

# Francesco Canestrari

## List of Publications by Year in descending order

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Version: 2024-02-01

95  
papers

2,694  
citations

126907

33  
h-index

214800

47  
g-index

100  
all docs

100  
docs citations

100  
times ranked

1255  
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of equivalent axle load factors with the use of strain energy of distortion. Road Materials and Pavement Design, 2023, 24, 520-536.	4.0	2
2	Investigation into fatigue life of interface bond between asphalt concrete layers. International Journal of Pavement Engineering, 2022, 23, 3371-3385.	4.4	14
3	Use of Modified Reclaimed Asphalt in Warm Mixtures. RILEM Bookseries, 2022, , 1893-1899.	0.4	0
4	Interlaboratory Test to Characterize the Cyclic Behavior of Bituminous Interlayers: An Overview of Testing Equipment and Protocols. RILEM Bookseries, 2022, , 29-36.	0.4	2
5	Testing Methods to Assess Healing Potential of Bituminous Binders. RILEM Bookseries, 2022, , 55-62.	0.4	4
6	VECD analysis to investigate the performance of long-term aged bio-asphalt mixtures compared to conventional asphalt mixtures. Road Materials and Pavement Design, 2022, 23, 2697-2712.	4.0	11
7	Asphalt Binder Modification with Plastomeric Compounds Containing Recycled Plastics and Graphene. Materials, 2022, 15, 516.	2.9	15
8	A semi-empirical model for top-down cracking depth evolution in thick asphalt pavements with open-graded friction courses. Journal of Traffic and Transportation Engineering (English Edition), 2022, 9, 244-260.	4.2	4
9	Asphalt mixture modification with a plastomeric compound containing recycled plastic: laboratory and field investigation. Materials and Structures/Materiaux Et Constructions, 2022, 55, 1.	3.1	10
10	Performance Assessment of Asphalt Mixture Produced with a Bio-Based Binder. Materials, 2021, 14, 918.	2.9	15
11	Monitoring the evolution of the structural properties of warm recycled pavements with Falling Weight Deflectometer and laboratory tests. Road Materials and Pavement Design, 2021, 22, S69-S82.	4.0	12
12	Influence of Geocomposite Properties on the Crack Propagation and Interlayer Bonding of Asphalt Pavements. Materials, 2021, 14, 5310.	2.9	8
13	Sustainable Performances of Small to Medium-Sized Airports in the Adriatic Region. Sustainability, 2021, 13, 13156.	3.2	7
14	Use of acoustic techniques to analyse interlayer shear-torque fatigue test in asphalt mixtures. International Journal of Fatigue, 2020, 131, 105356.	5.7	19
15	Chemical, morphological and rheological characterization of bitumen partially replaced with wood bio-oil: Towards more sustainable materials in road pavements. Journal of Traffic and Transportation Engineering (English Edition), 2020, 7, 192-204.	4.2	38
16	A review of top-down cracking in asphalt pavements: Causes, models, experimental tools and future challenges. Journal of Traffic and Transportation Engineering (English Edition), 2020, 7, 541-572.	4.2	37
17	Top-down cracking in Italian motorway pavements: A case study. Case Studies in Construction Materials, 2020, 13, e00442.	1.7	6
18	Analysis of shear-torque fatigue test for bituminous pavement interlayers. Construction and Building Materials, 2020, 254, 119309.	7.2	15

