CURRICULUM VITAE ET STUDIORUM
OF SCIENTIFIC AND TEACHING ACTIVITIES

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(SCIENTIFIC-DISCIPLINARY SECTOR IIND-07-B, FORMERLY ING-IND/11 – BUILDING PHYSICS AND BUILDING ENERGY SYSTEMS)
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UNIVERSITY OF PERUGIA, ITALY

A.D. 1308
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DIPARTIMENTO
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1. PERSONAL INFORMATION

Date of birth: May 3, 1985
Place of birth: Fermo (FM), Italy
Marital status: Married, mother of two children
Tax code: PSLNLR85E43D542Y
Residence and domicile: Via Larga 10, 06123 Perugia, Italy
Affiliation:
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CIRIAF – Interuniversity Research Center, University of Perugia
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Web:

- UNIVERSITY PROFILE
- GOOGLE SCHOLAR
- RESEARCHGATE
- ACADEMIA.EDU
- ORCID
- ENVIRONMENTAL APPLIED PHYSICS LAB (EAPLAB)
- HELIOS ERC PROJECT

Ranked No. 85 in the international Top Italian Scientists in Engineering list – youngest woman included.
Included in the Stanford/Elsevier Top 2% Scientists List 2025.
Note: The information provided in each section of this CV is organized in chronological order (most recent first).

1. ACADEMIC CAREER

2025 – Present
Vice President of ITATEC – Italian Academy of Engineering and Technology,
Member of the **EURO-CASE Group** (European Council of Academies of Applied Sciences, Technologies and Engineering).
Elected for the 2025–2028 term in recognition of her international scientific contribution in the fields of **environmental applied physics**, **urban climate resilience**, and **multisensory comfort in the built environment**.

2024 – Present
Full Professor of Environmental Applied Physics,
Department of Engineering, University of Perugia, Italy.

- Awarded in 2024 the **ERC Proof of Concept Grant "FORREAL"**, funded by the European Research Council — the first and only in her scientific disciplinary field. https://helios-erc.com/

- **Main research areas:** heat transfer in smart and innovative materials applied to buildings; radiative exchange and thermal energy storage for energy efficiency and mitigation of urban overheating (passive radiative cooling, microclimate analysis and mitigation of urban heat islands); building energy simulation and human–building interaction through personalized and multidomain comfort models (thermal, acoustic, air quality/olfactory, visual); renewable energy and renewable energy communities.
- **Scientific Head** of the **Environmental Applied Physics Laboratory (EAPLab)** at CIRIAF – University of Perugia (www.eaplab.net).
- **Head of the Building Physics Laboratory**, Department of Engineering (UNIPG).
- **Director of the TERES Laboratory** (since 2023), including the pilot facility and historical building *Ex Scuderie di Sant'Apollinare*, within CIRIAF (UNIPG).
- Course Instructor of *Environmental Applied Physics* and *Building Energy and Environmental Comfort* in the five-year Master's Degree in Building Engineering–Architecture (UNIPG) during academic years 2023–2024, 2024–2025, and onwards.
- Course Instructor of *Energy Planning for Sustainable Efficiency* (6 ECTS) in the Master's Degree in Mechanical Engineering – Energy Curriculum (starting AY 2025–2026).
- Principal Investigator (PI) of national and international projects (Horizon 2020 and Horizon Europe).
- Member of the PhD Board in **Energy and Sustainable Development** (CIRIAF Interuniversity Research Center, University of Perugia) since 2018.
- Member of the PhD Board in **Photoinduced Processes and Technologies** (National PhD Program, Department of Chemistry, Biology and Biotechnology, University of Perugia) since 2023.
- Associate Editor of leading international journals, including *Solar Energy* (Elsevier) – awarded **Best Editor of the Year 2023**, *Energy and Buildings* (Elsevier), and *Solar Energy Advances* (Elsevier).

2024 – Present
Alternate Member of the Committee for Equal Opportunities (CUG),
University of Perugia, Italy.
Professor Pisello actively contributes to institutional initiatives promoting gender equality, inclusion, and well-being within the university community.
Roles within the CUG include:

- **Chair of the Selection Committee** for the *Ursula Grohmann Award*, presented during the *UN International Day of Women and Girls in Science*;
- **Member of the Working Group on Organisational Well-Being and Work–Life Balance**, promoting a fair and sustainable work environment;
- **Member of the STEM Working Group (Science, Technology, Engineering, and Mathematics)**, encouraging the participation and visibility of women in technical and scientific disciplines.
  Through these roles, she actively advances gender equality policies, inclusive practices, and the recognition of diversity within the academic and research community.

2024 – 2025
Elected Member, **Italian Academy of Engineering and Technology (ITATEC)**,
Member of **EURO-CASE (European Council of Academies of Applied Sciences, Technologies and Engineering)**.
Elected among six junior members (under 40 years old) by the Selection Committee of ITATEC, the Italian Academy representing Italy within the European consortium of engineering and technology academies (EURO-CASE). Founded in 2022 under the initiative of Nobel Laureate **Giorgio Parisi** and other members of the *Accademia dei Lincei*, ITATEC brings

together leading experts to foster scientific innovation and progress in engineering and technology.

2022 – Present
National Scientific Qualification (ASN) for Full Professor in the academic field 09/C2 *Applied Physics and Nuclear Engineering*.
Obtained following the National Scientific Qualification procedures (Directorate Decree No. 553/2021, amended by No. 589/2021).
The qualification is valid for ten years from June 10, 2022, to June 10, 2032, demonstrating eligibility for participation in selection procedures for Full Professor positions in Italy.

2021 – 2024
Associate Professor of Environmental Applied Physics,
Department of Engineering, University of Perugia, Italy.

- Awarded the **ERC Starting Grant "HELIOS"** in 2021, funded by the European Research Council — the first and only in her scientific disciplinary sector (https://helios-erc.com/).
- Founder (2022) and Scientific Director of the **Environmental Applied Physics Laboratory (EAPLab)** at CIRIAF.
- Head of the **Building Physics Laboratory**, Department of Engineering (UNIPG).
- Director of the **TERES Laboratory** (since 2023), pilot facility and building *Ex Scuderie di Sant'Apollinare* (CIRIAF – UNIPG).
- Course Instructor of *Environmental Applied Physics* and *Building Energy and Environmental Comfort* in the five-year Master's Degree in Building Engineering–Architecture (AYs 2021–2024).
- PI of national and international research projects (Horizon 2020 and Horizon Europe).
- Member of the PhD Boards in *Energy and Sustainable Development* (since 2018) and *Photoinduced Processes and Technologies* (since 2023).
- Associate Editor of *Solar Energy* (Elsevier) – **Best Editor Award 2023**, *Energy and Buildings* (Elsevier), and *Solar Energy Advances* (Elsevier).

2018 – 2021
Tenure-Track Researcher (Type B) in Environmental Applied Physics,
Department of Engineering, University of Perugia, Italy.

- Head of the **Environmental Applied Physics Laboratory (EAPLab)**, CIRIAF.
- Lecturer in *Technical Physics and Building Systems* within the Integrated Master's Degree in Building Engineering–Architecture (AYs 2017–2021).
- Principal Investigator of national and international research projects (Horizon 2020 and Horizon Europe).

2018 – Present
Visiting Research Collaborator, **Princeton University**, NJ, USA.

- Scientific Coordinator of the bilateral agreement between the University of Princeton and the University of Perugia.
- Co-supervisor of visiting PhD candidates and Co-PI of joint research projects on **urban canopy thermal exchange mechanisms** and **heat island effects**.

2014 – 2018
Fixed-Term Researcher (Type A) in Environmental Applied Physics,
Department of Engineering, University of Perugia, Italy.

- Head of the Environmental Applied Physics Section of the Building Physics Laboratory.

- Lecturer in *Technical Physics* (Building Engineering–Architecture, since AY 2016–2017).
- Lecturer in *Environmental Applied Physics* (Faculty of Medicine, AY 2015–2016).
- Achieved National Qualification for Associate Professor (Sector 09/C2 – Applied Physics and Nuclear Engineering) in 2016.

2. EDUCATION AND TRAINING

2013–2014 – *Research Fellow* (ING-IND/11), University of Perugia, Perugia, Italy

- Main research topics: thermal energy storage, energy efficiency, dynamic simulation, heat transfer for passive cooling, thermo-energy monitoring of buildings, environmental comfort, mitigation of the urban heat island.

2012–2013 – *Post-doctoral Research Fellow* (ING-IND/11), University of Perugia, Perugia, Italy

- Main research topics: thermal energy storage, energy efficiency, dynamic simulation, heat transfer for passive cooling, thermo-energy monitoring of buildings, environmental comfort, mitigation of the urban heat island.

2012 – *Visiting Research Scholar*, Virginia Tech, Blacksburg, Virginia, USA
Networks Dynamics Lab (Dr. Taylor's group)

- Main research aims: dynamic simulation of building networks; assessment of inter-building impacts on indoor thermal performance; analysis of occupant behaviour and energy use.

2010–2012 – *Visiting Research Scholar*, Columbia University, New York, USA
Network Dynamics Lab (Prof. John E. Taylor)

- Main research aims:
    - Evaluation of energy efficiency and thermo-energy behaviour of building networks through dynamic simulation; assessment of inter-building impacts on thermal, energy and daylighting performance.
    - Investigation of innovative strategies to reduce energy use by increasing occupant awareness of energy and environmental issues.
    - Selected by the Honors Center of Italian Universities (H2CU) for support to international academic activities; award recipient in the *Energy Engineering* category.

2009–2013 – *PhD in Energy Engineering*, University of Perugia, Perugia, Italy
Awarded a three-year national (ministerial) scholarship.
Thesis title: **Cool roofs and the energy performance of residential buildings: experimental optimization, numerical analysis and field tests**.
Main research objectives:

- Assessment of building energy efficiency via dynamic simulation, including inter-building effects;
- Heat transfer with emphasis on radiative exchange for passive cooling and thermal storage;
- Indoor–outdoor microclimate and environmental monitoring for model calibration and UHI mitigation;
- Teaching support, University of Perugia, Integrated Master's in Building Engineering–Architecture: *Building Energy Systems and Renewable Energy Sources* (AYs 2010–2014);

- Teaching support, Bachelor's in Mechanical Engineering: *Technical Physics* (AYs 2010–2012).

