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Born: October 13, 1983—Sondrio, Italy
Nationality: Italian

Current position

Researcher of Structural Engineering (Untenured Assistant Professor, RTD-A)
Politecnico di Milano
Department of Civil and Environmental Engineering

Research interests

Structural engineering; high-performance cement-based materials for new construction and structural retrofitting; materials and structural testing; bridge engineering; preservation of reinforced concrete modern architecture

Academic record

2021-01 *RTD-A Researcher*, Politecnico di Milano, Milan, Italy
2019-2020 *Research collaborator (professional appointment)*, Politecnico di Milano, Milan, Italy
2013-2019 *Postdoctoral Research Fellow*, Politecnico di Milano, Milan, Italy
2012 *Visiting Scholar*, Arizona State University, Tempe, AZ, USA
2009 *Research Fellow*, Politecnico di Milano, Milan, Italy

Education

2013 PHD *summa cum laude* in Structural, Seismic, Geotechnical Engineering, Politecnico di Milano
2008 MSc *summa cum laude* in Building Engineering/Architecture, Politecnico di Milano

Research projects

- 2020-on *Participant* in the research project “Monitoraggio di ponti fluviali in Provincia di Mantova” promoted by Politecnico di Milano - Department of Civil and Environmental Engineering and Provincia di Mantova (coordinator Prof. Francesco Ballio), focusing on the validation of monitoring strategies of existing bridges
- 2020-on *Participant* in the research cooperation between Politecnico di Milano, University of Brescia and the companies ArcelorMittal and Bekaert, focusing on the structural behavior of fiber-reinforced concrete (FRC). Coordinators Prof. Marco di Prisco and Prof. Giovanni Plizzari
- 2020-on *Participant* in the research project promoted by Politecnico di Milano - Department of Civil and Environmental Engineering (DICA) and ANAS Spa (coordinator Prof. Marco di Prisco), focusing on the optimization of Bridge Maintenance Systems (BMS) and the development of Maintenance Plans for existing infrastructures
- 2019-on *Participant* in the research project promoted by Politecnico di Milano and Regione Lombardia (coordinator Prof. Ferruccio Resta, Rector of Politecnico di Milano), focusing on the development of innovative approaches for the structural assessment and monitoring of existing regional bridges. Results published in [IC25, IC30]
- 2018-2020 *Participant* in the research project promoted by Politecnico di Milano - DICA and Enel Green Power Spa, focusing on the use of Fiber-Reinforced Concrete for the optimization of wind turbine foundations by means of experimental and numerical approaches (coordinator Prof. Marco di Prisco). Results published in [IC31]
- 2017-on *Participant* in the research project promoted by Politecnico di Milano - DICA and Magnetti Building Spa, focusing on the structural optimization of innovative FRC-based elevated slab systems and material optimization of HPC mixes for architectural applications (coordinator Prof. Marco di Prisco). Results published in [IC26]
- 2017-on *Participant* in the research project promoted by Politecnico di Milano - DICA and a consortium of private companies (BASF/Master Builders Italia, Arup, Gavazzi Tessuti Tecnici, BMS), focusing on the development of advanced cementitious materials for the retrofitting and upgrading of existing structures (coordinator Prof. Marco di Prisco). Results published in [IJ5, IC19, IC22, IC24, IC27, IC4, IC6, IC10, IC12, NC8]
- 2017-2019 *Participant* in the SMART P.I.Q.U.E.R. research project, devoted to the development of innovative cement-based façade panels. Research responsible Prof. Marco di Prisco
- 2016 *Participant* in the the research project "Structural design and numerical modelling of sustainable pre-stressed concrete railway sleepers", funded by Greenrail Group Srl in collaboration with Fondazione Politecnico di Milano
- 2014-2018 *Responsible* for the 3D numerical analyses of the Azzone Visconti bridge in Lecco. Activity developed in the framework of the cooperation between Politecnico di Milano - Lecco Campus and the Lecco Municipality. Research responsible Prof. Marco di Prisco. Results published in [IJ4, IJ7, IJ8]
- 2013-2016 *Participant* in the research activity focusing on the design and testing of lightweight elevated slabs made with advanced cementitious composites (VHPFRCC and TRC). Activity developed in the framework of the cooperation between Politecnico di Milano - DICA and the company Mangiacchi Pedercini Spa. Research responsible Prof. Marco di Prisco. Results published in [IC11, IC13, NC4, NC6]
- 2012-2015 *Participant* in the Lombardy Region S.IN.E.R.G.I.E ATTIV.E (Sistema integrato sostenibile en-

ergeticamente attivo per il rinnovo degli edifici industriali attraverso coperture composite ha indagato soluzioni innovative per realizzare elementi di copertura di edifici industriali) project (decree number 7128 of July 29th, 2011), focusing on the development of sustainable cement-based roofing panels (coordinator Prof. Marco di Prisco). Results published in [IJ6, IC4, IC5, IC9, IC14, IC15, IC18, IC20, NC2, NC7]

