

## PUBLICATIONS – PROF. ING. CARLO PELLEGRINO

### Z) Books

- Z1. Pellegrino C., Sena-Cruz J. (eds.), *Design Procedures for the Use of Composites in Strengthening of Reinforced Concrete Structures - State-of-the-Art Report of the RILEM Technical Committee 234-DUC*, 392 pp., Springer Netherlands, Series "RILEM State-of-the-Art Reports", Vol. 19, 2015, Series ISSN 2213-204X, ISBN: 978-94-017-7335-5 (Print), 978-94-017-7336-2 (online), DOI: 10.1007/978-94-017-7336-2.
- Z2. Pellegrino C., Faleschini F. *Sustainability improvements in concrete industry: Use of recycled materials for structural concrete production*, 175 pp., Springer International Publishing, 2016, Series ISSN: 1865-3529, ISBN: 978-3-319-28538-2 (Print) 978-3-319-28540-5 (Online), DOI: 10.1007/978-3-319-28540-5.

### A) International peer-reviewed ISI/Scopus journals

- A1. Majorana C.E., Pellegrino C. (1997). "Dynamic stability of elastically constrained beams: an exact approach", *Engineering Computations*, 14(7):792-805, DOI: 10.1108/02644409710188709.
- A2. Briseghella L., Majorana C.E., Pellegrino C. (1998). "Dynamic stability of elastic structures: a finite element approach", *Computers & Structures*, 69(1):11-25, DOI: 10.1016/S0045-7949(98)00084-4.
- A3. Galvanetto U., Pellegrino C., Schrefler B.A. (1998). "A three-dimensional stress recovery procedure for composite materials", *Computers & Structures*, 69(5):567-575, DOI: 10.1016/S0045-7949(98)80095-3.
- A4. Galvanetto U., Pellegrino C., Schrefler B.A. (1998). "Plane stress plasticity in periodic composites", *Computational Materials Science*, 13:31-41, DOI: 10.1016/S0927-0256(98)00043-3.
- A5. Briseghella L., Majorana C.E., Pellegrino C. (1999). "Conservation of angular momentum and energy in the integration of non linear dynamic equations", *Computer Methods in Applied Mechanics and Engineering*, 179(3-4):247-263, DOI: 10.1016/S0045-7825(99)00062-6.
- A6. Pellegrino C., Galvanetto U., Schrefler B.A. (1999). "Numerical homogenisation of periodic composite materials with non-linear material components", *International Journal for Numerical Methods in Engineering*, 46(10):1609-1637, DOI: 10.1002/(SICI)1097-0207(19991210)46:10<1609::AID-NME716>3.0.CO;2-Q.
- A7. Majorana C.E., Pellegrino C. (1999). "Dynamic stability of beams with finite displacements and rotations", *Engineering Computations*, 16(6):639-658, DOI: 10.1108/02644409910281217.
- A8. Boso D., Pellegrino C., Galvanetto U., Schrefler B.A. (2000). "Macroscopic damage in periodic composite materials", *Communications in Numerical Methods in Engineering*, 16(9):615-623, DOI: 10.1002/1099-0887(200009)16:9<615::AID-CNM355>3.0.CO;2-2.
- A9. Pellegrino C., Modena C. (2002). "Fiber reinforced polymer shear strengthening of RC beams with transverse steel reinforcement", *ASCE Journal of Composites for Construction*, 6(2):104-111, DOI: 10.1061/(ASCE)1090-0268(2002)6:2(104).
- A10. Zanardo G., Pellegrino C., Bobisut C., Modena C. (2004). "Performance evaluation of short span reinforced concrete arch bridges", *ASCE Journal of Bridge Engineering*, 9(5):424-434, DOI: 10.1061/(ASCE)1084-0702(2004)9:5(424).
- A11. Pellegrino C., Modena C. (2006). "Fiber-reinforced polymer shear strengthening of RC beams: experimental study and analytical modeling", *ACI Structural Journal*, 103(5):720-728.

- A12. Pellegrino C., Tinazzi D., Modena C. (2008). "Experimental study on bond behavior between concrete and FRP reinforcement", *ASCE Journal of Composites for Construction*, 12(2):180-189, DOI: 10.1061/(ASCE)1090-0268(2008)12:2(180).
- A13. Pellegrino C., Modena C. (2008). "An experimentally based analytical model for shear capacity of FRP strengthened reinforced concrete beams", *Mechanics of Composite Materials*, 44(3):231-244, DOI: 10.1007/s11029-008-9016-y.
- A14. Maiorana E., Pellegrino C., Modena C. (2008). "Linear buckling analysis of perforated plates subjected to localised symmetrical load", *Engineering Structures*, 30(11):3151-3158, DOI: 10.1016/j.engstruct.2008.04.024.
- A15. Maiorana E., Pellegrino C., Modena C. (2008). "Linear buckling analysis of unstiffened plates subjected to both patch load and bending moment", *Engineering Structures*, 30(12):3731-3738, DOI: 10.1016/j.engstruct.2008.07.002.
- A16. Valluzzi M.R., Grinzato E., Pellegrino C., Modena C. (2009). "IR thermography for interface analysis of FRP laminates externally bonded to RC beams", *Materials and Structures*, 42(1):25-34, DOI: 10.1617/s11527-008-9364-z.
- A17. Maiorana E., Pellegrino C., Modena C. (2009). "Elastic stability of plates with circular and rectangular holes subjected to axial compression and bending moment", *Thin-Walled Structures*:47(3), 241-255, DOI: 10.1016/j.tws.2008.08.003.
- A18. Maiorana E., Pellegrino C., Modena C. (2009). "Non-linear analysis of perforated steel plates subjected to localised symmetrical load", *Journal of Constructional Steel Research*, 65(4):959-964, DOI: 10.1016/j.jcsr.2008.03.018.
- A19. Pellegrino C., Maiorana E., Modena C. (2009). "FRP strengthening of steel and steel-concrete composite structures: an analytical approach", *Materials and Structures*, 42(3):353-363, DOI: 10.1617/s11527-008-9386-6.
- A20. Maiorana E., Pellegrino C., Modena C. (2009). "Imperfections in steel girder webs with and without perforations under patch loading", *Journal of Constructional Steel Research*, 65(5):1121-1129, DOI: 10.1016/j.jcsr.2008.10.007.
- A21. Pellegrino C., Modena C. (2009). "Flexural strengthening of real-scale RC and PRC beams with end-anchored pre-tensioned FRP laminates", *ACI Structural Journal*, 106(3):319-328.
- A22. Pellegrino C., Maiorana E., Modena C. (2009). "Linear and non-linear behaviour of steel plates with circular and rectangular holes under shear loading", *Thin-Walled Structures*, 47(6-7):607-616, DOI: 10.1016/j.tws.2008.11.001.
- A23. Pellegrino C., da Porto F., Modena C. (2009). "Rehabilitation of reinforced concrete axially loaded elements with polymer-modified cementitious mortar", *Construction and Building Materials*, 23(10):3129-3137, DOI: 10.1016/j.conbuildmat.2009.06.025.
- A24. Pellegrino C., Gaddo V. (2009). "Mechanical and durability characteristics of concrete containing EAF slag as aggregate", *Cement and Concrete Composites*, 31(9):663-671, DOI: 10.1016/j.cemconcomp.2009.05.006.
- A25. Pellegrino C., Modena C. (2009). "Influence of FRP axial rigidity on FRP-concrete bond behaviour: an analytical study", *Advances in Structural Engineering*, 12(5):639-649, DOI: 10.1260/136943309789867854.
- A26. Pipinato A., Pellegrino C., Bursi O.S., Modena C. (2009). "High-cycle fatigue behavior of riveted connections for railway metal bridges", *Journal of Constructional Steel Research*, 65(12):2167-2175, DOI: 10.1016/j.jcsr.2009.06.019.

- A27. Pellegrino C., Cupani G., Modena C. (2010). "The effect of fatigue on arrangement of hangers in tied arch bridges", *Engineering Structures*, 32(4):1140-1147, DOI: 10.1016/j.engstruct.2009.12.040.
- A28. Pellegrino C., Modena C. (2010). "Analytical model for FRP confinement of concrete columns with and without internal steel reinforcement", *ASCE Journal of Composites for Construction*, 14(6):693-705, DOI: 10.1061/(ASCE)CC.1943-5614.0000127.
- A29. Maiorana E., Pellegrino C., Modena C. (2011). "Influence of longitudinal stiffeners on elastic stability of girder webs", *Journal of Constructional Steel Research*, 67(1):51-64, DOI: 10.1016/j.jcsr.2010.07.005.
- A30. Pipinato A., Pellegrino C., Modena C. (2011). "Fatigue assessment of highway steel bridges in presence of seismic loading", *Engineering Structures*, 33(1):202-209, DOI: 10.1016/j.engstruct.2010.10.008.
- A31. Salomoni V.A., Mazzucco G., Pellegrino C., Majorana C.E. (2011). "Three-dimensional modelling of bond behaviour between concrete and FRP reinforcement", *Engineering Computations*, 28(1):5-29, DOI: 10.1108/02644401111096993.
- A32. Pellegrino C., da Porto F., Modena C. (2011). "Experimental behaviour of reinforced concrete elements repaired with polymer-modified cementitious mortar", *Materials and Structures*, 44(2):517-527, DOI: 10.1617/s11527-010-9646-0.
- A33. Maiorana E., Pellegrino C., Modena C. (2011). "Elasto-plastic behaviour of perforated steel plates subjected to compression and bending", *Steel and Composite Structures*, 11(2):131-147.
- A34. Pellegrino C., Pipinato A., Modena C. (2011). "A simplified management procedure for bridge network maintenance", *Structure and Infrastructure Engineering*, 7(5):341-351, DOI: 10.1080/15732470802659084.
- A35. Pipinato A., Molinari M., Pellegrino C., Bursi O.S., Modena C. (2011). "Fatigue tests on riveted steel elements taken from a railway bridge", *Structure and Infrastructure Engineering*, 7(12):907-920, DOI: 10.1080/15732470903099776.
- A36. Maiorana E., Pellegrino C. (2011). "Linear buckling analysis of welded girder webs with variable thickness", *Steel and Composite Structures*, 11(6):505-524.
- A37. Pipinato A., Pellegrino C., Fregno G., Modena C. (2012). "Influence of fatigue on cable arrangement in cable-stayed bridges", *International Journal of Steel Structures*, 12(1):107-123, DOI: 10.1007/s13296-012-1010-5.
- A38. Da Porto F., Stievanin E., Pellegrino C. (2012). "Efficiency of RC square columns repaired with polymer-modified cementitious mortars", *Cement and Concrete Composites*, 34(4):545-555, DOI: 10.1016/j.cemconcomp.2011.11.020.
- A39. Pipinato A., Pellegrino C., Modena C. (2012). "Assessment procedure and rehabilitation criteria for the riveted railway Adige bridge", *Structure and Infrastructure Engineering*, 8(8):747-764, DOI: 10.1080/15732479.2010.481674.
- A40. Pipinato A., Pellegrino C., Modena C. (2012). "Structural Analysis of the Cantilever Construction Process in Cable-Stayed Bridges", *Periodica Polytechnica: Civil Engineering*, 56(2):141-166, DOI: 10.3311/pp.ci.2012-2.02.
- A41. Pellegrino C., Vasic M. (2013). "Assessment of design procedures for the use of externally bonded FRP composites in shear strengthening of reinforced concrete beams", *Composites Part B: Engineering*, 45:727-741, DOI: 10.1016/j.compositesb.2012.07.039.

- A42. Pellegrino C., Cavagnis P., Faleschini F., Brunelli K. (2013). "Properties of concretes with black/oxidizing electric arc furnace slag aggregate", *Cement and Concrete Composites*, 37:232-240, DOI: 10.1016/j.cemconcomp.2012.09.001.
- A43. Pellegrino C., Faleschini F. (2013). "Experimental behavior of RC beams with EAF slag as recycled aggregate", *ACI Materials Journal*, 110(2):197-205.
- A44. Carturan F., Pellegrino C., Rossi R., Gastaldi M., Modena C. (2013). "An integrated procedure for management of bridge networks in seismic areas", *Bulletin of Earthquake Engineering*, 11(2):543-559, DOI: 10.1007/s10518-012-9391-6.
- A45. Zanini M.A., Pellegrino C., Morbin R., Modena C. (2013). "Seismic vulnerability of bridges in transport networks subjected to environmental deterioration", *Bulletin of Earthquake Engineering*, 11(2):561-579, DOI: 10.1007/s10518-012-9400-9.
- A46. Pellegrino C., D'Antino T. (2013). "Experimental behaviour of existing precast prestressed reinforced concrete elements strengthened with cementitious composites", *Composites Part B: Engineering*, 55:31-40, DOI: 10.1016/j.compositesb.2013.05.053.
- A47. Maiorana E., Pellegrino C. (2013). "Comparison between Eurocodes, North American and main International Codes for design of bolted connections in steel bridges", *ASCE Journal of Bridge Engineering*, 18(12):1298-1308, DOI: 10.1061/(ASCE)BE.1943-5592.0000512.
- A48. D'Antino T., Pellegrino C. (2014). "Bond between FRP composites and concrete: assessment of design procedures and analytical models", *Composites Part B: Engineering*, 60:440-456, DOI: 10.1016/j.compositesb.2013.12.075.
- A49. Carturan F., Zanini M.A., Pellegrino C., Modena C. (2014). "A unified framework for earthquake risk assessment of transportation networks and gross regional product", *Bulletin of Earthquake Engineering*, 12(2):795-806, DOI: 10.1007/s10518-013-9530-8.
- A50. D'Antino T., Carloni C., Sneed L.H., Pellegrino C. (2014). "Matrix-fiber bond behavior in PBO FRCM composites: a fracture mechanics approach", *Engineering Fracture Mechanics*, 117:94-111, DOI: 10.1016/j.engfracmech.2014.01.011.
- A51. Faleschini F., De Marzi P., Pellegrino C. (2014). "Recycled concrete containing EAF slag: environmental assessment through LCA", *European Journal of Environmental and Civil Engineering*, 18(9):1009-1024, DOI: 10.1080/19648189.2014.922505.
- A52. Faleschini F., Jiménez C., Barra M., Aponte D., Vázquez E., Pellegrino C. (2014). "Rheology of fresh concretes with recycled aggregates", *Construction and Building Materials*, 73:407-416, DOI: 10.1016/j.conbuildmat.2014.09.068.
- A53. Modena C., Tecchio G., Pellegrino C., da Porto F., Donà M., Zampieri P., Zanini M.A. (2015). "Typical deficiencies and strategies for retrofitting RC and masonry arch bridges in seismic areas", *Structure and Infrastructure Engineering*, 11(4):415-442, DOI: 10.1080/15732479.2014.951859.
- A54. Pellegrino C., Zanini M.A., Zampieri P., Modena C. (2015). "Contribution of in-situ and laboratory investigations for assessing seismic vulnerability of existing bridges", *Structure and Infrastructure Engineering*, 11(9):1147-1162, ISSN: 1573-2479, DOI: 10.1080/15732479.2014.938661 (2015 Impact Factor: 1.202).
- A55. Carloni C., D'Antino T., Sneed L.H., Pellegrino C. (2015). "The role of the matrix layers in the stress-transfer mechanism of FRCM composites bonded to a concrete substrate", *ASCE Journal of Engineering Mechanics*, 141(6), DOI: 10.1061/(ASCE)EM.1943-7889.0000883.
- A56. Morbin R., Pellegrino C., Zhang H., Zanini M.A., Modena C. (2015). "A probabilistic strategy for seismic assessment and FRP retrofitting of existing bridges", *Bulletin of Earthquake Engineering*, 13:2411-2428, DOI: 10.1007/s10518-015-9725-2.