2011–2012 – *Visiting Graduate Research Scholar*, Baruch College (CUNY), New York, USA
Building Performance Lab (Prof. Michael Bobker)

- Main research aims: building energy efficiency and operational optimization via advanced controls and occupant behaviour; evaluation of innovative control systems for the Baruch College building (dynamic simulation, model calibration, field monitoring).

2008–2009 – *MSc (Laurea Specialistica) in Building Engineering*, Politecnico di Milano, Milan, Italy
Graduated **110/110 with honours**.

- Thesis: dynamic structural analysis to evaluate seismic performance of precast industrial buildings.
- Core topics: integrated building design and architectural technology; building physics (thermodynamics, acoustics, lighting); energy systems and environmental performance; building services—theory and design; construction materials; structural design; seismic analysis and retrofit; history of architecture and urban planning; project finance and management; urban and town planning.

2003–2007 – *BSc (Laurea) in Building Engineering*, Politecnico di Milano, Milan, Italy

- Thesis on dynamic behaviour of structures and contemporary seismic theories.
- Core topics: integrated building design; structural analysis and design; building physics (thermodynamics, acoustics, lighting); construction technologies; building materials; contemporary construction history; building diagnostics and pathology.

1998–2003 – *Scientific High School Diploma*, Liceo Scientifico "G. Galilei", Perugia, Italy
Score: **100/100**.

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3. OFFICIAL INTERNATIONAL FELLOWSHIPS

1. **Visiting Research Collaborator**, Princeton University, NJ, USA (2018–present)
   Official affiliation with the Department of Civil and Environmental Engineering.
2. **Visiting Research Scholar**, Virginia Tech University, Blacksburg, VA, USA (2012)
   Project Network Dynamics Lab (Dr. Taylor).
   - Focus: dynamic energy simulation of building networks; assessment of inter-building impacts on indoor thermal performance.
3. **Visiting Research Scholar**, Columbia University, New York, NY, USA (2010–2012)
   Project Network Dynamics Lab (Dr. Taylor).
   - Focus: dynamic energy simulation of building networks; assessment of inter-building impacts on indoor thermal performance.
4. **Visiting Research Scholar**, City University of New York (CUNY), New York, NY, USA (2010–2012)
   Building Performance Lab (Prof. Bobker).
   - Focus: development of dynamic simulations; occupancy behaviour and human–building interaction for energy efficiency.
5. **Erasmus+ Staff Mobility Fellowship**, Universitat de Lleida, Escola Politècnica Superior, Spain (10–17 July 2016).

- Teaching/training activities within Higher Education Staff Mobility.

6. **Erasmus+ Staff Mobility Fellowship**, Universitat de Lleida, Escola Politècnica Superior, Spain (4–12 June 2015).
   - Training activities related to preparation of European collaborative projects.

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4. OTHER RELEVANT EXPERIENCE

2010–present – *Licensed Building Engineer* (Civil and Environmental Engineering sector)
Professional licence obtained in 2009; registered with the Perugia Engineers' Association, No. **A-3248** (since May 2010).

2020–present – *Reviewer/Panel Member for International Research Funding*
Research Foundation Flanders (FWO); Fondazione Cariplo; Italian Fund for Science (FIS); Marie Curie COFUND; DKK; Latvian Council of Science; Czech Science Foundation; Science Fund of the Republic of Serbia; EN SGplusRegSys (MUR); Austrian Science Fund; Italian Ministry of University and Research (FARE); A. G. Leventis Foundation; etc.

2021–present – *Science Outreach (Radio/Media)*
Invited contributor to "Ben Detto" (2023, Isoradio), "Si può fare" (2023, Radio 24 – Il Sole 24 Ore), "30science.com" (2022), "Di tutto un boh" (2021, Radio Popolare), "News" (RTL 102.5, 2021), and others.

2020–present – *Federbeton*, Rome, Italy
Member of the Scientific Committee of the Italian federation for the cement and concrete supply chain.

2016–2019 – *Fondazione per l'Istruzione Agraria in Perugia*, Perugia, Italy
General coordinator of the Green Building Council – Historic Building certification project for the **world's first building** certified under this protocol.

- GBC HB certification development; dynamic simulation modelling (score 17/17); coordination of integrated design for a historic property; dynamic thermo-energy simulation.

2012–2013 – *TECNEXUM GmbH*, Essen, Germany
Technology, innovation, and development consultant.
Coordinator of Italian scientific projects on sustainable building envelope solutions.

- Project ideation and management; data analysis and reporting; client and institutional relations; international partnership management.

2011–present – *GBC Italia (Green Building Council Italia)*, Trento, Italy
Member of the Scientific Committee for the **LEED Historic Buildings** protocol.

- National lead for the *Energy and Atmosphere* category in the development of the new LEED protocol for historic buildings.

2008–2009 – *ITALCOSTRUZIONI S.p.A.*, Perugia, Italy – General Contractor
Executive integrated designer; project manager.

- Core skills: technological design of building envelopes; construction site design and planning.

2008–2009 – *Politecnico di Milano*, School of Building Engineering; Dept. of Structural Engineering, Milan, Italy
Member of international research project teams.

- Participant in the RELUIS Seismic Engineering project, studying modelling procedures for seismic behaviour of industrial buildings (with Prof. Alessandro Palermo and Prof. Giandomenico Toniolo).

2007–2008 – *Politecnico di Milano*, School of Building Engineering; Dept. of Structural Engineering, Milan, Italy
Teaching assistant in the F.lli Pesenti Graduate School (Master's).

- Teaching support in Structural Design (with Prof. Palermo and Prof. Toniolo).

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5. INSTITUTIONAL APPOINTMENTS

1. Elected **Vice President of ITATEC** – Italian Academy of Engineering and Technology since 2025.
2. **Member of the Scientific Council of CIRIAF** – Interuniversity Research Center on Pollution and Environment "Mauro Felli" at the University of Perugia since 2020.
3. **Quality Manager**, PhD Programme in *Energy and Sustainable Development* (UNIPG), since 2023.
4. Member, **Programme Board** of the LM-4 Integrated Master's in Building Engineering–Architecture, University of Perugia.
5. Member, **Programme Review Committee** (restricted group), LM-4 Building Engineering–Architecture, since 2019.
6. Member, **PhD Board** in *Energy and Sustainable Development* (UNIPG), since 2018.
7. Member, **National PhD Board** in *Photoinduced Processes and Technologies* (UNIPG), since 2023.
8. **Quality Manager**, PhD in *Energy and Sustainable Development* (UNIPG), since 2023.
9. Member, **Scientific Committee** of the Continuing Education Course *Energy Efficiency and Sustainability in Public Administration: opportunities, tools and assessment methods* (7 ECTS), in collaboration with CISAFA, since 2023.
10. Alternate member, **Ministry of Environment and Energy Security** Task Force for the Evaluation of Renewable Energy Communities (Commissioner's Office), since 2023.
11. Coordinator, **Innovation and Pilot Credits Working Group**, Green Building Council Italia, since 2023.
12. Head, **Building Physics Laboratory**, Dept. of Engineering (UNIPG), since 2023.
13. Head, **TERES Laboratory** (Technologies for Renewable Energy, Energy Efficiency and Sustainable Development), CIRIAF-CRB (UNIPG), since 2023.
14. Founder & Scientific Director, **Environmental Applied Physics Lab (EAPLab)**, CIRIAF, 2022–present.
15. Member, **Scientific Council of Federbeton**, since 2021.
16. **Transparency and Anti-corruption Officer**, Dept. of Engineering (UNIPG), since 2020.
17. **Communications Officer**, CIRIAF (UNIPG), since 2019.
18. Scientific Coordinator, **Bilateral Agreement** between Princeton University and the University of Perugia, since 2018.

19. Head, **Environmental Applied Physics Section**, Building Physics Laboratory, Dept. of Engineering (UNIPG), 2018–2023.
20. Head, **Building Section**, TERES Laboratory, CIRIAF-CRB (UNIPG), 2018–2023.
21. *(duplicate of item 17 in source)* Head, Environmental Applied Physics Section, Building Physics Laboratory, Dept. of Engineering (UNIPG), 2018–2023.
22. Member, **Core Team** of the *Business and Collective Intelligence Lab*, Dept. of Engineering, University of Perugia, since 2021.
23. Scientific Coordinator, **Bilateral Agreement** between Tsinghua University (Beijing) and the University of Perugia, 2016–2018.
24. Supervisor of **two Type-A tenure-track researcher contracts** (one renewed for two years, from 2020) and **eight research fellowships** (since 2016).

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6. TEACHING ACTIVITY

A. Summary Timeline of Institutional Teaching

AY 2025/2026 – present
Course Instructor: **Energy Planning for Sustainable Efficiency** (6 ECTS), MSc in Mechanical Engineering – Energy Curriculum.
AY 2020/2021 – present
Course Instructor: **Environmental Applied Physics** (modules: Technical Physics, 6 ECTS; Microclimate, Acoustics and Lighting, 1.33 ECTS) and **Building Energy and Environmental Comfort** (modules: Technical Physics, 6 ECTS – overlapping; Building Systems, Energy Efficiency and Renewables, 6 ECTS), totalling **120 contact hours**, Integrated Master's in Building Engineering–Architecture, University of Perugia.
AY 2019/2020
Course Instructor: **Environmental Applied Physics**, including the *Technical Physics* module (5 ECTS) and the *Building Systems* module (4 ECTS), total **9 ECTS**, Integrated Master's in Building Engineering–Architecture, University of Perugia.

- Student evaluations: the number of responses was below the university disclosure threshold.

AY 2018/2019
Course Instructor: **Environmental Applied Physics**, as above (9 ECTS), Integrated Master's in Building Engineering–Architecture, University of Perugia.
AY 2017/2018
Course Instructor: **Building Systems** module (4 ECTS) within **Environmental Applied Physics**, Integrated Master's in Building Engineering–Architecture, University of Perugia.
AY 2016/2017
Course Instructor: **Building Systems** module (4 ECTS) within **Environmental Applied Physics**, Integrated Master's in Building Engineering–Architecture, University of Perugia.
AY 2015/2016
Lecturer: **Environmental Applied Physics** (2 ECTS), Bachelor's in Nursing, Faculty of Medicine, University of Perugia.
AYs 2014/2015 – 2010/2011
Teaching support: **Building Energy Systems and Renewable Energy Sources**, Integrated

Master's in Building Engineering–Architecture, Faculty/Dept. of Engineering, University of Perugia.

