

# Jorge Rodriguez-Hernandez

## List of Publications by Year in descending order

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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	Effect of Different Types of "Dry Way" Additions in Porous Asphalt Mixtures. <i>Materials</i> , 2022, 15, 1549.	1.3	4
2	Impact of COVID-19 Lockdown on Wildlife-Vehicle Collisions in NW of Spain. <i>Sustainability</i> , 2022, 14, 4849.	1.6	4
3	Selection of fibers to improve porous asphalt mixtures using multi-criteria analysis. <i>Construction and Building Materials</i> , 2021, 266, 121198.	3.2	24
4	Multi-Criteria Selection of Additives in Porous Asphalt Mixtures Using Mechanical, Hydraulic, Economic, and Environmental Indicators. <i>Sustainability</i> , 2021, 13, 2146.	1.6	7
5	Sustainable Urban Drainage Systems in Spain: A Diagnosis. <i>Sustainability</i> , 2021, 13, 2791.	1.6	22
6	Laboratory Characterization of Porous Asphalt Mixtures with Aramid Fibers. <i>Materials</i> , 2021, 14, 1935.	1.3	12
7	Evaluation of the Effect of Different Compaction Methods on Porous Concrete Pavements: Correlation with Strength and Permeability. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, .	1.3	3
8	Critical assessment of new polymer-modified bitumen for porous asphalt mixtures. <i>Construction and Building Materials</i> , 2021, 307, 124957.	3.2	22
9	Review of porous concrete as multifunctional and sustainable pavement. <i>Journal of Building Engineering</i> , 2020, 27, 100967.	1.6	46
10	Physical and Mechanical Characterization of Sustainable and Innovative Porous Concrete for Urban Pavements Containing Metakaolin. <i>Sustainability</i> , 2020, 12, 4243.	1.6	12
11	Selection of Additives and Fibers for Improving the Mechanical and Safety Properties of Porous Concrete Pavements through Multi-Criteria Decision-Making Analysis. <i>Sustainability</i> , 2020, 12, 2392.	1.6	8
12	A New Design Methodology for Improving Porous Concrete Properties to Achieve Multifunctional and Sustainable Pavements. <i>Lecture Notes in Civil Engineering</i> , 2020, , 491-499.	0.3	1
13	Incorporation of Additives and Fibers in Porous Asphalt Mixtures: A Review. <i>Materials</i> , 2019, 12, 3156.	1.3	59
14	Proposal of a New Porous Concrete Dosage Methodology for Pavements. <i>Materials</i> , 2019, 12, 3100.	1.3	13
15	A simulation-optimization methodology to model urban catchments under non-stationary extreme rainfall events. <i>Environmental Modelling and Software</i> , 2019, 122, 103960.	1.9	17
16	Multiple Regression Analysis as a Comprehensive Tool to Model Flood Hazard in Sewersheds. <i>Green Energy and Technology</i> , 2019, , 571-575.	0.4	0
17	Air quality modelling in Catalonia from a combination of solar radiation, surface reflectance and elevation. <i>Science of the Total Environment</i> , 2018, 624, 189-200.	3.9	13
18	Flood Risk Assessment in Urban Catchments Using Multiple Regression Analysis. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018, 144, .	1.3	29

#	ARTICLE	IF	CITATIONS
19	Exploratory study of porous asphalt mixtures with additions of reclaimed tetra pak material. Construction and Building Materials, 2018, 160, 233-239.	3.2	33
20	Multifunctional Porous Concrete Urban Pavements for a More Sustainable and Resilient Future. Proceedings (mdpi), 2018, 2, .	0.2	1
21	Design and application of a Sustainable Urban Surface Rating System (SURSIST). Ecological Indicators, 2018, 93, 1253-1263.	2.6	10
22	Characterization of the Infiltration Capacity of Porous Concrete Pavements with Low Constant Head Permeability Tests. Water (Switzerland), 2018, 10, 480.	1.2	15
23	Review of Climate Risk Analysis in Infrastructures. International Review of Civil Engineering, 2018, 9, 1.	0.3	1
24	Laboratory Study on the Stormwater Retention and Runoff Attenuation Capacity of Four Permeable Pavements. Journal of Environmental Engineering, ASCE, 2016, 142, .	0.7	28
25	Closure to "Relationship between Urban Runoff Pollutant and Catchment Characteristics" by Jorge Rodriguez-Hernandez, Andrés H. Fernández-Barrera, Valerio C. A. Andrés-Valeri, Angel Vega-Zamanillo, and Daniel Castro-Fresno. Journal of Irrigation and Drainage Engineering - ASCE, 2015, 141, 07015016.	0.6	1
26	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
27	Field Study of Infiltration Capacity Reduction of Porous Mixture Surfaces. Water (Switzerland), 2014, 6, 661-669.	1.2	17
28	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
29	Infiltration Behaviour of Polymer-Modified Porous Concrete and Porous Asphalt Surfaces used in Sustainable Drainage Techniques. Clean - Soil, Air, Water, 2014, 42, 139-145.	0.7	23
30	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
31	A fuzzy stochastic multi-criteria model for the selection of urban pervious pavements. Expert Systems With Applications, 2014, 41, 6807-6817.	4.4	70
32	Comparative analysis of the outflow water quality of two sustainable linear drainage systems. Water Science and Technology, 2014, 70, 1341-1347.	1.2	19
33	A review of application of multi-criteria decision making methods in construction. Automation in Construction, 2014, 45, 151-162.	4.8	335
34	Test methods and influential factors for analysis of bonding between bituminous pavement layers. Construction and Building Materials, 2013, 43, 372-381.	3.2	59
35	Temperature Performance of Different Pervious Pavements: Rainwater Harvesting for Energy Recovery Purposes. Water Resources Management, 2013, 27, 5003.	1.9	12
36	Asphalt solar collectors: A literature review. Applied Energy, 2013, 102, 962-970.	5.1	153

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37	Relationship between Urban Runoff Pollutant and Catchment Characteristics. Journal of Irrigation and Drainage Engineering - ASCE, 2013, 139, 833-840.	0.6	16
38	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
39	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
40	Sustainable Drainage Practices in Spain, Specially Focused on Pervious Pavements. Water (Switzerland), 2013, 5, 67-93.	1.2	59
41	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
42	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
43	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
44	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
45	Sustainable Asphalt Mixes: Use of Additives and Recycled Materials. Baltic Journal of Road and Bridge Engineering, 2011, 6, 249-257.	0.4	16
46	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
47	Review of seasonal heat storage in large basins: Water tanks and gravelâ€“water pits. Applied Energy, 2010, 87, 390-397.	5.1	198
48	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
49	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
50	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
51	Runoff infiltration to permeable paving in clogged conditions. Urban Water Journal, 2008, 5, 117-124.	1.0	28
52	The influence of paving-block shape on the infiltration capacity of permeable paving. Land Contamination and Reclamation, 2007, 15, 335-344.	0.4	7