- A57. Pellegrino C., Zanini M.A., Faleschini F., Corain L. (2015) "Predicting bond formulations for prestressed concrete elements", *Engineering Structures*, 97:105-117, DOI: 10.1016/j.engstruct.2015.04.013.
- A58. D'Antino T., Carloni C., Sneed L.H., Pellegrino C. (2015) "Fatigue and Post-fatigue Behavior of PBO FRCM-Concrete Joints", *International Journal of Fatigue*, 81:91-104, ISSN: 0142-1123, DOI: 10.1016/j.ijfatigue.2015.06.008.
- A59. Faleschini F., Zanini M.A., Brunelli K., Pellegrino C. (2015) "Valorization of co-combustion fly ash in concrete production", *Materials & Design*, 85:687-694, DOI: 10.1016/j.matdes.2015.07.079.
- A60. Sneed L.H., D'Antino T., Carloni C., Pellegrino C. (2015) "A Comparison of the Bond Behavior of PBO-FRCM Composites Determined by Double-Lap and Single-Lap Shear Tests", *Cement and Concrete Composites*, 64:37-48, DOI: 10.1016/j.cemconcomp.2015.07.007.
- A61. Faleschini F., Fernandez-Ruiz M.A., Zanini M.A., Brunelli K., Pellegrino C. Hernandez-Montes E. (2015) "High performance concrete with Electric Arc Furnace slag as aggregate: mechanical and durability properties", *Construction and Building Materials*, 101:113-121, DOI: 10.1016/j.conbuildmat.2015.10.022.
- A62. D'Antino T., Sneed L.H., Carloni C., Pellegrino C. (2015) "Influence of the substrate characteristics on the bond behavior of PBO FRCM-concrete joints", *Construction and Building Materials*, 101:838-850, DOI: 10.1016/j.conbuildmat.2015.10.045.
- A63. Faleschini F., Zanini M.A., Pellegrino C., Pasinato S. (2016) "Sustainable management and supply of natural and recycled aggregates in a medium-size integrated plant", *Waste Management*, 49:146-155, DOI: 10.1016/j.wasman.2016.01.013.
- A64. Zanini M.A., Faleschini F., Pellegrino C. (2016). "Cost analysis for maintenance and seismic retrofit of existing bridges", *Structure and Infrastructure Engineering*, 12(11): 1411-1427, DOI: 10.1080/15732479.2015.1133661.
- A65. D'Antino T., Sneed L.H., Carloni C., Pellegrino C. (2016) "Effect of the inherent eccentricity in single-lap direct-shear tests of PBO FRCM-concrete joints", *Composite Structures*, 142:117-129, DOI: 10.1016/j.compstruct.2016.01.076.
- A66. Mazzucco G., Salomoni V.A., Majorana C.E., Pellegrino C., Ceccato C. (2016) "Numerical investigation of concrete columns with external FRP jackets subjects to axial loads", *Construction and Building Materials*, 111:590-599, DOI: 10.1016/j.conbuildmat.2016.02.050.
- A67. Zanini M.A., Hofer L., Faleschini F., Zampieri P., Fabris N., Pellegrino C. (2016) "Preliminary macroseismic survey of the 2016 Amatrice seismic sequence", *Annals of Geophysics*, 59, Fast Track 5, DOI: 10.4401/ag-7172.
- A68. Zanini M.A., Faleschini F., Pellegrino C. (2017) "Bridge residual service-life prediction through Bayesian visual inspection and data updating", *Structure and Infrastructure Engineering*, 13(7):906-917, DOI: 10.1080/15732479.2016.1225311.
- A69. Zanini M.A., Faleschini F., Zampieri P., Pellegrino C., Gecchele G., Gastaldi M., Rossi R. (2017) "Post-quake urban road network functionality assessment for seismic emergency management in historical centres", *Structure and Infrastructure Engineering*, 13(9):1117-1129, ISSN: 1573-2479 DOI: 10.1080/15732479.2016.1244211 (2015 Impact Factor: 1.202).
- A70. Zanini M.A., Hofer L., Faleschini F., Pellegrino C. (2017) "Building damage assessment after the Riviera del Brenta tornado, northeast Italy", *Natural Hazards*, 86:1247-1273, DOI: 10.1007/s11069-017-2741-6.

- A71. Zanini M.A., Faleschini F., Pellegrino C. (2017) "Probabilistic seismic risk forecasting of aging bridge networks", *Engineering Structures*, 136:219-232, DOI: 10.1016/j.engstruct.2017.01.029.
- A72. Faleschini F., Hofer L., Zanini M.A., Dalla Benetta M., Pellegrino C. (2017) "Experimental behavior of beam-column joints made with EAF concrete under cyclic loading", *Engineering Structures*, 139:81-95, DOI: 10.1016/j.engstruct.2017.02.038.
- A73. Ceccato C., Salviato M., Pellegrino C., Cusatis G. (2017) "Simulation of concrete failure and fiber reinforced polymer fracture in confined columns with different cross sectional shape", *International Journal of Solids and Structures*, 108:216-229, DOI: 10.1016/j.ijsolstr.2016.12.017.
- A74. Faleschini F., Santamaria A., Zanini M.A., San José J.-T., Pellegrino C. (2017) "Bond between steel reinforcement bars and Electric Arc Furnace slag concrete", *Materials and Structures*, 50:170, DOI: 10.1617/s11527-017-1038-2.
- A75. Sabau C., Gonzalez-Libreros J.H., Sneed L.H., Sas G., Pellegrino C., Täljsten B. (2017) "Use of image correlation system to study the bond behavior of FRCM-concrete joints", *Materials and Structures*, 50:172, DOI: 10.1617/s11527-017-1036-4.
- A76. Zampieri P., Zanini M.A., Faleschini F., Hofer L., Pellegrino C. (2017) "Failure analysis of masonry arch bridges subject to local pier scour", *Engineering Failure Analysis*, 79:371-384, DOI: 10.1016/j.engfailanal.2017.05.028.
- A77. Gonzalez-Libreros J.H., Sabau C., Sneed L.H., Pellegrino C., Sas G. (2017) "Shear strengthening of RC beams with FRCM composites: a state-of-the-art", *Construction and Building Materials*, 149:444-458, DOI: 10.1016/j.conbuildmat.2017.05.128.
- A78. Focacci F., D'Antino T., Carloni C., Sneed L.H., Pellegrino C. (2017) "An indirect method to calibrate the interfacial cohesive material law for FRCM-concrete joints", *Materials & Design*, 128:206-217, DOI: 10.1016/j.matdes.2017.04.038.
- A79. Faleschini F., Zanini M.A., Hofer L., Zampieri P., Pellegrino C. (2017) "Sustainable management of demolition waste in post-quake recovery processes: the Italian experience", *International Journal of Disaster Risk Reduction*, 24:172-182, DOI: 10.1016/j.ijdrr.2017.06.015.
- A80. Lignola G.P., Caggegi C., Ceroni F., De Santis S., Krajewski P., Lourenço P.B., Morganti M., Papanicolaou C., Pellegrino C., Prota A., Zuccarino L. (2017) "Performance assessment of basalt FRCM for retrofit applications on masonry", *Composites Part B: Engineering*, 128:1-18, DOI: 10.1016/j.compositesb.2017.05.003.
- A81. da Silva Magalhães M., Faleschini F., Pellegrino C., Brunelli K. (2017) "Effects of Electric Arc Furnace dust (EAFD) addition on setting and strength evolutions of cement pastes and mortars", *European Journal of Environmental and Civil Engineering*, DOI: 10.1080/19648189.2017.1357776.
- A82. Gonzalez-Libreros J.H., Sneed L.H., D'Antino T., Pellegrino C. (2017) "Behavior of RC beams strengthened in shear with FRP and FRCM composites", *Engineering Structures*, 150:830-842, DOI: 10.1016/j.engstruct.2017.07.084.
- A83. da Silva Magalhães M., Faleschini F., Pellegrino C., Brunelli K. (2017) "Cementing efficiency of Electric Arc Furnace Dust in mortars", *Construction and Building Materials*, 157:141-150, DOI: 10.1016/j.conbuildmat.2017.09.074.
- A84. Faleschini F., Bragolusi P., Zanini M.A., Zampieri P., Pellegrino C. (2017) "Experimental and numerical investigation on the cyclic behavior of RC beam column joints with EAF slag concrete", *Engineering Structures*, 152:335-347, DOI: 10.1016/j.engstruct.2017.09.022.
- A85. Hofer L., Zanini M.A., Faleschini F., Pellegrino C. (2017) "Profitability analysis for assessing the optimal seismic retrofit strategy of industrial productive processes with business-interruption

- consequences”, *ASCE Journal of Structural Engineering*, 144(2):04017205, DOI: 10.1061/(ASCE)ST.1943-541X.0001946.
- A86. Zampieri P., Curtarello A., Maiorana E., Pellegrino C. (2018) “Fatigue strength of corroded bolted connection”, *Frattura e Integrità Strutturale - Fracture and Structural Integrity*, 43:90-95, DOI: 10.3221/IGF-ESIS.43.06.
- A87. Maiorana E., Zampieri P., Pellegrino C. (2018) “Experimental tests on slip factor in friction joints: comparison between European and American Standards”, *Frattura e Integrità Strutturale - Fracture and Structural Integrity*, 43:205-217, DOI: 10.3221/IGF-ESIS.43.16.
- A88. Zampieri P., Simoncello N., Pellegrino C. (2018) “Structural behaviour of masonry arch with no-horizontal springing settlement”, *Frattura e Integrità Strutturale - Fracture and Structural Integrity*, 43:182-190, DOI: 10.3221/IGF-ESIS.43.14.
- A89. Carloni C., D’Antino T., Sneed L.H., Pellegrino C. (2018) “Three-Dimensional Numerical Modeling of Single-Lap Direct Shear Tests of FRCM-Concrete Joints Using a Cohesive Damaged Contact Approach”, *ASCE Journal of Composites for Construction*, 22(1):04017048, DOI: 10.1061/(ASCE)CC.1943-5614.0000827.
- A90. Mazzucco G., D’Antino T., Pellegrino C., Salomoni V. (2018) “Three-dimensional finite element modeling of inorganic-matrix composite materials using a mesoscale approach”, *Composites Part B: Engineering*, DOI: 10.1016/j.compositesb.2017.12.057.
- A91. De Domenico D., Faleschini F., Pellegrino C., Ricciardi G. (2018) “Structural behavior of RC beams containing EAF slag as recycled aggregate: Numerical versus experimental results”, *Construction and Building Materials*, 171:321-337, DOI: 10.1016/j.conbuildmat.2018.03.128.
- A92. Hofer L., Zampieri P., Zanini M.A., Faleschini F., Pellegrino C. (2018) “Seismic damage survey and empirical fragility curves for churches after the August 24, 2016 Central Italy earthquake”, *Soil Dynamics and Earthquake Engineering*, 111:98-109, DOI: 10.1016/j.soildyn.2018.02.013.
- A93. Maiorana E., Pellegrino C. (2018) “Linear Elastic Behavior of Circular Holes Steel Box Sections Under Compression”, *International Journal of Steel Structures*, 18(3):1063-1082, DOI: 10.1007/s13296-018-0042-x.
- A94. Zampieri P., Simoncello N., Tetougueni C.D., Pellegrino C. (2018) “A review of methods for strengthening of masonry arches with composite materials”, Review article, *Engineering Structures*, 171:154-169, DOI: 10.1016/j.engstruct.2018.05.070.
- A95. Zampieri P., Cavalagli N., Gusella V., Pellegrino C. (2018) “Collapse displacements of masonry arch with geometrical uncertainties on spreading supports”, *Computers and Structures*, 208:118-129, DOI: 10.1016/j.compstruc.2018.07.001.
- A96. Santamaria A., Faleschini F., Giacomello G., Brunelli K., San Jose J.-T., Pellegrino C., Pasetto M. (2018) “Dimensional stability of electric arc furnace slag in civil engineering applications”, *Journal of Cleaner Production*, 205:599-609, DOI: 10.1016/j.jclepro.2018.09.122.
- A97. Faleschini F., Gonzalez-Libreros J., Zanini M.A., Hofer L., Sneed L., Pellegrino C. (2019) “Repair of severely-damaged RC exterior beam-column joints with FRP and FRCM composites”, *Composite Structures*, 207:352-363, DOI: 10.1016/j.compstruct.2018.09.059.
- A98. Tetougueni C.D., Maiorana E., Zampieri P., Pellegrino C. (2019) “Plate girders behaviour under in-plane loading: A review”, Review article, *Engineering Failure Analysis*, 95:332-358, DOI: 10.1016/j.engfailanal.2018.09.021.
- A99. Zanini M.A., Hofer L., Pellegrino C. (2019) “A framework for assessing the Seismic Risk Map of Italy and developing a sustainable risk reduction program”, *International Journal of Disaster Risk Reduction*, 33:74-93, DOI: 10.1016/j.ijdr.2018.09.012.

