Filippo Giammaria Pratico

List of Publications by Year
in descending order

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	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
2	Recycling of polyethylene terephthalate (PET) plastic bottle wastes in bituminous asphaltic concrete. Cogent Engineering, 2016, 3, 1133480.	1.1	88
3	Energy and Environmental Life Cycle Assessment of Sustainable Pavement Materials and Technologies for Urban Roads. Sustainability, 2020, 12, 704.	1.6	79
4	Asphalt mixtures modified with basalt fibres for surface courses. Construction and Building Materials, 2018, 170, 245-253.	3.2	70
5	On the dependence of acoustic performance on pavement characteristics. Transportation Research, Part D: Transport and Environment, 2014, 29, 79-87.	3.2	64
6	Comprehensive Life-Cycle Cost Analysis for Selection of Stabilization Alternatives for Better Performance of Low-Volume Roads. Transportation Research Record, 2011, 2204, 120-129.	1.0	61
7	Trends and Issues in Mitigating Traffic Noise through Quiet Pavements. Procedia, Social and Behavioral Sciences, 2012, 53, 203-212.	0.5	60
8	A life cycle scenario analysis of different pavement technologies for urban roads. Science of the Total Environment, 2019, 673, 585-593.	3.9	53
9	A new and simplified approach to assess the pavement surface micro- and macrotexture. Construction and Building Materials, 2017, 148, 476-483.	3.2	49
10	Macrotexture modeling and experimental validation for pavement surface treatments. Construction and Building Materials, 2015, 95, 658-666.	3.2	44
11	Pavement Life-Cycle Cost and Asphalt Binder Quality: Theoretical and Experimental Investigation. Journal of Construction Engineering and Management - ASCE, 2011, 137, 99-107.	2.0	40
12	A study on volumetric versus surface properties of wearing courses. Construction and Building Materials, 2013, 38, 766-775.	3.2	39
13	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
14	Detection and Monitoring of Bottom-Up Cracks in Road Pavement Using a Machine-Learning Approach. Algorithms, 2020, 13, 81.	1.2	37
15	Pavement Sustainability: Permeable Wearing Courses by Recycling Porous European Mixes. Journal of Architectural Engineering, 2013, 19, 186-192.	0.8	36
16	Permeability and Volumetrics of Porous Asphalt Concrete. Road Materials and Pavement Design, 2007, 8, 799-817.	2.0	34
17	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
18	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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19	A Real-Time Decision Platform for the Management of Structures and Infrastructures. Electronics (Switzerland), 2019, 8, 1180.	1.8	30
20	Factors affecting the environmental impact of pavement wear. Transportation Research, Part D: Transport and Environment, 2010, 15, 127-133.	3.2	28
21	Energy harvesting for IoT road monitoring systems. Instrumentation Mesure Metrologie, 2018, 18, 605-623.	0.2	27
22	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
23	Potential of fire extinguisher powder as a filler in bituminous mixes. Journal of Hazardous Materials, 2010, 173, 605-613.	6.5	25
24	In-lab and on-site measurements of hot mix asphalt density: Convergence and divergence hypotheses. Construction and Building Materials, 2011, 25, 1065-1071.	3.2	24
25	Roads and Loudness: a More Comprehensive Approach. Road Materials and Pavement Design, 2001, 2, 359-377.	2.0	23
26	Factors Affecting Variance and Bias of Non-Nuclear Density Gauges for Porous European Mixes and Densegraded Friction Courses. Baltic Journal of Road and Bridge Engineering, 2009, 4, 99-107.	0.4	20
27	Instrumented infrastructures for damage detection and management. , 2017, , .		19
28	Dependence of Volumetric Parameters of Hot-Mix Asphalts on Testing Methods. Journal of Materials in Civil Engineering, 2014, 26, 45-53.	1.3	18
29	Significance and reliability of absorption spectra of quiet pavements. Construction and Building Materials, 2017, 140, 274-281.	3.2	18
30	Improving infrastructure sustainability in suburban and urban areas: is porous asphalt the right answer? and how?. , 2012, , .		17
31	Measurement of air void content in hot mix asphalts: Method and core diameter dependence. Construction and Building Materials, 2012, 26, 344-349.	3.2	16
32	A method for bottom-up cracks healing via selective and deep microwave heating. Automation in Construction, 2021, 121, 103426.	4.8	16
33	A study on the dependence of PEMs acoustic properties on incidence angle. International Journal of Pavement Engineering, 2015, 16, 632-645.	2.2	15
34	Transport and traffic management by micro simulation models: operational use and performance of roundabouts. , 2012, , .		15
35	Speed Distribution on Low-Volume Roads in Italy. Transportation Research Record, 2011, 2203, 79-84.	1.0	14
36	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

