Ezio Santagata

List of Publications by Year
in descending order

62 papers	1,556 citations	393982 19 h-index	329751 37 g-index
66 all docs	66 docs citations	66 times ranked	1217 citing authors

#	Article	IF	Citations
1	Life cycle assessment applied to bituminous mixtures containing recycled materials: Crumb rubber and reclaimed asphalt pavement. Resources, Conservation and Recycling, 2017, 117, 204-212.	5.3	167
2	Rheological Characterization of Bituminous Binders Modified with Carbon Nanotubes. Procedia, Social and Behavioral Sciences, 2012, 53, 546-555.	0.5	124
3	A preliminary investigation into the physical and chemical properties of biomass ashes used as aggregate fillers for bituminous mixtures. Waste Management, 2013, 33, 1906-1917.	3.7	92
4	Advanced Testing and Characterization of Interlayer Shear Resistance. Transportation Research Record, 2005, 1929, 69-78.	1.0	82
5	Rheological characterization of xanthan suspensions of nanoscale iron for injection in porous media. Journal of Hazardous Materials, 2011, 185, 598-605.	6.5	81
6	Fatigue and healing properties of nano-reinforced bituminous binders. International Journal of Fatigue, 2015, 80, 30-39.	2.8	80
7	Temperature effects on the shear behaviour of tack coat emulsions used in flexible pavements. International Journal of Pavement Engineering, 2005, 6, 39-46.	2.2	66
8	Characterization of crumb rubber from end-of-life tyres for paving applications. Waste Management, 2015, 45, 161-170.	3.7	66
9	Advanced Testing and Characterization of Interlayer Shear Resistance. Transportation Research Record, 2005, 1929, 69-78.	1.0	66
10	Fatigue properties of bituminous binders reinforced with carbon nanotubes. International Journal of Pavement Engineering, 2015, 16, 80-90.	2.2	57
11	Evaluation of the anti-rutting potential of polymer-modified binders by means of creep-recovery shear tests. Materials and Structures/Materiaux Et Constructions, 2013, 46, 1673-1682.	1.3	53
12	Evaluation of self healing properties of bituminous binders taking into account steric hardening effects. Construction and Building Materials, 2013, 41, 60-67.	3.2	51
13	Effect of sonication on high temperature properties of bituminous binders reinforced with nano-additives. Construction and Building Materials, 2015, 75, 395-403.	3.2	46
14	Assessment of gaseous emissions produced on site by bituminous mixtures containing crumb rubber. Construction and Building Materials, 2014, 67, 291-296.	3.2	28
15	Fatigue and healing properties of bituminous mastics reinforced with nano-sized additives. Mechanics of Time-Dependent Materials, 2016, 20, 367-387.	2.3	26
16	A novel procedure for the evaluation of anti-rutting potential of asphalt binders. International Journal of Pavement Engineering, 2015, 16, 287-296.	2.2	25
17	Triaxial Testing for the Short Term Evaluation of Cold-Recycled Bituminous Mixtures. Road Materials and Pavement Design, 2010, 11, 123-147.	2.0	24
18	The use of fractional calculus to model the experimental creep-recovery behavior of modified bituminous binders. Materials and Structures/Materiaux Et Constructions, 2016, 49, 45-55.	1.3	23

#	Article	IF	Citations
19	Effect of colloidal instability on the rheological and fatigue properties of asphalt binders. Construction and Building Materials, 2021, 281, 122563.	3.2	21
20	Use of vitrified bottom ashes of municipal solid waste incinerators in bituminous mixtures in substitution of natural sands. Advances in Applied Ceramics, 2009, 108, 33-43.	0.6	20
21	Evaluation of potential gaseous emissions of asphalt rubber bituminous mixtures. Proposal of a new laboratory test procedure. Construction and Building Materials, 2016, 113, 870-879.	3.2	20
22	Effect of SBS molecular structure on the rheological properties of ternary nanomodified bituminous binders. Construction and Building Materials, 2019, 222, 183-192.	3.2	19
23	Analysis of bitumenâ€“crumb rubber affinity for the formulation of rubberized dry mixtures. Materials and Structures/Materiaux Et Constructions, 2016, 49, 1947-1954.	1.3	18
24	Controlled low-strength materials for pavement foundations in road tunnels: feasibility study and recommendations. Materials and Structures/Materiaux Et Constructions, 2019, 52, 1.	1.3	16
25	Performance of New Materials for Aircraft Arrestor Beds. Transportation Research Record, 2010, 2177, 124-131.	1.0	15
26	Bituminous-based nanocomposites with improved high-temperature properties. Composites Part B: Engineering, 2016, 99, 9-16.	5.9	15
27	Investigating cohesive healing of asphalt binders by means of a dissipated energy approach. International Journal of Pavement Research and Technology, 2017, 10, 403-409.	1.3	15
28	Evaluation of healing potential of bituminous binders using a viscoelastic continuum damage approach. Construction and Building Materials, 2018, 184, 344-350.	3.2	14
29	Effects of Nano-sized Additives on the High-Temperature Properties of Bituminous Binders: A Comparative Study. , 2013, , 297-309.		13
30	Cost analysis and environmental assessment of recycling paint sludge in asphalt pavements. Environmental Science and Pollution Research, 2021, 28, 24628-24638.	2.7	13
31	Rheological Characterization of Sludge Coming from a Wastewater Treatment Plant. American Journal of Environmental Sciences, 2010, 6, 329-337.	0.3	12
32	Low-temperature properties of bituminous nanocomposites for road applications. Construction and Building Materials, 2018, 171, 397-403.	3.2	11
33	Fractional Viscoelastic Modeling of Antirutting Response of Bituminous Binders. Journal of Engineering Mechanics - ASCE, 2017, 143, .	1.6	10
34	Correlating creep properties of bituminous binders with anti-rutting performance of corresponding mixtures. International Journal of Pavement Research and Technology, 2017, 10, 38-44.	1.3	10
35	Reuse of paint sludge in road pavements: Technological and environmental issues. Waste Management and Research, 2018, 36, 1023-1028.	2.2	10
36	Mix design and mechanical characterization of self-compacting cement-bound mixtures for paving applications. Construction and Building Materials, 2019, 229, 116894.	3.2	10

