

## **Curriculum Vitae - Enrico Sergio Mazzucchelli**

Enrico S. Mazzucchelli is a Building Engineer (Politecnico di Milano, 2001). Since April 2020, he is associate professor - 08/C1 - DESIGN E PROGETTAZIONE TECNOLOGICA DELL'ARCHITETTURA - SDS ICAR/10 Architectural Engineering – Department of Architecture, Built environment and Construction Engineering, Politecnico di Milano.

Since 2002, he has been carrying out research activities on: design and verification of technical behaviour and performance of innovative systems and building components, focusing on building envelopes and façades, integration and harmonization of building services and renewable energy sources systems in nearly Zero-Energy Buildings (nZEB), timber construction by means of industrial prefabrication techniques and technologies, retrofit of existing buildings.

### **ACADEMIC AND SCIENTIFIC ACTIVITY**

He is lecturer of “Building Services Design Studio” (Bachelor in Building and Construction Engineering, L23) and “Building Services” (Master of Science in Building Engineering/Architecture, LM4).

From 2008 to 2019 he has been adjunct professor at the Politecnico di Milano, AUIC School (Building and Construction Engineering; course: Building Services Design Studio)

Since 2002, he has been lecturer assistant and coordinator of workshops and laboratories at the Politecnico di Milano, AUIC School (Master of Science – Building Engineering; courses: Complex Buildings Design, Timber Construction Technologies, Architectural Engineering and Building Services II).

Since 2007, he has been lecturer in master's and specialization courses.

He has been supervisor and co-supervisor of more than 200 final bachelor and master theses - Building and Construction Engineering and Building Engineering, Leonardo Campus, Politecnico di Milano.

He has been academic tutor of more than 200 students internships - Building and Construction Engineering and Building Engineering, Leonardo Campus, Politecnico di Milano.

Since 2020, he has been lecturer assistant at the University of Nottingham, Department for Architecture and Built Environment, Design Studio (prof. M. Alston and prof. N. Jaeger).

Since 2015, he has organized and coordinated the ACME Seminar (Advanced Construction Management and Economics Seminar) in partnership with the Technische Universität of Graz (Austria).

He is member of the EFN European Façade Network.

He is member of the “Ar.Tec.” Italian Scientific Society of Architectural Engineering.

He is member of the “Façade Tectonics Institute”, Newington, USA.

Since 2013, he has been member of the “CIBW098 – Intelligent and responsive buildings” Commission - International Council for Research and Innovation in Building and Construction.

Since 2012, he has been member of the scientific committee of the Casa 21 project (protocol for reconstruction and seismic retrofitting of ancient villages in Italy).

From 2012 to 2017, he was member of the Façade Working Group coordinated by the Building Cluster of IDM Südtirol-Alto Adige of Bolzano. The working group included the major operators in the South Tyrolean sector of complex façades for buildings.

Since 2017, he has been member of the Scientific Committee of the following international conferences:

- “Beyond 2020 – World Sustainable Built Environment Conference”, 2-4 November 2020, Göteborg (Sweden) (2020).
- “Facades19 – Southern challenges and beyond”, 22 November 2019, Lisbon (Portugal) - European Façade Network (2019).
- “Annual Design Research Conference” – Real/Material/Ethereal, 3-4 October 2019, Monash University, Melbourne (Australia) (2019).
- “Future envelope 12: It’s all about performances”, 20-21 May 2019, Bolzano (Italy) - European Façade Network (2019).

- “Annual Design Research Conference”, 27-28 September 2018, University of Sydney, Sydney, (Australia) (2018).
- “International Conference on Building Envelope Design and Technology “Next Facades”” - 7 November 2017 – Munich University of Technology (Germany) (2017).

Since 2012, he has been a speaker at more than 20 international conferences.

He is member of the scientific committee of the journal MODULO (Progetto – Tecnologia – Prodotto), BE-MA Editrice, Milano, ISSN 0390-1025, and coordinator of the scientific committee.

He is member of the editorial board of the “Journal of Facade Design and Engineering”, ISSN 2213-3038.

Reviewer activity for the following international journals: "Building and Environment" (Elsevier); "Journal of Building Engineering" (Elsevier); "Journal of Facade Design and Engineering" (TU Delft Open); "Journal of Housing and the Built Environment" (Springer); "TEMA - Technologies Engineering Materials Architecture" (Ar.Tec); "TECHNE - Journal of Technology for Architecture and Environment" (SITdA).

