

Gilda Ferrotti

List of Publications by Year in descending order

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41
papers

1,249
citations

346980

22
h-index

406436

35
g-index

44
all docs

44
docs citations

44
times ranked

822
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced Testing and Characterization of Interlayer Shear Resistance. Transportation Research Record, 2005, 1929, 69-78.	1.0	82
2	Performance evaluation of a cold-recycled mixture containing high percentage of reclaimed asphalt. Road Materials and Pavement Design, 2013, 14, 149-161.	2.0	75
3	Renewable materials in bituminous binders and mixtures: Speculative pretext or reliable opportunity?. Resources, Conservation and Recycling, 2019, 144, 209-222.	5.3	73
4	Experimental evaluation of the influence of surface coating on fiberglass geogrid performance in asphalt pavements. Geotextiles and Geomembranes, 2012, 34, 11-18.	2.3	72
5	Experimental characterization of high-performance fiber-reinforced cold mix asphalt mixtures. Construction and Building Materials, 2014, 57, 117-125.	3.2	66
6	Advanced Testing and Characterization of Interlayer Shear Resistance. Transportation Research Record, 2005, 1929, 69-78.	1.0	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.	1.3	58
8	A strategic laboratory approach for the performance investigation of geogrids in flexible pavements. Construction and Building Materials, 2011, 25, 2343-2348.	3.2	53
9	Laboratory characterisation and field validation of geogrid-reinforced asphalt pavements. Road Materials and Pavement Design, 2013, 14, 17-35.	2.0	53
10	Mechanical Testing of Interlayer Bonding in Asphalt Pavements. RILEM State-of-the-Art Reports, 2013, , 303-360.	0.3	51
11	Influence of polymer modification on asphalt binder dynamic and steady flow viscosities. Construction and Building Materials, 2014, 71, 435-443.	3.2	46
12	Structural response of grid-reinforced bituminous pavements. Materials and Structures/Materiaux Et Constructions, 2014, 47, 1391-1408.	1.3	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.	3.3	39
14	Chemical and rheological analysis of modified bitumens blended with "artificial reclaimed bitumen". Construction and Building Materials, 2014, 63, 1-10.	3.2	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.	2.0	38
16	Improved durability of recycled porous asphalt. Construction and Building Materials, 2013, 48, 755-763.	3.2	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.	3.2	36
18	Tribological characterization of bituminous binders with Warm Mix Asphalt additives. Construction and Building Materials, 2018, 172, 309-318.	3.2	31

#	ARTICLE	IF	CITATIONS
19	Statistical investigation of two different interlayer shear test methods. <i>Materials and Structures/Materiaux Et Constructions</i> , 2009, 42, 705-714.	1.3	30
20	Investigating the "circular propensity" of road bio-binders: Effectiveness in hot recycling of reclaimed asphalt and recyclability potential. <i>Journal of Cleaner Production</i> , 2020, 255, 120193.	4.6	30
21	Effect of warm mix asphalt chemical additives on the mechanical performance of asphalt binders. <i>Materials and Structures/Materiaux Et Constructions</i> , 2017, 50, 1.	1.3	28
22	Full-depth reclamation for the rehabilitation of local roads: a case study. <i>International Journal of Pavement Engineering</i> , 2014, 15, 191-201.	2.2	25
23	State of the art of tribological tests for bituminous binders. <i>Construction and Building Materials</i> , 2017, 157, 718-728.	3.2	22
24	Comparing the Field and Laboratory Curing Behaviour of Cold Recycled Asphalt Mixtures for Binder Courses. <i>Materials</i> , 2020, 13, 4697.	1.3	19
25	Analysis of shear-torque fatigue test for bituminous pavement interlayers. <i>Construction and Building Materials</i> , 2020, 254, 119309.	3.2	15
26	Asphalt Binder Modification with Plastomeric Compounds Containing Recycled Plastics and Graphene. <i>Materials</i> , 2022, 15, 516.	1.3	15
27	Time-temperature superposition principle for interlayer shear strength of bituminous pavements. <i>Road Materials and Pavement Design</i> , 2017, 18, 12-25.	2.0	14
28	Innovative Testing Protocol for Evaluation of Binder-Reclaimed Aggregate Bond Strength. <i>Transportation Research Record</i> , 2014, 2444, 63-70.	1.0	13
29	Monitoring the evolution of the structural properties of warm recycled pavements with Falling Weight Deflectometer and laboratory tests. <i>Road Materials and Pavement Design</i> , 2021, 22, S69-S82.	2.0	12
30	Shear failure characterization of time-temperature sensitive interfaces. <i>Mechanics of Time-Dependent Materials</i> , 2016, 20, 405-419.	2.3	11
31	Comparison between bitumen aged in laboratory and recovered from HMA and WMA lab mixtures. <i>Materials and Structures/Materiaux Et Constructions</i> , 2018, 51, 1.	1.3	11
32	Advanced Interface Testing of Grids in Asphalt Pavements. <i>RILEM State-of-the-Art Reports</i> , 2018, , 127-202.	0.3	10
33	Asphalt mixture modification with a plastomeric compound containing recycled plastic: laboratory and field investigation. <i>Materials and Structures/Materiaux Et Constructions</i> , 2022, 55, 1.	1.3	10
34	Fatigue Rheological Characterization of Polymer-Modified Bitumens and Mastics. <i>RILEM Bookseries</i> , 2016, , 655-666.	0.2	8
35	Influence of chemical additives for warm mix asphalts on the short-term ageing of a plain bitumen. <i>Road Materials and Pavement Design</i> , 2019, 20, S34-S48.	2.0	6
36	Comparison of Short Term Laboratory Ageing on Virgin and Recovered Binder from HMA/WMA Mixtures. <i>RILEM Bookseries</i> , 2019, , 21-26.	0.2	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.	1.3	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.	0.2	2
39	Geocomposite-Reinforcement of Polymer-Modified Asphalt Systems. RILEM Bookseries, 2016, , 383-395.	0.2	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