- 2010-2021 *Member* of the Politecnico di Milano Research Unit of the ReLUIIS (Rete dei Laboratori Universitari di Ingegneria Sismica) consortium, focusing on the study and application of advanced cementitious materials for the retrofitting and upgrading of existing structures subjected to seismic loads. Research responsible Prof. Marco di Prisco, ReLUIIS-DPC 2010-2013, 2014-2018, 2019-2021. Results published in [IJ5, IC16, IC19, IC24, IC27, NC8]
- 2009-on *Participant* in the research project related to the use of very high-performance fiber reinforced cementitious composites (VHPFRCC). Research cooperation between Politecnico di Milano and the company BASF SE (now Master Builders Italia Spa). Research responsible Prof. Marco di Prisco. Results published in [IC6, IC8, IC10, IC17, IC23, NC5]
- 2009-on *Participant* in the research project on TRC (Textile Reinforced Concrete) in the framework of the cooperation between the company Gavazzi Tessuti Tecnici Spa and Politecnico di Milano. Research responsible Prof. Marco di Prisco. Results published in [IJ1, IC2, IC3, NC3]
- 2009-2012 *Participant* in the Interreg "Accident" project (Advanced Cementitious Composite In DEsign and coNstruction of safe Tunnels: ID7629770 - Measure 2.2). Partners involved: 2 Universities (Politecnico di Milano and SUPSI), 3 Swiss companies and 4 Italian companies. Research coordinator Prof. Marco di Prisco

Research proposals

- 2021 *Principal Investigator* in the Fondazione Cariplo proposal "ReCoNStruct: Recycling Construction Demolition Waste for Next-generation reusable prefabricated Structures". Partner Institutions: Università di Salerno and COPPE Institute of the Universidade Federal do Rio de Janeiro. Call 2021 on Circular Economy: research for a sustainable future - requested grant 300 k€, proposal under evaluation
- 2021 *Assistant Coordinator* in the Erasmus+ KA220 HED proposal "REcube: REthink, REvive, REuse - Transmitting the knowledge for the green regeneration of the European Concrete Heritage". Consortium among Politecnico di Milano (applicant), 10 European Universities, 1 Association and 1 Foundation. Call 2021 Round 1 KA2 - requested grant 400 k€, proposal under evaluation
- 2021 *Assistant Coordinator* in the PRIN proposal "FIRMITAS: multi-hazard assessment, control and retroFIT of bridges for enhanced Robustness using sMart IndusTriAlized Solutions". Partner Institutions: I.U.S.S. - Istituto Universitario di Studi Superiori Pavia, Università degli Studi di Napoli Federico II, Università degli Studi di Parma and Università degli Studi Roma Tre. Call 2020 - requested grant 1.2 M€, proposal under evaluation
- 2020 *Assistant Coordinator* in the Erasmus+ KA203 HED proposal "REcube: REpair, REvive, REuse - Enhancing the knowledge about how to preserve modern and contemporary concrete architecture in Europe". Consortium among Politecnico di Milano (applicant), 7 European Universities and 2 Associations. Call 2020 Round 1 KA2 - requested grant 450 k€, proposal rejected for insufficient funds

Supervision experience

PHD STUDENTS

- 2018-2021 *Co-advisor* of the PhD thesis *Glass Fabric-Reinforced Cementitious Matrix (GFRCM) composites: strengthening and retrofitting of existing reinforced concrete structures*, authored by Marco Carlo Rampini - Politecnico di Milano, Doctoral programme in Structural, Seismic, Geotechnical Engineering

MSc STUDENTS

- 2010-01 *Co-advisor* of more than 60 MSc theses - Politecnico di Milano, School of Architecture Urban Planning Construction Engineering and School of Civil, Environmental and Land Management Engineering ([list available at POLITesi](#))

BSc STUDENTS

- 2010-01 *Co-advisor* of 2 BSc theses - Politecnico di Milano, School of Civil, Environmental and Land Management Engineering