## RESEARCH ACTIVITY

From 2017 to 2019, he was research fellow at the ABC Dpt. - Politecnico di Milano. Research title: “Study of a system, integrating building components and services, for the reconstruction of school buildings and complexes in areas damaged by earthquakes in Italy”.

From 2013 to 2019, he participated in the activities of the “Advanced materials and innovation of construction systems” research group (Dpt. ABC – Politecnico di Milano) – Timber constructions (2013-2019).

From 2015 to 2018, he participated in the research project COST Action TU 1403 “Adaptive Façade Network”, financed by COST (European Cooperation in Science and Technology).

In 2017, he participated in the design activity and coordinated the building services design and integration group for the post-earthquake reconstruction of the San Severino Marche Technical Institute (MC, Italy). The research work was part of the program set by Government Commissioner for the reconstruction of areas affected by the earthquake of August, 24th 2016, in the framework of the Memorandum of Understanding between the Commissioner and the Conference of Rectors of Italian Universities.

From 2016 to 2017, he collaborated in the research project “Study of innovative solutions for high performance external wall insulation façade systems, optimized in cost/performance and sustainability ratio” financed by Rockwool Italia SpA, ABC Dpt. - Politecnico di Milano.

From 2015 to 2016, he was research fellow at the ABC Dpt. - Politecnico di Milano. Research title: “Study and optimization of high performance integrated envelope-building services technical solutions for “Zero Energy” buildings”.

From 2013 to 2016, he participated in the research activities and responsible for the building services integration in the "Geode" project (large, spherical-shaped buildings as containers of multifunctional buildings of standard dimensions, registered at “Registro Pubblico Generale delle opera protette” at the Ministry for Cultural Heritage and Activities on 27 December 2016), CIS-E (Construction Innovation and Sustainable Engineering) - Politecnico di Milano.

From 2010 to 2013 he carried out the research "Models and tools to support the project of innovative envelopes for zero emission buildings in urban districts (Zero Emission Envelopes Districts)", ABC Dpt. - Politecnico di Milano.

From July 2012 to October 2012, he spent a research period (July-October) at the Högskolan i Gävle (Sweden), Academy for Technology and Environment on “Zero Emission Envelopes District” (focus on renewable energy applications for innovative and sustainable buildings, renewable energy exploitation strategies at urban and district scale, use and integration of innovative materials and technologies in the building envelope), design strategies for “Zero Energy Buildings”, and integration of systems for the exploitation of renewable energy resources in high performance building envelopes.

From 2010 to 2012, he participated in the research project "Project 999" coordinated by TIS Innovation Park – Cluster Edilizia and financed by Provincia Autonoma di Bolzano (Italy).

In 2011, he participated in the research project "Research and development of an highly industrialized innovative building process for the construction of new urban settlements" financed by ALER.

## PUBLICATIONS

He is author of more than 80 scientific publications (including 4 papers in “Class A” journals, other 5 papers in Scopus indexed international journals and 4 books).

The conference paper “Fire Safety Façades Design – The case study of an office tower in Milan” (Façade Tectonics 2020 World Congress) was selected for the “Journal of Façade Design and Engineering” Special Issue (Vol. 8/1 - 2020).

The conference paper “Energy retrofit of opaque building façades: strategies and case studies” (REUSO 2019) has been selected for the “Journal of Architectural Conservation” Special Issue REUSO 2019.

The conference paper “Fire safety and façades refurbishment in high-rise buildings” (Colloqui.AT.e 2018) was selected for the “TEMA Technologies Engineering Materials Architecture” Vol. 5/2019 Issue.

The articles “Study of a BIPV Adaptive System. Combining Timber and Photovoltaic Technologies” and “What is an Adaptive Façade? Analysis of Recent Terms and Definitions from an International Perspective” (Final Conference of COST TU 1403 2018) were selected for the “Journal of Façade Design and Engineering” Special Issue (Vol. 6/3 - 2018).

The conference paper “Structural aspects of façade claddings” (Colloqui.AT.e 2016) was selected for the “TEMA Technologies Engineering Materials Architecture” Vol. 3/2017 Issue.

