

PERSONAL DATA

Born in Ruti (Switzerland), January 1st 1976
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CURRENT POSITION

Full Professor, Politecnico di Torino, Turin, Italy

EDUCATION

2005: PhD in Structures and Infrastructures cum laude, Università Politecnica delle Marche, Ancona, Italy

2001: M.S. in Civil Engineering cum laude, Politecnico di Torino, Turin, Italy

ACADEMIC EXPERIENCE AND CAREER

2018: Visiting Research Scholar, Lyles School of Civil Engineering, Purdue University, West Lafayette, IN

2017: National Scientific Qualification for Full Professor Position

2013-present: Lecturer - TTPU University, Tashkent, Uzbekistan

2011-2020: Associate Professor, Politecnico di Torino, Turin, Italy

2007: Visiting Scholar, Modified Asphalt Research Center, University of Wisconsin, Madison, WI

2005-2011: Assistant Professor, Università di Genova, Genoa, Italy

TEACHING

Courses

2015-2016: Safety and Risk Management in Construction Sites for Civil Infrastructures, Politecnico di Torino

2013-current: Transportation Systems and Infrastructures, TTPU University of Tashkent (Uzbekistan)

2011-current: Construction of Roads, Railways and Airports, Politecnico di Torino

2011-2012: Railway and Airport Design, Politecnico di Torino

2006-2011: Road Construction, Università di Genova

Theses

2011-present: Supervisor and co-supervisor of more than 100 bachelor and master theses in the field of Civil Engineering, Politecnico di Torino

AREAS OF EXPERTISE

Design, construction and evaluation of pavements for transportation infrastructures

Characterization and modeling of paving materials

MAIN RESEARCH TOPICS

Fatigue and healing characterization of bituminous binders

Creep-recovery testing and modeling of polymer modified binders

Reinforcement of bituminous binders with nano-sized materials

Re-use of waste materials and by-products in bituminous binders and mixtures

ACADEMIC ROLES

2018-current: Head of the College of Civil Engineering, Politecnico di Torino

2018-current: Member of the College of Doctoral School in Civil and Environmental Engineering, Politecnico di Torino

2013: Member of the PhD School Admission Committee, Politecnico di Torino

2012-2018: Member of the Revision Working Group for Bachelor and Master Degree Programs in Civil Engineering, Politecnico di Torino

2012-current: Member of Research Committee of DIATI, Politecnico di Torino

2012-2015: Vice-coordinator of the College of Civil Engineering, Politecnico di Torino

PhD SUPERVISOR

Arianna Vercelli – PhD program in Environmental Engineering (XXIX Cycle) – Doctoral School of Politecnico di Torino

Fabrizio Miglietta – PhD program in Civil and Environmental Engineering (XXXIII Cycle) - Doctoral School of Politecnico di Torino

Leonardo Urbano - PhD program in Civil and Environmental Engineering (XXXIV Cycle) - Doctoral School of Politecnico di Torino

Chiara Tozzi - PhD program in Civil and Environmental Engineering (XXXIV Cycle) - Doctoral School of Politecnico di Torino

Nicholas La Macchia - PhD program in Civil and Environmental Engineering (XXXVIII Cycle) - Doctoral School of Politecnico di Torino

SCIENTIFIC AFFILIATION AND PROFESSIONAL ACTIVITIES

Member of SIIV (Italian Society of Transportation Infrastructures)

Member of RILEM (International Union of Laboratories and Expert in Construction Materials Systems and Structures)

Member of CIRS (Experimental Interuniversity Road and Airport Research Center)

Member of the Order of Professional Engineers of Province of Ragusa

Guest editor of Materials - Special Issue "Sustainable Asphalt Pavements: Materials, Design Methods, and Characterization Techniques", MDPI

Member of Editorial Advisory Committee of the Journal Materials and Structures, Springer

2017-present: Deputy chair of RILEM Technical Committee 278 CHA "Crack-healing of asphalt pavement materials".

