

Jan Valentin

List of Publications by Year in descending order

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papers

474
citations

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63
all docs

63
docs citations

63
times ranked

422
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on moisture damages of hot and warm mix asphalt and related investigations. Journal of Cleaner Production, 2015, 99, 39-58.	9.3	178
2	Self-healing behavior of asphalt system based on molecular dynamics simulation. Construction and Building Materials, 2020, 254, 119225.	7.2	61
3	Quantification of moisture sensitivity of warm mix asphalt using image analysis technique. Journal of Cleaner Production, 2014, 68, 200-208.	9.3	57
4	Determination of optimal mix from the standpoint of short term aging based on asphalt mixture fracture properties using response surface method. Construction and Building Materials, 2018, 179, 35-48.	7.2	29
5	Stiffness Characterization of Cold Recycled Mixtures. Transportation Research Procedia, 2016, 14, 758-767.	1.5	18
6	A comprehensive study on adhesion between modified bituminous binders and mineral aggregates. Construction and Building Materials, 2021, 305, 124686.	7.2	14
7	Impact of Asphalt Ageing on the Activity of Adhesion Promoters and the Moisture Susceptibility. Transportation Research Procedia, 2016, 14, 768-777.	1.5	13
8	Microscopic analysis and mechanical properties of Recycled Paper Mill Sludge modified asphalt mixture using granite and limestone aggregates. Construction and Building Materials, 2020, 243, 118172.	7.2	13
9	Stiffness Data of High-Modulus Asphalt Concretes for Road Pavements: Predictive Modeling by Machine-Learning. Coatings, 2022, 12, 54.	2.6	13
10	Experimental Assessment of Fly-Ash Stabilized and Recycled Mixes. Journal of Testing and Evaluation, 2015, 43, 264-278.	0.7	10
11	Bituminous Mixtures Experimental Data Modeling Using a Hyperparameters-Optimized Machine Learning Approach. Applied Sciences (Switzerland), 2021, 11, 11710.	2.5	9
12	Impact of lowered laboratory compaction rate on strength properties of asphalt mixtures. Innovative Infrastructure Solutions, 2018, 3, 1.	2.2	5
13	Influence of Recycled Concrete Composition on its Elastic Stiffness. Key Engineering Materials, 0, 677, 288-291.	0.4	4
14	Alternative modifications of bituminous binders for mastic asphalt mixtures. IOP Conference Series: Materials Science and Engineering, 2017, 236, 012028.	0.6	4
15	Analyzing the stripping potential of warm mix asphalt using imaging technique. IOP Conference Series: Materials Science and Engineering, 2017, 236, 012013.	0.6	4
16	Characterization of quarry dusts and industrial by-products as potential substitutes for traditional fillers and their impact on water susceptibility of asphalt concrete. Construction and Building Materials, 2021, 301, 124294.	7.2	4
17	Mix designs for cold recycled pavement materials considering local weather and traffic conditions. , 0, , .		4
18	Properties of Asphalt Mixtures with Multiple Recycled Asphalt Material. , 2016, , .		3

