Daniel Castillo

List of Publications by Year
in descending order

14 papers	231 citations	1040056 9 h-index	1199594 12 g-index
14 all docs	14 docs citations	14 times ranked	199 citing authors

#	Article	IF	Citations
1	Studying the effect of microstructural properties on the mechanical degradation of asphalt mixtures. Construction and Building Materials, 2015, 93, 70-83.	7.2	46
2	Influence of aggregate morphology on the mechanical performance of asphalt mixtures. Road Materials and Pavement Design, 2018, 19, 972-991.	4.0	39
3	Probabilistic modeling of air void variability of asphalt mixtures in flexible pavements. Construction and Building Materials, 2014, 61, 138-146.	7.2	29
4	Methodology for Modeling the Uncertainty of Material Properties in Asphalt Pavements. Journal of Materials in Civil Engineering, 2014, 26, 440-448.	2.9	22
5	Modelling moisture-mechanical damage in asphalt mixtures using random microstructures and a continuum damage formulation. Road Materials and Pavement Design, 2017, 18, 1-21.	4.0	18
6	Incorporating the heterogeneity of asphalt mixtures in flexible pavements subjected to moisture diffusion. International Journal of Pavement Engineering, 2015, 16, 432-444.	4.4	16
7	Influence of different sources of microstructural heterogeneity on the degradation of asphalt mixtures. International Journal of Pavement Engineering, 2018, 19, 9-23.	4.4	13
8	Importance of Heterogeneity in Asphalt Pavement Modeling. Journal of Engineering Mechanics - ASCE, 2018, 144, 04018060.	2.9	12
9	Random generation of 2D PFC microstructures through DEM gravimetric methods. Road Materials and Pavement Design, 2022, 23, 925-941.	4.0	11
10	Homogeneous versus Heterogeneous Response of a Flexible Pavement Structure: Strain and Domain Analyses. Journal of Engineering Mechanics - ASCE, 2019, 145, .	2.9	10
11	Effects of air voids variability on the thermo-mechanical response of asphalt mixtures. International Journal of Pavement Engineering, 2014, 15, 110-121.	4.4	8
12	Spatially random modulus and tensile strength: Contribution to variability of strain, damage, and fracture in concrete. International Journal of Damage Mechanics, 2021, 30, 1497-1523.	4.2	4
13	Microstructural behaviour of quarry fines stabilised with fly ash-based binder. Road Materials and Pavement Design, 0, , 1-14.	4.0	3
14	Mechanical modelling of asphalt concrete using grid division. International Journal of Pavement Engineering, 2020, 21, 1012-1023.	4.4	0