Teaching experience

- 2021-01 *Lecturer* of "Advanced structural design - Progetto di Strutture", ICAR/09, Politecnico di Milano, MSc programme in Building Engineering/Architecture, School of Architecture, Urban Planning, Construction Engineering
- 2020-2021 *Lecturer* of "Structural Safety: Vulnerability and Intervention Techniques - Sicurezza strutturale: vulnerabilità e tecniche di intervento", ICAR/09, Politecnico di Milano, BSc programme in Civil Engineering for Risk Mitigation, School of Civil, Environmental and Land Management Engineering
- 2019-2020 *Lecturer* of "Structural Design", ICAR/09, Politecnico di Milano, MSc programme in Architecture and Urban Design, School of Architecture, Urban Planning, Construction Engineering (taught in English)
- 2015-2020 *Teaching Assistant* of "Precast Structures" (ICAR/09, Prof. L. Ferrara), Politecnico di Milano, School of Civil, Environmental and Land Management Engineering (taught in English)
- 2013-2020 *Teaching Assistant* of "Mechanics of Materials and Inelastic Constitutive Laws" (ICAR/08, Prof. C. Comi), Politecnico di Milano, School of Civil, Environmental and Land Management Engineering (taught in English)
- 2013-2016 *Teaching Assistant* of "Structural Analysis and Design - Tecnica delle Costruzioni" (ICAR/09, Prof. M. Colombo), Politecnico di Milano, School of Architecture, Urban Planning, Construction Engineering
- 2011-2012 *Teaching Assistant* of "Structural Analysis and Design - Tecnica delle Costruzioni" (ICAR/09, Prof. P. Bamonte), Politecnico di Milano, School of Civil, Environmental and Land Management Engineering
- 2011-2012 *Teaching Assistant* of "Advanced Cementitious Composites for Seismic Retrofitting" (ICAR/09, Prof. M. di Prisco), Politecnico di Milano, School of Civil, Environmental and Land Management Engineering (taught in English)
- 2009-2020 *Teaching Assistant* of "Advanced Structural Design - Progetto di Strutture" (ICAR/09, Prof. M.

di Prisco), Politecnico di Milano, School of Architecture, Urban Planning, Construction Engineering

2009-2011;
2012-2014 *Teaching Assistant of "Reinforced Concrete and Steel Structures Design Lab - Laboratorio di Costruzioni" (ICAR/09, Prof. M. Colombo, MSc. M. Scola), Politecnico di Milano, School of Architecture, Urban Planning, Construction Engineering*

2008-2011 *Teaching Assistant of "Technological Design - Progettazione degli elementi costruttivi" (ICAR/11, Prof. G. Masera), Politecnico di Milano, School of Architecture, Urban Planning, Construction Engineering*

Publications

INTERNATIONAL JOURNAL ARTICLES

- [IJ.8] **Zani, G.**, P. Martinelli, A. Galli, and M. di Prisco. 2020. "Three-Dimensional Modelling of a Multi-Span Masonry Arch Bridge: Influence of Soil Compressibility on the Structural Response under Vertical Static Loads." *Engineering Structures* 221:110998.
- [IJ.7] **Zani, G.**, P. Martinelli, A. Galli, C. Gentile, and M. di Prisco. 2019. "Seismic Assessment of a 14th-Century Stone Arch Bridge: Role of Soil–Structure Interaction." *Journal of Bridge Engineering* 24(7):05019008.
- [IJ.6] **Zani, G.**, M. C. Rampini, M. Colombo, and M. di Prisco. 2019. "Bending Behavior of Cement-Based Multi-Layered Roof Elements." *Engineering Structures* 190:101–15.
- [IJ.5] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2019. "Mechanical Behaviour of TRC Composites: Experimental and Analytical Approaches." *Applied Sciences (Switzerland)* 9(7):1492.
- [IJ.4] di Prisco, M., M. Scola, and **G. Zani**. 2019. "On Site Assessment of Azzone Visconti Bridge in Lecco: Limits and Reliability of Current Techniques." *Construction and Building Materials* 209:269–82.
- [IJ.3] Dey, V., **G. Zani**, M. Colombo, M. di Prisco, and B. Mobasher. 2015. "Flexural Impact Response of Textile-Reinforced Aerated Concrete Sandwich Panels." *Materials and Design* 86:187–97.
- [IJ.2] Pignataro, M. A., G. Lobaccaro, and **G. Zani**. 2014. "Digital and Physical Models for the Validation of Sustainable Design Strategies." *Automation in Construction* 39:1–14.
- [IJ.1] Colombo, I. G., A. Magri, **G. Zani**, M. Colombo, and M. di Prisco. 2013. "Erratum: Textile Reinforced Concrete: Experimental Investigation on Design Parameters (Materials and Structures (2013))." *Materials and Structures/Materiaux et Constructions* 46(11):1953–71.