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37	Prediction of surface texture for better performance of friction courses. Construction and Building Materials, 2020, 230, 116991.	3.2	13
38	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
39	Energy savings in transportation: Setting up an innovative SHM method. Mathematical Modelling of Engineering Problems, 2018, 5, 323-330.	0.3	13
40	Effect of Asphalt Mix Properties on Surface Texture: An Experimental Study. Applied Mechanics and Materials, 0, 368-370, 1056-1060.	0.2	12
41	Pavement FRFs and noise: A theoretical and experimental investigation. Construction and Building Materials, 2021, 294, 123487.	3.2	12
42	Quantifying the effect of present, past and oncoming alignment on the operating speeds of a two-lane rural road. Baltic Journal of Road and Bridge Engineering, 2012, 7, 181-190.	0.4	12
43	Sustainable Rehabilitation of Porous European Mixes. , 2012, , .		11
44	Permeable Wearing Courses from Recycling Reclaimed Asphalt Pavement for Low-Volume Roads. Transportation Research Record, 2015, 2474, 65-72.	1.0	11
45	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
46	Sensor-based pavement diagnostic using acoustic signature for moduli estimation. International Journal of Pavement Research and Technology, 2020, 13, 573-580.	1.3	11
47	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
48	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
49	Assessing Reliability and Potentiality of Nonnuclear Portable Devices for Asphalt Mixture Density Measurement. Journal of Materials in Civil Engineering, 2010, 22, 874-886.	1.3	9
50	Recycling PEMs back to TLPAs: Is that Possible Notwithstanding RAP Variability?. Applied Mechanics and Materials, 0, 253-255, 376-384.	0.2	9
51	Influence of Dispersion and Location on Pay Adjustment in Construction Engineering. Journal of Construction Engineering and Management - ASCE, 2012, 138, 1125-1130.	2.0	9
52	VARIABILITY OF HMA CHARACTERISTICS AND ITS INFLUENCE ON PAY ADJUSTMENT. Journal of Civil Engineering and Management, 2014, 21, 119-130.	1.9	9
53	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
54	Metrics for Management of Asphalt Plant Sustainability. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	6

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55	Monitoring Road Acoustic and Mechanical Performance. Lecture Notes in Civil Engineering, 2021, , 594-602.	0.3	6
56	Environmental Sustainability and Energy Assessment of Bituminous Pavements Made with Unconventional Materials. Lecture Notes in Civil Engineering, 2020, , 123-132.	0.3	6
57	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
58	Lime and Cement Treatments of Subgrades in Southern Italy: Facing Interports Issues and Challenges. Procedia, Social and Behavioral Sciences, 2012, 53, 389-398.	0.5	5
59	Experimental Investigation on Surface Performance and Acoustic Absorption. RILEM Bookseries, 2016, , 435-446.	0.2	5
60	Sensing road pavement health status through acoustic signals analysis. , 2017, , .		5
61	Speed Limits and Pavement Friction: A Theoretical and Experimental Study. Open Transportation Journal, 2018, 12, 139-149.	0.4	5
62	Acoustic Impact of Electric Vehicles. , 2020, , .		4
63	Issues and Perspectives in Railway Management from a Sustainability Standpoint. DEStech Transactions on Engineering and Technology Research, 2017, , .	0.0	4
64	Electric vehicles diffusion: changing pavement acoustic design?. Noise Mapping, 2021, 8, 281-294.	0.7	4
65	Bitumen Quality, Pavement LCCA, and Contractor's Expectations. , 2010, , .		3
66	New Road Surfaces: Logical Bases for Simple Quality-Related Pay Adjustments. Journal of Construction Engineering and Management - ASCE, 2013, 139, 04013020.	2.0	3
67	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
68	Three-Year Investigation on Hot and Cold Mixes With Rubber. , 2016, , .		3
69	Investigation on Acoustic Versus Functional Characteristics of Porous Asphalt. Baltic Journal of Road and Bridge Engineering, 2021, 16, 212-239.	0.4	3
70	Lime and Cement Treatments for Low-Volume Roads. Transportation Research Record, 2015, 2473, 181-188.	1.0	2
71	An experimental investigation into innovative pavements for city logistics. , 2015, , .		2
72	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