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37	Storage Stability of Bituminous Binders Reinforced with Nano-Additives. RILEM Bookseries, 2016, , 75-87.	0.2	9
38	Rheological characterization and performance-related evaluation of paint sludge modified binders. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1.	1.3	9
39	A new approach for the evaluation of timeâ€“temperature superposition effects on the self-healing of bituminous binders. Construction and Building Materials, 2021, 287, 122987.	3.2	9
40	Impact of nanosized additives on the fatigue damage behaviour of asphalt mixtures. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 2738-2746.	1.7	8
41	Performance-Related Characterization of Fluidized Thermal Backfills Containing Recycled Components. Waste and Biomass Valorization, 2020, 11, 5393-5404.	1.8	8
42	Design and Construction of a Full-Scale Test Section with Asphalt Rubber Gap-Graded Wearing Course Mixture. Procedia, Social and Behavioral Sciences, 2012, 53, 524-534.	0.5	7
43	Effect of Anti-Icing Chemicals on Stripping of Asphalt Concrete Mixtures for Airport Runway Wearing Courses. , 2013, , .		7
44	Experimental Investigation on the Combined Effects of Physical Hardening and Chemical Ageing on Low Temperature Properties of Bituminous Binders. RILEM Bookseries, 2016, , 631-641.	0.2	7
45	Experimental Investigation on the Use of Waste Elastomeric Polymers for Bitumen Modification. Applied Sciences (Switzerland), 2020, 10, 2671.	1.3	6
46	Ageing effects on the linear and nonlinear viscoelasticity of bituminous binders. Road Materials and Pavement Design, 2021, 22, S37-S50.	2.0	6
47	Experimental Evaluation and Modeling of Physical Hardening in Asphalt Binders. Materials, 2022, 15, 19.	1.3	6
48	Performance-Related Characterization of Bituminous Binders and Mixtures Containing Natural Asphalt. Procedia, Social and Behavioral Sciences, 2012, 53, 535-545.	0.5	5
49	Fatigue properties of nano-reinforced bituminous mixtures: A viscoelastic continuum damage approach. International Journal of Pavement Research and Technology, 2018, , .	1.3	5
50	Determination of Crumb Rubber Content of Asphalt Rubber Binders. Journal of Materials in Civil Engineering, 2018, 30, 04018041.	1.3	4
51	Performance-Related Assessment of the Potential Use of Sawing Sludge in Cementitious Fluidized Thermal Backfills. Applied Sciences (Switzerland), 2020, 10, 8243.	1.3	4
52	A novel methodology for the evaluation of low temperature failure properties of asphalt binders. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1.	1.3	4
53	Non- petroleum- Based Binders for Paving Applications: Rheological and Chemical Investigation on Ageing Effects. Lecture Notes in Civil Engineering, 2020, , 67-76.	0.3	4
54	Self-compacting cement-bound pavement foundations for road tunnels: performance assessment in field trials. International Journal of Pavement Engineering, 2020, , 1-18.	2.2	3

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55	Comparative Evaluation of Different Methods for Assessing the Glass Transition Temperature of Bituminous Binders. RILEM Bookseries, 2022, , 405-411.	0.2	3
56	Triaxial Testing for the Short Term Evaluation of Cold-Recycled Bituminous Mixtures. Road Materials and Pavement Design, 2010, 11, 123-147.	2.0	3
57	Investigating the effect of temperature on self-healing properties of neat and polymer-modified bituminous binders. Road Materials and Pavement Design, 2022, 23, 2-15.	2.0	3
58	Performance Assessment of Rubberized Mixtures Containing Reclaimed Asphalt and a Viscosity Reduction Additive. Lecture Notes in Civil Engineering, 2020, , 457-467.	0.3	3
59	A Sustainable Cold-Recycled Solution for the Surface Finishing of Unpaved Rural Roads. Materials, 2022, 15, 3920.	1.3	3
60	Performance-based assessment of rutting resistance of asphalt mixes designed for hot climate regions. International Journal of Pavement Engineering, 2020, , 1-12.	2.2	2
61	Test Procedures for Advanced Characterization of Bituminous Binders Employed for Pavement Construction in Public Works Authority Road Projects - State of Qatar. , 2020, , .		2
62	Investigating the influence of fine RAP on bituminous mixtures at the mastic scale: viscoelastic analyses and micromechanical modelling. International Journal of Pavement Engineering, 0, , 1-11.	2.2	1