INTERNATIONAL BULLETINS AND REPORTS

- [IB.1] J. Walraven, M. di Prisco, E. Fehling, F. Toutlemonde, T. Leutbecher, J. Thiemicke, **G. Zani**, Chapter 13 of the *fib* bulletin on FRCs and UHPFRCs. Title of the chapter: *Ultra High Performance Fiber Reinforced Concrete* (Bulletin under final approval).

INTERNATIONAL CONFERENCE PROCEEDINGS AND BOOK CHAPTERS

- [IC.32] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2021. "FRCM-retrofitting of Steel Fiber-reinforced Concrete Shallow Beams." In *Proceedings of the 13th International Symposium on Ferrocement and Thin Fiber Reinforced Inorganic Matrices FERRO13* (Submitted Paper). Lyon, France, 2021.

- [IC.31] di Prisco, M., C. di Prisco, G. Fraraccio, B. Dal Lago, P. Martinelli, L. Flessati, M. Colombo, **G. Zani**. 2021. “Wind tower FRC foundations: research and design.” In *Proceedings of the RILEM-fib X International Symposium on Fibre Reinforced Concrete BEFIB2021* (Submitted Paper). Valencia, Spain, 2021.
- [IC.30] **Zani, G.**, A. Scalbi, K. Flores Ferreira, C. Somaschini, M. di Prisco. 2021. “Load testing and structural monitoring of a reinforced concrete mid-century bridge.” In *Proceedings of the 1st Conference of the European Association on Quality Control of Bridges and Structures – EUROSTRUCT2021* (Submitted Paper). Padova, Italy, 2021.
- [IC.29] **Zani, G.**, C. Comi. 2021. “Structural modelling of FRC in serviceability states: simplified and numerical approaches.” In *Proceedings of the Italian Concrete Days 2021* (Accepted Paper, in press). Online conference, 2021.
- [IC.28] di Prisco, M., M. Colombo, **G. Zani**, L. Radice. 2020. “Design approaches concerning SLS and ULS in corroded structural elements.” In *CACRCS DAYS 2020 - Capacity Assessment of Corroded Reinforced Concrete Structures* (Accepted Paper, in press). Online workshop, 2020.
- [IC.27] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2021. “Numerical Modeling of FRCCM Composites for the Seismic Retrofitting of Existing Concrete Structures.” Pp. 69–85 in ACI SP-345 Materials, Analysis, Structural Design and Applications of Textile Reinforced Concrete/Fabric Reinforced Cementitious Matrix. *Proceedings of the ACI Fall 2019 Convention*. Cincinnati, USA: American Concrete Institute.
- [IC.26] **Zani, G.**, M. Colombo, C. Failla, and M. di Prisco. 2020. “Optimization of Partially Prefabricated HyFRC Slabs.” Pp. 215–24 in fib Bulletin No. 95, ACI SP-343. Fibre Reinforced Concrete: From Design to Structural Applications. *Proceedings of the ACI-fib-RILEM International Workshop - FRC2018*. Desenzano, Italy.
- [IC.25] di Prisco, M., **G. Zani**, A. Scalbi, and K. Flores Ferreira. 2020. “Existing Bridges in Italy: A Reinforced Concrete Mid-Century Case Study.” in *27th Czech Concrete Days*.
- [IC.24] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2019. “The Role of Concrete Substrate Roughness on Externally Bonded Fabric-Reinforced Cementitious Matrix (FRCCM) Layers.” Pp. 56–63 in No. 49. *First fib Italy YMG Symposium on Concrete and Concrete Structures*, edited by M. Del Zoppo, I. Colombo, and F. Vecchi. Parma, Italy: fib - Fédération internationale du béton.
- [IC.23] **Zani, G.**, A. Pourzarabi, M. Colombo, and M. di Prisco. 2019. “Fire Resistance of VHPFRC Thin Plates.” in *Protect2019 7th International Colloquium on Performance, Protection Strengthening of Structures Under Extreme Loading Events*. Whistler, Canada.
- [IC.22] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2019. “Experimental Study on SFRC Beams and Slabs Strengthened with FRCCM Composite Materials.” in *V Workshop on New Boundaries of Structural Concrete*. Milano, Italy.
- [IC.21] di Prisco, M., M. Colombo, and **G. Zani**. 2019. “Fibre Reinforced Concrete as a Sustainable Choice in Civil Engineering.” Pp. 1–6 in *RILEM International conference SSCS2019 - Strategies for Sustainable Concrete Structures*, edited by M. Colombo, M. di Prisco, and L. Ferrara. Lecco, Italy: ISBN: 978-88-99916-34-3.
- [IC.20] Colombo, I. G., M. Colombo, **G. Zani**, and M. di Prisco. 2019. “Sandwich Structures for Sustainable Buildings.” Pp. 89–95 in *RILEM International conference SSCS2019 - Strategies for Sustainable Concrete Structures*, edited by M. Colombo, M. di Prisco, and L. Ferrara. Lecco, Italy: ISBN: 978-88-99916-34-3.
- [IC.19] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2018. “Textile Reinforced Concrete Composites for Existing Structures: Performance Optimization via Mechanical Character-

