Jorge Rodriguez-Hernandez

List of Publications by Year
in descending order

52 papers	1,623 citations	393982 19 h-index	301761 39 g-index
52 all docs	52 docs citations	52 times ranked	1568 citing authors

#	Article	IF	Citations
1	A review of application of multi-criteria decision making methods in construction. Automation in Construction, 2014, 45, 151-162.	4.8	335
2	Review of seasonal heat storage in large basins: Water tanks and gravelâ€“water pits. Applied Energy, 2010, 87, 390-397.	5.1	198
3	Asphalt solar collectors: A literature review. Applied Energy, 2013, 102, 962-970.	5.1	153
4	A fuzzy stochastic multi-criteria model for the selection of urban pervious pavements. Expert Systems With Applications, 2014, 41, 6807-6817.	4.4	70
5	Test methods and influential factors for analysis of bonding between bituminous pavement layers. Construction and Building Materials, 2013, 43, 372-381.	3.2	59
6	Sustainable Drainage Practices in Spain, Specially Focused on Pervious Pavements. Water (Switzerland), 2013, 5, 67-93.	1.2	59
7	Incorporation of Additives and Fibers in Porous Asphalt Mixtures: A Review. Materials, 2019, 12, 3156.	1.3	59
8	Review of porous concrete as multifunctional and sustainable pavement. Journal of Building Engineering, 2020, 27, 100967.	1.6	46
9	Water quality and quantity assessment of pervious pavements performance in experimental car park areas. Water Science and Technology, 2014, 69, 1526-1533.	1.2	44
10	Exploratory study of porous asphalt mixtures with additions of reclaimed tetra pak material. Construction and Building Materials, 2018, 160, 233-239.	3.2	33
11	Characterization of Infiltration Capacity of Permeable Pavements with Porous Asphalt Surface Using Cantabrian Fixed Infiltrometer. Journal of Hydrologic Engineering - ASCE, 2012, 17, 597-603.	0.8	29
12	Flood Risk Assessment in Urban Catchments Using Multiple Regression Analysis. Journal of Water Resources Planning and Management - ASCE, 2018, 144, .	1.3	29
13	Runoff infiltration to permeable paving in clogged conditions. Urban Water Journal, 2008, 5, 117-124.	1.0	28
14	Laboratory Study on the Stormwater Retention and Runoff Attenuation Capacity of Four Permeable Pavements. Journal of Environmental Engineering, ASCE, 2016, 142, .	0.7	28
15	An evaluation of enhanced geotextile layer in permeable pavement to improve stormwater infiltration and attenuation. International Journal of Pavement Engineering, 2014, 15, 925-932.	2.2	27
16	Laboratory analysis of the infiltration capacity of interlocking concrete block pavements in car parks. Water Science and Technology, 2013, 67, 675-681.	1.2	24
17	Selection of fibers to improve porous asphalt mixtures using multi-criteria analysis. Construction and Building Materials, 2021, 266, 121198.	3.2	24
18	Infiltration Behaviour of Polymerâ€‹scp›M‹/scp›odified Porous Concrete and Porous Asphalt Surfaces used in Su‹scp›DS‹/scp› Techniques. Clean - Soil, Air, Water, 2014, 42, 139-145.	0.7	23

