

Martins Zaumanis

List of Publications by Year in descending order

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48
papers

2,647
citations

411340

20
h-index

274796

44
g-index

49
all docs

49
docs citations

49
times ranked

1263
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of six rejuvenators on the performance properties of Reclaimed Asphalt Pavement (RAP) binder and 100% recycled asphalt mixtures. <i>Construction and Building Materials</i> , 2014, 71, 538-550.	3.2	343
2	100% recycled hot mix asphalt: A review and analysis. <i>Resources, Conservation and Recycling</i> , 2014, 92, 230-245.	5.3	275
3	Review of very high-content reclaimed asphalt use in plant-produced pavements: state of the art. <i>International Journal of Pavement Engineering</i> , 2015, 16, 39-55.	2.2	265
4	Rheological, microscopic, and chemical characterization of the rejuvenating effect on asphalt binders. <i>Fuel</i> , 2014, 135, 162-171.	3.4	250
5	Evaluation of Rejuvenator's Effectiveness with Conventional Mix Testing for 100% Reclaimed Asphalt Pavement Mixtures. <i>Transportation Research Record</i> , 2013, 2370, 17-25.	1.0	191
6	Evaluation of different recycling agents for restoring aged asphalt binder and performance of 100% recycled asphalt. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015, 48, 2475-2488.	1.3	159
7	Determining optimum rejuvenator dose for asphalt recycling based on Superpave performance grade specifications. <i>Construction and Building Materials</i> , 2014, 69, 159-166.	3.2	145
8	Effect of ageing on the mechanical and chemical properties of binder from RAP treated with bio-based rejuvenators. <i>Composites Part B: Engineering</i> , 2018, 141, 174-181.	5.9	139
9	100% Hot Mix Asphalt Recycling: Challenges and Benefits. <i>Transportation Research Procedia</i> , 2016, 14, 3493-3502.	0.8	89
10	Aging effect on rheology and cracking behaviour of reclaimed binder with bio-based rejuvenators. <i>Journal of Cleaner Production</i> , 2018, 189, 88-97.	4.6	81
11	Hot Mix Asphalt with High RAP Content. <i>Procedia Engineering</i> , 2015, 114, 676-684.	1.2	80
12	Performance-based design of asphalt mixtures and review of key parameters. <i>Materials and Design</i> , 2018, 141, 185-201.	3.3	73
13	Determining optimum rejuvenator addition location in asphalt production plant. <i>Construction and Building Materials</i> , 2019, 198, 368-378.	3.2	43
14	Use of system dynamics for proper conservation and recycling of aggregates for sustainable road construction. <i>Resources, Conservation and Recycling</i> , 2014, 86, 61-73.	5.3	39
15	How to reduce reclaimed asphalt variability: A full-scale study. <i>Construction and Building Materials</i> , 2018, 188, 546-554.	3.2	38
16	Performance-based design of 100% recycled hot-mix asphalt and validation using traffic load simulator. <i>Journal of Cleaner Production</i> , 2019, 237, 117679.	4.6	37
17	Effect of rejuvenator addition location in plant on mechanical and chemical properties of RAP binder. <i>International Journal of Pavement Engineering</i> , 2020, 21, 507-515.	2.2	37
18	Relationship between colloidal index and chemo-rheological properties of asphalt binders modified by various recycling agents. <i>Construction and Building Materials</i> , 2022, 318, 126161.	3.2	27

