

Daniel Castillo

List of Publications by Year in descending order

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14
papers

231
citations

1170033

9
h-index

1336881

12
g-index

14
all docs

14
docs citations

14
times ranked

239
citing authors

#	ARTICLE	IF	CITATIONS
1	Random generation of 2D PFC microstructures through DEM gravimetric methods. Road Materials and Pavement Design, 2022, 23, 925-941.	2.0	11
2	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.	2.4	4
3	Mechanical modelling of asphalt concrete using grid division. International Journal of Pavement Engineering, 2020, 21, 1012-1023.	2.2	0
4	Homogeneous versus Heterogeneous Response of a Flexible Pavement Structure: Strain and Domain Analyses. Journal of Engineering Mechanics - ASCE, 2019, 145, .	1.6	10
5	Influence of different sources of microstructural heterogeneity on the degradation of asphalt mixtures. International Journal of Pavement Engineering, 2018, 19, 9-23.	2.2	13
6	Influence of aggregate morphology on the mechanical performance of asphalt mixtures. Road Materials and Pavement Design, 2018, 19, 972-991.	2.0	39
7	Importance of Heterogeneity in Asphalt Pavement Modeling. Journal of Engineering Mechanics - ASCE, 2018, 144, 04018060.	1.6	12
8	Modelling moisture-mechanical damage in asphalt mixtures using random microstructures and a continuum damage formulation. Road Materials and Pavement Design, 2017, 18, 1-21.	2.0	18
9	Studying the effect of microstructural properties on the mechanical degradation of asphalt mixtures. Construction and Building Materials, 2015, 93, 70-83.	3.2	46
10	Incorporating the heterogeneity of asphalt mixtures in flexible pavements subjected to moisture diffusion. International Journal of Pavement Engineering, 2015, 16, 432-444.	2.2	16
11	Effects of air voids variability on the thermo-mechanical response of asphalt mixtures. International Journal of Pavement Engineering, 2014, 15, 110-121.	2.2	8
12	Probabilistic modeling of air void variability of asphalt mixtures in flexible pavements. Construction and Building Materials, 2014, 61, 138-146.	3.2	29
13	Methodology for Modeling the Uncertainty of Material Properties in Asphalt Pavements. Journal of Materials in Civil Engineering, 2014, 26, 440-448.	1.3	22
14	Microstructural behaviour of quarry fines stabilised with fly ash-based binder. Road Materials and Pavement Design, 0, , 1-14.	2.0	3