2016-present: team leader of RILEM 278 CHA Task Group TG2 "Laboratory experimentation"

2013: Evaluator for the Norwegian-Estonian Research Cooperation Programme, Estonian Research Council, Tartu, Estonia

2011-2014: Member of the Steering Committee and Executive Board of SIIV

2023-current: President of SIIV

SEMINARS, TALKS AND PRESENTATIONS (selection)

Invited talk. "Proposal of a new test method for the performance characterization of modified bituminous binders". RILEM TC 206 – ATB Meeting, Ancona, Italy, 6 October 2005

Oral presentation. "Rheological and chemical Investigation for the evaluation of physical hardening of bituminous binders" (in Italian), XVI National SIIV Congress, Cosenza, Italy, 20-22 September 2006

Invited Seminar. "Advanced methods for the characterization of modified binders. An overview on current research activities in Italy", University of Wisconsin, Madison, WI, 24 September 2007

Oral Presentation. "Experimental investigation on the fatigue damage behaviour of modified bituminous binders and mastics". 77th AAPT (Association of Asphalt Paving Technologists) Annual Meeting, Philadelphia, PA, 27-30 April 2008

Invited talk. "Fatigue damage behaviour of modified bituminous binders and mastics". International Conference on Road Engineering Research: New perspective for the next generation of researchers, Ancona, Italy, 8 July 2008

Oral presentation. "Influence of physical hardening on the low-temperatures properties of bitumen and asphalt mixtures". 5th SIIV International Congress – Sustainability of Road Infrastructures, Rome, Italy, 29-31 October 2012

Oral presentation. "Effect of anti-icing chemicals on stripping of asphalt concrete mixtures for airport runway wearing courses". Airfield and Highway Pavement Conference, Transportation and Development Institute of ASCE, Los Angeles, CA, 9-12 June 2013.

Invited talk. "Control and acceptance of rubberized materials for asphalt pavement wearing courses". Workshop on Advances in Quality Control and Quality Assurance in Road Constructions, Turin, Italy, 19 March 2015.

Invited seminar. "Bituminous mixtures containing crumb rubber from end-of-life tyres for sustainable and high-performance pavements". Workshop on Innovative and High-performance bituminous mixtures, Order of Professional Engineers of Rome, Rome, Italy, 25 January 2016

Invited seminar. "Healing properties of bituminous binders". University of Waterloo, Canada, 24 May 2018

Invited seminar. "Recycling in asphalt pavements: use of crumb rubber from end-of-life tyres". ETN SMARTI Summer School, Palermo, Italy, 4 September 2018

Invited seminar. "Rubberized asphalt mixtures for sustainable road pavements", 16th International Summer School SIIV, Messina, Italy, 12 September 2018

Invited talk. "Bituminous binders reinforced with carbon nanotubes and nanoclays", High Performance Materials Symposium, Waterloo, Canada, 2 October 2019

Key note speech. "Experimental approaches for the evaluation of self-healing properties of bituminous binders: activities of TG2", International Workshop on Crack-Healing of Asphalt Pavement Materials; Beijing, China, 10 December 2019

ORGANIZING AND SCIENTIFIC COMMITTEES

Member of the Scientific Committee of the 10th EATA Conference, 2023, Gdansk, Poland

Member of the Scientific Committee of the International Symposium on Bituminous Materials ISBM 2020, Lyon, France

Organizer and chairman of the Summer school "RheoLab: from theory to application", Turin, Italy,

19-22 June 2018

Organizer and chairman of the workshop "RheoCom_EngiMat: Engineering the rheological properties of materials, Turin, Italy, 18 June 2018

Member of the International Scientific Committee of the European Asphalt Technology Association (EATA 2017), Zurich-Dubendorf, Switzerland, 12-14 June 2017

Member of the Scientific Committee of the International Congress on Transport Infrastructures and Systems (TIS), Rome, Italy, 10-12 April 2017

