Ronald Blab

List of Publications by Year
in descending order

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20 papers	573 citations	1040056 9 h-index	794594 19 g-index
20 all docs	20 docs citations	20 times ranked	572 citing authors

#	Article	IF	Citations
1	The bitumen microstructure: a fluorescent approach. Materials and Structures/Materiaux Et Constructions, 2016, 49, 167-180.	3.1	92
2	Identification of Microstructural Components of Bitumen by Means of Atomic Force Microscopy (AFM). Proceedings in Applied Mathematics and Mechanics, 2004, 4, 400-401.	0.2	90
3	Is Low-Temperature Creep of Asphalt Mastic Independent of Filler Shape and Mineralogy?â€"Arguments from Multiscale Analysis. Journal of Materials in Civil Engineering, 2005, 17, 485-491.	2.9	78
4	Influence of asphaltene content on mechanical bitumen behavior: experimental investigation and micromechanical modeling. Materials and Structures/Materiaux Et Constructions, 2015, 48, 3099-3112.	3.1	76
5	Tracking Aging of Bitumen and Its Saturate, Aromatic, Resin, and Asphaltene Fractions Using High-Field Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Energy & Fuels, 2017, 31, 4771-4779.	5.1	66
6	Towards a microstructural model of bitumen ageing behaviour. International Journal of Pavement Engineering, 2015, 16, 939-949.	4.4	48
7	Towards an optimised lab procedure for long-term oxidative ageing of asphalt mix specimen. International Journal of Pavement Engineering, 2016, 17, 471-477.	4.4	45
8	Design of bituminous pavements â€“ a performance-related approach. Road Materials and Pavement Design, 2019, 20, 244-258.	4.0	14
9	Impact of distillation temperature on the solvent residue and viscoelastic properties of asphalt binders. Road Materials and Pavement Design, 2018, 19, 1275-1287.	4.0	12
10	Enhancing triaxial cyclic compression testing of hot mix asphalt by introducing cyclic confining pressure. Road Materials and Pavement Design, 2014, 15, 16-34.	4.0	9
11	Influence of compaction direction on performance characteristics of roller-compacted HMA specimens. International Journal of Pavement Engineering, 2016, 17, 39-49.	4.4	9
12	Aggregation of condition survey data in pavement management: shortcomings of a homogeneous sections approach and how to avoid them. Structure and Infrastructure Engineering, 2021, 17, 49-61.	3.7	7
13	Characterisation of the climatic temperature variations in the design of rigid pavements. International Journal of Pavement Engineering, 2022, 23, 3222-3235.	4.4	6
14	Impact of Loading Rate and Temperature on Tensile Strength of Asphalt Mixtures at Low Temperatures. RILEM Bookseries, 2016, , 69-74.	0.4	6
15	Performance-Based Asphalt Mix and Pavement Design. Romanian Journal of Transport Infrastructure, 2013, 2, 21-38.	0.3	5
16	Introducing a nitrogen conditioning to separate oxidative from non-oxidative ageing effects of hot mix asphalt. Road Materials and Pavement Design, 2020, 21, 1293-1311.	4.0	5
17	Benefit maximisation based on aggregated condition indices: drawbacks for selection of pavement treatments. International Journal of Pavement Engineering, 2020, , 1-18.	4.4	3
18	Micromechanical Description of Bitumen Aging Behavior. RILEM Bookseries, 2016, , 411-421.	0.4	1

#	Article	IF	Citations
19	Prediction of Hot Mix Asphalt Stiffness Behavior by Means of Multiscale Modeling. RILEM Bookseries, 2016, , 33-38.	0.4	1
20	Impact of connection between specimen and load plate on viscoelastic material response of hot mix asphalt. Materials and Structures/Materiaux Et Constructions, 2013, 46, 1155-1166.	3.1	0