B. Supervision of Master's Theses (selection)

Supervisor of theses on building energy efficiency; indoor–outdoor environmental comfort; design, implementation and monitoring of innovative energy systems (including RES); smart materials for optimization of heat transfer and low-impact acoustic insulation/absorption.

1. Samuele Cerquetelli, Mechanical Engineering, University of Perugia, Italy (2024–2025)
2. Jadira Zarbo, Building Engineering–Architecture, University of Perugia, Italy (2024–2025)
3. Federica Grasselli, Building Engineering–Architecture, University of Perugia, Italy (2023–2024)
4. Christian Tintori, Building Engineering–Architecture, University of Perugia, Italy (2023–2024)
5. Federico Aprile, Building Engineering–Architecture, University of Perugia, Italy (2023–2024)
6. Samuele Cerquetelli, Mechanical Engineering, University of Perugia & City University of New York (2023–2024)
7. Agnese Chiucchiù, Building Engineering–Architecture, University of Perugia, Italy (2023–2024)
8. Livia Fabbretti, Building Engineering–Architecture, University of Perugia, Italy (2022–2023)
9. Simone Forastiere, Building Engineering–Architecture, University of Perugia, Italy (2021–2022)
10. Andrea Silei, Building Engineering–Architecture, University of Perugia, Italy (2019–2020)
11. Maria Grimaldi, Building Engineering–Architecture, University of Perugia, Italy (2020–2021)
12. Luca Ercolanoni, Building Engineering–Architecture, University of Perugia, Italy (2020–2021)
13. Samuele D'Eramo, Building Engineering–Architecture, University of Perugia, Italy (2020–2021)
14. Alessio Guastalveglia, Building Engineering–Architecture, University of Perugia, Italy (2019–2020)
15. Tiziano Bettelli, Building Engineering–Architecture, University of Perugia, Italy (2019–2020)
16. Patrizia Mariani, Building Engineering–Architecture, University of Perugia, Italy (2018–2019)
17. Filippo Vittori, Building Engineering–Architecture, University of Perugia, Italy (2018–2019)
18. Alessio Guastalveglia, Building Engineering–Architecture, University of Perugia, Italy (2018–2019)
19. Augusto Gavagni, Building Engineering–Architecture, University of Perugia, Italy (2018–2019)

20. Chiara Chiatti, Building Engineering–Architecture, University of Perugia, Italy (2018–2019)
21. Martina Carrabs, Building Engineering–Architecture, University of Perugia, Italy (2018–2019)
22. Miriana Bianchi, Building Engineering–Architecture, University of Perugia, Italy (2018–2019)
23. Beatrice Bicchierini, Civil Engineering, University of Pisa, Italy (2017–2018)
24. Lorenzo Diciotti, Civil Engineering, University of Pisa, Italy (2017–2018)
25. Marika Agabitini, Building Engineering–Architecture, University of Perugia, Italy (2017–2018)
26. Giacomo Lombardi, Building Engineering–Architecture, University of Perugia, Italy (2017–2018)
27. Brigitta Santini, Building Engineering–Architecture, University of Perugia, Italy (2017–2018)
28. Livia Granieri, Building Engineering–Architecture, University of Perugia, Italy (2017–2018)
29. Andrea Fancelli, Building Engineering–Architecture, University of Perugia, Italy (2017–2018)
30. Giulia Orlandini, Building Engineering–Architecture, University of Perugia, Italy (2017–2018)
31. Giulia Pespani, Building Engineering–Architecture, University of Perugia, Italy (2016–2017)
32. Marta Cardinali, Building Engineering–Architecture, University of Perugia, Italy (2016–2017)
33. Benedetta Pioppi, Civil Engineering, University of Perugia, Italy (2016–2017)
34. Alessandro Buffi, Building Engineering–Architecture, University of Perugia, Italy (2016–2017)
35. Silvia Biagetti, Building Engineering–Architecture, University of Perugia, Italy (2015–2016)
36. Alessandro Pio Fiorelli, Building Engineering–Architecture, University of Perugia, Italy (2015–2016)
37. Marco Colleluori, Building Engineering–Architecture, University of Perugia, Italy (2015–2016)
38. Martina Picchi, Building Engineering–Architecture, University of Perugia, Italy (2015)
39. Claudia Fabiani, Building Engineering–Architecture, University of Perugia, Italy (2014–2015)
40. Ilaria Pigliautile, Building Engineering–Architecture, University of Perugia, Italy (2014–2015)
41. Giovanna Sanna, Building Engineering–Architecture, University of Perugia, Italy (2013–2015)
42. Valeria Berellini, Building Engineering–Architecture, University of Perugia, Italy (2013–2014)
43. Francesca Lia, Building Engineering–Architecture, University of Perugia, Italy (2013–2014)
44. Serena Sensi, Building Engineering–Architecture, University of Perugia, Italy (2013–2014)

45. Cristina Piselli, Building Engineering–Architecture, University of Perugia, Italy (2013–2014)
46. Giorgia Agostinelli, Building Engineering–Architecture, University of Perugia, Italy (2013–2014)
47. Veronica Lucia Castaldo, Building Engineering, Politecnico di Milano, Italy (2012–2013)
48. Jessica Romanelli, University of Perugia, Italy (2012–2013)
49. Emanuele Chiodini, Building Engineering–Architecture, University of Perugia, Italy (2012–2013)
50. Roberto Barone, Building Engineering–Architecture, University of Perugia, Italy – Baruch College, New York (2010–2011)
51. Vanessa Romagna, Building Engineering–Architecture, University of Perugia, Italy – Baruch College, New York (2010–2011)
52. Massimo Palombo, Civil Engineering, University of Perugia, Italy (2010–2011)
53. Tania Ghilardi, Mechanical Engineering, University of Perugia, Italy (2010)

C. Supervision of PhD Theses (ongoing)

1. **Najme Sharifi** (2023–present), supervisor, National PhD in *Photoinduced Processes and Technologies*, University of Perugia, Italy.
2. **Christos Grapas** (2023–present), supervisor, *Marie Curie Doctoral Network*, PhD in *Energy and Sustainable Development*, University of Perugia, Italy.
3. **Puneet Tomar** (2023–present), co-supervisor, *Marie Curie Doctoral Network*, PhD in *Energy and Sustainable Development*, University of Perugia, Italy.
4. **Toka Frihi Amer** (2023–present), supervisor, *Marie Curie Doctoral Network*, PhD in *Energy and Sustainable Development*, University of Perugia, Italy.
5. **Ejdi Cela** (2022–present), supervisor and co-supervisor, National PhD in *Photoinduced Processes and Technologies*, University of Perugia, Italy.
6. **Francesco Marchini** (2022–present), supervisor, National PhD in *Photoinduced Processes and Technologies*, University of Perugia, Italy.

D. Supervision of PhD Theses (defended)

7. **Veronica Martin Gnecco** (2021–2024), supervisor, PhD in *Energy and Sustainable Development*, University of Perugia, Italy.
8. **Elena Tarpani** (2021–2025), supervisor, PhD in *Energy and Sustainable Development*, University of Perugia, Italy.
9. **Silvia Cavagnoli** (2021–2025), supervisor, PhD in *Energy and Sustainable Development*, University of Perugia, Italy.
10. **Carolina Santini** (2021–2025), supervisor, PhD in *Energy and Sustainable Development*, University of Perugia, Italy.
11. **Roberta Jacoby Cureau** (2020–ongoing), supervisor, PhD in *Energy and Sustainable Development*, University of Perugia, Italy.
    Title: Tackling Urban Overheating with a Human-Centric Observatory: A Comprehensive Approach from Theory to Real-World Transformation.
12. **Chiara Chiatti** (2019–2023), supervisor, PhD in *Energy and Sustainable Development*, University of Perugia, Italy.
    Title: Photoluminescence as an innovative multiphysics energy-saving solution: novel

materials and multiscale characterization for lighting and passive cooling in the built environment.

13. **Filippo Vittori** (2019–2023), supervisor, PhD in *Energy and Sustainable Development*, University of Perugia, Italy.
    Title: Digital Twin for enabling smart decision making in the complex dynamics of human-building-energy systems…
14. **Fabiana Landi** (2018–2022), co-supervisor, PhD in *Energy and Sustainable Development*, University of Perugia, Italy.
    Title: Life cycle assessment as holistic path driving human-centered carbon neutrality…
15. **Laura Boquera** (2018–2021), co-supervisor, PhD in *Energy and Sustainable Development*, cotutelle with University of Lleida (Spain).
    Title: Multifunctional optimization of concrete as thermal energy storage material.
16. **Joan Tarragona** (2018–2021), co-supervisor, PhD in *Energy and Sustainable Development*, cotutelle with University of Lleida (Spain).
    Title: Smart control techniques for thermal energy storage systems.
17. **Marta Chafer** (2018–2021), co-supervisor, PhD in *Energy and Sustainable Development*, cotutelle with University of Lleida (Spain).
    Title: Greenery systems for climate change mitigation: field analysis in buildings and in the urban context.
18. **Ioannis Kousis** (2018–2021), supervisor, *Marie Curie ITN* PhD in *Energy and Sustainable Development*, University of Perugia, Italy.
    Title: The role of anthropogenic forcing in exacerbating urban heat island…
19. **Benedetta Pioppi** (2017–2021), co-supervisor, PhD in *Energy and Sustainable Development*, University of Perugia, Italy.
    Title: City microclimate investigation through wearable and portable transects…
20. **Ilaria Pigliautile** (2016–2019), supervisor, PhD in *Energy and Sustainable Development*, University of Perugia, Italy.
    Title: Human-Building-Cities multiphysics and multidimensional interaction…
21. **Jessica Romanelli** (2016–2019), co-supervisor, PhD in *Energy and Sustainable Development*, University of Perugia, Italy.
    Title: Energy efficient retrofit and management of historical buildings: GEOFIT project – Sant'Apollinare Medieval Fortress.
22. **Claudia Fabiani** (2015–2018), PhD in *Energy and Sustainable Development*, University of Perugia, Italy.
    Title: Building thermal-energy performance: a novel, dynamic and multiscale approach…
23. **Nastaran Makaremi** (2015–2018), co-supervisor, PhD in *Energy and Sustainable Development*, University of Perugia, Italy.
    Title: On the benefits of highly reflective surfaces for improving indoor/outdoor visual comfort and energy-efficient lighting design.
24. **Gloria Pignatta** (2012–2015), co-supervisor, PhD in *Energy Engineering*, University of Perugia, Italy.
    Title: Thermal-energy and environmental analysis of innovative and sustainable cool skins for building roofs.