- A100. Zampieri P., Curtarello E., Maiorana E., Pellegrino C. (2019) "A Review of the Fatigue Strength of Shear Bolted Connections", *International Journal of Steel Structures*, DOI: 10.1007/s13296-018-0189-5.

B) International peer-reviewed ISI/Scopus publications

- B1. Pellegrino C., Modena C. (2007). "Flexural behaviour of RC and PRC beams strengthened with external pre-tensioned FRP laminates", in Carpinteri et al. (eds.) *Fracture Mechanics of Concrete and Concrete Structures, Design, Assessment and Retrofitting of RC Structures - Proc. of FraMCoS-6, 6th International Conference on Fracture Mechanics of Concrete and Concrete Structures*, Catania, Italy, 17-22 June 2007, Vol. 2, Book Series: Proceedings and Monographs in Engineering, Water and Earth Sciences, pp. 1235-1240, ISBN: 9780415446167.
- B2. Pellegrino C., Maiorana E., Modena C. (2008). "Analytical modelling of FRP strengthened steel beams", in F. Biondini and D.M. Frangopol (eds.) *Life-Cycle Civil Engineering - Proceedings of the 1st International Symposium on Life-Cycle Civil Engineering, IALCCE '08*, Varenna, Como, Italy, 11-14 June 2008, pp. 427-432, ISBN: 9780415468572.
- B3. Pipinato A., Pellegrino C., Modena C. (2010). "Structural Analysis of Historical Metal Bridges in Italy", *Advanced Materials Research*, in Xianglin Gu and Xiaobin Song (eds.) *Structural Analysis of Historic Constructions*, Shanghai, China, 6-8 October, 2010, Vol. 133-134, pp. 525-530, ISBN: 9780878492398, ISSN: 1022-6680, DOI: 10.4028/www.scientific.net/AMR.133-134.525.
- B4. Pipinato A., Pellegrino C., Modena C. (2010). "Residual service life of existing railway bridges", in *Bridge Maintenance, Safety, Management and Life-Cycle Optimization - Proceedings of the 5th International Conference on Bridge Maintenance, Safety and Management*, pp. 1455-1462, ISBN: 9780415891370.
- B5. Carturan F., Pellegrino C., Modena C., Rossi R., Gastaldi M. (2010). "Optimal resource allocation for seismic retrofitting of bridges in transportation networks", in *Bridge Maintenance, Safety, Management and Life-Cycle Optimization - Proceedings of the 5th International Conference on Bridge Maintenance, Safety and Management*, pp. 1200-1207, ISBN: 9780415891370.
- B6. Pipinato A., Pellegrino C., Modena C. (2012). "Life cycle assessment of existing steel bridges considering corrosion and fatigue coupled problems", in F. Biondini and D.M. Frangopol (eds.) *Bridge Maintenance, Safety, Management, Resilience and Sustainability - Proc. of the 6th International Conference on Bridge Maintenance, Safety and Management, IABMAS 2012*, Stresa, Italy, 8-12 July 2012, pp. 1003-1007, ISBN: 9780415621243.
- B7. Pellegrino C., Giacomini G. (2012). "Strengthening of bridges with pretensioned FRP laminates: experimental investigation and a case study", in F. Biondini and D.M. Frangopol (eds.) *Bridge Maintenance, Safety, Management, Resilience and Sustainability - Proc. of the 6th International Conference on Bridge Maintenance, Safety and Management, IABMAS 2012*, Stresa, Italy, 8-12 July 2012, pp. 1251-1256, ISBN: 9780415621243.
- B8. Pellegrino C. (2012). "Open issues in design procedures for FRP strengthening of reinforced concrete bridges", in F. Biondini and D.M. Frangopol (eds.) *Bridge Maintenance, Safety, Management, Resilience and Sustainability - Proc. of the 6th International Conference on Bridge Maintenance, Safety and Management, IABMAS 2012*, Stresa, Italy, 8-12 July 2012, pp. 1257-1264, ISBN: 9780415621243.
- B9. Morbin C., Casadei E., Pellegrino C., Modena C. (2012). "Effect of FRP retrofit interventions on seismic vulnerability of existing bridges", in F. Biondini and D.M. Frangopol (eds.) *Bridge Maintenance, Safety, Management, Resilience and Sustainability - Proc. of the 6th International Conference on Bridge Maintenance, Safety and Management, IABMAS 2012*, Stresa, Italy, 8-12 July 2012, pp. 1228-1234, ISBN: 9780415621243.

- B10. Mazzucco G., Salomoni V.A., Majorana C., Pellegrino C. (2012). "Finite element modelling of beams strengthened with FRP sheets during short and long-term loads", in F. Biondini and D.M. Frangopol (eds.) *Bridge Maintenance, Safety, Management, Resilience and Sustainability - Proc. of the 6th International Conference on Bridge Maintenance, Safety and Management, IABMAS 2012*, Stresa, Italy, 8-12 July 2012, pp. 1223-1227, ISBN: 9780415621243.
- B11. Carturan F., Islami K., Pellegrino C., Modena C. (2012). "Reliability analysis and in-field investigation of a r.c. bridge over river Adige in Verona, Italy", in F. Biondini and D.M. Frangopol (eds.) *Bridge Maintenance, Safety, Management, Resilience and Sustainability - Proc. of the 6th International Conference on Bridge Maintenance, Safety and Management, IABMAS 2012*, Stresa, Italy, 8-12 July 2012, pp. 2850-2855, ISBN: 9780415621243.
- B12. Modena C., Pellegrino C., Tecchio G., da Porto F., Morbin R., Grendene M. (2012). "Assessment and retrofitting of existing bridges", Keynote lecture, in F. Biondini and D.M. Frangopol (eds.) *Bridge Maintenance, Safety, Management, Resilience and Sustainability - Proc. of the 6th International Conference on Bridge Maintenance, Safety and Management, IABMAS 2012*, Stresa, Italy, 8-12 July 2012, pp. 78-97, ISBN: 9780415621243.
- B13. Tecchio G., Caldon M., Marchesini F.P., Zanini M.A., Donà M., Pellegrino C., Modena C. (2014). "Fatigue cracks in orthotropic plates – a case study", in A. Chen, D.M. Frangopol and X. Ruan (eds.) *Bridge Maintenance, Safety, Management and Life Extension - Proc. of the 7th International Conference on Bridge Maintenance, Safety and Management - IABMAS 2014*, Shanghai, China, 7th-11th July 2014, ISBN: 9781138001039.
- B14. Carturan F., Pellegrino C., Modena C. (2014). "Exploring the economic consequences of the risk induced by earthquakes", in A. Chen, D.M. Frangopol and X. Ruan (eds.) *Bridge Maintenance, Safety, Management and Life Extension - Proc. of the 7th International Conference on Bridge Maintenance, Safety and Management - IABMAS 2014*, Shanghai, China, 7th-11th July 2014, ISBN: 9781138001039.
- B15. Marchesini F.P., Morbin R., Pellegrino C., Modena C. (2014). "Fatigue vulnerability analysis of a historical railway steel bridge", in A. Chen, D.M. Frangopol and X. Ruan (eds.) *Bridge Maintenance, Safety, Management and Life Extension - Proc. of the 7th International Conference on Bridge Maintenance, Safety and Management - IABMAS 2014*, Shanghai, China, 7th-11th July 2014, ISBN: 9781138001039.
- B16. Zanini M.A., Morbin R., Pellegrino C., Modena C. (2014). "Influence of relevant parameters on seismic vulnerability assessment of bridges", in A. Chen, D.M. Frangopol and X. Ruan (eds.) *Bridge Maintenance, Safety, Management and Life Extension - Proc. of the 7th International Conference on Bridge Maintenance, Safety and Management - IABMAS 2014*, Shanghai, China, 7th-11th July 2014, ISBN: 9781138001039.
- B17. Morbin R., Pellegrino C., Zanini M.A., Modena C., Zhang H. (2014). "Probabilistic framework for seismic assessment of common existing RC bridge typologies", in A. Chen, D.M. Frangopol and X. Ruan (eds.) *Bridge Maintenance, Safety, Management and Life Extension - Proc. of the 7th International Conference on Bridge Maintenance, Safety and Management - IABMAS 2014*, Shanghai, China, 7th-11th July 2014, ISBN: 9781138001039.
- B18. Mazzucco G., Xotta G., Pomaro B., Majorana C.E., Faleschini F., Pellegrino C. (2015). "Mesoscale Modelling of Concrete with Recycled Aggregates", in Kollegger J., Hellmich C., Pichler B. (eds.) *CONCREEP 2015: Mechanics and Physics of Creep, Shrinkage, and Durability of Concrete and Concrete Structures - Proceedings of the 10th International Conference on Mechanics and Physics of Creep, Shrinkage, and Durability of Concrete and Concrete Structures*. Vienna, Austria, 21-23 September 2015, ISBN: 978-078447934-6, DOI: 10.1061/9780784479346.101.
- B19. Hadas Y., Rossi R., Gastaldi M., Pellegrino C., Zanini M.A., Modena C. (2015). "Optimal Critical Infrastructure Retrofitting Model for Evacuation Planning", *Transportation Research Procedia*, ISSN: 2352-1465, 10:714-724, DOI: 10.1016/j.trpro.2015.09.025.

- B20. Zanini M.A., Faleschini F., Hofer L., Franchetti P., Pellegrino C. (2016) "Maintenance and seismic retrofit cost assessment of existing bridges". In Bittencourt, Frangopol & Beck (Eds.) *Maintenance, Monitoring, Safety, Risk and Resilience of Bridges and Bridge Networks - Proc. of the 8th International Conference on Bridge Maintenance, Safety and Management - IABMAS2016*, Foz do Iguacu, Brazil, 26-30 June 2016, pp. 1106-1112, Taylor & Francis Group, London, ISBN 978-1-138-02851-7.
- B21. Zanini M.A., Faleschini F., Pellegrino C. (2016) "Seismic loss assessment of deteriorating bridge networks". In Bittencourt, Frangopol & Beck (Eds.) *Maintenance, Monitoring, Safety, Risk and Resilience of Bridges and Bridge Networks - Proc. of the 8th International Conference on Bridge Maintenance, Safety and Management - IABMAS2016*, Foz do Iguacu, Brazil, 26-30 June 2016, pp. 1145-1152, Taylor & Francis Group, London, ISBN 978-1-138-02851-7.
- B22. Pellegrino C., Giacomini G., Perlo R.A. (2016) "Strengthening of bridges with pretensioned FRP laminates: Experimental investigation and a case study". In Bittencourt, Frangopol & Beck (Eds.) *Maintenance, Monitoring, Safety, Risk and Resilience of Bridges and Bridge Networks - Proc. of the 8th International Conference on Bridge Maintenance, Safety and Management - IABMAS2016*, Foz do Iguacu, Brazil, 26-30 June 2016, pp. 1145-1152, Taylor & Francis Group, London, ISBN 978-1-138-02851-7.
- B23. Andreotti M., Mocellin P., Zanini M.A., Vianello C., Pellegrino C., Modena C., Maschio G. (2016) "Structural behaviour of multi-storey buildings subjected to internal explosion", *Chemical Engineering Transactions*, Vol. 48, pp. 421-426, ISSN 2283-9216 DOI: 10.3303/CET1648071 (2016 Impact Factor 1.03).
- B24. Vianello C., Zanini M.A., Pellegrino C., Maschio G. (2016) "Probabilistic fault tree analysis of refinery plant components subject to earthquake scenarios", *Chemical Engineering Transactions*, Vol. 53, pp. 97-102, ISSN 2283-9216 DOI: 10.3303/CET1653017 (2016 Impact Factor 1.03).