Co-Chairman of XIV SIIV Summer School "Advances in Design and Construction of Road Infrastructures", Turin, Italy, 13-16 September 2016

Member of the Scientific Committee of 6th Conference of the European Asphalt Technology Association (EATA 2015), Stockholm, Sweden, 15-17 June 2015

Chairman of the conference "State of art and future prospects in road and airport pavement engineering in Uzbekistan", Tashkent, Uzbekistan, 17 April 2013

Member of the Organizing Committee of the 6th International Conference on Maintenance and Rehabilitation of Pavements and Technological Control, Turin, Italy, 8-10 July 2009

AWARDS AND PRIZES

2017: Individual grant for basic research (Italian Ministry of Education, University and Research)

2016: Scientific productivity prize (Politecnico di Torino).

2015: Reward ex art.29, c.19 L.240/2010 (Bando 2013, DR. 301/2015 - Politecnico di Torino)

2015: Selected paper presented at International Rilem Symposium SIB2015. Paper entitled "Evaluation of rutting properties of bituminous binders by means of single shear creep-recovery (SSCR) tests and correlation with mixture performance" recommended by the paper evaluation committee of the conference for being submitted to the International Journal of Pavement Research and Technology (IJPRT).

2006 "Le Strade" award for the best paper presented at del XVI National SIIV Congress, Cosenza, Italy, 20-22 September 2006. Title of the paper: "Rheological and chemical Investigation for the evaluation of physical hardening of bituminous binders" (in Italian)

2002 "G. Bentley" award for the best thesis in road construction

FUNDED RESEARCH PROJECTS AS PRINCIPAL INVESTIGATOR

2019: "Advanced chemical and rheological characterization of neat bituminous binders for road pavements". Research contract with ANAS SPA QATAR BRANCH

2018: "Research activities supporting design and construction of rigid pavement in tunnels". Research contract with LETIMBRO scarl

2017-2018: "RheoCom_Rheology of complex materials containing nano-sized additives for civil engineering applications". Research project funded by Compagnia di San Paolo

2017-2018: "Experimental study on the materials to be employed in the new Frejus emergency road tunnel". Research contract with Tunnel Frejus scarl

2017-2018: "Experimental study on surface asphalt layers of province road network". Research project funded by Città Metropolitana di Torino

2017: "Laboratory investigation on cement stabilized mixtures for the implementation of a new rational design method for semi-rigid pavements". Research contract with SPEA Engineering spa

2016-2017: "Field and laboratory investigation on performance characteristics of wearing courses asphalt mixtures". Research contract with Bitux S.p.A.

2010-2011: "Experimental field testing and analysis on structural and functional performance of runway and taxiway of Genoa Airport". Research contract with Società Aeroporto di Genova spa

FUNDED RESEARCH PROJECTS AS PARTICIPANT (selection)

2015-2016: "TYREC4LIFE PLUS_Development and implementation of innovative and sustainable technologies for the use of scrap tyre rubber in road pavements". Funded by Italian Ministry of the Environment and Protection of Land and Sea

2015: "RP2_Reuse of paint sludge in road Pavements". Funded by FCA Group. Fiat Group Automobiles

2012-2014: "POLIPNEUS_Science and technology of bituminous binders and mixtures containing crumb rubber". Funded by Ecopneus scpa

2011-2013: "Innovative road pavements characterized by high environmental sustainability. Design, construction, field monitoring and modeling of full-scale field sections containing recycled materials". Funded by Italian Ministry of Education, University and Research - PRIN 2009

2011-2015: "TYREC4LIFE_Development and implementation of innovative and sustainable technologies for the use of scrap tyre rubber in road pavements". Funded by European Union - LIFE+ Grant

2008-2010: "Advanced design and modelling of perpetual road pavements". Funded by Italian Ministry of Education, University and Research - PRIN 2007

2004-2005: "Environmental compatibility and safety of innovative road pavement: guidelines for design and control". Funded by Italian Ministry of Education, University and Research - PRIN 2003