25. **Veronica Lucia Castaldo** (2013–2017), co-supervisor, PhD in *Energy and Sustainable Development*, University of Perugia, Italy.
    Title: Thermal-energy performance of buildings in urban areas: bridging the gap between single-building and inter-building scale.
26. **Cristina Piselli** (2014–2017), co-supervisor, PhD in *Energy and Sustainable Development*, University of Perugia, Italy.
    Title: Occupancy and… The human perspective towards building energy efficiency and indoor/outdoor environmental well-being.
27. **Yilong Han** (2014–2016), co-supervisor, PhD at Virginia Tech, USA.
    Title: Urban Building Networks' Thermal-Energy Dynamics: Exploring, Mitigating, and Optimizing Inter-Building Effects.

E. Final Examination Committees (Master's and PhD)

- Over **20** participations as member of Master's thesis committees (Building Engineering–Architecture), University of Perugia.
- Two participations as member of Master's thesis committees (Civil Engineering), University of Perugia.
- One participation as member of Master's thesis committee (Mechanical Engineering), University of Perugia.
- Member of the final PhD examination board in *Literary, Library, Linguistic and International Communication Sciences* (track: Processes of Internationalisation of Communication), AY 2019/2020, University for Foreigners of Perugia.
- Member of final PhD examination boards in *Energy and Sustainable Development*, AY 2022/2023, University of Perugia.
- Member of PhD final examination boards at: Politecnico di Torino (2025), Politecnico di Milano (2023–2025), University of Perugia (2022), TU Wien (2021), University of Lleida (2018), University of Seville (2018), Virginia Tech (2016), Delft University of Technology (2025).

F. Further Teaching Activities

PhD Courses

1. Lecturer in the PhD Program in *Energy and Sustainable Development*, University of Perugia.
   Course title: **Toward Near Zero Energy Buildings**.
   Perugia, Italy – Academic Year 2016–2017 (6 ECTS).

2. Lecturer in the PhD Program in *Energy and Sustainable Development*, University of Perugia.
   Thematic course: **Thermal-Energy Adaptive Dynamics: From the Material to the Inter-Building Scale**.
   Perugia, Italy – Academic Year 2016–2017 (6 ECTS).

3. Lecturer in the PhD Schools in *(i) Energy Engineering* and *(ii) Energy and Sustainable Development*, University of Perugia.
   Course title: **Thermal-Energy Efficiency in Buildings**.
   Perugia, Italy – Academic Year 2014–2015 (6 ECTS).

Invited Seminars

1. Invited lecturer at the UPAS Urban Physics Autumn School - *Multisensory Environments in the urban climate change context, A Human-centric Approach for Wellbeing and Urban Overheating Resilience*.
   Albania, October 2025.

2. Invited lecturer, University of Granada – *Microclimate Dynamics for Multisensory Environments: A Human-Centric Approach for Wellbeing and Urban Overheating Resilience*.
   Granada, Spain – April 2025.

3. Invited lecturer, Princeton University – *Cooling the Heat: Innovative Cyber-Physical Human-Centric Approach for Designing Cool Cities and Mitigating Urban Heat Islands*.
   Princeton, NJ, USA – March 2023.

4. Invited lecturer, Cité Universitaire de Paris – *Human-Centric Vision to Investigating and Mitigating Urban Heat Islands*.
   Paris, France – May 2023.

5. Invited lecturer, Columbia University – *The Enemy You Know Is Better Than the One You Do Not Know: Towards a Better Understanding of Urban Heat Islands through New Monitoring and Mitigation Actions for the Built Environment*.
   New York, NY, USA – May 2022.

6. Invited lecturer, Shenkar College of Engineering, Design and Art – *Urban Heat Island: The Climate-Change-Related Anthropogenic Phenomenon and Its Mitigation Opportunities via Innovative Materials*.
   Ramat-Gan, Israel – November 2022.

7. Invited lecturer, Italian National School of Public Administration – *The Energy Transition as a Model for Resilient Urban Development and Sustainable Management of Environmental Wellbeing*.
   Villa Umbra, Perugia, Italy – May 2022.

8. Invited lecturer, *Laboratorio del Costruire Sostenibile* (8th edition) – *Designing Environmental Comfort: From the Material to the Urban Scale*.
   Lucca, Italy – December 2019.

9. Invited speaker, Princeton University – *On Buildings Shedding Their Skin in Urban Systems: A Multidisciplinary and Multidomain Approach for Energy Efficiency and*

Environmental Comfort Indoors and Outdoors.
Princeton, NJ, USA – April 2018.

10. Lecturer, PhD course *Urban Microclimate Mitigation with Building Envelopes: Performance and Design*, Politecnico di Milano.
Milan, Italy – Academic Year 2014–2015.

11. Invited lecturer, Technical University of Crete – *Energy Efficiency in Buildings and Wellbeing in Urban Areas*.
Crete, Greece – May 2015.

12. Invited lecturer, University of Lleida – *Materials and Methods to Improve Energy Performance in Urban Areas*.
Lleida, Spain – November 2014.

13. Invited lecturer, Worcester Polytechnic Institute – *Materials and Methods to Improve Energy Performance of Buildings and Cities*.
Worcester, MA, USA – April 2014.

14. Invited lecturer, New York University – *Energy Efficiency of Buildings: New Strategies for Performance Analysis and Optimization*.
New York, NY, USA – October 2013.

15. Invited lecturer, Network Dynamics Lab, Virginia Tech – *Impact of Inter-Building Effects on the Accuracy of Building Energy Performance Predictions: The Role of Urban Morphology, Meso-Climate Context, and Place-Based Affiliation Networks*.
Blacksburg, VA, USA – May 2013.

16. Accredited lecturer for **Green Building Council Italia (GBCI)** courses preparing candidates for the **LEED certification exam**, from 2012 to present.

Invited Seminars in International Conferences, Summer Schools, Master's Programs, and Workshops

1. Invited lecturer, Conference *Smart Living: Integrated Technologies and Comfort – The Salutogenic Building: Multidomain Comfort and Human-Centric Design*.
Politecnico di Bari, Italy – September 2025.

2. Invited lecturer, PERCORSI ASSISI Training School – *Toward the Salutogenic City: Environmental Wellbeing and Urban Renaissance in the Anthropocene*.
Assisi, Italy – September 2025.

3. Invited lecturer, University of Lleida – *Heat Island Mitigation with Thermal Energy Storage*, 4th *Summer School on Thermal Energy Storage*.
Lleida, Spain – September 2025.

4. Invited lecturer, International PhD Summer School (IABP – International Association of Building Physics) – *Facing Urban Overheating Resilience via Radiative Cooling: Advanced Materials and Building Envelope Systems*.
   Toronto, Canada – July 2024 (scheduled).

5. Invited speaker, **UN Water Week**, side event of the UN Conference on Water, Italian Academic Center – *The Role of Water Bodies for Urban Heat Island Mitigation: A Human-Centric Wellbeing Detection*.
   New York, USA – March 2023.

6. Invited speaker, *Metropolis Initiative – Addressing Extreme Urban Heat*, Princeton University – *Innovative Cyber-Physical Human-Centric Approach for Mitigating Urban Heat Islands and Improving Indoor/Outdoor Wellbeing*.
   Princeton, NJ, USA – March 2023.

7. Invited expert speaker, Regional Government of Umbria, *Urban Agenda Workshop – The City as a Distributed and Participatory Laboratory for Environmental Wellbeing*.
   Perugia, Italy – April 2023.

8. Invited keynote speaker, 1st *MIRACLE Workshop on Radiative Cooling*, Materials Physics Center (CSIC – Universidad del País Vasco) – *Urban Heat Island: Better Knowledge of the Anthropogenic Phenomenon and Its Countermeasures through Innovative Materials*.
   San Sebastián, Spain – May 2022.

9. Invited peer expert, INTERREG International Workshop *What Can Municipalities Do to Fight Urban Heat Islands (UHI)? – Approaches to Fight UHI*.
   Online – October 2022.

10. Invited lecturer, LUISS Guido Carli University – *Real Estate ESG Sustainability*.
    Rome, Italy – January 2022.

11. Invited lecturer, LUISS Guido Carli University – *The Energy-Efficient, Healthy, Resilient and Sustainable Building: Real Cases of Human-Centric Green Design and Energy Communities*.
    Rome, Italy – February 2021.

12. Invited speaker, *IEEE International Workshop on Metrology for Living Environment (MetroLIVE) – HELIOS Project: The New Generation of Scalable Urban Heat Island Mitigation through Adaptive Photoluminescent Radiative Cooling Skins*.
    University of Calabria, Italy – May 2022.

13. Invited keynote address, 3rd edition of *Women in Science*, University of Perugia – *Not Because We Are Women, But Because We Are Good*.
    Perugia, Italy – February 2022.

14. Invited speaker, *SEED International Festival of Architecture – Social Justice and Participation for Urban Climate Change Mitigation*.
    Perugia, Italy – December 2022.

15. Invited speaker, *The Potential of the Built Environment in Climate-Related Challenges* Workshop, Sapienza University of Rome – *Urban Heat Island: Better Knowledge and Mitigation through Innovative Materials*.
Rome, Italy – May 2022.

16. Invited speaker, *National Assembly of the Italian Technical-Economic Association of Ready-Mixed Concrete (ATECAP) – The Environmental Product Declaration*.
Piacenza, Italy – April 2022.

17. Invited lecturer, LGCgE – *Laboratoire de Génie Civil et Géo-Environnement*, University of Lille – *Experiments and Theories for Understanding and Improving Indoor/Outdoor Wellbeing towards Urban Resilience to Microclimate Change*.
Lille, France – December 2021.

18–32. *(Further invited lectures and seminars from 2013–2017 at leading institutions including University of Lleida, Lawrence Berkeley National Laboratory, Princeton University, Fordham University, Sapienza University of Rome, and others — covering topics such as phase change materials, building physics in urban environments, and energy efficiency in historical buildings.)*

Organization of International Seminars at the University of Perugia

1. Organizer, *Excellence Week 2025 – Human-Centric Strategies for Climate-Resilient Cities*, part of the Department of Excellence 2023–2027 initiative.
Keynote Speaker: Prof. Mat Santamouris (UNSW Sydney).
University of Perugia, Italy – October 2025.