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19	Shear-Torque Fatigue Performance of Geogrid-Reinforced Asphalt Interlayers. Sustainability, 2020, 12, 4381.	3.2	12
20	Effect of geocomposite reinforcement on the performance of thin asphalt pavements: Accelerated pavement testing and laboratory analysis. Case Studies in Construction Materials, 2020, 12, e00342.	1.7	18
21	Evaluation of Graphite Nanoplatelets Influence on the Lubrication Properties of Asphalt Binders. Materials, 2020, 13, 772.	2.9	19
22	Investigating the "circular propensity" of road bio-binders: Effectiveness in hot recycling of reclaimed asphalt and recyclability potential. Journal of Cleaner Production, 2020, 255, 120193.	9.3	30
23	Analysis of Fatigue and Healing Properties of Conventional Bitumen and Bio-Binder for Road Pavements. Materials, 2020, 13, 420.	2.9	10
24	Fast Falling Weight Accelerated Pavement Testing and Laboratory Analysis of Asphalt Pavements Reinforced with Geocomposites. Lecture Notes in Civil Engineering, 2020, , 417-430.	0.4	3
25	Experimental investigation on the bond strength between sustainable road bio-binders and aggregate substrates. Materials and Structures/Materiaux Et Constructions, 2019, 52, 1.	3.1	23
26	Tribological Characterization of Graphene Nano-Platelet (GNP) Bituminous Binders. , 2019, , .		1
27	Experimental characterization of the 3D linear viscoelastic behavior of cold recycled bitumen emulsion mixtures. Journal of Traffic and Transportation Engineering (English Edition), 2019, 6, 324-336.	4.2	3
28	Chemical and rheological investigation on the short- and long-term aging properties of bio-binders for road pavements. Construction and Building Materials, 2019, 217, 518-529.	7.2	36
29	Influence of chemical additives for warm mix asphalts on the short-term ageing of a plain bitumen. Road Materials and Pavement Design, 2019, 20, S34-S48.	4.0	6
30	Ageing of rejuvenated bitumen in hot recycled bituminous mixtures: influence of bitumen origin and additive type. Road Materials and Pavement Design, 2019, 20, S127-S148.	4.0	18
31	Linear viscoelastic characterisation of bituminous mixtures using random stress excitations. Road Materials and Pavement Design, 2019, 20, S390-S408.	4.0	6
32	Renewable materials in bituminous binders and mixtures: Speculative pretext or reliable opportunity?. Resources, Conservation and Recycling, 2019, 144, 209-222.	10.8	73
33	Influence of different fillers and SBS modified bituminous blends on fatigue, self-healing and thixotropic performance of mastics. Road Materials and Pavement Design, 2019, 20, 656-670.	4.0	22
34	Research and Engineering for Resilient Infrastructures and Environment Protection. , 2019, , 311-324.		0
35	Sustainable Engineering for Resilient Built and Natural Environments. , 2019, , 297-310.		0
36	Bituminous Binder. RILEM State-of-the-Art Reports, 2018, , 15-74.	0.7	1

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37	Advanced Interface Testing of Grids in Asphalt Pavements. RILEM State-of-the-Art Reports, 2018, , 127-202.	0.7	10
38	Tribological characterization of bituminous binders with Warm Mix Asphalt additives. Construction and Building Materials, 2018, 172, 309-318.	7.2	31
39	Characterisation of warm recycled porous asphalt mixtures prepared with different WMA additives. European Journal of Environmental and Civil Engineering, 2018, 22, 82-98.	2.1	14
40	Effect of temperature and chemical additives on the short-term ageing of polymer modified bitumen for WMA. Materials and Design, 2018, 160, 514-526.	7.0	39
41	Influence of rejuvenators on bitumen ageing in hot recycled asphalt mixtures. Journal of Traffic and Transportation Engineering (English Edition), 2018, 5, 157-168.	4.2	59
42	Warm recycling of flexible pavements: Effectiveness of Warm Mix Asphalt additives on modified bitumen and mixture performance. Journal of Cleaner Production, 2017, 156, 911-922.	9.3	55
43	Fatigue, self-healing and thixotropy of bituminous mastics including aged modified bitumens and different filler contents. Construction and Building Materials, 2017, 131, 496-502.	7.2	46
44	Time-temperature superposition principle for interlayer shear strength of bituminous pavements. Road Materials and Pavement Design, 2017, 18, 12-25.	4.0	14
45	State of the art of tribological tests for bituminous binders. Construction and Building Materials, 2017, 157, 718-728.	7.2	22
46	Effect of warm mix asphalt chemical additives on the mechanical performance of asphalt binders. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1.	3.1	28
47	Estimation of low-temperature performance of recycled asphalt mixtures through relaxation modulus analysis. Cold Regions Science and Technology, 2017, 133, 36-45.	3.5	23
48	Mix design validation through performance-related analysis of in plant asphalt mixtures containing high RAP content. International Journal of Pavement Research and Technology, 2017, 10, 23-37.	2.6	18
49	Performance Assessment of Plant-Produced Warm Recycled Mixtures for Open-Graded Wearing Courses. Transportation Research Record, 2017, 2633, 16-24.	1.9	12
50	Performance of warm recycled mixtures in field trial sections. , 2017, , 1267-1274.		3
51	Self-healing capability and thixotropy of bituminous mastics. International Journal of Fatigue, 2016, 92, 8-17.	5.7	60
52	Shear failure characterization of time-temperature sensitive interfaces. Mechanics of Time-Dependent Materials, 2016, 20, 405-419.	4.4	11
53	Geocomposite-Reinforcement of Polymer-Modified Asphalt Systems. RILEM Bookseries, 2016, , 383-395.	0.4	1
54	Effect of Warm Mix Chemical Additives on the Binder-Aggregate Bond Strength and High-Service Temperature Performance of Asphalt Mixes Containing Electric Arc Furnace Steel Slag. RILEM Bookseries, 2016, , 485-496.	0.4	3