### List of publications

- Pastori S., Mereu R., Mazzucchelli E.S., Passoni S., Dotelli G., “Energy Performance Evaluation of a Ventilated Façade System through CFD Modeling and Comparison with International Standards”, *Energies* 2021, 14, 193.
- E.S. Mazzucchelli, P. Rigone, B. J. De la Fuente, P. Giussani, “Fire Safety Façade Design and Modelling: the Case Study of the Libeskind Tower”, *Journal of Façade Design and Engineering*, vol. 8 (1), pp. 21-42, November 2020.
- E.S. Mazzucchelli, P. Rigone, L. Forzani, “Use of vegetation to increase building energy efficiency: application to a real case study”, *Beyond 2020 - World Sustainable Built Environment Conference*, 2-4 November 2020, Göteborg (Sweden).
- M.C. Dejaco, E.S. Mazzucchelli, F. Pittau, L. Boninu, M. Röck, N. Moretti, A. Passer, “Combining LCA and LCC in the early-design stage: a preliminary study for residential buildings technologies”, *Beyond 2020 - World Sustainable Built Environment Conference*, 2-4 November 2020, Göteborg (Sweden).
- P. Rigone, E.S. Mazzucchelli, P. Giussani, M. Alston, “Architectural integration of photovoltaics in high-rise office buildings: a case study in Milan”, paper accepted for the *Advanced Building Skins 2020 Conference*, 27-28 October 2020, Bern (Switzerland).
- A. Stefanazzi, E.S. Mazzucchelli, A. Lucchini, “Teoria e progettazione delle coperture discontinue”, *Edicom Edizioni*, 244 pagine, September 2020.
- E.S. Mazzucchelli, A. Stefanazzi “Modern façade claddings refurbishment: methodology and application to a significant case study”, *Rehabend Congress*, 28 September 2020, Granada (Spain).
- G.M. Anagni, T. Bristogianni, F. Oikonomopoulou, P. Rigone, E.S. Mazzucchelli “Recycled glass mixtures as cast glass components for structural applications, towards sustainability”, *Challenging Glass Conference 7*, September 2020, Ghent (Belgium).
- E.S. Mazzucchelli, P. Rigone, B. J. De la Fuente “Fire Safety Façades Design – The case study of an office tower in Milan”, *Façade Tectonics 2020 World Congress*, 5-6 August 2020, Los Angeles (USA).
- E.S. Mazzucchelli, A. Lucchini, S. Silva, M. Severgnini “A contribution to the post disaster emergency : modular prefabricated units ‘Wood Box’”, paper accepted for the 43<sup>rd</sup> IAHS World Congress on Housing, 16-19 March 2020, Cochabamba (Bolivia).
- E.S. Mazzucchelli, B. Bossi, C. Marchetti, M. Trani “Wind plant systems for a sustainable construction site”, paper accepted for the 43<sup>rd</sup> IAHS World Congress on Housing, 16-19 March 2020, Cochabamba (Bolivia).
- E.S. Mazzucchelli, E. Pizzi, M. Acito, C. Del Pero, E. Seghezzi, V. Villa “Technical-scientific support for the definition of the project for the reconstruction of school buildings involved in seismic events”, book chapter *Research for Development*, p. 193-2020, ed. Springer, December 2019. DOI: 10.1007/978-3-030-33687-5\_17