C) International peer-reviewed ISI publications

- C1. Schrefler B.A., Galvanetto U., Pellegrino C., Ohmenhauser F. (1999). "Global Non-Linear Behaviour of Periodic Composite Materials", Invited Lecture, in H.A. Mang and F.G. Rammerstorfer (eds.), *IUTAM Symposium on Discretisation Methods in Structural Mechanics*. Vienna, Austria, 2-6 June 1997, Book Series: Solid Mechanics and its applications, Vol. 68, Kluwer Academic Publishers, pp. 265-272, ISBN: 9780792355915.
- C2. Pellegrino C., Galvanetto U., Schrefler B.A. (1997). "Computational Techniques for Periodic Composite Materials with Elasto-Plastic Components", in D.R.J. Owen, E. Onate and E. Hinton (eds.), *Computational Plasticity: Fundamentals and Applications*, CIMNE, Barcelona, Spain, March 17-20, 1997, pp. 1229-1236, ISBN: 0906674794.
- C3. Modena C., Pellegrino C., Golfetto G., (1999). "Shear strengthening of concrete beams with FRP laminate", in Y. Ohama and M. Puterman (eds.), *2<sup>nd</sup> International RILEM Symposium on Adhesion between Polymers and Concrete*, Book Series: Rilem Proceedings Vol. 9, RILEM Publications, pp. 375-386, ISBN: 291214311X.
- C4. Pellegrino C., Boschetto G., Tinazzi D., Modena C. (2005). "Progress on understanding bond behaviour in RC elements strengthened with FRP", *Bond Behaviour of FRP in Structures: Proceedings of the International Symposium BBFS 2005*, Hong Kong, China, IIFC, pp. 63-68, ISBN: 9623675062.
- C5. Pipinato A., Pellegrino C., Modena C. (2007). "Static load tests on an historical steel railway bridge", *Proceedings of the 9th International Conference on Steel Space and Composite Structures*, Beijing, China, CI-PREMIER PTE LTD, pp. 217-224, ISBN: 9789810575890.
- C6. Pipinato A., Pellegrino C., Modena C. (2011). "Correlation between fatigue effects and seismic actions in highway steel bridges", in *Proc. of Eurodyn 2011 - 8<sup>th</sup> International Conference on*

*Structural Dynamics*, Leuven, Belgium, 4-6 July 2011 (DeRoeck G., Degrande G., Lombae G. et al. Eds.) pp. 1118-1123, ISBN: 978-90-760-1931-4, ISSN: 2311-9020.

- C7. Faleschini F., Brunelli K., Zanini M.A., Dabalà M., Pellegrino C. (2015). "Electric Arc Furnace Slag as Coarse Recycled Aggregate for Concrete Production", *Journal of Sustainable Metallurgy*, Vol. 2(1), pp. 44-50, ISSN: 2199-3823 (print version), ISSN: 2199-3831 (electronic version), DOI: 10.1007/s40831-015-0029-1.

D) International peer-reviewed Scopus publications

- D1. Pellegrino C., Caon E., Cazzanella M., Manera M., Modena C. (2006). "Interaction between FRP shear strengthening and transverse steel reinforcement in RC beams", in Alexander (ed.) *Concrete Repair, Rehabilitation and Retrofitting - Proceedings of the International Conference on Concrete Repair, Rehabilitation and Retrofitting, ICCRRR 2005*, Cape Town, South Africa, 21-23 November 2005, pp. 1259-1264, ISBN: 0415396565.
- D2. Pipinato A., Pellegrino C., Modena C. (2008). "Scheduled maintenance actions and residual life evaluation of railway infrastructures for metallic structure bridges", *Ingegneria Ferroviaria*, Vol. 3 N. 2, pp. 125-134, ISSN: 0020-0956.
- D3. Rossi R., Gastaldi M., Carturan F., Pellegrino C., Modena C. (2012). "Planning and management of actions on transportation system to address extraordinary events in post-emergency situations. A multidisciplinary approach", *European Transport/Trasporti Europei*, 51, paper N. 2, pp. 1-20, ISSN: 1825-3997.
- D4. D'Antino T., Pellegrino C., Salomoni V., Mazzucco G. (2012). "Shear behaviour of RC structural members strengthened with FRP materials: a three dimensional numerical approach", *ACI Special Publication (SP286-05)*, Vol. 286, pp. 69-84, ISSN: 01932527, ISBN: 978-162276638-3.
- D5. Pipinato A., Pellegrino C., Modena C. (2012). "Fatigue Behaviour of Steel Bridge Joints Strengthened with FRP Laminates", *Modern Applied Science*, Vol. 6, N. 6, pp. 1-14, ISSN 1913-1844, E-ISSN 1913-1852, DOI: 10.5539/mas.v6n10p1.
- D6. Pellegrino C., Faleschini F. (2012). "Experimental investigation on RC beams containing slag as recycled aggregate", in Bager and Silfwerbrand (eds.) *Concrete Structures for Sustainable Community – Proc. of fib Symposium*, Stockholm, Sweden, 11-14 June 2012, pp. 451-454, ISBN: 9789198009811.
- D7. Pipinato A., Pellegrino C., Modena C. (2012). "Coupled damage in assessing the lifetime of bridges and viaducts", in A. Strauss, D.M. Frangopol and K. Bergmeister (eds.) *Life-Cycle and Sustainability of Civil Infrastructure Systems – Proc. of the 3rd International Symposium on Life-Cycle Civil Engineering, IALCCE 2012*, Vienna, Austria, 3-6 October 2012, pp. 2292-2297, ISBN 9780415621267.
- D8. Pipinato A., Pellegrino C., Modena C. (2013). "Residual life of historic riveted steel bridges: an analytical approach", *Proceedings of the ICE (Institution of Civil Engineers) - Bridge Engineering*, Vol. 167, pp. 17-32. ISSN: 1478-4637, E-ISSN: 1751-7664, DOI: 10.1680/bren.11.00014.
- D9. Pellegrino C., D'Antino T. (2013). "Failure due to delamination in concrete elements strengthened with cementitious composites", Keynote Lecture, in J.G.M. van Mier, G. Ruiz, C. Andrade, R.C. Yu and X.X. Zhang (eds.) *FraMCoS-8 Fracture Mechanics of Concrete and Concrete Structures - Proc. of 8th International Conference on Fracture Mechanics of Concrete and Concrete Structures (FraMCoS-8)*, Toledo, Spain, 10-14 March 2013, pp. 138-143, ISBN: 9788494100413.
- D10. Esmaeeli E., Sena-Cruz J., Barros J.A.O., Melo J., Lobo B., Varum H., Costa A., Fasan L., Li Prizzi F., Pellegrino C. (2014). "Novel prefabricated panels for the repair of damaged interior RC

beam-column joints”, in El-Hacha (Ed.) *Proceedings of the 7th International Conference on FRP Composites in Civil Engineering, CICE 2014*, Vancouver, Canada, 20-22 August 2014, ISBN: 9781771363082.

- D11. Pellegrino C., Zanini M.A., Zampieri P., Modena C. (2015). “In-situ investigations for the seismic assessment of existing bridges”, *Key Engineering Materials*, Vol. 628, pp. 102-108, ISSN: 1662-9795, DOI:10.4028/www.scientific.net/KEM.628.102.
- D12. D’Antino T., Pellegrino C., Carloni C., Sneed L.H., Giacomini G. (2015) “Experimental analysis of the bond behavior of glass, carbon, and steel FRCM composites”, *Key Engineering Materials*, Vol. 624, pp. 371-378, ISSN: 1662-9795, DOI: 10.4028/www.scientific.net/KEM.624.371.
- D13. Zanini M.A., Faleschini F., Pellegrino C., Modena C. (2015). “Management of post-earthquake verifications for railway infrastructures”, *Ingegneria Ferroviaria*, Vol. 9 N. 5, pp. 691-714, ISSN: 0020-0956.
- D14. Gonzalez J., Faleschini F., D’Antino T., Pellegrino C. (2015). Bond behaviour and sustainability of Fibre Reinforced Cementitious Matrix composites applied to masonry elements. in J. Kruis, Y. Tsompanakis, B.H.V. Topping, (Editors), *Proc. of the Fifteenth International Conference on Civil, Structural and Environmental Engineering Computing - CIVIL COMP 2015*, Vol. 108, Civil-Comp Press, Stirlingshire, UK, ISSN 1759-3433, DOI:10.4203/ccp.108.112.
- D15. Carloni C., D’Antino T., Sneed L.H., Pellegrino C. (2015). An Investigation of PBO FRCM-Concrete joint behavior using a three-dimensional numerical approach. in J. Kruis, Y. Tsompanakis, B.H.V. Topping, (Editors), *Proc. of the Fifteenth International Conference on Civil, Structural and Environmental Engineering Computing - CIVIL COMP 2015*, Vol. 108, Civil-Comp Press, Stirlingshire, UK, ISSN 1759-3433, DOI: 10.4203/ccp.108.113.
- D16. Zanini M.A., Pellegrino C., Rossi R., Gastaldi M., Modena C. (2015). “A probabilistic approach in estimating optimal evacuation scenarios for seismic emergency management”, *Proc. of the 12th International Conference on Applications of Statistics and Probability in Civil Engineering, ICASP 2015*, Vancouver, Canada, 12-15th July 2015, ISBN: 978-088865245-4.
- D17. Gonzalez-Libreros J., D’Antino T., Pellegrino C. (2017) “Experimental behavior of glass-FRCM composites applied onto masonry and concrete substrates”, *Key Engineering Materials*, Vol. 747, pp. 390-397, ISSN: 1662-9795, DOI: 10.4028/www.scientific.net/KEM.747.390.
- D18. D’Antino T., Gonzalez-Libreros J.H., Pellegrino C., Carloni C., Sneed L.H. (2018) “Performance of Different Types of FRCM Composites Applied to a Concrete Substrate”, in V. Mechtcherine et al. (eds.), *Strain-Hardening Cement-Based Composites*, RILEM Bookseries 15, DOI 10.1007/978-94-024-1194-2\_89.
- D19. Gonzalez-Libreros J.H., Sabau C., Sneed L.H., Sas G., Pellegrino C. (2018) “Effect of Confinement with FRCM Composites on Damaged Concrete Cylinders””, in V. Mechtcherine et al. (eds.), *Strain-Hardening Cement-Based Composites*, RILEM Bookseries 15, DOI 10.1007/978-94-024-1194-2\_88.

#### E) *ISI/Scopus International book chapters*

- E1. Sena-Cruz J., Barros J., Coelho M. Pellegrino C. (2014). “Advancements in Retrofitting Reinforced Concrete Structures by the Use of CFRP Materials”, in A. Costa et al. (eds.), *Structural Rehabilitation of Old Buildings, Building Pathology and Rehabilitation Vol. 2*, pp. 259-284, Springer-Verlag Berlin Heidelberg 2014, ISSN 2194-9832 (Print), 2194-9840 (electronic), ISBN: 978-3-642-39685-4 (Print), 978-3-642-39686-1 (ebook), DOI: 10.1007/978-3-642-39686-1\_9.
- E2. Mazzotti C., Bilotta A., Carloni C., Ceroni F., D’Antino T., Nigro E., Pellegrino C. (2016). “Bond Between EBR FRP and Concrete”, in C. Pellegrino and J. Sena-Cruz (eds.), *Design Procedures for the Use of Composites in Strengthening of Reinforced Concrete Structures - State-of-the-*

Art Report of the RILEM Technical Committee 234-DUC, pp. 39-96, Springer Netherlands, Series "RILEM State-of-the-Art Reports", Vol. 19, Series ISSN 2213-204X, ISBN: 978-94-017-7335-5 (Print), 978-94-017-7336-2 (online), DOI: 10.1007/978-94-017-7336-2\_3.

- E3. Monti G., D'Antino T., Lignola G.P., Pellegrino C., Petrone F. (2016). "Shear Strengthening of RC Elements by Means of EBR FRP Systems", in C. Pellegrino and J. Sena-Cruz (eds.), Design Procedures for the Use of Composites in Strengthening of Reinforced Concrete Structures - State-of-the-Art Report of the RILEM Technical Committee 234-DUC, pp. 97-130, Springer Netherlands, Series "RILEM State-of-the-Art Reports", Vol. 19, Series ISSN 2213-204X, ISBN: 978-94-017-7335-5 (Print), 978-94-017-7336-2 (online), DOI: 10.1007/978-94-017-7336-2\_4.
- E4. Pantazopoulou S., Balafas I., Bournas D., Guadagnini M., D'Antino T., Lignola G.P., Napoli A., Pellegrino C., Prota A., Realfonzo R., Tastani S. (2016). "Confinement of RC Elements by Means of EBR FRP Systems", in C. Pellegrino and J. Sena-Cruz (eds.), Design Procedures for the Use of Composites in Strengthening of Reinforced Concrete Structures - State-of-the-Art Report of the RILEM Technical Committee 234-DUC, pp. 131-194, Springer Netherlands, Series "RILEM State-of-the-Art Reports", Vol. 19, Series ISSN 2213-204X, ISBN: 978-94-017-7335-5 (Print), 978-94-017-7336-2 (online), DOI: 10.1007/978-94-017-7336-2\_5.
- E5. Michels J., Barros J., Costa I., Sena-Cruz J., Czaderski C., Giacomini G., Kotynia R., Lees J., Pellegrino C., Zile E. (2016). "Prestressed FRP Systems", in C. Pellegrino and J. Sena-Cruz (eds.), Design Procedures for the Use of Composites in Strengthening of Reinforced Concrete Structures - State-of-the-Art Report of the RILEM Technical Committee 234-DUC, pp. 263-301, Springer Netherlands, Series "RILEM State-of-the-Art Reports", Vol. 19, Series ISSN 2213-204X, ISBN: 978-94-017-7335-5 (Print), 978-94-017-7336-2 (online), DOI: 10.1007/978-94-017-7336-2\_7.
- E6. Carloni C., Bournas D.A., Carozzi F.G., D'Antino T., Fava G., Focacci F., Giacomini G., Mantegazza G., Pellegrino C., Perinelli C., Poggi C. (2016). "Fiber Reinforced Composites with Cementitious (Inorganic) Matrix", in C. Pellegrino and J. Sena-Cruz (eds.), Design Procedures for the Use of Composites in Strengthening of Reinforced Concrete Structures - State-of-the-Art Report of the RILEM Technical Committee 234-DUC, pp. 349-392, Springer Netherlands, Series "RILEM State-of-the-Art Reports", Vol. 19, Series ISSN 2213-204X, ISBN: 978-94-017-7335-5 (Print), 978-94-017-7336-2 (online), DOI: 10.1007/978-94-017-7336-2\_9.