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73	Issues and Perspectives in the Application of Different Pavement Design Methods to Life Cycle Cost Analysis. , 2016, , .		2
74	On the Dependence of Acoustic Pore Shape Factors on Porous Asphalt Volumetrics. Sustainability, 2021, 13, 11541.	1.6	2
75	Pavement life cycle cost analysis for city logistics. WIT Transactions on the Built Environment, 2015, , .	0.0	2
76	THE STUDY OF ROAD PAVEMENT PERFORMANCE THROUGH IMPACT HAMMER TESTS. , 0, , .		2
77	â€œNoisyâ€•issues in road acoustics: A white paper. , 2022, 2, 61-69.		2
78	Geosynthetics and Pavement Life Cycle: An Analysis through the M-E PDG. , 2010, , .		1
79	Simple Equations for Cost of Premature Failure of Flexible Pavements in Low-Volume Roads. Transportation Research Record, 2015, 2474, 73-81.	1.0	1
80	Self-powered wireless IoT nodes for emergency management. , 2020, , .		1
81	Impact of Asphalt Mixture Specification Limits: A Theoretical Analysis. Journal of Materials in Civil Engineering, 2020, 32, .	1.3	1
82	Assessment of shotblasting moving speed for pavement preservationâ€"a pilot-case study. , 2017, , 983-987.		1
83	Use of repeated load CBR test to characterize pavement granular materials. , 2016, , 965-974.		1
84	Improving safety and sustainability of urban transport surfaces through the recycling of reclaimed extinguishing powders. , 2012, , .		1
85	Real-time monitoring of the extended road network by utilising telematics technology. , 2016, , 1645-1656.		1
86	An Integrative Approach RAMS-LCC to Support Decision on Design and Maintenance of Rail Track. , 0, , .		1
87	Comparing mother wavelet selection criteria for road pavements NDT monitoring. , 2019, , 618-623.		1
88	Particulate Matter from Non-exhaust Sources. , 0, , .		1
89	Measuring the Sustainability of Transportation Infrastructures Through Comparative Life Cycle and Energy Assessment. Smart Innovation, Systems and Technologies, 2021, , 1491-1499.	0.5	1
90	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

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91	Performance of Roads In Seismic Conditions: A Theoretical And Experimental Study. AIP Conference Proceedings, 2008, , .	0.3	0
92	Road Surfaces And Earthquake Engineering: A Theoretical And Experimental Study. AIP Conference Proceedings, 2008, , .	0.3	0
93	Rail operations in freight terminals: Safety issues and proposed methodology. , 2017, , .		0
94	A closer look at the locked-wheel pavement friction data in the ltpp database for selected states. Cogent Engineering, 2019, 6, .	1.1	0
95	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
96	Detecting Road Pavement Cracks Based on Acoustic Signature Analyses. Lecture Notes in Civil Engineering, 2021, , 437-446.	0.3	0
97	Solar and Permeable Road: A Prototypical Study. RILEM Bookseries, 2022, , 1675-1680.	0.2	0
98	Roads and Loudness: a More Comprehensive Approach. Road Materials and Pavement Design, 2001, 2, 359-377.	2.0	0
99	Comparing in-lab and on-site measurement of pavement acoustic absorption. , 2016, , 1001-1010.		0
100	Surface properties of porous asphalt concretes: Time, position, and treatment impact. , 2019, , 624-633.		0
101	Ndt Platform For Structures Management And Decision Support In Emergency Situations. , 2019, , 473-482.		0
102	Augmented Information Discovery using NFC Technology within a Platform for Disaster Monitoring. , 2020, , .		0
103	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
104	INTELLIGENT TRANSPORT SYSTEMS EXPLOITING SMART WIRELESS SENSING NODES. , 0, , .		0
105	Can sensor-based noise mapping be a proxy of PM and permeability mapping?. Noise Mapping, 2021, 8, 295-306.	0.7	0