

Gilda Ferrotti

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,249
citations

304743
22
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35
g-index

44
all docs

44
docs citations

44
times ranked

714
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced Testing and Characterization of Interlayer Shear Resistance. Transportation Research Record, 2005, 1929, 69-78.	1.9	82
2	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
3	Renewable materials in bituminous binders and mixtures: Speculative pretext or reliable opportunity?. Resources, Conservation and Recycling, 2019, 144, 209-222.	10.8	73
4	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
5	Experimental characterization of high-performance fiber-reinforced cold mix asphalt mixtures. Construction and Building Materials, 2014, 57, 117-125.	7.2	66
6	Advanced Testing and Characterization of Interlayer Shear Resistance. Transportation Research Record, 2005, 1929, 69-78.	1.9	66
7	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
8	A strategic laboratory approach for the performance investigation of geogrids in flexible pavements. Construction and Building Materials, 2011, 25, 2343-2348.	7.2	53
9	Laboratory characterisation and field validation of geogrid-reinforced asphalt pavements. Road Materials and Pavement Design, 2013, 14, 17-35.	4.0	53
10	Mechanical Testing of Interlayer Bonding in Asphalt Pavements. RILEM State-of-the-Art Reports, 2013, , 303-360.	0.7	51
11	Influence of polymer modification on asphalt binder dynamic and steady flow viscosities. Construction and Building Materials, 2014, 71, 435-443.	7.2	46
12	Structural response of grid-reinforced bituminous pavements. Materials and Structures/Materiaux Et Constructions, 2014, 47, 1391-1408.	3.1	39
13	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
14	Chemical and rheological analysis of modified bitumens blended with "artificial reclaimed bitumen". Construction and Building Materials, 2014, 63, 1-10.	7.2	38
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	Improved durability of recycled porous asphalt. Construction and Building Materials, 2013, 48, 755-763.	7.2	36
17	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
18	Tribological characterization of bituminous binders with Warm Mix Asphalt additives. Construction and Building Materials, 2018, 172, 309-318.	7.2	31

#	ARTICLE	IF	CITATIONS
19	Statistical investigation of two different interlayer shear test methods. Materials and Structures/Materiaux Et Constructions, 2009, 42, 705-714.	3.1	30
20	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
21	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
22	Full-depth reclamation for the rehabilitation of local roads: a case study. International Journal of Pavement Engineering, 2014, 15, 191-201.	4.4	25
23	State of the art of tribological tests for bituminous binders. Construction and Building Materials, 2017, 157, 718-728.	7.2	22
24	Comparing the Field and Laboratory Curing Behaviour of Cold Recycled Asphalt Mixtures for Binder Courses. Materials, 2020, 13, 4697.	2.9	19
25	Analysis of shear-torque fatigue test for bituminous pavement interlayers. Construction and Building Materials, 2020, 254, 119309.	7.2	15
26	Asphalt Binder Modification with Plastomeric Compounds Containing Recycled Plastics and Graphene. Materials, 2022, 15, 516.	2.9	15
27	Time-temperature superposition principle for interlayer shear strength of bituminous pavements. Road Materials and Pavement Design, 2017, 18, 12-25.	4.0	14
28	Innovative Testing Protocol for Evaluation of Binder-Reclaimed Aggregate Bond Strength. Transportation Research Record, 2014, 2444, 63-70.	1.9	13
29	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
30	Shear failure characterization of time-temperature sensitive interfaces. Mechanics of Time-Dependent Materials, 2016, 20, 405-419.	4.4	11
31	Comparison between bitumen aged in laboratory and recovered from HMA and WMA lab mixtures. Materials and Structures/Materiaux Et Constructions, 2018, 51, 1.	3.1	11
32	Advanced Interface Testing of Grids in Asphalt Pavements. RILEM State-of-the-Art Reports, 2018, , 127-202.	0.7	10
33	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
34	Fatigue Rheological Characterization of Polymer-Modified Bitumens and Mastics. RILEM Bookseries, 2016, , 655-666.	0.4	8
35	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
36	Comparison of Short Term Laboratory Ageing on Virgin and Recovered Binder from HMA/WMA Mixtures. RILEM Bookseries, 2019, , 21-26.	0.4	5

#	ARTICLE	IF	CITATIONS
37	Recommendations of RILEM TC 252-CMB: relationship between laboratory short-term aging and performance of asphalt binder. Materials and Structures/Materiaux Et Constructions, 2019, 52, 1.	3.1	4
38	Recommendations of RILEM TC 252-CMB on the Effect of Short Term Aging Temperature on Long Term Properties of Asphalt Binder. RILEM Bookseries, 2019, , 44-49.	0.4	2
39	Geocomposite-Reinforcement of Polymer-Modified Asphalt Systems. RILEM Bookseries, 2016, , 383-395.	0.4	1
40	Research and Engineering for Resilient Infrastructures and Environment Protection. , 2019, , 311-324.		0
41	Sustainable Engineering for Resilient Built and Natural Environments. , 2019, , 297-310.		0