- E.S. Mazzucchelli, A. Lucchini, A. Stefanazzi *“Energy refurbishment of building facades: strategies and examples of intervention”*, proceedings of the Congress Reuso, 23-26 October 2019, Matera (Italy).
- E.S. Mazzucchelli, A. Lucchini, A. Stefanazzi, *“Fire safety issues in high-rise building façades”*, TEMA Technologies Engineering Materials Architecture, vol. 5 (1), pp. 130-140, 2019, DOI: 10.17410/tema.v5i1.221.
- E.S. Mazzucchelli, *“Facciate e sicurezza al fuoco”* [Building façades and fire safety], Specializzata Edilizia, BE-MA Editrice, n. 247 (pp. 20-25), Milano (Italy), February 2019.
- E.S. Mazzucchelli, *“Facciate e sicurezza al fuoco”* [Building façades and fire safety], Modulo, BE-MA Editrice, n. 417 (pp. 80-85), Milano (Italy), February 2019.
- E.S. Mazzucchelli, L. Aelenei, D. Aelenei, R. Romano, M. Brzezicki, J. Rico Martinez, *“Case Studies – Adaptive Façades Network”*, Volume 3.1, TU Delft Open, November 2018.
- E.S. Mazzucchelli, R. Romano, L. Aelenei, M. da Gloria Gomes, T. Karlessi, M. Alston, D. Aelenei, *“Passive Adaptive Façades – Examples from COST TU1403 Working Group 1”*, Final Conference of COST TU 1403 proceedings, 26-27 November 2018, Luzern (Switzerland).
- E.S. Mazzucchelli, M. Alston, M. Brzezicki, L. Doniacovo, *“Study of a BIPV Adaptive System. Combining Timber and Photovoltaic Technologies”*, Journal of Façade Design and Engineering, vol. 6 (3), pp. 149-162, October 2018, DOI 10.7480/jfde.2018.3.2602
- E.S. Mazzucchelli, R. Romano, L. Aelenei, D. Aelenei, *“What is an Adaptive Façade? Analysis of Recent Terms and Definitions from an International Perspective”*, Journal of Façade Design and Engineering, vol. 6 (3), pp. 65-76, October 2018, DOI 10.7480/jfde.2018.3.2478
- E.S. Mazzucchelli, *“L’involucro di edifici complessi: aspetti progettuali e costruttivi”* [The envelope of complex buildings: design and construction aspects], Modulo, BE-MA Editrice, n. 415 (pp. 78-83), Milano (Italy), October 2018.
- E.S. Mazzucchelli, A. Lucchini, A. Stefanazzi, *“Fire safety and façades refurbishment in high-rise buildings”*, ARTEC Congress 2018, Cagliari (Italy), 12-14 September 2018.
- E.S. Mazzucchelli, A. Lucchini, A. Stefanazzi, G. Cavalcante, *“Study of an integrated prefabricated system for pitched roofs”*, ARTEC Congress 2018, Cagliari (Italy), 12-14 September 2018.
- E.S. Mazzucchelli, A. Stefanazzi, *“Industrial heritage refurbishment: the case study of a manufacturing site in Canale (Italy)”*, Rehabend 2018 Congress, Caceres (Spain), May 2018.
- E.S. Mazzucchelli, G. Santoro, A. Lucchini, *“A design proposal for a building integrated solar thermal vertical collector (BIST) as a dynamic self-activated shading device”*, 42nd IAHS World Congress, Napoli (Italy), April 2018.
- E.S. Mazzucchelli, G. Santoro, *“L’involucro”abile”* [The “clever” envelope], The Next Building, Year II n. 4 (pp. 46-53), Milano, DBInformation SpA, December 2017.
- E.S. Mazzucchelli, G. Santoro, *“Smart Material”*, The Next Building, Year II n. 4 (pp. 40-45), DBInformation SpA, Milano (Italy), December 2017.
- E.S. Mazzucchelli, M. Alston, L. Doniacovo, *“Study of a BIPV Adaptive System. Combining Timber and Photovoltaic Technologies”*, ne-xt facades, Cost Action TU1403 Midterm Conference, Munich (Germany), November 2017.
- E.S. Mazzucchelli, M. Alston, M. Brzezicki, L. Aelenei, U. Pottgiesser, *“Desired morphology in energy capture and storage advanced facades”*, ne-xt facades, Cost Action TU1403 Midterm Conference, Munich (Germany), November 2017.
- E.S. Mazzucchelli, L. Doniacovo, *“The integration of BIPV Adaptive Flakes in the building envelope”*, 12th Conference on Advanced Building Skins 2017, Bern, 2-3 October 2017.
- E.S. Mazzucchelli, A. Lucchini, *“Una possibile risposta per l’adeguamento sismico e la valorizzazione dei borghi antichi: il protocollo “Casa21”* [A possible answer for the seismic retrofitting and the improvement of ancient buildings: the “Casa21” protocol] ARTEC Congress 2017, Ancona (Italy), 28-29 September 2017.