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55	In Plant Production of Hot Recycled Mixtures with High Reclaimed Asphalt Pavement Content: A Performance Evaluation. RILEM Bookseries, 2016, , 927-939.	0.4	11
56	Mechanical 3D characterization of epoxy asphalt concrete for pavement layers of orthotropic steel decks. Construction and Building Materials, 2015, 79, 145-152.	7.2	51
57	Low-temperature mechanics of hot recycled mixtures through Asphalt Thermal Cracking Analyzer (ATCA). Construction and Building Materials, 2015, 84, 54-65.	7.2	20
58	Laboratory evaluation of the effect of low-temperature application of warm-mix asphalts on interface shear strength. Construction and Building Materials, 2015, 88, 56-63.	7.2	12
59	Pseudo-variables method to calculate HMA relaxation modulus through low-temperature induced stress and strain. Materials & Design, 2015, 76, 141-149.	5.1	12
60	New method to estimate the "core-activated" binder amount in recycled hot-mix asphalt. Road Materials and Pavement Design, 2015, 16, 442-459.	4.0	47
61	Geocomposites against reflective cracking in asphalt pavements: laboratory simulation of a field application. Road Materials and Pavement Design, 2015, 16, 815-835.	4.0	26
62	Modeling and assessment of self-healing and thixotropy properties for modified binders. International Journal of Fatigue, 2015, 70, 351-360.	5.7	84
63	Shear and flexural characterization of grid-reinforced asphalt pavements and relation with field distress evolution. Materials and Structures/Materiaux Et Constructions, 2015, 48, 959-975.	3.1	58
64	Synthesis of standards and procedures for specimen preparation and in-field evaluation of cold-recycled asphalt mixtures. Road Materials and Pavement Design, 2014, 15, 272-299.	4.0	52
65	Innovative Testing Protocol for Evaluation of Binder-Reclaimed Aggregate Bond Strength. Transportation Research Record, 2014, 2444, 63-70.	1.9	13
66	Laboratory characterisation of optimised geocomposites for asphalt pavement reinforcement. Geosynthetics International, 2014, 21, 24-36.	2.9	24
67	Complex Poisson's ratio of bituminous mixtures: measurement and modeling. Materials and Structures/Materiaux Et Constructions, 2014, 47, 1131-1148.	3.1	41
68	Structural response of grid-reinforced bituminous pavements. Materials and Structures/Materiaux Et Constructions, 2014, 47, 1391-1408.	3.1	39
69	Experimental characterization of high-performance fiber-reinforced cold mix asphalt mixtures. Construction and Building Materials, 2014, 57, 117-125.	7.2	66
70	Chemical and rheological analysis of modified bitumens blended with "artificial reclaimed bitumen". Construction and Building Materials, 2014, 63, 1-10.	7.2	38
71	Influence of polymer modification on asphalt binder dynamic and steady flow viscosities. Construction and Building Materials, 2014, 71, 435-443.	7.2	46
72	Bulk and shear characterization of bituminous mixtures in the linear viscoelastic domain. Mechanics of Time-Dependent Materials, 2014, 18, 527-554.	4.4	17