ization.” Pp. 907–14 in *Proceedings of the 12th fib International PhD Symposium in Civil Engineering*, edited by P. Bily, A. Kohoutkova, J. L. Vitek, and M. Frantova. Prague, Czech Republic: Czech Technical University.

- [IC.18] Angelotti, A., S. Leva, **G. Zani**, and M. di Prisco. 2018. “Sustainability-Oriented Innovation of a Multilayered Cement-Based Roof Element.” P. Code 142064 in *American Concrete Institute, ACI Special Publication Volume 2018-June, Issue SP 326, 2018*, edited by V. Falikman, L. Coppola, P. Hajek, P. Riva, and R. Realfonzo. Moscow, Russia: American Concrete Institute.
- [IC.17] **Zani, G.**, M. Colombo, and M. di Prisco. 2017. “Size Effect of HPFRCC in Uniaxial Tension.” Pp. 183–90 in *UHPFRC 2017 Designing and Building with UHPFRC: New large-scale implementations, recent technical advances, experience and standards - UHPFRC 2017*, edited by F. Toutlemonde and J. Resplendino. RILEM Publications S.A.R.L.
- [IC.16] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2017. “Identification of FRCM Mechanical Parameters for the Retrofitting Design of Existing Structures.” Pp. 413–21 in *High Tech Concrete: Where Technology and Engineering Meet - Proceedings of the 2017 fib Symposium*.
- [IC.15] **Zani, G.**, M. C. Rampini, M. Colombo, and M. di Prisco. 2016. “Shear Behavior of Multilayered Panels for Roofing Rehabilitation.” in *Ultra-High Performance Concrete and High Performance Construction Materials*, edited by E. Fehling, B. Middendorf, and J. Thiemicke. Kassel, Germany.
- [IC.14] **Zani, G.**, M. C. Rampini, M. Colombo, and M. di Prisco. 2016. “Fire Behavior of Sandwich Panels for Roofing Applications.” Pp. 775–82 in *Key Engineering Materials*. Vol. 711.
- [IC.13] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2016. “Experimental Characterization of TRC Disposable Formworks.” Pp. 1485–94 in *FRC: The Modern Landscape. BEFIB 2016. Proceedings of the 9th RILEM International Symposium on Fibre Reinforced Concrete*, edited by N. Banthia, M. di Prisco, and S. Soleimani-Dashtaki. Vancouver, Canada: ISBN: 978-2-35158-187-2.
- [IC.12] Arlati, E., S. Capolongo, B. Daniotti, M. P. Iarossi, A. Lucchini, I. Paoletti, D. G. Papi, A. Pavan, M. A. Pignataro, T. Poli, F. Re Cecconi, P. Rigone, M. L. A. Trani, A. Zanelli, V. Caffi, B. Copa, A. Guzzetti, G. Lobaccaro, R. Naboni, A. Stefanazzi, and **G. Zani**. 2015. “BIMM-Based Visual Language of Construction.” Pp. 159–62 in *The Visual Language of Technique: Volume 1 - History and Epistemology*, edited by L. Cocchiarella. Cham: Springer International Publishing.
- [IC.11] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2015. “HPFRCC Beams in Innovative Elevated Slabs: Experimental Characterization and Modeling.” Pp. 489–96 in *Proceedings of the 7th RILEM Workshop on High Performance Fiber Reinforced Cement Composites*. Stuttgart, Germany.
- [IC.10] Bayard, O., M. di Prisco, S. Moro, and **G. Zani**. 2015. “Environmental and Cost Benefit of Very High Performance Concrete Solution in Industrial Building Design.” Pp. 62–69 in *Proceedings of the International Conference FIBRE CONCRETE*. Vols. 2015-Janua. Prague, Czech Republic.
- [IC.9] di Prisco, M., M. Colombo, **G. Zani**, and M. C. Rampini. 2015. “Existing Industrial Buildings: A Sustainable Solution for Roofing Rehabilitation.” in *SSCS 2015 Numerical Modeling - Strategies for Sustainable Concrete Structures*. Rio de Janeiro, Brazil.
- [IC.8] di Prisco, M., S. Moro, O. Bayard, and **G. Zani**. 2014. “New Industrial Building Designed with Very High Performance Fiber Reinforced Concrete.” Pp. 1–7 in *Concrete Innovation Conference, CIC 2014*. Oslo, Norway.
- [IC.7] Pignataro, M. A., **G. Zani**, and G. Lobaccaro. 2014. “Eco-Sustainable Architectures of Complex Shape: Use of Digital and Physical Models.” Pp. 349–58 in *39th IAHS - Changing Needs, Adoptive Buildings, Smart Cities*. Milan, Italy: ISBN: 9788864930138.

