

Filippo Giammaria Pratico

List of Publications by Year in descending order

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Version: 2024-02-01

105
papers

1,625
citations

279701

23
h-index

345118

36
g-index

115
all docs

115
docs citations

115
times ranked

1066
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar and Permeable Road: A Prototypical Study. RILEM Bookseries, 2022, , 1675-1680.	0.2	0
2	â€œNoisyâ€ issues in road acoustics: A white paper. , 2022, 2, 61-69.		2
3	Innovative smart road management systems in the urban context: Integrating smart sensors and miniaturized sensing systems. Structural Control and Health Monitoring, 2022, 29, .	1.9	1
4	An experimental method to design porous asphalts to account for surface requirements. Journal of Traffic and Transportation Engineering (English Edition), 2021, 8, 439-452.	2.0	9
5	Modelling pavement surface characteristics for noise prediction through Bailey-related indicators. International Journal of Pavement Research and Technology, 2021, 14, 222-231.	1.3	3
6	A method for bottom-up cracks healing via selective and deep microwave heating. Automation in Construction, 2021, 121, 103426.	4.8	16
7	Monitoring Road Acoustic and Mechanical Performance. Lecture Notes in Civil Engineering, 2021, , 594-602.	0.3	6
8	Predictive Monitoring and Maintenance of Transportation Infrastructures: Requirements for Delivering Sensing Data over 5G Networks. Lecture Notes in Civil Engineering, 2021, , 50-59.	0.3	0
9	Detecting Road Pavement Cracks Based on Acoustic Signature Analyses. Lecture Notes in Civil Engineering, 2021, , 437-446.	0.3	0
10	Pavement FRFs and noise: A theoretical and experimental investigation. Construction and Building Materials, 2021, 294, 123487.	3.2	12
11	The Prediction of Road Cracks through Acoustic Signature: Extended Finite Element Modeling and Experiments. Journal of Testing and Evaluation, 2021, 49, 20190209.	0.4	14
12	On the Dependence of Acoustic Pore Shape Factors on Porous Asphalt Volumetrics. Sustainability, 2021, 13, 11541.	1.6	2
13	Measuring the Sustainability of Transportation Infrastructures Through Comparative Life Cycle and Energy Assessment. Smart Innovation, Systems and Technologies, 2021, , 1491-1499.	0.5	1
14	Can sensor-based noise mapping be a proxy of PM and permeability mapping?. Noise Mapping, 2021, 8, 295-306.	0.7	0
15	Electric vehicles diffusion: changing pavement acoustic design?. Noise Mapping, 2021, 8, 281-294.	0.7	4
16	Investigation on Acoustic Versus Functional Characteristics of Porous Asphalt. Baltic Journal of Road and Bridge Engineering, 2021, 16, 212-239.	0.4	3
17	Prediction of surface texture for better performance of friction courses. Construction and Building Materials, 2020, 230, 116991.	3.2	13
18	Acoustic Impact of Electric Vehicles. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
19	Self-powered wireless IoT nodes for emergency management. , 2020, , .		1
20	Impact of Asphalt Mixture Specification Limits: A Theoretical Analysis. Journal of Materials in Civil Engineering, 2020, 32, .	1.3	1
21	Detection and Monitoring of Bottom-Up Cracks in Road Pavement Using a Machine-Learning Approach. Algorithms, 2020, 13, 81.	1.2	37
22	Environmental Sustainability and Energy Assessment of Bituminous Pavements Made with Unconventional Materials. Lecture Notes in Civil Engineering, 2020, , 123-132.	0.3	6
23	Energy and Environmental Life Cycle Assessment of Sustainable Pavement Materials and Technologies for Urban Roads. Sustainability, 2020, 12, 704.	1.6	79
24	Augmented Information Discovery using NFC Technology within a Platform for Disaster Monitoring. , 2020, , .		0
25	Sustainable Road Infrastructures Using Smart Materials, NDT, and FEM-Based Crack Prediction. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 3-14.	0.2	0
26	Sensor-based pavement diagnostic using acoustic signature for moduli estimation. International Journal of Pavement Research and Technology, 2020, 13, 573-580.	1.3	11
27	A life cycle scenario analysis of different pavement technologies for urban roads. Science of the Total Environment, 2019, 673, 585-593.	3.9	53
28	A Real-Time Decision Platform for the Management of Structures and Infrastructures. Electronics (Switzerland), 2019, 8, 1180.	1.8	30
29	A closer look at the locked-wheel pavement friction data in the ltp database for selected states. Cogent Engineering, 2019, 6, .	1.1	0
30	Surface properties of porous asphalt concretes: Time, position, and treatment impact. , 2019, , 624-633.		0
31	Comparing mother wavelet selection criteria for road pavements NDT monitoring. , 2019, , 618-623.		1
32	Ndt Platform For Structures Management And Decision Support In Emergency Situations. , 2019, , 473-482.		0
33	Asphalt mixtures modified with basalt fibres for surface courses. Construction and Building Materials, 2018, 170, 245-253.	3.2	70
34	Proposal of a Key Performance Indicator for Railway Track Based on LCC and RAMS Analyses. Journal of Construction Engineering and Management - ASCE, 2018, 144, 04017104.	2.0	30
35	Investigating the effect of geometric parameters influencing safety promotion and accident reduction (Case study: Bojnurd-Golestan National Park road). Cogent Engineering, 2018, 5, 1525812.	1.1	11
36	Photoluminescent Road Coatings for Open-Graded and Dense-Graded Asphalts: Theoretical and Experimental Investigation. Journal of Materials in Civil Engineering, 2018, 30, .	1.3	30