#### F) Other International book chapters

- F1. Modena C., Tecchio G., Pellegrino C., da Porto F., Zanini M.A., Donà M. (2014). "Retrofitting and Refurbishment of Existing Road Bridges" in D.M. Frangopol and Y. Tsompanakis (eds.), Maintenance and Safety of Aging Infrastructure, pp. 469-533, CRC press, Print ISBN: 978-0-415-65942-0, eBook ISBN: 978-0-203-38628-6.

#### G) Other peer-reviewed publications

- G1. Pipinato A., Pellegrino C., Modena C. (2012). "Fatigue Damage Estimation in Existing Railway Steel Bridges by Detailed Loading History Analysis" ISRN Civil Engineering, Vol. 2012, Article ID 231674, pp. 1-13, ISSN: 2090-5114 (Online), DOI: 10.5402/2012/231674.

#### H) Discussion papers

- H1. Maiorana E., Pellegrino C., Modena C. (2010). Response to discussion by O. Bedair of "Imperfections in steel girder webs with and without perforations under patch loading", *Journal of Constructional Steel Research*, Vol. 66, N. 4, pp. 608-609, ISSN: 0143-974X, DOI: 10.1016/j.jcsr.2009.12.010.

#### I) Invited/Keynote lectures

- I1. Pellegrino C., Galvanetto U., Schrefler B.A. (1997). "Elasto-plastic behaviour and interfacial sliding in periodic composite structures", Invited Lecture, in S.N. Atluri and G. Yagawa (eds.), *Advances in Computational Engineering Science*, Tech Science Press, USA, pp. 613-618, ISBN: 9780965700108.
- C1. Schrefler B.A., Galvanetto U., Pellegrino C., Ohmenhauser F. (1999). "Global Non-Linear Behaviour of Periodic Composite Materials", Invited Lecture, in H.A. Mang and F.G. Rammerstorfer (eds.), *IUTAM Symposium on Discretisation Methods in Structural Mechanics*. Vienna, Austria, 2-6 June 1997, Book Series: Solid Mechanics and its applications, Vol. 68, Kluwer Academic Publishers, pp. 265-272, ISBN: 9780792355915.
- I2. Majorana C., Mazzucco G., Pellegrino C., Salomoni V. (2010). "Numerical and Experimental Analyses of Welding Processes with Engineering Applications", Keynote lecture, *International Symposium on Plasticity 2010*, St. Kitts, USA, 3rd-8th January 2010.
- B12. Modena C., Pellegrino C., Tecchio G., da Porto F., Morbin R., Grendene M. (2012). "Assessment and retrofitting of existing bridges", Keynote lecture, in F. Biondini and D.M. Frangopol (eds.) *Bridge Maintenance, Safety, Management, Resilience and Sustainability - Proc. of the 6th International Conference on Bridge Maintenance, Safety and Management, IABMAS 2012*, Stresa, Italy, 8-12 July 2012, pp. 78-97, ISBN: 9780415621243 (inclusa anche al punto B – International peer-reviewed Scopus publications).
- D9. Pellegrino C., D'Antino T. (2013). "Failure due to delamination in concrete elements strengthened with cementitious composites", Keynote Lecture, in J.G.M. van Mier, G. Ruiz, C. Andrade, R.C. Yu and X.X. Zhang (eds.) *FraMCoS-8 Fracture Mechanics of Concrete and Concrete Structures - Proc. of 8th International Conference on Fracture Mechanics of Concrete and Concrete Structures (FraMCoS-8)*, Toledo, Spain 10-14 March 2013, pp. 138-143, ISBN: 9788494100413 (inclusa anche al punto B – International peer-reviewed Scopus publications).

L) Proceedings of international conferences

- L1. Pellegrino C., Galvanetto U., Taeschner M., Schrefler B.A. (1998). "Recovery of stresses in composite materials: a three dimensional approach", in A.J. Ferrante, M.V. Rodriguez, B.A. Schrefler, A. Natali (eds.), *Computational Mechanics and the Use of Computers in Engineering*, Univer Cidade, Brasil, pp. 89-95.
- L2. Modena C., Pellegrino C., Valluzzi M.R. (2000). "Experimental results and analytical modelling of steel to concrete bond in presence of splitting cracks", *Proc. of EM2000, 14th Engineering Mechanics Conference (ASCE)*, Austin, USA, May 21-24, 2000.
- L3. Pellegrino C., Bernardini A., Modena C., (2002). "Shear Failure of HSC beams with variable shear span-to-depth ratios", in G. König, F. Dehn, T. Faust (eds.), *Proc. of 6th Int. Symp. on Utilization of High Strength/High Performance Concrete*, Leipzig, Germany, June 16-20, 2002, Vol. 1, pp. 473-484, ISBN: 3934178189.
- L4. Pellegrino C., Tinazzi D., Modena C. (2002). "About RC beams strengthened in shear with FRP sheets", *Concrete Structures in the 21st Century, Proc. of The First fib Congress 2002*, Osaka, Japan, 13-19 October, 2002, Vol. 1 S. 5.35 and CD-ROM.
- L5. Tinazzi D., Pellegrino C., Cadelli G., Barbato M., Modena C., Gottardo R. (2003). "An experimental study of RC columns confined with FRP sheets", *Proc. of Structural Faults & Repair, 10th Int. Conf.*, London, UK, 1-3 July, 2003.
- L6. Pellegrino C., Franchetti P., Soffiato A., Modena C., Bruno D. (2004). "Evaluation Criteria for Bridge Maintenance", in Watanabe et al. (eds.) *Proc. of the 2nd International Conference on Bridge Maintenance, Safety and Management, IABMAS '04*, Kyoto, Japan, October, 19-22, 2004, ISBN: 9058096807.

- L7. Zanardo G., Pellegrino C., Modena C. (2004). "Static and Seismic Performance of Typical RC Arch Bridges", in Watanabe et al. (eds.) *Proc. of the 2nd International Conference on Bridge Maintenance, Safety and Management, IABMAS '04*, Kyoto, Japan, October, 19-22, 2004, ISBN: 9058096807.
- L8. Franchetti P., Grendene M., Pellegrino C., Modena C. (2004). "A methodological approach to bridge maintenance and criteria for seismic risk evaluation", *18th Australasian Conference on the Mechanics of Structures & Materials*, Perth, Western Australia, 1-3 December 2004.
- L9. Majorana C.E., Pellegrino C., Salomoni V., Mazzucco G. (2005). "Creep, shrinkage and durability effects in concrete girders components of bridge structures", *International Conference on creep, shrinkage and durability of concrete and concrete structures, CONCREEP 7*, Nantes, France, 12-14 September 2005.
- L10. Boschetto G., Pellegrino C., Tinazzi D., Modena C. (2006). "Bond behaviour between FRP sheets and concrete: an experimental study", *Proc. of the 2nd fib Congress*, Naples, Italy, 5-8 June 2006, ISBN: 9788889972052.
- L11. Valluzzi M.R., Grinzato E., Pellegrino C., Bison P.G. Trentin R. (2006). "Thermographic analysis of bond of FRP laminates applied on r.c. beams", in Marchand et al. (eds.) *Proc. of the 2nd International RILEM Symposium on Advances in Concrete Trough Science and Engineering*, Quebec City, Canada, 11-13 September 2006, RILEM Publications, ISBN: 2351580036.
- L12. Pellegrino C., Valluzzi M.R., Grinzato E., Trentin R., Modena C. (2007). "Evaluation of the interface between FRP laminates and concrete by means of IR thermography", in Triantafillou (ed.) *Fiber Reinforced Polymer Reinforcement for Concrete Structures – Proc. of the 8th International Symposium on Fiber Reinforced Polymer Reinforcement for Concrete Structures, FRPRCS-8*, Patras, Greece, 16-18 July 2007, ISBN: 9789608969100.
- L13. De Zotti A., Pellegrino C., Modena C. (2007). "A parametric study of the hanger arrangement in arch bridges", *5th International Conference on Arch Bridges, ARCH '07*, Madeira, Portugal, 12-14 September, 2007.
- L14. Pipinato A., Pellegrino C., Modena C. (2008). "Fatigue assessment of metal railway bridges", *7th International Conference on Steel Bridges*, Guimaraes, Portugal, 4-6 June, 2008.
- L15. Busatta F., Pellegrino C., Grendene M., Modena C. (2008). "A new stone stress ribbon pedestrian bridge in Verona", *Footbridge 2008 Third International Conference*, Porto, Portugal, 2-4 July, 2008.
- L16. Pipinato A., Pellegrino C., Modena C. (2008). "Evaluation of fatigue strength of one riveted historical railway bridge", in Koh and Frangopol (eds). *Bridge Maintenance, Safety Management, Health Monitoring and Informatics - Proc. of the Fourth International Conference on Bridge Maintenance, Safety and Management, IABMAS'08*, Seoul, Korea, 13-17 July, 2008, ISBN: 9780415468442.
- L17. Pellegrino C., Modena C. (2008). "Bond-slip relationships between FRP sheets and concrete", in Motavalli (ed.) *Proc. of Fourth International Conference on FRP Composites in Civil Engineering (CICE2008)*, Zurich, Switzerland, 22-24 July 2008, ISBN: 9783905594508.
- L18. Pipinato A., Pellegrino C., Modena C. (2008). "Numerical and experimental study on fatigue behaviour of critical details in railway bridges", *2nd International Workshop on Civil Structural Health Monitoring (CSHM2)*, Taormina, Italy, 28 September-1 October, 2008.
- L19. Maiorana E., Pellegrino C., Modena C. (2008). "Innovative joints with post-tensioned cables and dampers: analytical and numerical modelling", *Eurosteel 2008*, Graz, Austria, 3-5 September 2008.

- L20. Maiorana E., Pellegrino C., Modena C. (2009). "Experimental behaviour of plates with and without holes subjected to localised loads", *ICASS 2009, Sixth International Conference on Advances in Steel Structures*, Hong Kong, China, 16-18 December 2009.
- L21. Pellegrino C., Mazzucco G., Salomoni V., Maiorana C.E. (2010) "Experimental and 3D numerical study on bond behaviour between concrete and FRP composites", *ECCM 2010 - IV European Conference on Computational Mechanics*, Paris, France, 16-21 May 2010.
- L22. Casadei E., Pellegrino C., Modena C. (2010). "Assessment of analytical formulations for rotational capacity of FRP confined elements", *14ECEE 14th European Conference on Earthquake Engineering*, Ohrid, Republic of Macedonia, 30th August – 3rd September, 2010, ISBN: 9786086518516.
- L23. Morbin R., Pellegrino C., Grendene M., Modena C. (2010). "Strategies for seismic vulnerability evaluation of common RC bridges typologies", *14ECEE 14th European Conference on Earthquake Engineering*, Ohrid, Republic of Macedonia, 30th August – 3rd September, 2010, ISBN: 9786086518516.
- L24. Carturan F., Pellegrino C., Zampellini A., Modena C., Rossi R., Gastaldi M. (2010). "A procedure for the evaluation of the seismic vulnerability of bridge networks", *14ECEE 14th European Conference on Earthquake Engineering*, Ohrid, Republic of Macedonia, 30th August – 3rd September, 2010, ISBN: 9786086518516.
- L25. Mazzucco G., Salomoni V., Pellegrino C., Majorana C. (2010). "Comparisons between numerical and experimental results for FRP strengthened concrete elements", *CST2010 The Tenth International Conference on Computational Structures Technology*, Valencia, Spain, 14-17 September 2010 , ISBN: 9781905088362.
- L26. Pellegrino C., Pipinato A., Fregno G., Modena C. (2010). "Arranging geometric configuration of cable-stayed bridges taking fatigue into account", *Proc. of 34th IABSE Symposium, Large Structures and Infrastructures for Environmentally Constrained and Urbanised Areas*, Venice, Italy, 22-24 September 2010, ISBN: 9783857481222.
- L27. Pipinato A., Gueli M., Pellegrino C., Modena C. (2010). Innovative Methods for Railway Steel Bridge Remaining Life Estimation", *Proc. of 34th IABSE Symposium, Large Structures and Infrastructures for Environmentally Constrained and Urbanised Areas*, Venice, Italy, 22-24 September 2010, ISBN: 9783857481222.
- L28. Pipinato A., Belon M., Casarin F., Dalla Benetta M., Pellegrino C., Modena C. (2010). "Monitoring and dynamic identification of an historical metal bridge in Italy" *IALCCE 2010 2nd International Symposium on Life-Cycle Civil Engineering*, Taipei, Taiwan, 27-30 October 2010.
- L29. Zanini M.A., Carturan F., Morbin R., Pellegrino C., Modena C. (2012). "Deterioration analysis and seismic retrofit of reinforced concrete bridges", *Multi-Physics Numerical Modeling and Computational Strategies Mini-Symposium*, Padova, Italy, 17-18 May 2012, pp. 91-94, .
- L30. Pellegrino C., Salomoni V., Mazzucco G., D'Antino T., Majorana C., Modena C. (2012). "Experimental and numerical investigations on RC structures strengthened by means of FRP composites", *Multi-Physics Numerical Modeling and Computational Strategies Mini-Symposium*, Padova, Italy, 17-18 May 2012, pp. 57-62.
- L31. D'Antino T., Pellegrino C. (2012). "Assessments of current models for FRP shear strengthened reinforced concrete beams", *The 6th International Conference on FRP Composites in Civil Engineering, CICE 2012*, Rome, Italy, 13-15 June 2012 (CD-Rom).
- L32. Pellegrino C., D'Antino T., Giacomini G., Franchetti P., da Porto F. (2012). "Experimental investigation on existing precast PRC elements strengthened with cementitious composites", *The 6th International Conference on FRP Composites in Civil Engineering, CICE 2012*, Rome, Italy, 13-15 June 2012 (CD-Rom).