- [IC.6] **Zani, G.**, M. Colombo, and M. di Prisco. 2014. “Flexural Behavior of Fiber and Textile Reinforced HPC Thin Plates.” Pp. 846–48 in *Improving Performance of Concrete Structures - fib Congress 2014*. Mumbai, India.
- [IC.5] **Zani, G.**, M. Colombo, and M. di Prisco. 2014. “High Performance Cementitious Composites for Sustainable Roofing Panels.” in *Proceedings of the 10th fib International PhD Symposium in Civil Engineering*. Quebec City, Canada.
- [IC.4] di Prisco, M. and **G. Zani**. 2012. “Experimental and Numerical Analysis of Advanced Cementitious Composites for Sustainable Roof Elements.” in *SSCS'2012 - International Conference on Numerical Modeling Strategies for Sustainable Concrete Structures*. Aix en Provence, France.
- [IC.3] Colombo, I., M. Colombo, A. Magri, **G. Zani**, and M. di Prisco. 2012. “Tensile Behavior of Textile: Influence of Multilayer Reinforcement.” *RILEM Bookseries* 2:463–70.
- [IC.2] Colombo, I. G., M. Colombo, A. Magri, **G. Zani**, and M. di Prisco. 2011. “Textile Reinforced Mortar at High Temperatures.” Pp. 202–7 in *Applied Mechanics and Materials*. Vol. 82.
- [IC.1] di Prisco, M., L. Ferrara, M. G. L. Lamperti, S. Lapolla, A. Magri, and **G. Zani**. 2011. “Sustainable Roof Elements: A Proposal Offered by Cementitious Composites Technology.” Pp. 167–81 in *Innovative Materials and Techniques in Concrete Constructions*. Corfu, Greece.