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37	Life cycle assessment of roads: Material and process related energy savings. Modelling, Measurement and Control C: Energetics, Chemistry, Earth, Environmental and Biomedical Problems, 2018, 79, 146-153.	0.1	13
38	Energy savings in transportation: Setting up an innovative SHM method. Mathematical Modelling of Engineering Problems, 2018, 5, 323-330.	0.3	13
39	Speed Limits and Pavement Friction: A Theoretical and Experimental Study. Open Transportation Journal, 2018, 12, 139-149.	0.4	5
40	Energy harvesting for IoT road monitoring systems. Instrumentation Measure Metrologie, 2018, 18, 605-623.	0.2	27
41	LCC-Based Appraisal of Ballasted and Slab Tracks: Limits and Potential. Baltic Journal of Road and Bridge Engineering, 2018, 13, 475-499.	0.4	6
42	Significance and reliability of absorption spectra of quiet pavements. Construction and Building Materials, 2017, 140, 274-281.	3.2	18
43	Rail operations in freight terminals: Safety issues and proposed methodology. , 2017, , .		0
44	Instrumented infrastructures for damage detection and management. , 2017, , .		19
45	Sensing road pavement health status through acoustic signals analysis. , 2017, , .		5
46	A new and simplified approach to assess the pavement surface micro- and macrotexture. Construction and Building Materials, 2017, 148, 476-483.	3.2	49
47	Metrics for Management of Asphalt Plant Sustainability. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	6
48	Assessment of shotblasting moving speed for pavement preservationâ€”a pilot-case study. , 2017, , 983-987.		1
49	Issues and Perspectives in Railway Management from a Sustainability Standpoint. DEStech Transactions on Engineering and Technology Research, 2017, , .	0.0	4
50	Recycling of polyethylene terephthalate (PET) plastic bottle wastes in bituminous asphaltic concrete. Cogent Engineering, 2016, 3, 1133480.	1.1	88
51	Experimental Investigation on Surface Performance and Acoustic Absorption. RILEM Bookseries, 2016, , 435-446.	0.2	5
52	Use of repeated load CBR test to characterize pavement granular materials. , 2016, , 965-974.		1
53	Issues and Perspectives in the Application of Different Pavement Design Methods to Life Cycle Cost Analysis. , 2016, , .		2
54	Three-Year Investigation on Hot and Cold Mixes With Rubber. , 2016, , .		3