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73	Advanced Characterization of Clear Chip Seals. Journal of Testing and Evaluation, 2014, 42, 1213-1227.	0.7	5
74	Improved durability of recycled porous asphalt. Construction and Building Materials, 2013, 48, 755-763.	7.2	36
75	Laboratory characterisation and field validation of geogrid-reinforced asphalt pavements. Road Materials and Pavement Design, 2013, 14, 17-35.	4.0	53
76	Performance evaluation of a cold-recycled mixture containing high percentage of reclaimed asphalt. Road Materials and Pavement Design, 2013, 14, 149-161.	4.0	75
77	Experimental Evaluation of Shear Resistance of Improved Steel-Asphalt Interfaces. Transportation Research Record, 2013, 2370, 145-150.	1.9	30
78	Mechanical Testing of Interlayer Bonding in Asphalt Pavements. RILEM State-of-the-Art Reports, 2013, , 303-360.	0.7	51
79	Analysis of Structural Compatibility at Interface between Asphalt Concrete Pavements and Orthotropic Steel Deck Surfaces. Transportation Research Record, 2012, 2293, 1-7.	1.9	42
80	An Application to the European Practice of the Bailey Method for HMA Aggregate Grading Design. Procedia, Social and Behavioral Sciences, 2012, 53, 990-999.	0.5	21
81	Experimental evaluation of the influence of surface coating on fiberglass geogrid performance in asphalt pavements. Geotextiles and Geomembranes, 2012, 34, 11-18.	4.6	72
82	Experimental study on shear fatigue behavior and stiffness performance of Warm Mix Asphalt by adding synthetic wax. Construction and Building Materials, 2012, 34, 537-544.	7.2	19
83	Optimization of Geocomposites for Double-Layered Bituminous Systems. RILEM Bookseries, 2012, , 1229-1239.	0.4	13
84	A strategic laboratory approach for the performance investigation of geogrids in flexible pavements. Construction and Building Materials, 2011, 25, 2343-2348.	7.2	53
85	Performance evaluation of gap graded Asphalt Rubber mixtures. Construction and Building Materials, 2011, 25, 2014-2022.	7.2	46
86	Analysis of water and thermal sensitivity of open graded asphalt rubber mixtures. Construction and Building Materials, 2010, 24, 283-291.	7.2	52
87	Adhesive and Cohesive Properties of Asphalt-Aggregate Systems Subjected to Moisture Damage. Road Materials and Pavement Design, 2010, 11, 11-32.	4.0	145
88	Repeated load test on bituminous systems reinforced by geosynthetics. Geotextiles and Geomembranes, 2009, 27, 187-195.	4.6	81
89	Statistical investigation of two different interlayer shear test methods. Materials and Structures/Materiaux Et Constructions, 2009, 42, 705-714.	3.1	30
90	Characterization of Water Sensitivity of Asphalt Mixtures with Coaxial Shear Test. Road Materials and Pavement Design, 2008, 9, 247-270.	4.0	10

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91	Characterization of Water Sensitivity of Asphalt Mixtures with Coaxial Shear Test. Road Materials and Pavement Design, 2008, 9, 247-270.	4.0	9
92	Advanced Testing and Characterization of Interlayer Shear Resistance. Transportation Research Record, 2005, 1929, 69-78.	1.9	82
93	Temperature effects on the shear behaviour of tack coat emulsions used in flexible pavements. International Journal of Pavement Engineering, 2005, 6, 39-46.	4.4	66
94	Influence of water and temperature on mechanical properties of selected asphalt pavements. Materials and Structures/Materiaux Et Constructions, 2005, 38, 523-532.	3.1	23
95	Advanced Testing and Characterization of Interlayer Shear Resistance. Transportation Research Record, 2005, 1929, 69-78.	1.9	66