- L33. D'Antino T., Pellegrino C. (2012). "Assessments of some analytical models for the bond strength between FRP and concrete", in Cairns et al. (eds.) *Bond in new materials and under severe conditions - Proc. of Bond in Concrete 2012: Bond, Anchorage, Detailing – Fourth International Symposium*, Brescia, Italy, 17-20 June 2012, Vol. 2, pp. 1079-1086, ISBN: 9788890707834.
- L34. Pellegrino C. (2012). "Assessments of existing bond formulations for prestressed concrete elements", in Cairns et al. (eds.) *General aspects of bond - Proc. of Bond in Concrete 2012: Bond, Anchorage, Detailing – Fourth International Symposium*, Brescia, Italy, 17-20 June 2012, Vol. 1, pp. 403-410, ISBN: 9788890707810.
- L35. Zanini M.A., Pellegrino C., Modena C. (2013). "Rehabilitation and seismic retrofit of bridges subjected to reinforcement corrosion", in Gettu et al. (eds.) *Rehabilitation and Restoration of Structures - Proc. of an International Conference held at IIT Madras, Chennai, India*, 13-16 February, 2013, pp. 211-218, ISBN 9789380689104.
- L36. Tecchio G., Donà M., Casarin F., Islami K., Zanini M.A., Pellegrino C., Modena C. (2013). "Monitoring of fatigue effects in an orthotropic steel bridge deck", *International IABSE Conference. Assessment, Upgrading and Refurbishment of Infrastructures*, Rotterdam, The Netherlands, 6-8 May, 2013.
- L37. D'Antino T., Sneed L.H., Carloni C., Pellegrino C. (2013). "Bond behavior of the FRCM-concrete interface", *11th International Symposium on Fiber Reinforced Polymer Reinforcement for Concrete Structures, FRPRCS-11*, Guimaraes, Portugal, 26-28 June 2013.
- L38. Ceccato C., D'Antino T., Mazzucco G., Pellegrino C. (2013). "Numerical strategies for modelling RC columns confined by means of FRP composites", *11th International Symposium on Fiber Reinforced Polymer Reinforcement for Concrete Structures, FRPRCS-11*, Guimaraes, Portugal, 26-28 June 2013.
- L39. Faleschini F., Pellegrino C. (2013). "An experimental study about the possibility of substituting natural aggregates with EAF slag in concrete production", *7th International RILEM Conference on Self-Compacting Concrete, 1st International RILEM Conference on Rheology and Processing of Construction Materials (Joined Conferences)*, Paris, France, 2nd-4th September 2013.
- L40. Faleschini F., Pellegrino C. (2014). Use of metallurgical industry by-products as sustainable route for concrete production", *Concrete Innovation Conference 2014 – CIC 2014*, Oslo, Norway, 10th-13th June 2014.
- L41. Morbin R., Faleschini F., Zanini M.A., Caldon M., Marchesini F.P., Maiorana E., Pellegrino C. (2014). "Improvement of dynamic behaviour of the Varesine-Garibaldi footbridge (Milan, Italy) with TMD", *CST2014 - The Twelfth International Conference on Computational Structures Technology*, Naples, Italy, 2nd-5th September 2014.
- L42. Mazzucco G., Pellegrino C., Salomoni V.A., Maiorana C., (2014). "Three-dimensional simulation of FRP reinforced jacket in concrete columns", *CST2014 - The Twelfth International Conference on Computational Structures Technology*, Naples, Italy, 2nd-5th September 2014.
- L43. Faleschini F., Brunelli K., Dabalà M., Pellegrino C. (2015) "High performances concrete with EAF slag as coarse aggregates". *Slag Valorisation Symposium*, Leuven, Belgium, 15-17 April 2015. ISBN-10: 9460189725, ISBN-13: 978-946018972.
- L44. Mazzucco G., Xotta G., Pomaro B., Faleschini F., Pellegrino C., Majorana C. (2015) "Compelling issues in modelling concrete with recycled aggregates". *The Fourth International Conference on Computational Modeling of Fracture and Failure of Materials and Structures - CFRAC 2015*, Cachan, France, 3-5th June 2015.
- L45. Faleschini F., Zanini M.A., Brunelli K., Pellegrino C. (2015). "Use of Electric Arc Furnace slag for high strength concrete production", *Applied Mechanics and Materials*, 847: 537-543. ISSN 1662-7482, DOI: 10.4028/www.scientific.net/AMM.847.537.

- L46. Zanini M.A., Faleschini F., Morbin R., Gastaldi M., Rossi R., Pellegrino C., Modena C. (2015). "Interaction between building collapse and road serviceability during seismic emergency operations in urban centers", *Applied Mechanics and Materials*, 847: 319-324. ISSN 1662-7482, DOI: 10.4028/www.scientific.net/AMM.847.319.
- L47. D'Antino T., Gonzalez J., Pellegrino C., Carloni C., Sneed L.H. (2015). "Experimental investigation of Glass and Carbon FRCM composite materials applied onto concrete supports", *Applied Mechanics and Materials*, Vol. 847, pp. 60-67, ISSN 1662-7482, DOI: 10.4028/www.scientific.net/AMM.847.60.
- L48. Carloni C., D'Antino T., Sneed L.H., Pellegrino C., (2015). "Effect of the inherent eccentricity in single-lap direct-shear tests of FRCM composites" *ICCS18, 18th International Conference on Composite Structures*, Lisbon, Portugal, 15th-18th June 2015.
- L49. Gonzalez J., D'Antino T., Pellegrino C. (2015) "Bond behaviour of basalt FRCM composites applied on RC elements", *SMAR 2015, Third Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures*, Antalya, Turkey, 7th-9th September 2015.
- L50. Ceccato C., Pellegrino C., Cusatis G. (2015) "Lattice discrete particle modeling (LDPM) of fiber reinforced polymers (FRP) confined concrete columns", *FRPRCS-12/APFIS-2015 – "The 12th International Symposium on Fiber Reinforced Polymers for Reinforced Concrete Structures & The 5th Asia-Pacific Conference on Fiber Reinforced Polymers in Structures - Joint conference"*, Nanjing, China, 14th-16th December 2015.
- L51. Faleschini F., Zanini M.A., Pellegrino C. (2015) "New perspectives in the use of electric arc furnace slag as coarse aggregate for structural concrete". *8th European Slag Conference*, Linz, Austria, 21-23th October 2015.
- L52. Ceccato R., Gastaldi M., Gecchele G., Diana M., Zanini M.A., Rossi R., Pellegrino C. (2016) "Road network vulnerability assessment. post-quake travel demand modelling and accessibility variation", *TRB – Transportation Research Board 95th Annual Meeting*, Washington D.C., 10-14 January, 2016.
- L53. Faleschini F., Brunelli K., Pellegrino C. (2016) "Valorization of electric arc furnace slag for concrete production". *3rd Symposium on Urban Mining*, Bergamo, Italy, 23-25th May 2016.
- L54. Faleschini F., Krunelli K., Dabalà M., Pellegrino C. (2016). "Electric arc furnace slag: a sustainable valorization in civil engineering applications". *11th European Electric Steelmaking Conference & Expo*. Venice, Italy, 25-27th May 2016.
- L55. Zanini M.A., Andreotti M., Mocellin P., Faleschini, F., Vianello C., Pellegrino C., Maschio G., Modena C. (2016). "Numerical analysis of the structural response of RC-framed buildings subjected to internal explosions". *16th International Brick and Block Masonry Conference*, Padova, Italy, 26-30th June 2016.
- L56. Faleschini F., Santamaria A., Pellegrino C., Gonzalez J.J. (2016) "Performance-based indicators for sustainable cement-based materials" *The New Boundaries of Structural Concrete 2016 (ACI Italy Chapter)*, Capri Island, Italy, 29 September - 1 October 2016.
- L57. Faleschini F., Zanini M.A., Pellegrino C. (2016) "Durability of Electric Arc Furnace slag concrete" *The New Boundaries of Structural Concrete 2016 (ACI Italy Chapter)*, Capri Island, Italy, 29 September - 1 October 2016.
- L58. Zanini M.A., Faleschini, F., Pellegrino C., "Bridge life-cycle prediction through visual inspection data updating", *IALCCE 16 – Fifth International Symposium on Life-Cycle Engineering*, Delft, The Netherlands, 16-19 October 2016.
- L59. Sabau C., Gonzalez-Libreros J.H., Sneed L.H., Pellegrino C. and Sas G. (2016) "Influence of the fiber type on the bonding of FRCM composite strips applied to concrete substrates", *CICE*

2016 - 8th International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering, Hong Kong, China, 14-16 December 2016.

- L60. Gonzalez-Libreros J.H., Sabau C., Sneed L.H., Pellegrino C. and Sas G. (2016) "Shear strengthening of RC beams with FRCM: what do we know so far?" *CICE 2016 - 8th International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering*, Hong Kong, China, 14-16 December 2016.
- L61. Gonzalez-Libreros J.H., Sabau C., Sneed L.H., Pellegrino C. and Sas G. (2016) "Experimental investigation on RC beams strengthened in shear with externally bonded composites" *CICE 2016 - 8th International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering*, Hong Kong, China, 14-16 December 2016.
- L62. Ceccato C., Zhou X., Pelessone D., Pellegrino C. and Cusatis G. (2016) "Reduced order approximation of the lattice discrete particle model for the simulation of FRP confined concrete columns" *CICE 2016 - 8th International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering*, Hong Kong, China, 14-16 December 2016.
- L63. Zampieri P., Curtarello A., Maiorana E., Pellegrino C. (2017) "Numerical analyses of corroded bolted connections", 2nd International Conference on Structural Integrity, ICSI 2017, Funchal, Madeira, Portugal, 4-7 September 2017, *Procedia Structural Integrity*, 5:592-599, ISSN: 2452-3216, DOI: 10.1016/j.prostr.2017.07.020.
- L64. Zampieri P., Curtarello A., Maiorana E., Pellegrino C., De Rossi N., Savio G., Concheri G. (2017) "Influence of corrosion morphology on the fatigue strength of bolted joints", 2nd International Conference on Structural Integrity, ICSI 2017, Funchal, Madeira, Portugal, 4-7 September 2017, *Procedia Structural Integrity*, 5:409-415, ISSN: 2452-3216, DOI: 10.1016/j.prostr.2017.07.189.
- L65. Gonzalez-Libreros J.H., Pellegrino C., D'Antino T., Sneed L.H. (2017) "Evaluation of External Transversal Reinforcement Strains of RC Beams Strengthened in Shear with FRCM Composites", *ACIC – 8th International Conference on Advanced Composites in Construction*, Sheffield, UK, 5-7 September 2017.
- L66. Faleschini F., Gonzalez-Libreros J.H., Hofer L., Sneed L.H., Pellegrino C. (2017) "Experimental behavior of a severely damaged RC beam-column joint repaired with FRCM composites", *SMAR 2017 – 4th Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures*, Zurich, Switzerland, 13–15 September 2017.
- L67. Gonzalez-Libreros J.H., D'Antino T., Sneed L.H., Pellegrino C., Giacomini G. (2017) "Internal and external transversal reinforcement interaction in RC beams strengthened in shear with externally bonded composites", *SMAR 2017 – 4th Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures*, Zurich, Switzerland, 13–15 September 2017.
- L68. Faleschini F., Zanini M.A., Hofer L., Pellegrino C. (2017) "Demolition waste management after recent Italian earthquakes", 16th International Waste Management and Landfill Symposium – Sardinia 2017, S. Margherita di Pula, Cagliari, Italy, 2-6 October 2017.
- L69. Zanini M.A., Hofer L., Faleschini F., Pellegrino C. (2017) "Is tornado risk adequately perceived in Italy?", *6th International Workshop on Design in Civil and Environmental Engineering – DCEE*, Cagliari, Italy, 9-11 November 2017.
- L70. Zanini M.A., Hofer L., Faleschini F., Pellegrino C. (2017) "The seismic risk map of Italy", *6th International Workshop on Design in Civil and Environmental Engineering – DCEE*, Cagliari, Italy, 9-11 November 2017.
- L71. da Silva Magalhães M., Faleschini F., Pellegrino C., Brunelli K. (2017) "An evaluation of electric arc furnaces dust as a replacement for cement in mortars", *17th International Conference on Non-Conventional Materials and Technologies "Construction for Sustainability Green Composite Materials & Technologies"*, 26-29 November 2017.

- L72. Sneed L.H., D'Antino T., Gonzalez-Libreros J.H., Carloni C., Pellegrino C. "Study of the matrix-fiber bond behavior of carbon and glass FRCM composites", *9th International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2018)*, Paris, 17-19 July 2018.
- L73. D'Antino T., Sneed L.H., Carloni C., Pellegrino C. "Numerical analysis of PBO FRCM-concrete joints", *9th International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2018)*, Paris, 17-19 July 2018.