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55	Real-time monitoring of the extended road network by utilising telematics technology. , 2016, , 1645-1656.		1
56	Comparing in-lab and on-site measurement of pavement acoustic absorption. , 2016, , 1001-1010.		0
57	Simple Equations for Cost of Premature Failure of Flexible Pavements in Low-Volume Roads. Transportation Research Record, 2015, 2474, 73-81.	1.0	1
58	A study on the dependence of PEMs acoustic properties on incidence angle. International Journal of Pavement Engineering, 2015, 16, 632-645.	2.2	15
59	A study on the relationship between mean texture depth and mean profile depth of asphalt pavements. Construction and Building Materials, 2015, 101, 72-79.	3.2	103
60	Lime and Cement Treatments for Low-Volume Roads. Transportation Research Record, 2015, 2473, 181-188.	1.0	2
61	Permeable Wearing Courses from Recycling Reclaimed Asphalt Pavement for Low-Volume Roads. Transportation Research Record, 2015, 2474, 65-72.	1.0	11
62	Macrotecture modeling and experimental validation for pavement surface treatments. Construction and Building Materials, 2015, 95, 658-666.	3.2	44
63	An experimental investigation into innovative pavements for city logistics. , 2015, , .		2
64	Pavement life cycle cost analysis for city logistics. WIT Transactions on the Built Environment, 2015, , .	0.0	2
65	VARIABILITY OF HMA CHARACTERISTICS AND ITS INFLUENCE ON PAY ADJUSTMENT. Journal of Civil Engineering and Management, 2014, 21, 119-130.	1.9	9
66	On the dependence of acoustic performance on pavement characteristics. Transportation Research, Part D: Transport and Environment, 2014, 29, 79-87.	3.2	64
67	Dependence of Volumetric Parameters of Hot-Mix Asphalts on Testing Methods. Journal of Materials in Civil Engineering, 2014, 26, 45-53.	1.3	18
68	New Road Surfaces: Logical Bases for Simple Quality-Related Pay Adjustments. Journal of Construction Engineering and Management - ASCE, 2013, 139, 04013020.	2.0	3
69	A study on volumetric versus surface properties of wearing courses. Construction and Building Materials, 2013, 38, 766-775.	3.2	39
70	Pavement Sustainability: Permeable Wearing Courses by Recycling Porous European Mixes. Journal of Architectural Engineering, 2013, 19, 186-192.	0.8	36
71	Sustainable Rehabilitation of Porous European Mixes. , 2012, , .		11
72	An application of the Multi-Criteria Decision Making analysis to a regional multi-airport system. Research in Transportation Business and Management, 2012, 4, 44-52.	1.6	37