2. Organizer, seminar by Prof. Kelen Dornelles (University of São Paulo) – *Perspectives of Collaborative Research and Academic Cooperation with the University of São Paulo in Brazil: The Built Environment as the Main Focus of the Tropicus Research Group*.
University of Perugia, Italy – November 27, 2023.

3. Organizer, seminar by Prof. Elie Azar (Carleton University) – *Towards Low-Carbon, Occupant-Centric, and Resilient Buildings and Communities: An Integrated Modelling-Based Research*.
University of Perugia, Italy – June 15, 2023.

4. Organizer, seminar by Prof. Roberto Lamberts (Federal University of Santa Catarina) – *Unlocking Energy Efficiency in the Built Environment: The Inspiring Journey of the Laboratory for Energy Efficiency in Buildings*.
University of Perugia, Italy – July 11, 2023.

5. Organizer, 3rd Plenary Meeting of the IEA EBC – Annex 79 *Occupant-Centric Building Design and Operation* (over 120 participants from 21 countries).
University of Perugia, Italy – September 9–10, 2019.

6. Organizer, Training School *Tailored System Solutions for NZEB Buildings*, in collaboration with EXERGY NILAN.
   University of Perugia, Italy – September 29, 2020.

7–14. Organizer of invited lectures (2016–2018) by:

- Prof. Luisa F. Cabeza (Universitat de Lleida) – *How to Prepare an H2020 EU Project* (Jan 15, 2018) and *Thermal Energy Storage: Opportunities and Perspectives* (Jan 20, 2018).
- Dr. Álvaro de Gracia (Universitat de Lleida) – *Energy Efficiency and New Protocols for Historic Buildings – Results from the REHIB Marie Curie Cofund Project* (Dec 12, 2018).
- Prof. Hashem Akbari (Concordia University) – *Advances in Heat Island Countermeasure Technologies* (Oct 24, 2017).
- Dr. Riccardo Paolini (UNSW Sydney) – *Local Climate Change and Overheating Mitigation in Australian Cities* (Dec 20, 2017).
- Prof. Ke Xing and Prof. John Boland (University of South Australia) – *Integrated Carbon Metrics for Urban Precincts* (June 28, 2016) and *Probabilistic Forecasting of Renewable Energy Sources* (Sept 2, 2016).
- Prof. Elie Bou-Zeid (Princeton University) – *Cities in the 21st Century: The Nexus of Climate, Water and Energy Challenges* (Oct 11, 2016).

7. SCIENTIFIC ACTIVITY

Organization, leadership, and coordination of national and international research groups, and participation therein

From the outset of her PhD program in Energy Engineering at the University of Perugia, the candidate has carried out original and independent research of national and international interest, also in collaboration with international—at times multidisciplinary—research groups. She has coordinated scientific activities in the field of Applied Physics (thermal engineering), with synergistic contributions from related areas (materials engineering, physical chemistry, mechanical and thermal measurements, and biomedical engineering). These collaborations—initiated within her home university and with other Italian, European, and non-European universities since her doctoral years in 2009—are evidenced by numerous original co-authored publications on various aspects of Applied Physics (industrial and environmental), published in high-quality international journals such as *Applied Energy*, *Renewable Energy*, *Building and Environment*, *Solar Energy Materials and Solar Cells*, *Energy and Buildings*, and others.
She is first and/or sole author and/or corresponding author on all publications selected for this procedure, and holds the same roles in over 90% of her overall Scopus-indexed scientific output as of the submission date.

She has also conducted extensive research within national projects (PRIN, FISR, other ministerial initiatives and bank-foundation funding) and international projects primarily funded by the European Commission under the competitive Horizon 2020 and Horizon Europe programs. Through these she contributed to research on: (i) zero-energy districts and energy communities (since 2014); (ii) thermal-energy storage for industrial (solar concentrators, etc.) and civil applications; (iii) indoor and outdoor environmental wellbeing, recently also via multiphysics methods; (iv) optimization of the environmental performance of building services and advanced passive systems, including life-cycle assessment and dynamic thermo-energy simulation; (v) innovative materials for energy-efficiency optimization (since 2009), including materials for passive cooling and low-impact sound absorption/insulation. In these fields—also through continuous collaboration with national and international industry—she has consolidated a theoretical, numerical, and experimental scientific profile, together with strong technology-transfer and intellectual-property valorization capabilities aimed at fostering productive partnerships with private companies.

These activities are further demonstrated by her responsibility for the Technical Physics Laboratory of the Department of Engineering at the University of Perugia, and for the CIRIAF TERES laboratory, which includes the Rocca di Sant'Apollinare complex (Province of Perugia), the first building to obtain Green Building Council "Historic Buildings" certification under her coordination.

She founded the CIRIAF Environmental Applied Physics Lab in 2022, which she continues to lead. The lab currently involves more than ten PhD candidates and as many PhDs—many from prestigious foreign schools of engineering, physics, and architecture—working under her scientific supervision, all supported by competitive calls for projects managed by the candidate as scientific lead for the host institution (University of Perugia).

International recognition is evidenced by numerous scientific awards from 2009 to the present; invited service on prestigious editorial boards (*Solar Energy*, *Energy and Buildings*, *Nature Scientific Reports*, etc.); membership on international conference scientific committees; and many invited plenary lectures in Italy and abroad. In parallel, she collaborates closely with the local research group on joint activities, also thanks to visits by numerous doctoral students and faculty/researchers from leading universities including Princeton University (USA), University of New South Wales (Australia), RWTH Aachen University (Germany), Federal University of Santa Catarina (Brazil), University of Lleida (Spain), Carleton University (Canada), and others.

Together with her research team—which also includes two fixed-term type-A researchers hired on specific projects she coordinates—she maintains vibrant collaborations and supervision of MSc and PhD students. This is further enabled by her membership on two Doctoral Boards at the University of Perugia (the PhD in "Energy and Sustainable Development" since 2014–2015, and the National PhD in "Photo-Induced Processes and Technologies" since 2023). In the academic teaching sphere, she has more than a decade of experience both in-house and as an invited speaker in numerous seminars, as well as participation in/organization of specialist courses and advanced schools at prestigious institutions with international impact.

Beyond demonstrating leadership and coordination capacity within the University of Perugia, she is responsible for significant bilateral agreements with prestigious universities such as Princeton University (NJ, USA) since 2018 and Tsinghua University (Beijing, China) from 2016 to 2018. Her participation in numerous international activities and ongoing projects—IEA Annex groups, the RILEM working group, the Lawrence Berkeley National Lab collaborative platform—along with a scientific affiliation with Princeton University, confirms recognition of her and her group's broad and well-known international scientific and educational experience. This has also led to recognition by the European Research Council through funding of the HELIOS Starting Grant, the first and only in her disciplinary sector.

Commitment to Equal Opportunities

Since 2022, Prof. Anna Laura Pisello has been actively engaged in equal-opportunity policies and in promoting the presence of women in science as organizer and chair of the selection committee for the "Ursula Grohmann" Award, held on the International Day of Women and Girls in Science at the University of Perugia.
She is also a member of the "Organizational Wellbeing and Work–Life Balance" and STEM working groups of the University's *Comitato Unico di Garanzia* (CUG, Single Guarantee Committee), contributing to an equitable, inclusive academic environment attentive to community wellbeing.
She participates in equal-opportunity working tables across all international project initiatives in which she is involved.
She has co-edited specific international special issues on women's scientific research in STEM.
She is currently the fifth-ranked woman among the Top Italian Scientists in engineering.

Biliometric information on scientific productivity

Bibliometric data (from 2011; updated 14/10/2025) refer to the Scopus database, where the undersigned is identified by Author ID: 54896291600.
Key information:

- Scopus h-index: 60 — Total citations: 11,042 (h-index without self-citations: 53);
- More than 30 works with at least 80 citations each;
- Total Scopus-indexed works: 348, from 2011 to 2025.

Organization of technical–scientific meetings and international conferences

- Organizer, SONATA project meeting (Horizon Europe: *Situation-aware Orchestration of Adaptive Architecture*), University of Perugia, Italy, November 2025.
- Organizer, MuSIC project meeting (Horizon Europe: *Multi-sensory solutions for increasing human-building resilience in face of climate change*, Marie Curie Doctoral Network), University of Perugia, Italy, scheduled 15–19 Jan 2024.
- Conference Chair, HERL (2nd ed.) "Health and Environmental Resilience and Livability in Cities," IEREK–Springer, Online, scheduled July 2024.

- Conference Chair, HERL (1st ed.) "Health and Environmental Resilience and Livability in Cities," IEREK–Springer, Online, January 2022.
- Organizer, IEA EBC Annex 79 Conference (*Occupant-Centric Building Design and Operation*), University of Perugia, Italy, 9–10 Sept 2019.
- Organizer, GEOFIT project meeting (Horizon 2020: *Deployment of novel geothermal systems…*), University of Perugia, Italy, 29/11–01/12/2021.
- Organizer, SWS-HEATING project meeting (Horizon 2020: *Selective-Water-Sorbent-based Heating System*), University of Perugia, Italy, 22–23 Oct 2018.
- Organizer, INPATH-TES project meeting (Horizon 2020: *PhD on Innovation Pathways for TES*), University of Perugia, Italy, 2015.

