Frohmut Wellner

List of Publications by Year
in descending order

14 papers	441 citations	1040056 9 h-index	1058476 14 g-index
14 all docs	14 docs citations	14 times ranked	376 citing authors

#	Article	IF	Citations
1	Investigating the performance-related properties of crumb rubber modified bitumen using rheology-based tests. International Journal of Pavement Engineering, 2022, 23, 877-887.	4.4	16
2	Experimental Methods for the Mechanical Characterization of Asphalt Concrete at Different Length Scales: Bitumen, Mastic, Mortar and Asphalt Mixture. Lecture Notes in Applied and Computational Mechanics, 2021, , 121-161.	2.2	1
3	Towards a unified performance based characterisation of bitumen and mastic using the DSR. Road Materials and Pavement Design, 2021, 22, S365-S382.	4.0	4
4	Understanding the influence of temperature and frequency on the fatigue resistance of bitumen. Construction and Building Materials, 2021, 296, 123754.	7.2	4
5	Modeling of Surface Drainage during the Service Life of Asphalt Pavements Showing Long-Term Rutting: A Modular Hydromechanical Approach. Advances in Materials Science and Engineering, 2020, 2020, 1-15.	1.8	16
6	Feasibility study of waste ceramic powder as a filler alternative for asphalt mastics using the DSR. Road Materials and Pavement Design, 2020, , 1-13.	4.0	15
7	Influence of Source and Ageing on the Rheological Properties and Fatigue and Rutting Resistance of Bitumen Using a DSR. Lecture Notes in Civil Engineering, 2020, , 481-491.	0.4	4
8	Influence of filler properties on the rheological, cryogenic, fatigue and rutting performance of mastics. Construction and Building Materials, 2019, 227, 116974.	7.2	27
9	Mechanical Testing and Modeling of Interlayer Bonding in HMA Pavements. Transportation Research Record, 2019, 2673, 879-890.	1.9	9
10	Rheological characterisation and modelling of bitumen containing reclaimed components. International Journal of Pavement Engineering, 2019, 20, 638-648.	4.4	15
11	Numerical modelling of tyreâ€“pavement-interaction phenomena: constitutive description of asphalt behaviour based on triaxial material tests. Road Materials and Pavement Design, 2015, 16, 133-153.	4.0	10
12	Permanent Deformation Behaviour of Granular Materials. Road Materials and Pavement Design, 2005, 6, 31-51.	4.0	94
13	Design of Granular Pavement Layers Considering Climatic Conditions. Transportation Research Record, 2003, 1837, 61-70.	1.9	23
14	Permanent Deformation Behavior of Granular Materials and the Shakedown Concept. Transportation Research Record, 2001, 1757, 75-81.	1.9	203