PUBLICATIONS

Selected papers

INTERNATIONAL INDEXED JOURNALS

Santagata E, Baglieri O, Dalmazzo D. Experimental investigation on the fatigue damage behaviour of modified bituminous binders and mastics. *Journal of the Association of Asphalt Paving Technologists*, 2008, Vol. 77, p. 851-883. ISSN:0270-2932

Santagata E, Baglieri O, Dalmazzo D, Tsantilis L. Rheological and chemical investigation on the damage and healing properties of bituminous binders. *Journal of the Association of Asphalt Paving Technologists*, 2009, Vol. 78, p. 567-595. ISSN:0270-2932

Santagata E, Bassani M, Baglieri O, Ferraris M, Salvo M, Ventrella A. Use of vitrified bottom ashes of municipal solid waste incinerators in bituminous mixtures in substitution of natural sands. *Advances in Applied Ceramics* 2009, Vol.108, n.1, p. 33-43. ISSN:1743-6753 DOI:10.1179/174367608X364285

Santagata E, Chiappinelli G, Riviera P, Baglieri O. Triaxial testing for the short term evaluation of cold-recycled bituminous mixtures. *Road Materials and Pavement Design*, 2010, Vol.11, n.1, p. 123-147. ISSN: 1468-0629; DOI:10.3166/rmpd.11.123-147

Santagata E, Baglieri O, Dalmazzo D, Tsantilis L. Evaluation of self healing properties of bituminous binders taking into account steric hardening effects. *Construction and Building Materials*, 2013, Vol. 41, p. 60-67. ISSN: 0950-0618; DOI: 10.1016/j.conbuildmat.2012.11.118

Santagata E, Baglieri O, Dalmazzo D, Tsantilis L. Evaluation of the anti-rutting potential of polymer-modified binders by means of creep-recovery shear tests. *Materials and Structures*, 2013, Vol. 46(10), p.1673-1682. ISSN:1359-5997; DOI:10.1617/s11527-012-0006-0

Santagata E, Baglieri O, Tsantilis L, Vercelli A. Development of test protocols for the analysis of magneto-rheological properties of field-responsive bituminous binders. *American Journal of Applied Sciences*, 2014, Vol.11(3), p. 505-519. ISSN:1546-9239; DOI:10.3844/ajassp.2014.505.519

Santagata E, Baglieri O, Tsantilis L, Chiappinelli G. Fatigue properties of bituminous binders reinforced with carbon nanotubes. *International Journal of Pavement Engineering*, 2015, Vol.16(1), p. 80-90. ISSN:1029-8436; DOI:10.1080/10298436.2014.923099

Santagata E, Baglieri O, Alam M, Dalmazzo D. A novel procedure for the evaluation of anti-rutting -potential of asphalt binders. *International Journal of Pavement Engineering*, 2015, Vol. 16(4), p. 287-296. ISSN:1029-8436; DOI: 10.1080/10298436.2014.942859

Santagata E, Baglieri O, Tsantilis L, Chiappinelli G, Brignone Aimonetto I. Effect of sonication on high temperatures properties of bituminous binders reinforced with nano-additives. *Construction and Building Materials*, 2015, Vol.75, p.395-403. ISSN: 0950-0618; DOI: 10.1016/j.conbuildmat.2014.11.021

Santagata E, Baglieri O, Tsantilis L, Chiappinelli G. Fatigue and healing properties of nano-reinforced bituminous binders. *International Journal of Fatigue*, 2015, Vol. 80, p. 30-39. ISSN: 0142-1123; DOI:10.1016/j.ijfatigue.2015.05.008

Sapora A, Cornetti P, Carpinteri A, Baglieri O, Santagata E. The use of fractional calculus to model the experimental creep-recovery behavior of modified bituminous binders. *Materials and Structures*, 2016, Vol.49 (1), p. 45-55. ISSN:1359-5997; DOI: 10.1617/s11527-014-0473-6