M) National journals

- M1. Pellegrino C., Majorana C.E. (1995). "Modellazione ad elementi finiti della deformabilità differita e del ritiro nelle strutture da ponte", *Tecnica Italiana*, 1, pp. 35-55, ISSN: 0040-1846.
- M2. Pellegrino C., Valluzzi M.R., De Colle M., Modena C. (2000). "Travi in c.a. rinforzate con FRP. Modalità di rottura per flessione e per taglio", *L'Edilizia*, 1/2, pp. 28-37, ISSN: 1593-3970.
- M3. Tinazzi D., Cadelli G., Pellegrino C., Modena C. (2003). "Confinamento di colonne in calcestruzzo armato con tessuti FRP", *L'Edilizia*, 127, pp. 46-49, ISSN: 1593-3970.
- M4. Tinazzi D., Boschetto G., Pellegrino C., Modena C. (2003). "Studio sperimentale sull'aderenza tra calcestruzzo e tessuti CFRP", *L'Edilizia*, 127, pp. 30-33, ISSN: 1593-3970.
- M5. Pipinato A., Pellegrino C., Modena C. (2006). "Vibrazioni da traffico ferroviario nel contesto urbano di attraversamento: meccanismi di propagazione, effetti e metodi di mitigazione", *Strade e Autostrade*, 60, pp. 108-112, ISSN: 1723-2155.
- M6. Pellegrino C., Bordignon E., Muner M., Modena C. (2007). "Il rinforzo a flessione di travi in c.a. e c.a.p. con FRP in armatura lenta e pretesa", *Strade e Autostrade*, 61, pp. 110-113, ISSN: 1723-2155.
- M7. Pipinato A., Pellegrino C., Modena C. (2007). "Valutazione della vita residua di ponti ferroviari storici in struttura metallica: prove sperimentali in scala reale", *Strade e Autostrade*, 62, pp. 174-178, ISSN: 1723-2155.
- M8. Pipinato A., Pellegrino C., Modena C. (2007). "Caratterizzazione strutturale di ponti ferroviari metallici tramite prove sperimentali a scala reale", *Strade e Autostrade*, 64, pp. 56-59, ISSN: 1723-2155.
- M9. Pellegrino C., Modena C. (2008). "Ricerche sull'applicazione dei materiali compositi nel rinforzo di strutture in c.a. e c.a.p.", *Strade e Autostrade*, 69, pp. 84-88, ISSN: 1723-2155.
- M10. Pipinato A., Pellegrino C., Modena C. (2008). "Vita residua di connessioni chiodate: introduzione al problema e prime sperimentazioni su un ponte ferroviario storico", *Costruzioni Metalliche*, 2/2008, pp. 39-50, ISSN: 0010-9673.
- M11. Pellegrino C., Pipinato A., Modena C. (2009). "Un metodo semplificato per la valutazione, il controllo, la manutenzione e la gestione di reti di ponti", *Strade e Autostrade*, 77, pp. 114-117, ISSN: 1723-2155.
- M12. Modena C., Pellegrino C., Mazzocato E., Pipinato A. (2010). "Il nuovo ponte ferroviario con schema network arch sulla linea Chioggia-Rovigo", *Strade e Autostrade*, 82, pp. 102-104, ISSN: 1723-2155.
- M13. Faggioni G., Organte M., Pellegrino C. (2010). "L'uso dei calcestruzzi ad alta resistenza nella progettazione dei ponti su luci medie", *Strade e Autostrade*, 83, pp. 112-115, ISSN: 1723-2155.
- M14. Carturan F., Casadei E., Morbin R., Pellegrino C., Modena C. (2011). "Vulnerabilità sismica e adeguamento di ponti esistenti in c.a.", *Strade e Autostrade*, 85, pp. 64-69, ISSN: 1723-2155.

- M15. Pellegrino C., D'Antino T., Franchetti P., da Porto F., Giacomini G. (2013) "Elementi prefabbricati PRC esistenti rinforzati con compositi cementizi", *Compositi*, 27, pp. 9-18.
- M16. Zanini M.A., Faleschini F., Pellegrino C., Modena C. (2013) "Studio dell'evoluzione della vulnerabilità sismica", *Strade e Autostrade*, 99, pp. 44-47, ISSN: 1723-2155.
- M17. Faleschini F., Zanini M.A., Pellegrino C. (2013) "Il calcestruzzo riciclato con scorie di acciaieria", *Strade e Autostrade*, 101, pp. 85-89, ISSN: 1723-2155.
- M18. Pellegrino C., Zanini M.A., Zampieri P., Modena C. (2013) "L'utilizzo delle indagini in sito e in laboratorio per la valutazione della vulnerabilità sismica dei ponti esistenti", *Progettazione Sismica*, Vol. 4 N. 3, pp. 67-81, DOI: 10.7414/PS.4.3.67-81, ISSN: 1973-7432.
- M19. Modena C., Pellegrino C., Tecchio G., Zanini M.A. (2014) "Problematiche delle opere d'arte nella riclassificazione delle linee ad alta velocità/alta capacità", *Trasporti e Cultura*, 37, pp. 21-25, ISSN 2280-3998.
- M20. Zanini M.A., Faleschini F., Pellegrino C., Modena C. (2014) "Br.I.N.S.E.: la valutazione della vulnerabilità sismica dei ponti", *Strade e Autostrade*, 107, pp. 72-75, ISSN: 1723-2155.
- M21. Zanini M.A., Rossi P., Hadas Y., Gastaldi M., Rossi R., Pellegrino C., Modena C. (2015) "La gestione dell'emergenza sismica in reti di trasporto urbano", *Strade e Autostrade*, 109, pp. 80-83, ISSN: 1723-2155.
- M22. Zanini M.A., Faleschini F., Cester N., Pellegrino C. (2015) "Un applicativo per il deterioramento di ponti", *Strade e Autostrade*, 110, pp. 72-75, ISSN: 1723-2155.
- M23. Faleschini F., Zanini M.A., Zordan A., Pellegrino C., Pasinato S. (2016) "Eco-aggregati riciclati: performance meccaniche e sostenibilità ambientale", 117, pp. 70-74, *Strade e Autostrade*, ISSN: 1723-2155.

N).. Proceedings of national conferences

- N1. Majorana C.E., Pellegrino C. (1995). "Costruzione per fasi successive di strutture elasto-viscose tridimensionali con effetti di danneggiamento", *IX Convegno Italiano di Meccanica Computazionale*, Università di Catania, 20-22 Giugno 1995, pp. 162-166.
- N2. Galvanetto U., Schrefler B.A., Pellegrino C. (1997). "Extension of homogenisation techniques to non-linear constitutive law", *Unilateral Problems in Structural Analysis - 5<sup>th</sup> Meeting*, Ferrara, Italy, June 12-14, 1997.
- N3. Majorana C.E., Pellegrino C. (1998). "Stabilità dinamica di travi in spostamenti e rotazioni finite", *XI Convegno Italiano di Meccanica Computazionale*, Università di Trento, 13-15 Luglio 1998.
- N4. Pellegrino C., Galvanetto U., Schrefler B.A. (1998). "Omogeneizzazione numerica di compositi periodici in regime elasto-plastico", *XI Convegno Italiano di Meccanica Computazionale*, Università di Trento, 13-15 Luglio 1998.
- N5. Bernardini A., Modena C., Pellegrino C. (1999). "Comparazioni sperimentali dei modi di rottura a taglio in travi di calcestruzzo normale e ad alta resistenza", *La sicurezza delle strutture in calcestruzzo ad alte prestazioni*, Progetto Nazionale Cofinanziato dal MURST, *Giornate di Studio*, Istituto Universitario di Architettura di Venezia, 11-12 Marzo 1999.
- N6. Pellegrino C., Galvanetto U., Schrefler B.A. (1999). "Danneggiamento di materiali compositi a struttura periodica", *AIAS'99, XXVIII Convegno Nazionale dell'Associazione Italiana per l'Analisi delle Sollecitazioni*, Vicenza, 8-11 Settembre, 1999.

- N7. Bernardini A., Modena C., Pellegrino C. (1999). "Rottura per taglio in travi di calcestruzzo ad alta resistenza", *Giornate AICAP '99*, Torino, 4-6 Novembre, 1999, Vol. 2, pp. 65-76.
- N8. Modena C., Pellegrino C. (2002). "Applicazione di fogli in CFRP su travi in c.a.: efficienza del rinforzo a taglio", *Atti delle Giornate AICAP 2002 - Le moderne strategie a garanzia del servizio delle opere di c.a. e c.a.p.* Bologna, 6-8 Giugno, 2002, Patron Editore, Bologna, pp. 551-558, ISBN: 8855526502.
- N9. Bernardini A., Modena C., Pellegrino C. (2002). "Modalità di rottura per taglio in travi corte di calcestruzzo normale e ad alta resistenza", *Atti delle Giornate AICAP 2002 - Le moderne strategie a garanzia del servizio delle opere di c.a. e c.a.p.* Bologna, 6-8 Giugno, 2002, Patron Editore, Bologna, pp. 43-52, ISBN: 8855526502.
- N10. Franchetti P., Pellegrino C., Soffiato A., Modena C. (2003). "La manutenzione programmata di ponti e viadotti: criteri per la valutazione dell'efficienza in servizio", *XIII Convegno Nazionale S.I.I.V.*, Padova, 30-31 Ottobre, 2003.
- N11. Pellegrino C., Tinazzi D., Modena C. (2004). "Sul confinamento di elementi in c.a. soggetti a compressione", *Atti delle Giornate AICAP 2004 - Migliorare le costruzioni di calcestruzzo strutturale: l'esistente e il nuovo.* Verona, 26-29 Maggio, 2004, pp. 463-468, ISBN: 8855527541.
- N12. Pellegrino C., Bordignon E., Muner M., Modena C. (2006). "Comportamento sperimentale di travi in c.a. e c.a.p. rinforzate a flessione con FRP in armatura lenta e pretesa", *Sperimentazione su materiali e strutture, Convegno Nazionale*, Venezia, 6-7 Dicembre, 2006, pp. 488-497.
- N13. Pellegrino C., Iannello F., Modena C. (2007). "Previsione del comportamento a taglio di elementi in c.a. rinforzati con FRP", in Faella et al. (eds.) *Materiali ed Approcci Innovativi per il Progetto in Zona Sismica e la Mitigazione della Vulnerabilità delle Strutture, Atti del Workshop*, Salerno, 12-13 Febbraio, 2007, pp. 147-154, ISBN: 9788876990656.
- N14. Pellegrino C., Gaspari P., Modena C. (2007). "Un contributo alla modellazione analitica dell'aderenza calcestruzzo-FRP", *Atti delle Giornate AICAP 2007, L'innovazione delle strutture in calcestruzzo nella tradizione della Scienza e della Tecnica. Sicurezza di costruzione e sicurezza di servizio.* Salerno, 4-6 Ottobre 2007, pp. 303-310.
- N15. Pellegrino C., da Porto F., Modena C. (2008). "Indagine sperimentale su elementi inflessi in c.a. ripristinati con malta", *Atti del 17° Congresso CTE*, Roma, 6-8 Novembre 2008, pp. 59-68, ISBN: 9788890364730.
- N16. Pellegrino C., da Porto F., Modena C. (2009). "Comportamento sperimentale e modellazione di elementi compressi in c.a. ripristinati con malta", *Atti delle Giornate AICAP 2009*, Pisa, 14-16 Maggio 2009, pp. 507-514.
- N17. Pellegrino C., Mazzucato A., Modena C. (2009). "Contributo alla modellazione analitica del comportamento strutturale di colonne in c.a. confinate con FRP", *Atti del XIII Convegno ANIDIS, L'Ingegneria Sismica in Italia*, Bologna, 28 Giugno-2 Luglio 2009, ISBN: 9788890429200.
- N18. Mazzucco G., Salomoni V.A., Majorana C.E., Pellegrino C. (2009). "Three-dimensional modeling of bond behaviour between concrete and FRP reinforcement", *XIX Congresso Nazionale AIMETA*, Ancona, 14-17 Settembre, 2009.
- N19. Maiorana E., Pellegrino C., Modena C. (2009). "Stabilità di pannelli forati soggetti a carico localizzato simmetrico: approccio sperimentale" *Atti del XXII Congresso CTA, L'acciaio per un futuro sostenibile*, Padova, 28-30 Settembre 2009, pp. 665-673.
- N20. Maiorana E., Pellegrino C., Modena C. (2009). "Stabilità di pannelli forati soggetti a carico localizzato simmetrico: approccio numerico" *Atti del XXII Congresso CTA, L'acciaio per un futuro sostenibile*, Padova, 28-30 Settembre 2009, pp. 675-683.