- E.S. Mazzucchelli, *“Edifici in legno - una via verso processi di costruzione e di gestione del cantiere innovativi”* [Timber buildings - a path to innovative construction and site processes], Modulo n. 408 (pp. 70-77), BE-MA Editrice, Milano (Italy), September 2017.
- E.S. Mazzucchelli, A. Lucchini, A. Stefanazzi, S. Tattoni, *“Analysis and control of façade claddings structural issues”*, TEMA Technologies Engineering Materials Architecture, vol. 3 (1), pp. 88-100, 2017, DOI: 10.17410/tema.v3i1.120.
- E.S. Mazzucchelli, L. Baroni, *“Zero Energy Districts: uno sguardo verso il futuro”* [Zero Energy Districts: a look towards the future], Modulo n. 407 (pp. 64-71), BE-MA Editrice, Milano (Italy), June 2017.
- E.S. Mazzucchelli, *“Legno: nuova frontiera (del costruire) NZEB”* [Wood: the new frontier (of building) NZEB], The Next Building, Year II n. 2 (pp. 61-72), DBInformation SpA, Milano (Italy), June 2017.
- E.S. Mazzucchelli, *“Facciate adattive”* [Adaptive façades], The Next Building Year II n. 2 (p. 13), DBInformation SpA, Milano (Italy), June 2017.
- E.S. Mazzucchelli, A. Lucchini, *“Innovative Tall Buildings with Spherical Shape”*, International Journal for Housing Science and Its Applications, vol. 41 n. 1, pp. 1-12, 2017.
- E.S. Mazzucchelli, M. Brugola, *“Acustica architettonica: il caso del nuovo auditorium “Pavilion” di Unicredit”* [Architectural acoustics: the case of the new Unicredit "Pavilion" auditorium], Modulo n. 405 (pp. 42-49), BE-MA Editrice, Milano (Italy), February 2017.
- E.S. Mazzucchelli, S. Mangialardo, M. Persello *“Nuovo dentro, vecchio fuori – soluzioni innovative per il recupero”* [New inside, old outside - innovative solutions for building refurbishment], Edilizia Specializzata n. 235 (pp. 68-75), BE-MA Editrice, Milano (Italy), February 2017.
- E.S. Mazzucchelli, *“Capitolo 2 - Requisiti e prestazioni caratterizzanti”* [Chapter 2 - Characterizing requirements and performances] (pp. 7-27), in *“Rivestimenti a cappotto ad alte prestazioni – Teoria e soluzioni”* [High performance external wall insulation systems - Theory and solutions], edited by Rockwool Italia SpA, Milano (Italy), January 2017 – ISBN 978-88-908722-5-9.
- E.S. Mazzucchelli, A. Stefanazzi, *“Capitolo 3 – Configurazione delle soluzioni”* [Chapter 3 - Configuring solutions] (pp. 28-40), in *“Rivestimenti a cappotto ad alte prestazioni – Teoria e soluzioni”* [High performance external wall insulation systems - Theory and solutions], edited by Rockwool Italia SpA, Milano (Italy), January 2017 – ISBN 978-88-908722-5-9.
- E.S. Mazzucchelli, A. Stefanazzi, *“Capitolo 4 – Progettazione e realizzazione”* [Chapter 4 - Design and construction] (pp. 41-49), in *“Rivestimenti a cappotto ad alte prestazioni – Teoria e soluzioni”* [High performance external wall insulation systems - Theory and solutions], edited by Rockwool Italia SpA, Milano (Italy), January 2017 – ISBN 978-88-908722-5-9.
- E.S. Mazzucchelli, A. Stefanazzi, *“Capitolo 5 – Errori tipici, controlli in opera e finali, strategie di intervento”* [Chapter 5 - Typical errors, on-site and final checks, intervention strategies] (pp. 50-63), in *“Rivestimenti a cappotto ad alte prestazioni – Teoria e soluzioni”* [High performance external wall insulation systems - Theory and solutions], edited by Rockwool Italia SpA, Milano (Italy), January 2017 – ISBN 978-88-908722-5-9.
- A. Andaloro, E.S. Mazzucchelli, A. Lucchini, M. P. Pedferri, *“Photocatalytic self-cleaning coatings for building façade maintenance. Performance analysis through a case study application”*, Journal of Façade Design and Engineering, Vol. 4 (3-4), pp. 115-129, 2016, DOI: 10.3233/FDE-160054.
- E.S. Mazzucchelli, A. Ancillotti, *“Tecno Glasnost”*, Modulo n. 404 (pp. 26-43), BE-MA Editrice, Milano, (Italy), December 2016.
- A. Lucchini, E.S. Mazzucchelli, A. Stefanazzi, S. Tattoni, *“Aspetti strutturali dei rivestimenti di facciata”* [Structural aspects of façade claddings], ARTEC Congress 2016, Matera (Italy), October 2016.
- E. Gasparri, E.S. Mazzucchelli, *“Façade prefabrication in tall CLT buildings: time, cost and operation quality analysis through Building Information Modelling”*, Advanced Building Skins Conference 2016, Bern (Switzerland), October 2016.
- A. Andaloro, E.S. Mazzucchelli, A. Lucchini, *“Titanium dioxide nanotechnological coatings for preventive envelope maintenance”*, Advanced Building Skins Conference 2016, Bern (Switzerland), October 2016.