Santagata E, Lanotte M, Baglieri O, Dalmazzo D, Zanetti MC. Analysis of bitumen-crumb rubber affinity for the formulation of rubberized dry mixtures. *Materials and Structures*, 2016, Vol. 49 (5) , p. 1947-1954. ISSN:1359-5997; DOI: 10.1617/s11527-015-0625-3

Santagata E, Baglieri O, Tsantilis L, Chiappinelli G, Dalmazzo D. Bituminous-based nanocomposites with improved high-temperature properties. *Composites Part B*, 2016, Vol. 99, p.9-16. ISSN: 1359-8368; DOI:10.1016/j.compositesb.2016.05.020

Santagata E, Baglieri O, Tsantilis L., Dalmazzo D, Chiappinelli G. Fatigue and healing properties of nano-reinforced bituminous mastics. *Mechanics of Time-Dependent Materials*, 2016; Vol. 20, p.367-387. ISSN: 1385-2000; DOI: 10.1007/s11043-016-9301-4

Baglieri O, Santagata E, Laterza PZ, Lisi S. Studio sull'evoluzione delle grandezze caratteristiche degli apparecchi del binario: applicazione dei nuovi indirizzi normativi di RFI / Experimental study on the evolution of geometric characteristics of switches and crossings: application of the new RFI standard directives. *Ingegneria Ferroviaria*, 2016, Vol.9, p. 661-676. ISSN: 0020-0956

Santagata E, Baglieri O, Riviera PP, Alam M. Correlating creep behavior of bituminous binders with anti-rutting performances of corresponding mixtures. *International Journal of Pavement Research and Technology*, 2017, Vol.10, p. 38-44. ISSN: 1996-6814; DOI: 10.1016/j.ijprt.2016.11.008

Baglieri O, Santagata E, Sapora A, Cornetti P, Carpinteri A. Fractional viscoelastic modeling of anti-rutting response of bituminous binders. *Journal of Engineering Mechanics*, 2017, Vol.143 (5), n. 4016002. ISSN: 0733-0399, DOI: 10.1061/(ASCE)EM.1943-7889.0001081

Santagata E, Baglieri O, Dalmazzo D, Tsantilis L. Investigating cohesive healing of asphalt binders by means of a dissipated energy approach. *International Journal of Pavement Research and Technology*, 2017, Vol.10, p.403-409. ISSN: 1996-6814; DOI: 10.1016/j.ijprt.2017.06.004

Tsantilis L, Baglieri O, Santagata E. Low-temperature properties of bituminous nanocomposites for road applications. *Construction and Building Materials*, 2018, Vol. 171, p. 397-403. ISSN: 0950-0618; DOI: 10.1016/j.conbuildmat.2018.03.154

Baglieri O, Tsantilis L, Santagata E. Evaluation of healing potential of bituminous binders using a visco-elastic continuum damage approach. *Construction and Building Materials*, 2018, Vol. 184, p. 344-350. ISSN: 0950-0618; DOI: 10.1016/j.conbuildmat.2018.05.228

Miglietta F, Underwood BS, Tsantilis L, Baglieri O, Kaloush KE, Santagata E. Fatigue properties of nano-reinforced bituminous mixtures: a visco-elastic continuum damage approach. *International Journal of Pavement Research and Technology*, 2018, Vol.11, p. 766-773. ISSN: 1996-6814; DOI 10.1016/j.ijprt.2018.04.004

Tsantilis L, Dalmazzo D, Baglieri O, Santagata E. Effect of SBS molecular structure on the rheological properties of ternary nanomodified bituminous binders. *Construction and Building Materials*, 2019, Vol. 222, p. 183-192. ISSN: 0950-0618; DOI: 10.1016/j.conbuildmat.2019.06.095