NATIONAL CONFERENCE PROCEEDINGS

- [NC.8] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2018. “FRCM Ottimizzati per Il Rinforzo Di Strutture Esistenti.” in *Italian Concrete Days 2018 – Il calcestruzzo strutturale oggi*, edited by M. di Prisco and M. Menegotto. Lecco, Italy: GWMAX.
- [NC.7] di Prisco, M., Claudio Failla, **G. Zani**, M. Colombo, and Francesco Sonzogni. 2016. “Un Elemento Di Copertura in HPFRCC per Adeguare Edifici Industriali Esistenti.” in *Italian Concrete Days 2016 – Evoluzione e sostenibilità delle strutture in calcestruzzo*, edited by M. di Prisco and M. Menegotto. Rome, Italy: GWMAX.
- [NC.6] Rampini, M. C., **G. Zani**, A. Caverzan, M. Colombo, and M. di Prisco. 2016. “Una Proposta Di Solaio Alleggerito Con Elementi Prefabbricati in Composito Fibrorinfozato.” in *Italian Concrete Days 2016 – Evoluzione e sostenibilità delle strutture in calcestruzzo*, edited by M. di Prisco and M. Menegotto. Rome, Italy: GWMAX.
- [NC.5] **Zani, G.**, M. Colombo, and M. di Prisco. 2014. “Comportamento Flessionale Di Lastre a Matrice Cementizia Con Rinforzi Ibridi.” Pp. 339–44 in *20° Congresso CTE - Milano*, edited by Segreteria CTE. Milan, Italy.
- [NC.4] Rampini, M. C., **G. Zani**, and M. di Prisco. 2014. “Influenza Delle Masse Di Piano Sulle Connessioni Alla Base Di Strutture Prefabbricate.” Pp. 199–206 in *20° Congresso CTE - Milano*, edited by Segreteria CTE. Milan, Italy.
- [NC.3] Colombo, Isabella Giorgia, M. Colombo, Anna Magri, **G. Zani**, and M. di Prisco. 2012. “Malte Rinforzate Con Reti in Fibra Di Vetro Alcalino-Resistenti: Un’indagine Sperimentale Sui Parametri Di Progetto.” Pp. 385–94 in *19° Congresso CTE - Bologna*, edited by Segreteria CTE. Bologna, Italy: ISBN: 9788890364792.
- [NC.2] di Prisco, M. and **G. Zani**. 2012. “Elementi Di Copertura Sostenibili: Un’indagine Teorico-Sperimentale.” Pp. 161–70 in *19° Congresso CTE - Bologna*, edited by Segreteria CTE. Bologna, Italy.
- [NC.1] di Prisco, M., L. Ferrara, M. G. L. Lamperti, S. Lapolla, A. Magri, and **G. Zani**. 2011. “Soluzioni

Sostenibili per Elementi Di Copertura: Un'opportunità Offerta Dai Compositi Cementizi Fibrorinforzati." Pp. 53–66 in "Progettare e realizzare elementi strutturali in calcestruzzo fibrorinforzato" a cinque anni dal Documento CNR DT – 204. Rome, Italy: ISBN: 9788890429255.

Research impact

SCOPUS

Documents: 18

Citations: 217 (198 excluding self-citations)

h-index: 7

GOOGLE SCHOLAR

Documents: 46

Citations: 340

h-index: 9

Date of collection: May 28, 2021

Talks, courses, seminars and conference participation

SCIENTIFIC TALKS

- 2021 Italian Concrete Days 2020, Online event, Italy, 14 April 2021. Paper presented: [IC.29]
- 2019 ACI Fall Convention 2019, Cincinnati, USA, 20 October 2019. Paper presented: [IC.27]
- 2018 FRC2018: Fibre Reinforced Concrete: from Design to Structural Applications, Desenzano, Italy, 27 June 2018. Paper presented: [IC.26]
- 2018 2nd International Workshop on Durability and Sustainability of Concrete Structures DSCS2018, Moscow, Russia, 6 June 2018. Paper presented: [IC.18]
- 2016 4th International Symposium on Ultra-High Performance Concrete and High Performance Construction Materials HiPerMat 2016, Kassel, Germany, 9-11 March 2016. Paper presented: [IC.15]
- 2014 10th fib International PhD Symposium in Civil Engineering, Québec, Canada, 21-23 July 2014. Paper presented: [IC.5]
- 2013 39th IAHS World Congress on Housing Science, Milano, Italy, 17-20 September 2013. Paper presented: [IC.7]

COURSES

- 2021 *Speaker* at the short refresher course "Concezione di sistemi di monitoraggio e applicazioni". Milan Board of Engineers. Online course, 9 June 2021
- 2021 *Speaker* at the short refresher course "Classificazione dei ponti e criteri di intervento". Milan Board of Engineers. Online course, 19 May 2021

SEMINARS

- 2021 *Speaker* at the seminar “La sfida della sicurezza dei ponti esistenti”. Lecco Board of Engineers. Online webinar, 10 May 2021
- 2021 *Speaker* at the seminar “L’approccio PIARC alla gestione della sicurezza stradale: migliori pratiche e casi di studio nella Regione Lombardia - la sicurezza dell’utenza e delle strutture”. PIARC - World Road Association - Italian National Committee. Online webinar, 06 May 2021
- 2021 *Main speaker* at the webinar “Existing Reinforced Concrete Bridges: Palaces or Prisons?”. *fib* Italy YMG, C.A. - Concrete Affairs series. Online webinar, 22 April 2021