- E.S. Mazzucchelli, *"nZEB, edifici ad energia quasi zero – ombre e luci"* [nZEB, nearly zero energy buildings - shadows and lights], Edilizia Specializzata n. 233 (pp. 18-24), BE-MA Editrice, Milano (Italy), October 2016.
- E.S. Mazzucchelli, *"Sistemi costruttivi in legno – Tecnologie, soluzioni e strategie progettuali verso edifici Zero Energy"* [Timber construction systems - Technologies, solutions and design strategies for Zero Energy buildings], Maggioli Editore, 208 pages, September 2016.
- E.S. Mazzucchelli, C. Porcari, *"Zero Energy Buildings: a proposal of a simplified tool for the ZEB status assessment"*, 41st IAHS World Congress, Albufeira (Portugal), September 2016.
- E.S. Mazzucchelli, A. Ancillotti, A. Lucchini, *"The engineering of free forms envelopes: the case of the Hadid Tower twisting shape façade"*, 41st IAHS World Congress, Albufeira (Portugal), September 2016.
- E. Gasparri, G. Giunta, E.S. Mazzucchelli, A. Lucchini, *"Prefabricated CLT façade systems for fast-track construction and quality assurance"*, WCTE World Congress on Timber Engineering 2016, Vienna (Austria), August 2016.
- E.S. Mazzucchelli, *"Ombre e luci – Tempi, modi e obiettivi verso il 2020"* [Shadows and lights - Times, ways and objectives towards 2020], Modulo n. 402 (pp. 60-73), BE-MA Editrice, Milano (Italy), August 2016.
- A. Lucchini, E.S. Mazzucchelli, A. Stefanazzi, *"Materiali ed elementi costruttivi per il futuro"* [Materials and construction elements for the future], CIAS Congress 2016 – Evoluzione della sperimentazione nelle costruzioni [Evolution of experimentation in buildings], Lisbon (Portugal), May 2016.
- E.S. Mazzucchelli, A. Stefanazzi, *"The refurbishment of single property units within a building: strategies and example of intervention"*, Rehabend Congress 2016, Burgos (Spain), May 2016.
- E.S. Mazzucchelli, M. Brugola, *"Silenzio in parete"* [Silence in the wall], Modulo n. 400 (pp. 66-72), BE-MA Editrice, Milano (Italy), April 2016.
- E.S. Mazzucchelli, S. Di Silvio, *"Energy conscious non basta"* [Energy conscious is not enough], Modulo n. 397 (pp. 528-537), BE-MA Editrice, Milano (Italy), October 2015.
- A. Lucchini, E.S. Mazzucchelli, S. Mangialardo, M. Persello, *"A new CLT system for masonry construction refurbishment"*, REUSO Congress, Valencia (Spain), 22-24 October 2015.
- E. Gasparri, A. Lucchini, G. Mantegazza, E.S. Mazzucchelli, *"Construction management for tall CLT buildings: from partial to total prefabrication of façade elements"*, Wood Material Science and Engineering Journal, 10:3, Taylor & Francis, September 2015, DOI: 10.1080/17480272.2015.1075589
- E.S. Mazzucchelli, S. Mangialardo, M. Persello, *"Box in the box"*, Modulo n. 395 (pp. 272-282), BE-MA Editrice, Milano (Italy), June 2015.
- E.S. Mazzucchelli, E. Gasparri, *"Edifici (alti) in legno"* [High-rise timber buildings], Modulo n. 394 (pp. 254-258), BE-MA Editrice, Milano (Italy), April 2015.
- E.S. Mazzucchelli, *"Impianti in chiave LC-NZEB"* [LC-NZEB building services], Modulo n. 394 (pp. 216-221), BE-MA Editrice, Milano (Italy), April 2015.
- E.S. Mazzucchelli, *"Strategie progettuali per gli nZEB"* [Design strategies for nZEB], Ingenio Magazine n. 30, February 2015.
- E.S. Mazzucchelli, *"Ventilazione come strategia integrata per il comfort indoor e per il contenimento dei consumi. Uno strumento operativo per una buona qualità del progetto"* [Ventilation as an integrated strategy for indoor comfort and for reducing energy consumption. An operational tool for a good project quality], Modulo n. 393 (pp. 80-93), BE-MA Editrice, Milano (Italy), February 2015.
- A. Lucchini, E.S. Mazzucchelli, *"Innovative tall buildings with spherical shape: functional design and building services integration"*, 40th IAHS World Congress, Funchal (Portugal), 16-19 December 2014.
- A. Lucchini, E. S. Mazzucchelli, S. Mangialardo, M. Persello, *"Façadism and 'CLT' technology: an innovative system for masonry constructions refurbishment"*, 40th IAHS World Congress, Funchal (Portugal), 16-19 December 2014.
- E.S. Mazzucchelli, *"NZEB – involucro come filtro selettivo, impianti a basso consumo ed alto rendimento, fotovoltaico, solare termico, eolico: gli elementi per il progetto dell'edificio a consumo zero"* [NZEB - envelope as a selective filter, low consumption and high efficiency building services, fotovoltaic, solar thermal, wind:

the elements for the zero energy building design], Modulo n. 391 (pp. 448-464), BE-MA Editrice, Milano (Italy), October 2014.

- E.S. Mazzucchelli, M. Brugola *"Pavimenti galleggianti vs rumore da calpestio: una soluzione adeguata alle normative a breve cogenti giocata sui... pads"* [Floating floors vs footstep noise: an appropriate solution to the cogent standards played on ... pads], Modulo n. 389 (pp. 288-294), BE-MA Editrice, Milano (Italy), June 2014.
- E.S. Mazzucchelli, E. Gasparri, *"Legno prefabbricato "taylor made", la fase di concept progettuale non è disgiunta dalla produzione in fabbrica e dalla costruzione in cantiere"* ["Taylor-made" prefabricated timber constructions: the design concept phase is not separated from factory production and construction on site], Modulo n. 388 (pp. 178-194), BE-MA Editrice, Milano (Italy), April 2014.
- A. Andaloro, E. Gasparri, E.S. Mazzucchelli, A. Stefanazzi, *"Innovazione tecnologica, prestazionale e architettonica di sistemi di rivestimento a parete ventilata"* [Ventilated cladding systems: technical, performance and architectural aspects], Rehabend Congress 2014 (pp. 1322-1329), Santander (Spain), April 2014.
- E.S. Mazzucchelli, E. Gasparri, *"Legno - una crescita in controtendenza: la strategia è nel dettaglio e nel controllo delle prestazioni"* [Timber constructions - a growth in countertendency: the strategy is in details and performances control], Modulo n. 387 (pp. 66-77), BE-MA Editrice, Milano (Italy), February 2014.
- A. Andaloro, E. Gasparri, A. Lucchini, E.S. Mazzucchelli, A. Stefanazzi, *"Innovative ventilated facade systems integrating multifoil RBS insulation: from 2D design to 3D model"*, Mo.Di.Phy – Modeling, from Digital to Physical – Innovation in design languages and project procedures, (pp. 268-279), Maggioli Editore, Politecnico di Milano, Lecco Campus, November 2013.
- E.S. Mazzucchelli, *"Edifici ad energia quasi zero – Materiali, tecnologie e strategie progettuali per involucri e impianti innovativi ad alte prestazioni"* [nearly zero energy buildings - Materials, technologies and design strategies for innovative high performance envelopes and building services], Maggioli Editore, 320 pages, October 2013.
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