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73	Trends and Issues in Mitigating Traffic Noise through Quiet Pavements. <i>Procedia, Social and Behavioral Sciences</i> , 2012, 53, 203-212.	0.5	60
74	Lime and Cement Treatments of Subgrades in Southern Italy: Facing Interports Issues and Challenges. <i>Procedia, Social and Behavioral Sciences</i> , 2012, 53, 389-398.	0.5	5
75	Influence of Dispersion and Location on Pay Adjustment in Construction Engineering. <i>Journal of Construction Engineering and Management - ASCE</i> , 2012, 138, 1125-1130.	2.0	9
76	Measurement of air void content in hot mix asphalts: Method and core diameter dependence. <i>Construction and Building Materials</i> , 2012, 26, 344-349.	3.2	16
77	Transport and traffic management by micro simulation models: operational use and performance of roundabouts. , 2012, , .		15
78	Improving infrastructure sustainability in suburban and urban areas: is porous asphalt the right answer? and how?. , 2012, , .		17
79	Quantifying the effect of present, past and oncoming alignment on the operating speeds of a two-lane rural road. <i>Baltic Journal of Road and Bridge Engineering</i> , 2012, 7, 181-190.	0.4	12
80	Improving safety and sustainability of urban transport surfaces through the recycling of reclaimed extinguishing powders. , 2012, , .		1
81	Comprehensive Life-Cycle Cost Analysis for Selection of Stabilization Alternatives for Better Performance of Low-Volume Roads. <i>Transportation Research Record</i> , 2011, 2204, 120-129.	1.0	61
82	In-lab and on-site measurements of hot mix asphalt density: Convergence and divergence hypotheses. <i>Construction and Building Materials</i> , 2011, 25, 1065-1071.	3.2	24
83	Pavement Life-Cycle Cost and Asphalt Binder Quality: Theoretical and Experimental Investigation. <i>Journal of Construction Engineering and Management - ASCE</i> , 2011, 137, 99-107.	2.0	40
84	Speed Distribution on Low-Volume Roads in Italy. <i>Transportation Research Record</i> , 2011, 2203, 79-84.	1.0	14
85	Factors affecting the environmental impact of pavement wear. <i>Transportation Research, Part D: Transport and Environment</i> , 2010, 15, 127-133.	3.2	28
86	Potential of fire extinguisher powder as a filler in bituminous mixes. <i>Journal of Hazardous Materials</i> , 2010, 173, 605-613.	6.5	25
87	Assessing Reliability and Potentiality of Nonnuclear Portable Devices for Asphalt Mixture Density Measurement. <i>Journal of Materials in Civil Engineering</i> , 2010, 22, 874-886.	1.3	9
88	Bitumen Quality, Pavement LCCA, and Contractor's Expectations. , 2010, , .		3
89	Geosynthetics and Pavement Life Cycle: An Analysis through the M-E PDG. , 2010, , .		1
90	Factors Affecting Variance and Bias of Non-Nuclear Density Gauges for Porous European Mixes and Densegraded Friction Courses. <i>Baltic Journal of Road and Bridge Engineering</i> , 2009, 4, 99-107.	0.4	20

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91	Flow of water in rigid solids: Development and experimental validation of models for tests on asphalts. Computers and Mathematics With Applications, 2008, 55, 235-244.	1.4	10
92	Performance of Roads In Seismic Conditions: A Theoretical And Experimental Study. AIP Conference Proceedings, 2008, , .	0.3	0
93	Road Surfaces And Earthquake Engineering: A Theoretical And Experimental Study. AIP Conference Proceedings, 2008, , .	0.3	0
94	Permeability and Volumetrics of Porous Asphalt Concrete. Road Materials and Pavement Design, 2007, 8, 799-817.	2.0	34
95	Quality and timeliness in highway construction contracts: a new acceptance model based on both mechanical and surface performance of flexible pavements. Construction Management and Economics, 2007, 25, 305-313.	1.8	26
96	A Theoretical and Experimental Study of the Effects on Mixes Added with RAP Caused by Superpave Restricted Zone Violation. Road Materials and Pavement Design, 2004, 5, 73-91.	2.0	10
97	A Theoretical and Experimental Study of the Effects on Mixes Added with RAP Caused by Superpave Restricted Zone Violation. Road Materials and Pavement Design, 2004, 5, 73-91.	2.0	2
98	Roads and Loudness: a More Comprehensive Approach. Road Materials and Pavement Design, 2001, 2, 359-377.	2.0	23
99	Roads and Loudness: a More Comprehensive Approach. Road Materials and Pavement Design, 2001, 2, 359-377.	2.0	0
100	Recycling PEMs back to TLPAs: Is that Possible Notwithstanding RAP Variability?. Applied Mechanics and Materials, 0, 253-255, 376-384.	0.2	9
101	Effect of Asphalt Mix Properties on Surface Texture: An Experimental Study. Applied Mechanics and Materials, 0, 368-370, 1056-1060.	0.2	12
102	An Integrative Approach RAMS-LCC to Support Decision on Design and Maintenance of Rail Track. , 0, , .		1
103	THE STUDY OF ROAD PAVEMENT PERFORMANCE THROUGH IMPACT HAMMER TESTS. , 0, , .		2
104	INTELLIGENT TRANSPORT SYSTEMS EXPLOITING SMART WIRELESS SENSING NODES. , 0, , .		0
105	Particulate Matter from Non-exhaust Sources. , 0, , .		1