Santagata E, Baglieri O, Miglietta F, Tsantilis L, Riviera PP. Impact of nano-sized additives on the fatigue damage behaviour of asphalt mixtures. *Fatigue and Fracture of Engineering Materials and Structures*, 2019, Vol. 42, p. 2738-2746. ISSN: 8756-758X ; DOI: 10.1111/ffe.13110

Baglieri O, Tozzi C, Dalmazzo D, Tsantilis L, Santagata E. A novel methodology for the evaluation of low temperature failure properties of asphalt binders. *Materials and Structures*, 2021. Vol. 54, 22, DOI: 10.1617/s11527-020-01610-9458

Miglietta F, Tsantilis L, Baglieri O, Santagata E. A new approach for the evaluation of time-temperature superposition effects on the self-healing of bituminous binders. *Construction and Building Materials*, 2021, Vol. 287, 122987, ISSN: 0950-0618; DOI: 10.1016/j.conbuildmat.2021.122987

Tsantilis L, Underwood BS, Miglietta F, Riviera PP, Baglieri O, Santagata E. Ageing effects on linear and nonlinear viscoelasticity of bituminous binders. *Road Materials and Pavement Design*, 2021, Vol. 22, S1, p. S37-S50, ISSN: 1468-0629; DOI:10.1080/14680629.2021.1908406

Miglietta F, Tsantilis L, Baglieri O, Santagata E. Investigating the effect of temperature on self-healing properties of neat and polymer-modified bituminous binders. *Road Materials and Pavement Design*, 2022, Vol. 23, Sup 1, p. 2-15, ISSN: 1468-0629; DOI: 10.1080/14680629.2021.1982752

Tozzi C, Dalmazzo D, Baglieri O, Santagata E. Experimental evaluation and modeling of physical hardening in asphalt binders. *Materials*, 2022, 15(1), 19, DOI: 10.3390/ma15010019

Urbano L, Dalmazzo D, Riviera PP, Baglieri O, Santagata E. A sustainable cold-recycled solution for the surface finishing of unpaved rural roads. *Materials*, 2022, 15, 3920; DOI: 10.3390/ma15113920

Tozzi C, Dalmazzo D, Baglieri O, Santagata. Experimental evaluation and modelling of low temperature failure properties of asphalt binders by means of the monotonic torsional loading test. *Construction and Building Materials*, 2022, Vol. 347, 128344, DOI: 10.1016/j.conbuildmat.2022.128344

Baglieri O, Riviera PP. Editorial, Special Issue "Sustainable asphalt pavements: materials, design methods, and characterization techniques" (First and Second Volumes). *Materials*, 2022, 15, 7649, DOI: 10.3390/ma15217649

Santagata E, Riviera PP, Baglieri O, Lanotte M. Use of municipal solid waste bottom ashes in rubberized asphalt mixtures. *Journal of Testing and Evaluation*, 2023, Vol. 51(4), DOI: 10.1520/JTE20220301

PROCEEDINGS AND BOOK SERIES

Canestrari F, Ferrotti O, Graziani A, Baglieri O. Interlayer bonding design of porous asphalt course interface. Proceedings of the Sixth International Conference on Maintenance and Rehabilitation of Pavements and Technological Control, MAIREPAV6, Turin, Italy, 8-10 July 2009, Vol. II, p. 617-626. ISBN:9788882020293

Santagata E, Dalmazzo D, Tsantilis L, Baglieri O. The enhancement of performance-related properties of bituminous binders by means of fibres. Sixth International Conference on Maintenance and Rehabilitation of Pavements and Technological Control, MAIREPAV6, Turin, Italy, 8-10 July 2009, Vol. I, p. 64-73. ISBN:9788882020293

Baglieri O, Dalmazzo D, Barazia M, Tabatabaee H.A, Bahia H.U. Influence of physical hardening on the low-temperatures properties of bitumen and asphalt mixtures. *Procedia – Social and Behavioral Science*, SIIV 5th International Congress – Sustainability of Road Infrastructures 2012, Vol.53, p. 504-513. ISSN:1877-0428; DOI:10.1016/j.sbspro.2012.09.901