CONFERENCE PARTICIPATION

- 2021 Italian Concrete Days 2020, Online conference, 14-16 April 2021
- 2019 *fib* Italy YMG Symposium on Concrete and Concrete Structures, Parma, Italy, 15 October 2019
- 2019 International *fib* Symposium on Conceptual Design Of Structures, Madrid, Spain, 26 September 2019
- 2019 Strategies for Sustainable Concrete Structures SSCS 2019, Lecco, Italy, 5-7 September 2019
- 2018 FRC2018: Fibre Reinforced Concrete: from Design to Structural Applications, Desenzano, Italy, 27 June 2018
- 2018 Italian Concrete Days 2018, Milano and Lecco, Italy, 13-16 June 2018
- 2018 2nd International Workshop on Durability and Sustainability of Concrete Structures DSCS2018, Moscow, Russia, 6-7 June 2018
- 2016 Italian Concrete Days 2016, Roma, Italy, 27-28 October 2016
- 2016 4th International Symposium on Ultra-High Performance Concrete and High Performance Construction Materials HiPerMat 2016, Kassel, Germany, 9-11 March 2016
- 2015 7th RILEM Conference on High Performance Fiber Reinforced Cement Composites, Stuttgart, Germany, 1-3 June 2015
- 2015 Resistenza a taglio di elementi in C.A., C.A.P. e F.R.C., Milano, Italy, 17 June 2015
- 2014 20th CTE conference, Milano, Italy, 6-8 November 2014
- 2014 10th *fib* International PhD Symposium in Civil Engineering, Québec, Canada, 21-23 July 2014
- 2013 39th IAHS World Congress on Housing Science, Milano, Italy, 17-20 September 2013
- 2011 7th Central European Congress on Concrete Engineering, Balatonfüred, Hungary, 22-23 September 2011
- 2011 3rd International Workshop on the Performance, Protection and Strengthening of Structures under Extreme Loading, Lugano, Switzerland, 30 August-1 September 2011
- 2011 Structural Engineers World Congress, Cernobbio, Italy, 4-6 April 2011
- 2011 Progettare e realizzare elementi strutturali in calcestruzzo fibrorinforzato” a cinque anni dal Documento CNR DT – 204, Roma, Italy, 4 February 2011
- 2010 *fib* workshop on Shear and punching shear in RC and FRC elements, Salò, Italy, 15-16 October 2010
- 2010 International Conference on Material Science and 64th RILEM Annual Week, Aachen, Germany, 6-10 September 2010

Organization of national and international conferences

- 2021 *Member of the Scientific Committee* of the SECOND *fib* ITALY YMG SYMPOSIUM ON CONCRETE AND CONCRETE STRUCTURES to be held in Rome (Italy) - 22 November 2021
- 2021 *Member of the Organizing Committee* of the 4TH *fib* PHD SYMPOSIUM to be held in Rome (Italy) - September 2022
- 2018 *Member of the Organizing Committee* of the ITALIAN CONCRETE DAYS 2018 national conference held in Milano and Lecco (Italy) - June 2018
- 2016 *Contributor* to the organization of the ITALIAN CONCRETE DAYS 2016 national conference held in Roma (Italy) - October 2016
- 2016 *Contributor* to the organization of the 8TH INTERNATIONAL CONFERENCE ON CONCRETE UNDER SEVERE CONDITIONS-ENVIRONMENT LOADING - CONSEC2016 held at Politecnico di Milano - Polo Territoriale di Lecco - September 2016
- 2014 *Contributor* to the organization of the XX CONGRESSO CTE national conference held in Milano (Italy) - November 2014
- 2011 *Contributor* to the organization of the THIRD INTERNATIONAL WORKSHOP ON THE PERFORMANCE, PROTECTION AND STRENGTHENING OF STRUCTURES UNDER EXTREME LOADING - PROTECT2011 held in Lugano (Switzerland) - August 2011

Commission of trust

- 2021 *Academic Editor* of the scientific journal Advances in Civil Engineering
- 2021 *Topic Editor* of the scientific journal Applied Sciences (Civil Engineering section)
- Peer reviewer* for the following scientific journals: Cement and Concrete Composites, Materials and Structures, Engineering Structures, Automation in Construction, Advances in Civil Engineering, Applied Sciences, Materials, Sustainability, Buildings, Fibers, Energies, Infrastructures

Memberships

- Member* of the CTE association
- Member* of the Italian *fib* young members group

Institutional assignments

- 2006-2008 Member of the School of Building Engineering/Architecture Council as students' representative, Politecnico di Milano

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