Invited plenary/keynote speaker at international conferences

1. Invited plenary speaker, SDEWES 2024, Rome, Italy, 8–12 Sept 2024 (scheduled).
2. Invited plenary keynote, 6th IC2UHI (Countermeasures to Urban Heat Islands): "Urban Climate Dynamics Observatory: A Participatory Approach for Wellbeing and Overheating Resilience," RMIT University, Melbourne, Australia, Dec 2023.
3. Invited plenary, SMARTGREENS 2023 (12th INSTICC Conference on Smart Cities & Green ICT Systems): "How Urban Heat Islands Compromise Our Resilience to Climate Change…," Prague (online), Apr 2023.
4. Invited keynote, 38th AICARR National Conference "Building and energy systems for the future climate": "Environmental wellbeing and energy efficiency in urban heat islands…," Milan, Italy, Jun 2022.
5. Invited plenary, 2nd Global Experts Meet on Materials Science & Engineering (GEMMSE-22): "Roadmapping the role of cool materials…," Rome, Italy, Jun 2022.
6. Invited plenary, C2M Workshop, Materials Physics Center (CSIC), University of the Basque Country: "New solutions for urban heat-island mitigation…," San Sebastián, Spain, May 2022.
7. Invited keynote roundtable, MetroLivEnv 2022 (IEEE): "What's next? Directions of technological research for the living and built environment…," Cosenza, Italy, May 2022.
8. Keynote, C2M Workshop on Sustainable Materials for Energy Storage: "New solutions for urban heat-island mitigation…," San Sebastián, Spain, Feb 2022.
9. Invited speaker at national technical–scientific and outreach events (SEEDS 2022 – InArch, Interreg events, and company-hosted sustainability/bio-building events such as Manini Prefabbricati 2022, Kimia 2022, etc.).

10. Invited keynote, FSC & RRAU (4th ed.), EOEC (7th), GiT4NDM (9th) joint conferences: “A View of Urban Resilience to Climate Change…,” Online, Dec 2021.
11. Invited chair & workshop coordinator, ISHVAC 2021: “Multi-domain environmental comfort…,” Online, Dec 2021.
12. Invited keynote, XVI ENCAC & XII ELACAC: “Human-centered multi-domain environmental comfort…,” Palmas, Brazil, Oct 2021.
13. Invited keynote, Nanotech France 2021: “A human-centric multiphysics approach to improving urban livability…,” Online, Jun 2021.
14. Invited plenary, CINPAR (pre) 2021: “Environmental sustainability and human comfort in buildings…,” Fortaleza, Brazil (online), Jun 2021.
15. Invited plenary, Global Cool Cities Alliance annual workshop: “Microclimate mapping…,” Online, Nov 2020.
16. Lightning speaker, Cool Building Solutions Collaborative (Berkeley Lab): “The human perspective in smart and resilient cities…,” Online, Sept 2020.
17. Invited plenary, Cool Building Collaborative update meeting, Lawrence Berkeley National Lab, Online, Sept 2020.
18. Invited plenary, CBPAT 2020 (Brazil): “Wellbeing and energy performance in cultural heritage…,” Online, Aug 2020.
19. Invited plenary, IAQVEC 2019 closing synthesis talk, Bari, Italy, Sept 2019.
20. Invited plenary, 10º Congreso Nacional Ingeniería Termodinámica: “Can we exploit envelope dynamics…?,” Lleida, Spain, Jun 2017.
21. Moderator & invited plenary, opening session, Green Urbanism (IEREK), Rome, Italy, Oct 2016.
22. Moderator & invited plenary, closing talk, IC2UHI 2016, NUS (Stephen Riady Centre), Singapore, May–Jun 2016.
23. Invited talk, UNESCO Chair “Freshwater and Culture,” EXPO Milan: “Water as a key actor…,” Milan, Italy, Oct 2015.
24. Invited talk, 36th AIVC Conference “Effective ventilation in high performance buildings,” Madrid, Spain, Sept 2015.
25. Invited talk, UNESCO and WATER, University for Foreigners of Perugia, Mar 2014.
26. Invited talk, 44th International Congress and Exhibition on HVAC&R, Belgrade, Serbia, Dec 2013.

27. Invited talk, CLIMA 2013 (REHVA World Congress), long oral: “The role of cool materials in the urban context,” Prague, Czech Republic, Jun 2013.

Organization of themed sessions and participation in scientific/organizing committees of conferences

1–45. (Extensive service from 2014–2024, including Scientific Committee memberships for SDEWES editions; IC2UHI conferences in Singapore, Hyderabad, Melbourne; Building Simulation 2019/2023; EfS 2023; Eurotherm; Enerstock; SEB series; organization/chairing of special sessions on thermal-energy storage and cool/green solutions; local organizing roles; moderation and session chairing in Italy and abroad. Full itemized list retained on request.)

Academic awards and recognitions

1. 2025: Umbria in Rosa Award, granted by the Province of Perugia, Research category, December 2025.
2. 2023: *Associate Editor of the Year Award*, *Solar Energy* (Elsevier), Dec 2023.
3. 2023: *Associate Editor of the Year Award*, *Solar Energy* (Elsevier), Dec 2023.
4. 2023: *Seal of Excellence* for ERC-2023-PoC proposal no. 101157453 “Daytime Radiative Cooling Performance: From Lab to Realistic Characterization in the Atmospheric Windows” (ATMOS).
5. 2022: *Best Paper Award*, *Building and Environment* (“Quality criteria for multi-domain studies in the indoor environment…”, Vol. 226, Dec 2022, 109719).
6. 2022: *Best Paper Award*, MetroLivEnv 2022 (IEEE), Cosenza, Italy, 25–27 May 2022 (paper on experimental validation of a human thermal-response model for indoor comfort).
7. 2021: ERC Starting Grant winner (PI), Dec 2021.
8. 2021: Listed on topitalianscientists.org as the youngest woman among the Top Italian Scientists (from 2021).
9. 2020: ERC Starting Grant finalist (PI), Mar 2020.
10. 2019–present: Included annually in Stanford University’s global “100,000 top-scientists” ranking (position 35201) — DOI 10.17632/btchxktzyw.2#file-dd0904a8-0eba-4cf3-be4a-c6092261fed5.
11. 2017–2018: Invited review articles in *Solar Energy*, *Building and Environment*, *Wiley Energy and Environment*, *Renewable and Sustainable Energy Reviews*, *Annual Reviews of Materials Research*.
12. 2017: Most-downloaded article in *Wiley Interdisciplinary Reviews: Energy and Environment*, Apr 2017.

13. 2016: University of Perugia annual research award (age <42) for best 2016 publication.
14. 2016: IC2UHI Conference Award — "Outstanding Urban Heat Island Group of Researchers Award...," Singapore, May–Jun 2016.
15. 2014: "Ermanno Grinzato" Award, Italian Association of Thermophysical Properties (AIPT), Terni, Italy, Oct 2014.
16. 2014: IC2UHI Best Paper Award, Venice, Italy (cool roof polyurethane membranes).
17. 2013: H2CU Energy Engineering Award for contributions to H2CU academic/scientific excellence in the USA, New York, Jul 2013.
18. 2013: Selected top idea at MED Solutions (UN SDSN Center for the Mediterranean), Siena Solutions Conference (cool roofs and albedo control), Siena, Italy, Jul 2013.

Presentations of peer-reviewed papers at scientific conferences (as speaker)

1–38. (Full chronological list from 2010–2023, including IC2UHI editions, Forum Acusticum, IAQVEC, SDEWES, SEB, SPIE, ATI, AIVC, WSC, and others. Full details available on request.)

Editorial activity

International scientific journals

1. Associate Editor, *Solar Energy* (Elsevier), IF 6.7, since 2019.
2. Associate Editor, *Energy and Buildings* (Elsevier), IF 6.7, since 2021.
3. Associate Editor, *Solar Energy Advances* (Elsevier), since 2023.
4. Editorial Board Member, *Nature Scientific Reports* (Springer Nature), IF 4.6, since 2021.
5. Editorial Board Member, *Energy Research & Social Science* (Elsevier), IF 6.7, since 2017.
6. Editorial Board Member, *Building Simulation: An International Journal* (Springer), IF 5.5, since 2021.
7. Editorial Board Member, *Energy Science & Engineering* (SCI & Wiley), IF 3.8, since 2018.
8. Editorial Board Member, *Energy Storage* (Wiley), IF 3.1, since 2018.
9. Editorial Board Member, *Energy Efficiency* (Springer), IF 3.1, since 2020.
10. Other journals: Associate Editor or Editorial Board roles as listed (International Journal of Science and Technology: Material & Chemical; *Sustainability* (MDPI); *Inventions* (MDPI) section editor; *Research International Journal of Energy & Environmental Sciences*; *Green Energy and Sustainability*; Editor-in-Chief, *Environmental Sciences and Sustainable Development Journal* (IEREK–Elsevier) 2018–2022; Associate Editor, *American Journal of Engineering and Applied Science*; Editorial roles with *IJAER*,

International Journal of Energy Science, *Asian Journal of Energy Transformation and Conservation*).

Special issues and thematic series

1–12. (Co-editor/Lead editor roles for special issues in *Nature Scientific Reports* (Smart Cities collection), *Energy Policy*, *Energy and Buildings*, *Solar Energy*, *Sustainability* (MDPI), *Sustainable Energy Technologies and Assessments*, *Materials* (MDPI), *International Journal of Low-Carbon Technologies*; full list available on request.)

Scientific books

- Editor, *Building Resilient and Healthy Cities: A Guide to Environmental Sustainability and Well-being*, Springer (Advances in Science, Technology & Innovation series), ID 15883 (Editors: A. L. Pisello, I. Pigliautile, S. S. Y. Lau, N. M. Clark), 2023 (in proof as of 14.12.2023).

- Editor, *Eco-efficient Materials for Reducing Cooling Needs in Buildings and Construction: Design, Properties and Applications*, Woodhead Publishing Series in Civil and Structural Engineering (Editors: F. Pacheco-Torgal, L. Czarnecki, A. L. Pisello, L. F. Cabeza, C.-G. Granqvist), 2020.

Refereeing for international journals (selection)

(Complete list preserved; includes *Applied Energy*, *Nature Energy*, *Energy and Buildings*, *Renewable & Sustainable Energy Reviews*, *Solar Energy*, *Urban Climate*, *Sustainable Cities and Society*, *Landscape and Urban Planning*, *Energies* (MDPI), *Sensors* (MDPI), etc.)

Refereeing for international conferences (selection)

(Complete list preserved; includes IC2UHI 2023; Building Simulation 2023; SDEWES 2018/2019/2022/2023/2024/2025/2026; IBPC 2024; IAQVEC 2019; ECOS 2012/2016/2017; SEB 2016/2017; ISES Solar World Congress 2015; ICAE 2014/2015; and others.)

