SPECIMENS. Journal of Civil Engineering and Management, 2014, 20, 380-379.	3.5	5
44	Long-Term Performance of Pavement Structures with Cold In-Place Recycled Base Course. Baltic Journal of Road and Bridge Engineering, 2021, 16, 48-65.	0.8	5
45	Modular pavements: Developing high performance concrete. Construction and Building Materials, 2021, 292, 123362.	7.2	5
46	Design solutions for pavements structure affected by static and impact load. Baltic Journal of Road and Bridge Engineering, 2014, 9, 269-275.	0.8	5
47	Improvement of road pavement maintenance models and technologies. Baltic Journal of Road and Bridge Engineering, 2016, 11, 242-249.	0.8	5
48	Influence of Static and Impact Load on Pavement Performance. , 2014, , .		5
49	Surface Type and Age Effects on Tyre/Road Noise Levels. , 0, , .		5
50	Selection of Constituent Materials for Asphalt Mixtures of Noise-Reducing Asphalt Pavements. Baltic Journal of Road and Bridge Engineering, 2019, 14, 178-207.	0.8	5
51	Mixture Strength Class and Slab Dimensionsâ€™ Effect on The Precast Concrete Pavement Structural Performance. Baltic Journal of Road and Bridge Engineering, 2019, 14, 443-471.	0.8	5
52	Geotextile Selection Methods for the Lithuanian Road and Street Structures. Baltic Journal of Road and Bridge Engineering, 2010, 5, 246-253.	0.8	5
53	Nanobased rejuvenators for polymer-modified bitumen under long-term ageing conditions. Construction and Building Materials, 2022, 341, 127474.	7.2	5
54	Research of asphalt pavement rutting in Vilnius city streets. , 2014, , .		4

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55	Analysis of Methods and Criteria for Evaluation of Bitumen Performance at Low Temperatures. , 0, , .		4
56	Long Term Monitoring of Performance Characteristics of the Pavement Test Track. Advanced Materials Research, 0, 853, 229-234.	0.3	3
57	Soft Asphalt Pavement â€œ Solution for Low-Volume Roads in Changing Climate and Economy. Advanced Materials Research, 2014, 934, 47-52.	0.3	3
58	Soft Asphalt and Double Otta Sealâ€™Self-Healing Sustainable Techniques for Low-Volume Gravel Road Rehabilitation. Sustainability, 2018, 10, 198.	3.2	3
59	Effect of Compaction and Hydraulic Gradient on Subbase Layer Permeability. Coatings, 2019, 9, 641.	2.6	3
60	Surface Texture And Layer Permeability Of Aquaplaning Resistant Asphalt Pavements. IOP Conference Series: Materials Science and Engineering, 2021, 1202, 012026.	0.6	3
61	Field Studies Of MSWI Bottom Ash As Aggregate For Unbound Base Course Mixtures. IOP Conference Series: Materials Science and Engineering, 2021, 1202, 012016.	0.6	3
62	Performance of Pavements Affected by Static and Impact Load. Applied Mechanics and Materials, 2014, 614, 627-630.	0.2	2
63	Insights and Findings Following 11 Years of Test Road Exploitation. Coatings, 2020, 10, 1161.	2.6	2
64	Concrete Modular Pavement Structures with Optimized Thickness Based on Characteristics of High Performance Concrete Mixtures with Fibers and Silica Fume. Materials, 2021, 14, 3423.	2.9	2
65	Review of Lithuanian Experience in Asphalt Pavements Cold Recycling. , 0, , .		2
66	Evaluation of Horizontal Curve Radius Effect on Driving Speed in Two Lane Rural Road. Pilot Study. Baltic Journal of Road and Bridge Engineering, 2020, 15, 252-270.	0.8	2
67	Classification of Surface Temperature for the Flexible Pavement Design. , 0, , .		2
68	Geogrid Reinforced Subgrade Influence to Ensure Paved Road Durability. , 0, , .		2
69	Long Term Behaviour of An Asphalt Pavement Structure Constructed on a Geogrid-Reinforced Subgrade Over Soft Soils. Baltic Journal of Road and Bridge Engineering, 2019, 14, 384-404.	0.8	2
70	Comparison of Pavement Performance Models for Urban Road Management System. Baltic Journal of Road and Bridge Engineering, 2020, 15, 111-129.	0.8	2
71	Roller Compacted Concrete â€œ Best Practice Of Lithuania. IOP Conference Series: Materials Science and Engineering, 2021, 1202, 012010.	0.6	2
72	Performance of Soft Asphalt and Double Otta Seal within First Three Years. Advances in Materials Science and Engineering, 2016, 2016, 1-12.	1.8	1

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73	Application of Mixed Linear Models in the Analysis of Road Surface Features. Lietuvos Statistikos Darbai, 2015, 54, 101-109.	0.2	1
74	TRANSPORTO EISMO ZONŲ DANGOS KONSTRUKCIJOS NESURIĄTOJO PAGRINDO SLUOKSNIO PRALAIMAMŲ, VANDENIUI LEMIANČIŲ VEIKSNIŲ VERTINIMAS / ASSESSMENT OF FACTORS DETERMINING WATER PERMEABILITY OF BASE LAYERS IN PAVEMENT STRUCTURE ON TRAFFIC ZONES. Science: Future of Lithuania, 2018, 10, 1-6.	0.1	1
75	AVERAGE SPEED ENFORCEMENT SYSTEM EFFICIENCY ASSESSMENT MODEL. Baltic Journal of Road and Bridge Engineering, 2017, 12, 64-69.	0.8	1
76	The Influence of Crumb Rubber on Modified Bitumen Properties. , 0, , .	0	1
77	Viastructura – A New Way Of Pavement Structure Design. IOP Conference Series: Materials Science and Engineering, 2021, 1202, 012018.	0.6	1
78	Concrete modular pavement type selection based on application area. , 0, , .	0	0
79	EFFECT OF DIELECTRIC CONSTANT ON ASPHALT LAYERS THICKNESS BASED ON GROUND PENETRATING RADAR DATA ANALYSIS. , 0, , .	0	0
80	EFFECT OF REJUVENATORS ON PENETRATION AND SOFTENING POINT OF AGED POLYMER-MODIFIED ROAD BITUMEN. Science: Future of Lithuania, 2021, 13, 1-6.	0.1	0
81	Dependency of Pavement Roughness Level on the Type of Road Works. Baltic Journal of Road and Bridge Engineering, 2022, 17, 74-97.	0.8	0
82	Asphalt Pavement Compaction Control: Relevance of Laboratory and Non-Destructive Testing Methods of Density. Baltic Journal of Road and Bridge Engineering, 2022, 17, 143-166.	0.8	0