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19	Sustainable Urban Drainage Systems in Spain: A Diagnosis. Sustainability, 2021, 13, 2791.	1.6	22
20	Critical assessment of new polymer-modified bitumen for porous asphalt mixtures. Construction and Building Materials, 2021, 307, 124957.	3.2	22
21	Comparative analysis of the outflow water quality of two sustainable linear drainage systems. Water Science and Technology, 2014, 70, 1341-1347.	1.2	19
22	Study of the Raveling Resistance of Porous Asphalt Pavements Used in Sustainable Drainage Systems Affected by Hydrocarbon Spills. Sustainability, 2015, 7, 16226-16236.	1.6	19
23	Field Study of Infiltration Capacity Reduction of Porous Mixture Surfaces. Water (Switzerland), 2014, 6, 661-669.	1.2	17
24	A simulation-optimization methodology to model urban catchments under non-stationary extreme rainfall events. Environmental Modelling and Software, 2019, 122, 103960.	1.9	17
25	Relationship between Urban Runoff Pollutant and Catchment Characteristics. Journal of Irrigation and Drainage Engineering - ASCE, 2013, 139, 833-840.	0.6	16
26	Sustainable Asphalt Mixes: Use of Additives and Recycled Materials. Baltic Journal of Road and Bridge Engineering, 2011, 6, 249-257.	0.4	16
27	Infiltration Capacity Assessment of Urban Pavements Using the LCS Permeameter and the CP Infiltrometer. Journal of Irrigation and Drainage Engineering - ASCE, 2008, 134, 659-665.	0.6	15
28	Design and construction of an experimental pervious paved parking area to harvest reusable rainwater. Water Science and Technology, 2011, 64, 1942-1950.	1.2	15
29	Characterization of the Infiltration Capacity of Porous Concrete Pavements with Low Constant Head Permeability Tests. Water (Switzerland), 2018, 10, 480.	1.2	15
30	Air quality modelling in Catalonia from a combination of solar radiation, surface reflectance and elevation. Science of the Total Environment, 2018, 624, 189-200.	3.9	13
31	Proposal of a New Porous Concrete Dosage Methodology for Pavements. Materials, 2019, 12, 3100.	1.3	13
32	Temperature Performance of Different Pervious Pavements: Rainwater Harvesting for Energy Recovery Purposes. Water Resources Management, 2013, 27, 5003.	1.9	12
33	Physical and Mechanical Characterization of Sustainable and Innovative Porous Concrete for Urban Pavements Containing Metakaolin. Sustainability, 2020, 12, 4243.	1.6	12
34	Laboratory Characterization of Porous Asphalt Mixtures with Aramid Fibers. Materials, 2021, 14, 1935.	1.3	12
35	Nonlinear explicit analysis and study of the behaviour of a new ring-type brake energy dissipator by FEM and experimental comparison. Applied Mathematics and Computation, 2010, 216, 1571-1582.	1.4	11
36	Classification and Comparison of Snow Fences for the Protection of Transport Infrastructures. Journal of Cold Regions Engineering - ASCE, 2011, 25, 162-181.	0.5	10

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37	Design and application of a Sustainable Urban Surface Rating System (SURSIST). Ecological Indicators, 2018, 93, 1253-1263.	2.6	10
38	Long-Term Simulation of a System for Catchment, Pretreatment, and Treatment of Polluted Runoff Water. Journal of Environmental Engineering, ASCE, 2010, 136, 1442-1446.	0.7	9
39	Long-term analysis of clogging and oil bio-degradation in a System of Catchment, Pre-treatment and Treatment (SCPT). Journal of Hazardous Materials, 2011, 185, 1221-1227.	6.5	9
40	Monitoring and Evaluation of the Thermal Behavior of Permeable Pavements for Energy Recovery Purposes in an Experimental Parking Lot: Preliminary Results. Journal of Energy Engineering - ASCE, 2013, 139, 230-237.	1.0	9
41	Selection of Additives and Fibers for Improving the Mechanical and Safety Properties of Porous Concrete Pavements through Multi-Criteria Decision-Making Analysis. Sustainability, 2020, 12, 2392.	1.6	8
42	Multi-Criteria Selection of Additives in Porous Asphalt Mixtures Using Mechanical, Hydraulic, Economic, and Environmental Indicators. Sustainability, 2021, 13, 2146.	1.6	7
43	The influence of paving-block shape on the infiltration capacity of permeable paving. Land Contamination and Reclamation, 2007, 15, 335-344.	0.4	7
44	Laboratory analysis of a system for catchment, pre-treatment and treatment (SCPT) of runoff from impervious pavements. Water Science and Technology, 2010, 61, 1845-1852.	1.2	5
45	Effect of Different Types of â€œDry Wayâ€•Additions in Porous Asphalt Mixtures. Materials, 2022, 15, 1549.	1.3	4
46	Impact of COVID-19 Lockdown on Wildlife-Vehicle Collisions in NW of Spain. Sustainability, 2022, 14, 4849.	1.6	4
47	Evaluation of the Effect of Different Compaction Methods on Porous Concrete Pavements: Correlation with Strength and Permeability. Journal of Materials in Civil Engineering, 2021, 33, .	1.3	3
48	Closure to â€œRelationship between Urban Runoff Pollutant and Catchment Characteristicsâ€•by Jorge Rodriguez-Hernandez, AndrÃ©s H. FernÃ¡ndez-Barrera, Valerio C. A. AndrÃ©s-Valeri, Angel Vega-Zamanillo, and Daniel Castro-Fresno. Journal of Irrigation and Drainage Engineering - ASCE, 2015, 141, 07015016.	0.6	1
49	Multifunctional Porous Concrete Urban Pavements for a More Sustainable and Resilient Future. Proceedings (mdpi), 2018, 2, .	0.2	1
50	Review of Climate Risk Analysis in Infrastructures. International Review of Civil Engineering, 2018, 9, 1.	0.3	1
51	A New Design Methodology for Improving Porous Concrete Properties to Achieve Multifunctional and Sustainable Pavements. Lecture Notes in Civil Engineering, 2020, , 491-499.	0.3	1
52	Multiple Regression Analysis as a Comprehensive Tool to Model Flood Hazard in Sewersheds. Green Energy and Technology, 2019, , 571-575.	0.4	0