Santagata E, Baglieri O, Tsantilis L, Dalmazzo D. Rheological characterization of bituminous binders modified with carbon nanotubes. *Procedia – Social and Behavioral Science*, SIIV 5th International Congress – Sustainability of Road Infrastructures 2012, Vol.53, p. 546-555. ISSN:1877-0428; DOI: 10.1016/j.sbspro.2012.09.905

Santagata E, Baglieri O, Riviera PP. Effect of anti-icing chemicals on stripping of asphalt concrete mixtures for airport runway wearing courses. Proceedings of the Airfield and Highway Pavement Conference, Transportation and Development Institute of ASCE, Los Angeles, CA, 9-12 June 2013, p. 1229-1239. ISBN:9780784413005; DOI: 10.1061/9780784413005.104

Santagata E, Baglieri O, Alam M, Riviera PP. Evaluation of rutting properties of bituminous binders by means of single shear creep recovery (SSCR) tests and correlation with mixture performance. 8th International RILEM Symposium SIB2015, Ancona, Italy, 7-9 October 2015. RILEM Bookseries, 2016, Vol. 11, p. 745-756, Ed. Springer. ISSN: 22110844, DOI:10.1007/978-94-017-7342-3_60

Santagata E, Baglieri O, Tsantilis L, Chiappinelli G. Storage stability of bituminous binders reinforced with nano-additives. 8th International RILEM Symposium SIB2015, Ancona, Italy, 7-9 October 2015. RILEM Bookseries, 2016, Vol. 11, p. 75-87, Ed. Springer. ISSN: 22110844, DOI:10.1007/978-94-017-7342-3_7

Santagata E, Baglieri O, Dalmazzo D, Tsantilis L. Experimental investigation on the combined effects of physical hardening and oxidative ageing on low-temperature properties of bituminous binders. 8th International RILEM Symposium SIB2015, Ancona, Italy, 7-9 October 2015. RILEM Bookseries, 2016 Vol. 11, p. 631-641, Ed. Springer. ISSN: 22110844, DOI:10.1007/978-94-017-7342-3_51

Santagata E, Baglieri O, Tsantilis L, Chiappinelli G. Effects of nano-sized additives on the high-temperature properties of bituminous binders: a comparative study. Multi-Scale Modeling and Characterization of Infrastructure Materials. International RILEM Symposium Stockholm, Sweden, 10-12 June 2013, RILEM Bookseries, 2013, Vol. 8, p. 297-309, Ed. Springer. ISBN:9789400768772, ISSN: 2211-0844, DOI: 10.1007/978-94-007-6878-9_22

Sapora A, Cornetti P, Carpinteri A, Baglieri O, Santagata E. A fractional viscoelastic approach to model the rheological behavior of bituminous binders. International Conference on Fractional Differentiation and its Applications, Catania, Italy, 23-25 June 2014.

Santagata E, Baglieri O, Alam M, Lanotte M, Riviera PP. Evaluation of rutting resistance of rubberized gap-graded asphalt mixtures. 6th International Conference on Bituminous Mixtures and Pavements, Thessaloniki, Greece, 10-12 June 2015, p. 407-412. Ed Taylor&Francis Group, London. ISBN: 9781138028661, DOI:10.1201/b18538-59

Santagata E, Baglieri O, Riviera PP, Lanotte M, Alam M. The influence of lateral confining pressure on flow number tests. 10th International Conference on the Bearing Capacity of Roads, Railways and Airports, Athens, Greece, 28-30 June 2017, p. 237-242. Ed Taylor&Francis Group, London. ISBN: 978-1-138-29595-7

Tsantilis L, Chiappinelli G, Baglieri O, Riviera PP, Miglietta F, Santagata E. Performance characteristics of nano-modified asphalt mixtures. *Lecture Notes in Civil Engineering*, 2020, Vol. 76, p. 587-595, ISBN: 978-3-030-48678-5