

Clara Celauro

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

986
citations

471061

17
h-index

433756

31
g-index

36
all docs

36
docs citations

36
times ranked

869
citing authors

#	ARTICLE	IF	CITATIONS
1	Production of innovative, recycled and high-performance asphalt for road pavements. Resources, Conservation and Recycling, 2010, 54, 337-347.	5.3	93
2	Environmentally appraising different pavement and construction scenarios: A comparative analysis for a typical local road. Transportation Research, Part D: Transport and Environment, 2015, 34, 41-51.	3.2	87
3	Experimental validation of a fractional model for creep/recovery testing of asphalt mixtures. Construction and Building Materials, 2012, 36, 458-466.	3.2	81
4	Image analysis for detecting aggregate gradation in asphalt mixture from planar images. Construction and Building Materials, 2012, 28, 21-30.	3.2	81
5	Asphalt mixtures modified with basalt fibres for surface courses. Construction and Building Materials, 2018, 170, 245-253.	3.2	70
6	Definition of a laboratory optimization protocol for road bitumen improved with recycled tire rubber. Construction and Building Materials, 2012, 37, 562-572.	3.2	67
7	Asphalt Surface Mixtures with Improved Performance Using Waste Polymers via Dry and Wet Processes. Journal of Materials in Civil Engineering, 2017, 29, .	1.3	47
8	Environmental analysis of different construction techniques and maintenance activities for a typical local road. Journal of Cleaner Production, 2017, 142, 3482-3489.	4.6	47
9	Digital image analysis technique for measuring railway track defects and ballast gradation. Measurement: Journal of the International Measurement Confederation, 2018, 113, 137-147.	2.5	31
10	Microstructure and shear strength evolution of a lime-treated clay for use in road construction. International Journal of Pavement Engineering, 2020, 21, 1147-1158.	2.2	31
11	Effect of climate change on asphalt binder selection for road construction in Italy. Transportation Research, Part D: Transport and Environment, 2015, 37, 40-47.	3.2	29
12	Design Procedures for Soil-Lime Stabilization for Road and Railway Embankments. Part 1-Review of Design Methods. Procedia, Social and Behavioral Sciences, 2012, 53, 754-763.	0.5	28
13	Backcalculation of airport pavement moduli and thickness using the Lévy Ant Colony Optimization Algorithm. Construction and Building Materials, 2016, 119, 288-295.	3.2	25
14	On the hydro-mechanical behaviour of a lime-treated embankment during wetting and drying cycles. Geomechanics for Energy and the Environment, 2018, 14, 48-60.	1.2	25
15	A simple interpretation of the effect of the polymer type on the properties of PMBs for road paving applications. Construction and Building Materials, 2018, 158, 114-123.	3.2	23
16	Improvement of high modulus asphalt mixtures with average quality aggregate and bitumen by application of polymeric additives. Construction and Building Materials, 2018, 178, 183-194.	3.2	22
17	Laboratory and in-situ tests for estimating improvements in asphalt concrete with the addition of an LDPE and EVA polymeric compound. Construction and Building Materials, 2019, 196, 714-726.	3.2	19
18	Impact Analysis Using Life Cycle Assessment of Asphalt Production from Primary Data. Sustainability, 2020, 12, 10171.	1.6	19

#	ARTICLE	IF	CITATIONS
19	A Machine Learning Approach to Determine Airport Asphalt Concrete Layer Moduli Using Heavy Weight Deflectometer Data. <i>Sustainability</i> , 2021, 13, 8831.	1.6	17
20	Evaluation of the laboratory prediction of surface properties of bituminous mixtures. <i>Construction and Building Materials</i> , 2009, 23, 943-952.	3.2	16
21	Influence of Short-Term Aging on Mechanical Properties and Morphology of Polymer-Modified Bitumen with Recycled Plastics from Waste Materials. <i>Polymers</i> , 2020, 12, 1985.	2.0	16
22	Evaluation of Subgrade Resilient Modulus Predictive Model for Use in Mechanistic-Empirical Pavement Design Guide. <i>Transportation Research Record</i> , 2006, 1947, 155-166.	1.0	12
23	An automated procedure for computing the packing properties of dense and locked sands by image analysis of thin sections. <i>Granular Matter</i> , 2014, 16, 867-880.	1.1	12
24	Analysis of the chemical and microstructural modifications effects on the hydro-mechanical behaviour of a lime-treated clay. <i>International Journal of Geotechnical Engineering</i> , 2021, 15, 447-460.	1.1	12
25	An extension of the fractional model for construction of asphalt binder master curve. <i>European Journal of Environmental and Civil Engineering</i> , 2017, 21, 78-93.	1.0	10
26	Design Procedures for Soil-Lime Stabilization for Road and Railway Embankments. Part 2-Experimental Validation. <i>Procedia, Social and Behavioral Sciences</i> , 2012, 53, 568-579.	0.5	9
27	Primary Data Collection and Environmental/Energy Audit of Hot Mix Asphalt Production. <i>Energies</i> , 2020, 13, 2045.	1.6	9
28	Preliminary Evaluation of Plasmix Compound from Plastics Packaging Waste for Reuse in Bituminous Pavements. <i>Sustainability</i> , 2021, 13, 2258.	1.6	9
29	Effect of Short-Term and UV Irradiation Aging on the Behaviour of SBS-Modified Bitumen. <i>Sustainability</i> , 2022, 14, 6915.	1.6	9
30	Linear ViscoElastic (LVE) Behaviour of Pure Bitumen via Fractional Model. <i>Procedia, Social and Behavioral Sciences</i> , 2012, 53, 450-461.	0.5	6
31	Improved Traffic Signal Detection and Classification via Image Processing Algorithms. <i>Procedia, Social and Behavioral Sciences</i> , 2012, 53, 810-820.	0.5	6
32	Numerical Comparison of the Hydrological Response of Different Permeable Pavements in Urban Area. <i>Sustainability</i> , 2022, 14, 5704.	1.6	6
33	Influence of the Hourly Variation of Temperature on the Estimation of Fatigue Damage and Rutting in Flexible Pavement Design. <i>International Journal of Pavement Engineering</i> , 2004, 5, 221-231.	2.2	4
34	Modelling pavement surface characteristics for noise prediction through Bailey-related indicators. <i>International Journal of Pavement Research and Technology</i> , 2021, 14, 222-231.	1.3	3
35	Volumetric Behaviour of Lime Treated High Plasticity Clay Subjected to Suction Controlled Drying and Wetting Cycles. <i>Springer Series in Geomechanics and Geoenvironmental Engineering</i> , 2017, , 165-172.	0.0	3
36	Artificial Neural Network Prediction of Airport Pavement Moduli Using Interpolated Surface Deflection Data. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1203, 022112.	0.3	2