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19	Effect of Additive Bitumious Binders on a New Generation of High Modulus Asphalt Mixtures. , 2016, , .		3
20	Influence of selected test parameters on measured values during the MSCR test. IOP Conference Series: Materials Science and Engineering, 2017, 236, 012016.	0.6	3
21	What information can be provided by the asphalt crack propagation test done on semicylindric specimens?. IOP Conference Series: Materials Science and Engineering, 0, 960, 042032.	0.6	3
22	Potentials for Using Pulverized (Micro-Milled) Mineral Waste Materials as Stabilizing Agents or Fillers in Cold Recycled Mixes. , 2016, , .		2
23	Influence of Laboratory Long-Term Aging on Selected Fracture Parameters of Asphalt Mixtures. Materials, 2021, 14, 811.	2.9	2
24	Influence of Rejuvenator on Selected Characteristics of an Asphalt Concrete Containing 50% Reclaimed Asphalt. Lecture Notes in Civil Engineering, 2022, , 705-713.	0.4	2
25	Numerical Characterization of High Modulus Asphalt Concrete Containing RAP: A Comparison among Optimized Shallow Neural Models. IOP Conference Series: Materials Science and Engineering, 2020, 960, 022083.	0.6	2
26	Impact of the Compaction Method Applied on Selected Characteristics of Cold Recycled Asphalt Mixes. , 2014, , .		1
27	Behavior of Cold Recycled Mixes in the Range of Low Temperatures " Experimental Study. Applied Mechanics and Materials, 2015, 802, 303-308.	0.2	1
28	Limiting Factors for the Applicability of Specific Types of Energetic By-Products in Roadbed Structures. , 2016, , .		1
29	Influence of Micro-Milled Secondary Materials Used as Binders in Low Level Stabilized Cold Recycled Asphalt Mixtures. Key Engineering Materials, 2017, 731, 29-36.	0.4	1
30	Comparison of influence of ageing on low-temperature characteristics of asphalt mixtures. IOP Conference Series: Materials Science and Engineering, 2017, 236, 012018.	0.6	1
31	Effect of Various Input Parameters on Compressed Earth Block™s Strength. Key Engineering Materials, 2020, 838, 81-87.	0.4	1
32	Development and verification of a suitable methodology for stability assessment of bitumen adhesion promoters. , 0, , .		1
33	Evaluation of an Asphalt Mixture Containing a High Content of Reclaimed Asphalt and Different Crumb Rubber Modified Binders. Slovak Journal of Civil Engineering, 2021, 29, 22-30.	0.5	1
34	Road Pavement Asphalt Concretes for Thin Wearing Layers: A Machine Learning Approach towards Stiffness Modulus and Volumetric Properties Prediction. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	1
35	Pavement Structure for Low-capacity Roads with Different Recycled Materials Utilization. , 2009, , .		0
36	Experimental Results on Warm Asphalt Mixes in Czech Republic. IABSE Symposium Report, 2009, , .	0.0	0

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37	Experimental Assessment of Fly-ash Stabilized Mixes Exposed to Freezing and Water Immersion. , 2014, , .		0
38	The Effects of Bituminous Binders on Cold Recycled Mixes Prepared by the Foamed Bitumen Technology. Applied Mechanics and Materials, 2015, 802, 315-320.	0.2	0
39	Impact of Ageing and the Stability of Adhesion Additive on Moisture Susceptibility and Adhesion. Applied Mechanics and Materials, 2015, 802, 309-314.	0.2	0
40	Comparison of Compressive Strength and Young's Modulus of Cement Samples with Different Types of Aggregate. Key Engineering Materials, 0, 677, 207-210.	0.4	0
41	Alternative Additives for Improving the Functional Characteristics and Performance-Based Behavior of Asphalt Mixes in the Fine-Grained Active Filler Form. Key Engineering Materials, 2017, 731, 1-9.	0.4	0
42	Effect of new type of synthetic waxes on reduced production and compaction temperature of asphalt mixture with reclaimed asphalt. IOP Conference Series: Materials Science and Engineering, 2017, 236, 012019.	0.6	0
43	Stiffness and complex modulus of cold recycled mixes with different binder combinations. , 2015, , 825-832.		0
44	Characteristics of bituminous binders utilizing pulverized rubber and its use for bitumen modification. , 2016, , 1587-1594.		0
45	Effect of rejuvenation on cold recycled and multiple cold recycled asphalt mixtures. , 2016, , 1595-1601.		0
46	Combined effect of new type of cellulose fibers and reclaimed asphalt on performance characteristics of stone mastic asphalt mix. , 2016, , 1602-1609.		0
47	Potentials for Using Mechanically Activated Concrete Powder in Stabilized Granular Pavement Mixtures. Sustainable Civil Infrastructures, 2018, , 203-220.	0.2	0
48	Effect of a Poly-olefin Based Additive on Bitumen and Asphalt Mix Performance. Advances in Civil Engineering Materials, 2018, 7, 20170087.	0.6	0
49	Impact of new developed adhesion promoters for bituminous binder doping purposes on performance-based behavior of asphalt mixes. , 2019, , 727-732.		0
50	Alternative Micro-Milled Binders in Cold Recycling Technologies. Slovak Journal of Civil Engineering, 2019, 27, 16-20.	0.5	0
51	Effects of Wet Separated and High Speed Milling Fly Ash Added in High Volume to Cementitious Materials. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	0
52	Evaluation of Alternative Fillers Usable for Asphalt Mixtures. Lecture Notes in Civil Engineering, 2022, , 627-635.	0.4	0
53	DEVELOPMENT OF PREFABRICATED COMPONENTS WITH MINIMIZED CEMENT CONTENT THROUGH THE USE OF FINE-GRAINED SECONDARY MATERIALS. WIT Transactions on the Built Environment, 2020, , .	0.0	0