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19	Rheological and chemical evaluation of aging in 100% reclaimed asphalt mixtures containing rejuvenators. <i>Construction and Building Materials</i> , 2022, 318, 126026.	3.2	24
20	Warm Mix Asphalt. <i>Green Energy and Technology</i> , 2014, , 309-334.	0.4	23
21	Performance properties of high modulus asphalt concrete containing high reclaimed asphalt content and polymer modified binder. <i>International Journal of Pavement Engineering</i> , 2022, 23, 2255-2264.	2.2	23
22	Laboratory Comparison of Rejuvenated 50% Reclaimed Asphalt Pavement Hot-Mix Asphalt with Conventional 20% RAP Mix. <i>Transportation Research Record</i> , 2017, 2633, 69-79.	1.0	20
23	Impact of laboratory mixing procedure on the properties of reclaimed asphalt pavement mixtures. <i>Construction and Building Materials</i> , 2020, 264, 120709.	3.2	19
24	Comparison of two low-temperature cracking tests for use in performance-based asphalt mixture design. <i>International Journal of Pavement Engineering</i> , 2020, 21, 1461-1469.	2.2	18
25	100% recycled high-modulus asphalt concrete mixture design and validation using vehicle simulator. <i>Construction and Building Materials</i> , 2020, 260, 119891.	3.2	18
26	Laboratory evaluation of organic and chemical warm mix asphalt technologies for SMA asphalt. <i>Baltic Journal of Road and Bridge Engineering</i> , 2012, 7, 191-197.	0.4	18
27	Development of Calculation Tool for Assessing the Energy Demand of Warm Mix Asphalt. <i>Procedia, Social and Behavioral Sciences</i> , 2012, 48, 163-172.	0.5	17
28	Performance Evaluation of Warm Asphalt Mixtures Containing Chemical Additive and Effect of Incorporating High Reclaimed Asphalt Content. <i>Materials</i> , 2021, 14, 3793.	1.3	17
29	Impact of milling machine parameters on the properties of reclaimed asphalt pavement. <i>Construction and Building Materials</i> , 2021, 307, 125114.	3.2	16
30	Surface nanomechanical properties of bio-modified reclaimed asphalt binder. <i>Road Materials and Pavement Design</i> , 2021, 22, 1407-1423.	2.0	15
31	How not to design 100% recycled asphalt mixture using performance-based tests. <i>Road Materials and Pavement Design</i> , 2020, 21, 1634-1646.	2.0	14
32	Assessing the Potential and Possibilities for the Use of Warm Mix Asphalt in Latvia. <i>Construction Science</i> , 2012, 13, .	0.1	13
33	Asphalt Binder Laboratory Short-Term Aging: Effective Parameters and New Protocol for Testing. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, .	1.3	12
34	Finite Element Modeling of Rejuvenator Diffusion in RAP Binder Film – Simulation of Plant Mixing Process. , 2013, , 407-419.		12
35	Environmental impact of rejuvenators in asphalt mixtures containing high reclaimed asphalt content. <i>Road Materials and Pavement Design</i> , 2022, 23, 1400-1414.	2.0	11
36	Performance of asphalt concrete with dolomite sand waste and bof steel slag aggregate. <i>Baltic Journal of Road and Bridge Engineering</i> , 2013, 8, 91-97.	0.4	10

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37	Asphalt Recycling Technologies: A Review on Limitations and Benefits. IOP Conference Series: Materials Science and Engineering, 2019, 660, 012046.	0.3	8
38	Three indexes to characterise crushing and screening of reclaimed asphalt pavement. International Journal of Pavement Engineering, 2022, 23, 4977-4990.	2.2	6
39	Long term monitoring of full scale pavement test section with eight different asphalt wearing courses. Materials and Structures/Materiaux Et Constructions, 2016, 49, 1817-1828.	1.3	5
40	Performance Based Evaluation on the Use of Different Waste Materials in Asphalt. Procedia, Social and Behavioral Sciences, 2012, 48, 154-162.	0.5	4
41	Performance evaluation of high modulus asphalt concrete mixes. IOP Conference Series: Materials Science and Engineering, 2016, 123, 012055.	0.3	3
42	Performance Characterization of Bituminous Mixtures With Dolomite Sand Waste and BOF Steel Slag. Journal of Testing and Evaluation, 2012, 40, 20120187.	0.4	3
43	Towards production of 100% recycled asphalt. , 0, , .		2
44	Adaptation to flooding and mitigating impacts of road construction â a framework to identify practical steps to counter climate change. Baltic Journal of Road and Bridge Engineering, 2015, 10, 346-354.	0.4	2
45	Performance Characterization of Bituminous Mixtures with Dolomite Sand Waste and BOF Steel Slag Aggregates. Construction Science, 2012, 13, .	0.1	1
46	Use of Unconventional Aggregates in Hot Mix Asphalt Concrete. Construction Science, 2013, 14, .	0.1	1
47	Microstructural Investigation of Reclaimed Asphalt Binder with Bio-Based Rejuvenators. RILEM Bookseries, 2019, , 39-43.	0.2	1
48	Performance evaluation of HMAC asphalt concrete mixes. , 2015, , 327-332.		0