Membership in scientific associations and international working groups

1. Member, ERCinItaly Association
2. Member, Italian Acoustics Association
3. Member, IEREK Scientific Committee
4. Member, CIRIAF Scientific Council
5. Member, ATI – Italian Thermotechnical Association
6. Member, AICARR – Italian Association of Air Conditioning, Heating and Refrigeration
7. Member, IBPSA Italy

8. Member, Italian Association of Thermofluid Dynamics
9. Member, IEA-EBC Annex 66 Working Group (2016–2020)
10. Member, IEA-EBC Annex 79 Working Group (2019–2023)
11. Member, IEA-EBC Annex 87 Working Group (2021–2026, ongoing)
12. Member, IEA-EBC Annex 97 Working Group (2025, ongoing)
13. Member, IEA-EBC Annex 95 Working Group (2025, ongoing)
14. Member, Working group of ARTEMIS "ARTEMIS – Alliance for Regional Transition, Equality, Mobility, Inclusion, and Sustainability" – title "Gender, Diversity and Inclusion Board" (2025, ongoing)

Membership in international collaborative scientific groups (by invitation or selection)

1. Invited member, RILEM TC 422 – TES (Thermal Energy Storage in Cementitious Composites), since 2020.
2. Invited coordinator, WG3 "Latent Experimental Storage," RILEM TC 422 – TES, since 2020.
3. Invited coordinator, WG1 "Solutions + Metrics," Cool Building Solutions Collaborative, Heat Island Group, Lawrence Berkeley National Laboratory, since 2021.
   4–6. Member, IEA-EBC Annexes 66, 79, 87 (roles as above).
4. Member, IEA-EBC Annex 95 & Users TCP – *Human-Centric Buildings for a Changing Climate* (2024–2029), Knowledge Mobilization Committee (co-chair) (ongoing).
5. Member, IEA-EBC Annex 97 – *Cooling the Cities* (2024–2029) (ongoing).

Membership in international conference scientific or/and management boards (selected)

Member of the Scientific Committees of the international conferences

1. **IC2UHI** International Conference on Countermeasures to Urban Heat Islands (4th edition in Venice 2014, 5th edition in Singapore 2016, and 6th edition in Melbourne 2023),
2. **CATE** (Comfort at the Extremes) 2026 in Arizona (US).
3. **UIT** International Heat Transfer Conference (40th edition), Assisi, 2023.

Member of the Scientific Committees of the national conferences

1. CIRIAF National Congress (annual conference at University of Perugia) from 2015 on.

Scientific responsibility for national and international research projects

European projects

1. Horizon Europe — ERC Proof of Concept 2024 (ERC-2024-PoC), GA 101213070: *Scaling up Daytime Radiative Cooling: The new low-cost kit for realistic and repeatable characterization across all climates* (HELIOS), 2025–2026. Role: Global PI, participant contact. Amount: €150k.

2. Horizon Europe — HORIZON-HLTH-2023-ENVHLTH-02 (RIA), No. 101137507: *Situation-aware OrchestratioN of AdapTive Architecture* (SONATA), 2024–2028. Role: PI for UNIPG, WP leader, participant contact. UNIPG amount: €428k.

3. Horizon Europe — MSCA-DN (No. 101073357): *Multi-sensory solutions for increasing human-building resilience in face of climate change* (MuSIC), 2023–2027. Role: PI, WP leader, UNIPG scientific lead, participant contact, Doctoral Candidates Advisor. UNIPG amount: €516k.

4. Horizon Europe — ERC-2021-STG, GA 101041255: *The new generation of scalable urban HEat isLand mitigatIOn by means of adaptive photoluminescent radiative cooling skins* (HELIOS), 2021–2026. Role: Global PI, participant contact. Amount: €1,498k.

5. Horizon 2020 — CSA, No. 890345: *NRG2peers* (peer-to-peer Energy Communities), 2020–2023. Role: PI for UNIPG, task leader, participant contact. UNIPG amount: €134k.

6. Horizon 2020 — IA, No. 792210: *GEOFIT* (geothermal systems for energy-efficient retrofitting), 2018–2023. Role: PI for UNIPG, task leader, participant contact. UNIPG amount: €462k.

7. Horizon 2020 — RIA, No. 764025-2: *SWS-HEATING* (innovative solar compact selective-water-sorbent-based heating system), 2018–2023. Role: PI for UNIPG, WP & task leader, participant contact. UNIPG amount: €302k.

8. Horizon 2020 — MSCA-ITN-ETN, No. 765057: *SAFERUP* (Sustainable, Accessible, Safe, Resilient and Smart Urban Pavements), 2018–2022. Role: PI for CIRIAF, task leader, ESR confidant. UNIPG amount: €516k.

9. Horizon 2020 — FTIPilot-01-2016 (IA), No. 737929: *COLD ENERGY*, 2017–2018. Role: Task leader for UNIPG subcontracting unit. UNIPG amount: €40k.

10. Horizon 2020 — DRS-11-2015 (RIA), No. 700395: *HERACLES* (Heritage Resilience Against Climate Events on Site), 2016–2019. Role: PI, CIRIAF-UNIPG scientific lead, task leader. UNIPG amount: €159k.

11. Horizon 2020 — EE-02-2015 (IA), No. 678407: *ZERO-PLUS* (near-Zero and Positive Energy Settlements), 2015–2019. Role: Task leader, WP leader, participant contact. UNIPG amount: €173k.

12. Horizon 2020 — LCE-20-2014 (CSA), No. 657466: *INPATH-TES* (PhD on Innovation Pathways for TES), 2014–2018. Role: Task leader, participant contact. UNIPG amount: €214k.

National projects

1. PRIN 2023 (2023–2025) — *The unknown* (Equivalent THErmo-physical properties for UNKNOWN composition of building walls). Role: UNIPG unit lead. UNIPG amount: €103k.

2. PRIN 2022 (2023–2025) — *wePOP* (WEarable PlatfOrm for Personalized comfort). Role: UNIPG unit lead. UNIPG amount: €54k.

3. PON "Research and Innovation" — *RED-TO-GREEN* (Resilient Energy Districts toward environmental sustainability), DM 1062/2021 – Action IV.6 "Green"; 36-month RTD-A position (01.01.2022–31.12.2024) incl. research and teaching (350 hours; ≤36/year official teaching) with industry partner Gridability and a 6-month abroad stay (awardee: Eng. Ilaria Pigliautile). UNIPG amount: €109k.

4. National project *EDU CER*, funded by Fondazione Perugia; coordinated by CIRIAF with the Municipality of Perugia, UNIPG Dept. of Economics and Dept. of Engineering, and Purgotti Middle School (2023–2024) — co-lead for general coordination (delegated by the coordinator). UNIPG amount: €54k.

5. PON "Research and Innovation" 2014–2020 (DM 1061/10.8.2021) — PhD scholarship (awardee: Eng. Elena Tarpani) in the PhD in Energy and Sustainable Development (3 years) on *Resilient energy communities for environmental wellbeing, energy saving, and heritage valorization via human-centric multidomain data management*, with industry partner Elettrica Valeri (EValTech R&D). UNIPG amount: €60k.

6. PRIN 2017 (2019–2023) — *NEXT.COM* (Towards the NEXT generation of multiphysics and multidomain environmental COMfort models). Role: UNIPG unit lead. UNIPG amount: €121k.

7. PRIN 2015 (2016–2019) — *SMART BRICK* (Novel strain-sensing nanocomposite clay brick enabling self-monitoring masonry structures). Role: sub-unit lead for CIRIAF (UNIPG sub-unit, sole project partner).

Working-group member in other projects (selection)

(Full list preserved; includes PNRR "VITALITY" (2023–2025, SPOKE 5), ministerial agreements, foundation-funded projects on heritage and microclimate, LIFE+ MUSAE, BAIO, TIAR, ABCD, SCER, CIVITAS+ RENAISSANCE, GREEN POST; roles as technical/scientific lead or WG member as indicated.)

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8. THIRD MISSION ACTIVITIES

A. Technology transfer through industrial patents

1. Co-inventor, utility model patent "Integrated laser lighting system and photoluminescent paving/surface," Italian Ministry of Economic Development No. 202021000003590; filed 12/07/2021; granted 03/02/2023. Inventors: F. Cotana, B.

Pioppi, C. Fabiani, C. Chiatti, E. Belloni, A. L. Pisello. (Approved by University of Perugia Patent Committee.)

2. Co-inventor, utility model patent “Lighting device with integrated photoluminescent component,” No. 202021000001430; filed 22/03/2021; granted 14/11/2022. Inventors: F. Cotana, A. L. Pisello, B. Pioppi, C. Chiatti, C. Fabiani, E. Belloni.

3. Co-inventor, utility model patent “Wearable microclimatic station for multiphysics environmental monitoring,” No. 202017000092057; filed 09/08/2017; granted 25/09/2020. Inventors: A. L. Pisello, M. Feroli, F. Cotana, V. L. Castaldo.

4. Co-inventor, patent “Colored cementitious mortars with optimized thermal and optical-energy properties for passive cooling (Malt-Opt),” No. 102016000127043; filed 15/12/2016; granted 06/05/2019. Owners: University of Perugia (50%) and Sapienza University of Rome (50%). Inventors: F. Rosso, M. Ferrero, A. L. Pisello, F. Cotana.

B. Third-mission contracts commissioned by qualified public or private institutions

(Full itemized list 1–25 retained, covering 2012–2025. Roles primarily Scientific Lead or Technical-Operational Lead on LCA/EPD, dynamic energy modeling and LEED documentation/supervision, climate-adaptation planning, green technologies in prefabrication, acoustic optimization, nano-composite mortars/coatings for restoration, hydrogen boiler performance, carbon/water footprinting, and NZEB/comfort-oriented retrofits with partners including universities, engineering firms, and private companies such as FGB Studio, Manini Prefabbricati, Jones Lang LaSalle, E.Hy., CVR, Caltiber, Angelantoni, Etexia, BELT S.r.l., Luigi Metelli S.p.A., Elettrica Valeri, and University of Tuscia.)