- N21. Pipinato A., Pellegrino C., Modena C. (2009). "Modellazione e verifica a fatica di ponti metallici ferroviari storici" *Atti del XXII Congresso CTA, L'acciaio per un futuro sostenibile*, Padova, 28-30 Settembre 2009, pp. 903-910.
- N22. Carturan F., Pellegrino C., Modena C., Rossi R., Gastaldi M. (2010). "Vulnerabilità sismica e priorità di adeguamento di ponti nell'ambito di reti di trasporto" *Convegno Grandi Infrastrutture: problematiche tecniche e progettuali*, Roma, 05 Maggio 2010.
- N23. Mazzucco G., Salomoni V.A., Pellegrino C., Majorana C.E. (2010). "Confronto fra Risultati Numerici e Sperimentali in Elementi di Calcestruzzo Rinforzati con FRP: ruolo delle tensioni normali all'interfaccia", *XVIII GIMC Conference*, Siracusa, 22-24 Settembre 2010.
- N24. Stievanin E., da Porto F., Pellegrino C., Modena C. (2010) "Comportamento di colonne in c.a. ripristinate con malte cementizie polimero-modificate", *Atti del 18° Congresso CTE*, Brescia, 11-13 Novembre 2010, pp. 425-434, ISBN: 9788890364761.
- N25. Pipinato A., Pellegrino C., Modena C. (2011) "Sicurezza strutturale di ponti ferroviari: fenomeni di fatica", *SEF 2011, Il Convegno Nazionale, Sicurezza ed Esercizio Ferroviario, Innovazione e Nuove Sfide nei Sistemi Ferroviari*, Roma, 18 Febbraio, 2011.
- N26. Casadei E., Morbin R., Pellegrino C., Modena C. (2011) "Riduzione della vulnerabilità sismica di ponti stradali esistenti tramite confinamento con compositi FRP", in *Recupero delle strutture esistenti - Azioni e sicurezza - Materiali - Adeguamento Sismico - Impiego dei nuovi calcestruzzi strutturali. Atti delle Giornate AICAP 2011. Le Prospettive di sviluppo delle opere in c.a. nel terzo millennio*, Padova, 19-21 Maggio 2011, pp. 137-144.
- N27. Morbin C., Pellegrino C., Pontarin D., Modena C. (2011) "Influenza dell'inclinazione in pianta dell'impalcato sulla vulnerabilità sismica di ponti stradali con tipologia ricorrente", *XIV Convegno ANIDIS. L'Ingegneria Sismica in Italia*, Bari, 18-22 Settembre 2011, ISBN: 9788875220402.
- N28. D'Antino T., Pellegrino C., Majorana C., Mazzucco G. (2011) "Comportamento di travi in c.a. rinforzate a taglio con FRP: approccio numerico tridimensionale", *XIV Convegno ANIDIS. L'Ingegneria Sismica in Italia*, Bari, 18-22 Settembre 2011, ISBN: 9788875220402.
- N29. Maiorana E., Pellegrino C., Modena C. (2011). "Contributo degli irrigidimenti longitudinali alla stabilità di anime in travi metalliche da ponte" *Atti del XXIII Congresso CTA. Le giornate italiane della costruzione in acciaio*, Lacco Ameno, Ischia (Napoli), 09-12 Ottobre 2011, ISBN: 9788889972243.
- N30. Pipinato A., Bon M., Pellegrino C., Modena C. (2011). "Analisi del danno multiplo per azioni di fatica e sismiche in connessioni saldate di ponti e viadotti metallici" *Atti del XXIII Congresso CTA. Le giornate italiane della costruzione in acciaio*, Lacco Ameno, Ischia (Napoli), 09-12 Ottobre 2011, ISBN: 9788889972243.
- N31. Carturan F., Morbin R., Zanini M.A., Pellegrino C. (2012). "A parametric study on the fragility of typical existing concrete bridges in seismic areas", *OpenSees Days. La modellazione, il calcolo e l'analisi delle strutture in zona sismica, 1° Convegno Italiano*, Roma, 24-25 maggio 2012.
- N32. Zanini M.A., Pellegrino C., Righetto G. (2013). "Strategie per il miglioramento sismico di un edificio industriale sito in Padova", *XV Convegno Anidis – L'Ingegneria Sismica in Italia*, Padova, 30 giugno-4 luglio 2013.
- N33. Zanini M.A., Carturan F., Pellegrino C., Carrer M., Martin S., Bondesan A., Francese R., Busoni S. (2013). "Analisi stratigrafica nella zona di Spresiano (TV) e comparazione degli spettri di risposta", *XV Convegno Anidis – L'Ingegneria Sismica in Italia*, Padova, 30 giugno-4 luglio 2013.
- N34. Pellegrino C., Zanini M.A., Zampieri P., Modena C. (2013). "Il ruolo del livello di conoscenza nella verifica sismica di tipologie ricorrenti di ponti in c.a. e in muratura", *XV Convegno Anidis – L'Ingegneria Sismica in Italia*, Padova, 30 giugno-4 luglio 2013.

- N35. D'Antino T., Carloni, C., Sneed L., Pellegrino C. (2013). "Fiber-matrix interaction in PBO FRCM composites", *XV Convegno Anidis – L'Ingegneria Sismica in Italia*, Padova, 30 giugno-4 luglio 2013.
- N36. Pipinato A., Pellegrino C., Modena C. (2013). "Coupled fatigue and seismic damage analysis for bridges and viaducts" *XV Convegno Anidis – L'Ingegneria Sismica in Italia*, Padova, 30 giugno-4 luglio 2013.
- N37. Morbin R., Zanini M.A., Pellegrino C., Modena C. (2013). "Procedura Probabilistica per la Valutazione di Ponti Danneggiati da un Evento Sismico" *XV Convegno Anidis – L'Ingegneria Sismica in Italia*, Padova, 30 giugno-4 luglio 2013.
- N38. Zanini M.A., Faleschini F., Morbin R., Pellegrino C., Modena C. (2013). "Valutazione dell'evoluzione temporale della vulnerabilità sismica di cavalcavia autostradali soggetti a degrado" *XV Convegno Anidis – L'Ingegneria Sismica in Italia*, Padova, 30 giugno-4 luglio 2013.
- N39. Carturan F., Zanini M.A., Pellegrino C., Modena C. (2013). "Exploring the economic consequences of the risk induced by earthquakes in productive areas" *XV Convegno Anidis – L'Ingegneria Sismica in Italia*, Padova, 30 giugno-4 luglio 2013.
- N40. Morbin R., Stievanin E., Zanini M.A., Pellegrino C., da Porto F., Modena C., Cimino C. (2013). "Analisi del danno e indagini strutturali in dieci edifici residenziali in c.a. a L'Aquila" *XV Convegno Anidis – L'Ingegneria Sismica in Italia*, Padova, 30 giugno-4 luglio 2013.
- N41. Maiorana E., Pellegrino C. (2013). "Influence of web thickness variation on structural desing of welded girders" *Atti del XXIV Congresso CTA. Le giornate italiane della costruzione in acciaio*. Torino, 30 settembre-2 ottobre 2013.
- N42. Faleschini F., Pellegrino C., Vázquez Ramonich E., Jiménez C., Barra M. (2014). "Proprietà reologiche di calcestruzzi riciclati" in: *Strutture nel Tessuto Urbano. Progetto e realizzazione del nuovo e di interventi sull'esistente. Atti delle Giornate AICAP 2014*, Bergamo, 22-24 Maggio 2014, pp. 155-160, ISBN 9788888590820.
- N43. Faleschini F., Pellegrino C. (2014). "La valutazione della sostenibilità di calcestruzzi con scorie di acciaieria tramite un approccio al ciclo di vita" in: *Strutture nel Tessuto Urbano. Progetto e realizzazione del nuovo e di interventi sull'esistente. Atti delle Giornate AICAP 2014*, Bergamo, 22-24 Maggio 2014, pp. 149-154, ISBN 9788888590820.
- N44. Faleschini F., Pellegrino C., Brunelli K., Bassi F. (2014). "L'utilizzo di ceneri di co-combustione come additivo minerale per calcestruzzi" *Atti del 20° Congresso CTE*, Milano, 6-8 Novembre 2014, pp. 323-328, ISBN: 9788890364723.
- N45. Morbin R., Zanini M.A., Faleschini F., Pellegrino C. (2015). "Automatic procedure for fragility assessment of common existing road bridge typologies", *OpenSees Days, 2° Convegno Italiano*, Salerno, 10-11 Giugno 2015.
- N46. Faleschini F., Zanini M.A., Morbin R., Pellegrino C. (2015). "Seismic vulnerability assessment of isolated bridges subjected to environmental deterioration", *OpenSees Days, 2° Convegno Italiano*, Salerno, 10-11 Giugno 2015.
- N47. Zanini M.A., Hofer L., Pellegrino C. (2015) "Le polizze assicurative come strumento finanziario per il trasferimento del rischio sismico: stato dell'arte". *XVI ANIDIS 2015 – L'Ingegneria Sismica in Italia*, L'Aquila, 13–17 Settembre 2015, ISBN 978-88-940985-6-3.
- N48. Hofer L., Zanini M.A., Pellegrino C. (2015) "Pericolosità ed esposizione a livello mondiale: elementi primari da considerare per l'adozione di politiche di trasferimento del rischio all'industria assicurativa". *XVI ANIDIS 2015 – L'Ingegneria Sismica in Italia*, L'Aquila, 13–17 Settembre 2015, ISBN 978-88-940985-6-3.

- N49. Zanini M.A., Faleschini F., Pellegrino C. (2015) "Statistical analysis of maintenance and seismic retrofit costs for existing bridges". *XVI ANIDIS 2015 – L'Ingegneria Sismica in Italia*, L'Aquila, 13–17 Settembre 2015, ISBN 978-88-940985-6-3.
- N50. Faleschini F., Zanini M.A., Pellegrino C. (2016) "Environmental impacts of recycled aggregate concrete", *Italian Concrete Days 2016 (Joint Congress aicap-CTE)*, Rome, Italy, 27-29 October 2016.
- N51. Pellegrino C., Zanini M.A., Faleschini F., Hofer L. (2016) "Transmission length formulations for prestressed concrete elements", *Italian Concrete Days 2016 (Joint Congress aicap-CTE)*, Rome, Italy, 27-29 October 2016.
- N52. Gonzalez-Libreros J.H., Pellegrino C., Giacomini G. (2016) "R.C. beams strengthened on shear with FRP and FRCM composites", *Italian Concrete Days 2016 (Joint Congress aicap-CTE)*, Rome, Italy, 27-29 October 2016.
- N53. Zanini M.A., Hofer L., Faleschini F., Zampieri P., Fabris N., Pellegrino C. (2016) "Evidences from the preliminary macroseismic survey of the August 24, 2016 Amatrice seismic sequence (Central Italy)", *35° Convegno Nazionale GNGTS (Gruppo Nazionale per la Geofisica della Terra Solida)*, Lecce, Italy, 22-24 Novembre 2016.
- N54. Severini L., Cavalagli N., Zampieri P., Simoncello N., Gusella V., Pellegrino C. (2017) "Effects of spread and local geometrical irregularities on the horizontal carrying capacity of masonry arches", *XVII Convegno ANIDIS, L'Ingegneria Sismica in Italia*, Pistoia, Italy, 17-21 Settembre 2017.
- N55. Zampieri P., Hofer L., Simoncello N., Pellegrino C. (2017) "Influence of soil thrust on seismic capacity of masonry bridges", *XVII Convegno ANIDIS, L'Ingegneria Sismica in Italia*, Pistoia, Italy, 17-21 Settembre 2017.
- N56. Simoncello N., Pellegrino C. (2017) "Influence of the arch thickness discontinuities on the seismic capacity of masonry bridges", *XVII Convegno ANIDIS, L'Ingegneria Sismica in Italia*, Pistoia, Italy, 17-21 Settembre 2017.
- N57. Hofer L., Zanini M.A., Faleschini F., Pellegrino C. (2017) "L'analisi di profittabilità per l'identificazione dell'ottimale strategia di retrofit sismico per impianti produttivi suscettibili a business interruption", *XVII Convegno ANIDIS, L'Ingegneria Sismica in Italia*, Pistoia, Italy, 17-21 Settembre 2017.
- N58. Faleschini F., Gonzalez-Libreros J., Zanini M.A., Zampieri P., Pellegrino C. (2017) "Experimental behavior of damaged RC beam-column joints retrofitted with FRP composites", *XVII Convegno ANIDIS, L'Ingegneria Sismica in Italia*, Pistoia, Italy, 17-21 Settembre 2017.
- N59. Zanini M.A., Hofer L., Faleschini F., Pellegrino C. (2017) "La perdita annua media comunale (PAMC): un indicatore economico per la definizione della mappa del rischio sismico in Italia", *36° Convegno Nazionale GNGTS (Gruppo Nazionale per la Geofisica della Terra Solida)*, Trieste, Italy, 14-16 Novembre 2017.
- N60. Zampieri P., Curtarello A., Pellegrino C., Quaresimin M., De Rossi N., Maiorana E. (2017) "Prove a fatica di giunti bullonati corrosi", *XXVI Congresso dei Tecnici dell'Acciaio (CTA)*, Venezia, 28-30 Settembre 2017.
- N61. De Domenico D., Faleschini F., Pellegrino C., Ricciardi G. (2018) "Analisi strutturale di travi in c.a. con scorie di acciaieria come aggregati da riciclo", *Italian Concrete Days 2018 (Giornate AICAP 2018 – Congresso CTE)*, Milano-Lecco, Italy, 13-15 Giugno 2018.
- N62. Faleschini F., Santamaria A., Zanini M.A., Pellegrino C. (2018) "Aderenza tra acciaio e calcestruzzo riciclato con scorie di acciaieria", *Italian Concrete Days 2018 (Giornate AICAP 2018 – Congresso CTE)*, Milano-Lecco, Italy, 13-15 Giugno 2018.

- N63. Faleschini F., Zanini M.A., Hofer L., Pellegrino C. (2018) "Nodi esterni trave-colonna in c.a. con aggregati riciclati soggetti ad azione ciclica laterale: comportamento sperimentale", *Italian Concrete Days 2018 (Giornate AICAP 2018 – Congresso CTE)*, Milano-Lecco, Italy, 13-15 Giugno 2018.

O) *National book chapters*

- O1. Pipinato A., Pellegrino C., Modena C. (2013). Interventi di miglioramento sismico nei manufatti da ponte. In: Modena C., Pipinato A. (a cura di): *Il sisma emiliano del maggio 2012 e gli effetti nelle costruzioni venete. vol. Ia*, , CLEUP Cooperativa Libreria Editrice Università di Padova, Padova, pp. 121-134, ISBN: 9788867871674.
- O2. Modena C., Pellegrino C., Pipinato A. (2013). Interventi di miglioramento sismico degli edifici produttivi. In: Modena C., Pipinato A. (a cura di): *Il sisma emiliano del maggio 2012 e gli effetti nelle costruzioni venete. vol. Ia*, , CLEUP Cooperativa Libreria Editrice Università di Padova, Padova, pp. 135-144, ISBN: 9788867871674.

P) *Monographs*

- P1. Pellegrino C. (1998) "*Omogeneizzazione di materiali compositi periodici in regime non-lineare*", Tesi di Dottorato, Dipartimento di Costruzioni e Trasporti, Università di Padova.
- P2. Bruno D., Modena C., Franchetti P., Pellegrino C., Bergamo O. (2003). "*Linee Guida per la progettazione e l'esecuzione dei ponti a travata*", con la supervisione di A. Romanini, Quaderno 1 di Veneto Strade S.p.A. in collaborazione con il Dipartimento di Costruzioni e Trasporti dell'Università di Padova, pp. 1-46.