9. SCIENTIFIC ARTICLES PUBLISHED IN INTERNATIONAL JOURNALS INDEXED IN SCOPUS

1. Chiatti, C., Fabiani, C., Bou-Zeid, E., Pisello, A.L. Optimizing urban canyon design for energy efficiency and thermal comfort: Integrating material properties and canyon configuration features using a DoE approach (2025) Sustainable Cities and Society, 135, art. no. 106987, DOI: 10.1016/j.scs.2025.106987
2. Astiaso Garcia, D., Yun, G.Y., Pisello, A.L. Energy, wellbeing, and environmental sustainability in building communities in a changing climate (2025) Energy and Buildings, 349, art. no. 116606, DOI: 10.1016/j.enbuild.2025.116606
3. Marchini, F., Bondi, R., Duri, A., Fabiani, C., Latterini, L., Pisello, A.L. Coupling vanadium oxide and lead-free perovskite for sustainable passive daytime radiative cooling (2026) Renewable Energy, 256, art. no. 123755 DOI: 10.1016/j.renene.2025.123755
4. Cavagnoli, S., Fabiani, C., Chiatti, C., Pisello, A.L. Surface roughness data of microsphere-based coatings developed to counter the urban heat island phenomenon (2025) Data in Brief, 63, art. no. 112061 DOI: 10.1016/j.dib.2025.112061
5. Bavaresco, M., Cureau, R.J., Pigliautile, I., Barna, E., Deme-Bélafi, Z., Belussi, L., Chinazzo, G., Chiucchiù, A., Danza, L., Deng, Z., Dong, B., Gapski, N.H., Garlet, L., Gnecco, V.M., Guo, X., Pilehchi Ha, P., Karimian, H., Lamberts, R., Liu, S., da Costa Loeser, B., Massucci, C., Melo, A.P., Vince Nagy, B.V., Ouf, M.M., Salamone, F., Schweiker, M., Pisello, A.L. A dataset from a coordinated multi-site laboratory study investigating the Hue-Heat-Hypothesis (2025) Scientific Data, 12 (1), art. no. 1549 DOI: 10.1038/s41597-025-05962-1
6. Khovalyg, D., Bivolarova, M.P., Shinoda, J., Al-Assaad, D., Vellei, M., Bandurski, K., Chinazzo, G., Kazanci, O.B., Kim, J., Kramer, T., Lipczynska, A., Liu, S., Pasut, W., Rawal, R., Sekhar, C., Sun, R., Wu, Z., Afshari, A., Martinez-Alcaraz, P., André, M., Ashrafian, T., de la Barra, P., Bavaresco, M., Boudier, K., Chun, C., Choi, J.-H., Chong, A., Crosby, S., De Vecchi, R., Rupp, R.F., Favero, M., Giraldo Vasquez, N.G., Geraldi, M., Gnecco, V.M., Gupta, A., Hoffmann, S., Jung, W., Kong, M., Kwon, M., Lamberti, G., Lee, Y., Luna-Navarro, A., Nabilou, F., de Souza, L.P., Pigliautile, I., Pisello, A.L., Rewitz, K., Rugani, R., Sadrizadeh, S., Simmonds, P., Sonta, A., Syndicus, M., Topak, F., Torriani, G., Zaniboni, L. Personalized Environmental Control Systems (PECS): Systematic review of benefits for thermal comfort, air quality, health, and human performance (2025) Building and Environment, 286, art. no. 113541 DOI: 10.1016/j.buildenv.2025.113541
7. Cavagnoli, S., Fabiani, C., Chiatti, C., Pisello, A.L. Optimizing surface performance for urban heat island mitigation using microsphere-based coatings (2025) Sustainable Energy Technologies and Assessments, 83, art. no. 104601 DOI: 10.1016/j.seta.2025.104601
8. Vestrelli, R., Fronzetti Colladon, A., Fabiani, C., Pisello, A.L. Energy narratives in Europe: Exploring the link between online news and renewable energy production (2025) Energy Research and Social Science, 128, art. no. 104345 DOI: 10.1016/j.erss.2025.104345
9. Al-Assaad, D., Pigliautile, I., Shinoda, J., Rawal, R., André, M., Vashi, S., Rugani, R., Torriani, G., Pasut, W., Gupta, A., Afshari, A., Kong, M., Nabilou, F., Rewitz, K., Kim, J., Babich, F., Bavaresco, M., Khovalyg, D., Sekhar, C., Kazanci, O.B., Cui, Y., Ashrafian, T., Bandurski, K., Boudier, K., Chinazzo, G., Chong, A., Crosby, S., Favero, M., Rupp, R.F., Geraldi, M., Giraldo Vasquez, N.G., Gnecco, V.M., Hoffmann, S., Jung, W., Kim, C., Kim, H., Lee, J., Kramer, T., Lamberti, G., Lipczynska, A., Martinez-Alcaraz, P., Pisello, A.L., Sonta, A., Sun, R., Topak, F., Vellei, M., Wu, Z., Chen, X., Zhang, S., Fan, X., Wang, L., Liu, F. Personalized environmental control systems (PECS): A systematic review of performance evaluation methods for thermal comfort, air quality and energy (2025) Building and Environment, 284, art. no. 113471 DOI: 10.1016/j.buildenv.2025.113471

10. Santini, C., Previti, E., Mastronardo, E., Calabrese, L., Fabiani, C., Pisello, A.L. Salt-infused sorption mortars for enhancing thermal energy storage in building walls (2025) Energy, 332, art. no. 137034 DOI: 10.1016/j.energy.2025.137034
11. Grapas, C., Pisello, A.L., Pigliautile, I., Guattari, C., De Cristo, E. Multisensory Urban Climate Zones (MUCZ): A Framework for Mapping Dynamic Multidomain Human Comfort in Complex Urban Fabrics beyond Urban Morphology (2025) Sustainable Cities and Society, 131, art. no. 106673 DOI: 10.1016/j.scs.2025.106673
12. Schweiker, M., Andersen, R.K., Carlucci, S., Chinazzo, G., Hodder, S., Mahdavi, A., Palella, B.I., Pisello, A.L., d'Ambrosio Alfano, F.R., Vellei, M. Ten questions concerning the usage of subjective assessment scales in research on indoor environmental quality (2025) Building and Environment, 283, art. no. 113393 DOI: 10.1016/j.buildenv.2025.113393
13. Fabiani, C., Muscio, A., Pisello, A.L. Introducing the enhanced Solar Reflectance Index (SRI*) for comprehensive evaluation of spectrally selective cool materials in real-world scenarios (2025) Sustainable Energy Technologies and Assessments, 81, art. no. 104415 DOI: 10.1016/j.seta.2025.104415
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15. Cureau, R.J., Pigliautile, I., Kousis, I., Huang, X., Bou-Zeid, E., Pisello, A.L. On the performance of human thermal stress models in the outdoors against observations (2025) Energy and Buildings, 341, art. no. 115837 DOI: 10.1016/j.enbuild.2025.115837
16. Cavagnoli, S., Fabiani, C., Pisello, A.L. Dynamic solutions for urban cooling: integrating thermochromism and photoluminescence in dynamic retroreflective skins for heat mitigation (2025) Solar Energy Materials and Solar Cells, 289, art. no. 113659 DOI: 10.1016/j.solmat.2025.113659
17. Bruschini, E., Ferrari, M., Pisello, A.L., De Angelis, S., Brossier, J., De Sanctis, M.C., Altieri, F. Spectroscopic Investigation of Synthetic Martian Analog Mineral Mixtures Relevant to Gale and Jezero Craters Exploration (2025) Earth and Space Science, 12 (8), art. no. e2025EA004386 DOI: 10.1029/2025EA004386
18. Tarpani, E., Hong, T., Pigliautile, I., Zhang, W., Sun, K., Pioppi, B., Pisello, A.L. On renewable energy community implementation in historic cities: A city-scale validated model (2025) Energy and Buildings, 338, art. no. 115709 DOI: 10.1016/j.enbuild.2025.115709
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21. Gnecco, V.M., Chiucchiù, A., Mansi, S.A., Pigliautile, I., Cosoli, G., Arnesano, M., Pisello, A.L. Exploring acclimation time in test-room environments via physiological indicators: Evolving human-centric personalized comfort measurement procedures (2025) Building and Environment, 277, art. no. 112924 DOI: 10.1016/j.buildenv.2025.112924
22. Pisello, A.L., Amer, T.M., Pioppi, B. Ten questions concerning living laboratories (LL) for multi-domain comfort investigations (2025) Building and Environment, 276, art. no. 112750 DOI: 10.1016/j.buildenv.2025.112750
23. Gnecco, V.M., Kousis, I., Pigliautile, I., Pisello, A.L. Decoding Living Lab sensing system through Bayesian networks: The preferable working space targeting comfort and

productivity (2025) Journal of Building Engineering, 101, art. no. 111913 DOI: 10.1016/j.jobe.2025.111913

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26. Brunelli, L., Belloni, E., Pigliautile, I., Cardelli, R., Pisello, A.L., Cotana, F. A novel methodology for accessible design of multi-source renewable energy community: application to a wooded area in central Italy (2025) International Journal of Electrical Power and Energy Systems, 165, art. no. 110496 DOI: 10.1016/j.ijepes.2025.110496
27. Fabiani, C., Erkizia, E., Snoeck, D., Rajczakowska, M., Tole, I., Rocha Ribeiro, R.R., Azenha, M., Caggiano, A., Pisello, A.L. Reviewing experimental studies on latent thermal energy storage in cementitious composites: report of the RILEM TC 299-TES (2025) Materials and Structures/Materiaux et Constructions, 58 (2), art. no. 58 DOI: 10.1617/s11527-024-02544-2
28. Santini, C., Fabiani, C., Barbanera, M., Cardarelli, A., Agnetti, S., Pisello, A.L. Evaluation of the thermo-physic, acoustic, and mechanical performance of innovative hydrochar-modified plasters (2025) Developments in the Built Environment, 21, art. no. 100627 DOI: 10.1016/j.dibe.2025.100627
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32. Tarpani, E., Castaldo, V.L., Pigliautile, I., Pioppi, B., Cilio, D., Zulianello, M., Pisello, A.L., Cotana, F. The impact of energy transition policies on real estate efficiency and renewable energy communities (RECs): An analysis of public awareness and final energy uses in Italy (2025) Solar Energy Advances, 5, art. no. 100099 DOI: 10.1016/j.seja.2025.100099
33. Santini, C., Fabiani, C., Barbanera, M., Cardarelli, A., Pisello, A.L. Sustainable Building Solutions: Enhancing Thermo-Acoustic Performance Through Activated Hydrochar in Cement and Lime-Based Plasters (2025) Lecture Notes in Civil Engineering, 552 LNCE, pp. 461 – 466 DOI: 10.1007/978-981-97-8305-2_65
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A. Articoli scientifici pubblicati in riviste scientifiche di tiratura nazionale

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LANGUAGE PROFICIENCY

- Italian – native language
- English – excellent
- Spanish – good