

Alessandro Lenci

Curriculum Vitae

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Academic Employments

- Mar 2023 - **Assistant Professor** [Ricercatore a Tempo Determinato (a) (junior) 08/A1 ICAR/01 Idraulica], Present Department of Civil, Chemical, Environmental, and Materials Engineering, University of Bologna, Bologna, Italy.
- Nov 2021 - **Postdoctoral Researcher** [Assegno di Ricerca], Department of Civil, Chemical, Environmental, and Feb 2023 Materials Engineering, University of Bologna, Bologna, Italy. (Tot. months: 16)
- A.Y. **Adjunct Professor of Groundwater and Contamination Processes**, 3 ECTS - 34 hours, International MSc in Civil Engineering, Department of Civil, Chemical, Environmental, and Materials Engineering, University of Bologna, Bologna, Italy.
- A.Y. **Adjunct Professor of Hydraulics**, 2 ECTS - 30 hours, MSc in Building Engineering and Architecture, 2021/2022 Department of Architecture, University of Bologna, Bologna, Italy.
- Sep 2019 - **Teaching Assistant**, Department of Civil, Chemical, Environmental, and Materials Engineering, Present University of Bologna, Bologna, Italy. (Tot. hours: 160)
- Feb 2020 - **Teaching Assistant**, Department of Industrial Engineering, University of Bologna, Bologna, Italy.
- Sep 2022 Effective date: February 24, 2021. (Tot. hours: 60)
- Jul 2017 - **Research Fellow** [Assegno di Ricerca], Interdepartmental Centre for Industrial Research on Buildings and Construction, University of Bologna, Bologna, Italy.
- Jul 2018

Education

- Jul 2022 **26 CISM-IUTAM International Summer School on Convection and Deformation in Porous Media: Geophysical and Biological Flows**, 36 hours of lectures, 11-15/07/2022, Udine, Italy
- Nov 2018 - **PhD in Civil, Chemical, Environmental and Materials Engineering** (awarded with "excellent with honors"), University of Bologna, Bologna, Italy. Advisors: Prof. V. Di Federico, Prof. Y. Méheust and Prof. M. Putti. Dissertation: *Flow of Complex Fluids in Geological Fractures*. Defended on March 15, 2022.
- Oct 2021
- Jul 2021 **5th Summer School on Flow and Transport in Porous and Fractured Media**, 51 hours of lectures and practical classes, 20-31/07/2021, Cargèse, France
- Apr 2018 **HyLab Workshop: Introduction to Geostatistics**, held by Prof. J. Gomez Hernandez, 30 hours of lectures, 09-24/04/2018, University of Parma, Parma, Italy
- Oct 2016 **International MSc in Civil Engineering**, University of Bologna, Bologna, Italy. Thesis: *Multiphase flow in porous media: meta-modeling techniques for sensitivity analysis and risk assessment*. Defended on October 07, 2016.
- Jul 2014 **BSc in Civil Engineering**, Politecnico di Milano, Milan, Italy. Defended on July 24, 2014.

Other Academic Affiliations

Nov 2019 - **Member of TERA (Fluids, transport, and reactivity team)**, Géosciences Rennes, CNRS Université de Rennes 1, Rennes, France
Mar 2022

Visiting Positions

Sep 2021 - **Visiting Scholar** (1 month), Géosciences Rennes, CNRS Université de Rennes 1, Rennes, France
Oct 2021

Mar 2020 - **Visiting Scholar** (6 months), Géosciences Rennes, CNRS Université de Rennes 1, Rennes, France
Aug 2020

Participation to National and International Research Groups

- 2022 - Topic: **Flow and Transport in Sewage Systems**, Collaboration: partners of the EU-funded project "StopUP" (WP2).
- 2021 - Topic: **Scaling Flow and Heat Transfer in Fractured Media**, Collaboration: Data-Driven Modeling and Simulations, Department of Energy Science and Engineering, Leland Stanford Junior University, California. Coordination: Prof. D.M. Tartakovsky
- 2021 - Topic: **Anomalous Mass Transport in Geological Fractures**, Collaboration: Environmental Assessment and Water Research, IDAEA unit, CSIC Barcelona, Spain. Coordination: Prof. M. Dentz
- 2018 - Topic: **Complex Fluid Flow in Geological Fractures**, Collaboration: TERA unit, Géosciences Rennes, CNRS University of Rennes 1 - Rennes, France. Coordination: Prof. Y. Méheust
- 2018 - Topic: **Numerical Modeling of Flow and Transport in Heterogeneous Natural Media**, Collaboration: University of Padova, Padua, Italy. Coordination: Prof. M. Putti
- 2017 - Topic: **Gravity Currents in Porous Media and Free-Surface**, Collaboration: University of Parma - Parma, Italy. Coordination: Prof. S. Longo

Awards

- 2022 MSCA Staff Exchanges Secondment Grant, H2020-MSCA-RISE-2017 Project GHAlA "*Geometric and Harmonic Analysis with Interdisciplinary Applications*", GA n. 777822 [4k€]
- 2022 ALMARie Curie SUper Grant of the University of Bologna (scholarship for promoting the participation to Horizon Europe MSCA actions) [10k€]
- 2021 Water Resources Research (Wiley) Editorial Board's appreciation for reviewing three or more manuscripts. Acknowledged in: Destouni G., Bierkens M.F.P., Hall J., Islam S., Jha M.K., Kollet S., et al. (2022), Thank You to Our 2021 Reviewers, *Water Resour. Res.*, 58:e2022WR032547, doi:10.1029/2022WR032547.
- 2021 Physics of Fluids (AIP) Editors' Choice - Featured Article: Lenci et al. (2021) doi:10.1063/5.0062422
- 2021 Marco Polo Grant of the University of Bologna (mobility scholarship for research) [3,450€]
- 2021 Honorable Mention - Travel Award 2021 (Resources MDPI)
- 2020 Best Presentation Award - 23rd International Conference on Computational Methods in Water Resources (CMWR) 2020

Invited Talks

- May 2022 *Stochastic Analysis of the Flow in Rough-walled Fractures*, Stanford University, Stanford, California, USA, Invited by Prof. D. M. Tartakovsky
- May 2022 *Flow Localization in Heterogeneous Fractures*, University of Southern California, Los Angeles, California, USA, Invited by Prof. F.P.J. de Barros
- Oct 2021 *Flow of Complex Fluids in Geological Fractures*, Géosciences Rennes, CNRS Université de Rennes 1 - Rennes, France, Invited by Prof. Y. Méheust

Conference Presentations

- Apr 2023 *Forchheimer Gravity Currents in Porous Media*, International Conference: European Geosciences Union (EGU) General Assembly 2023, 23-28/04/2023, Vienna, Austria [Oral Presentation]

- Jan 2023 *Unraveling Effects of Heterogeneity on Global Flow Metrics in Geological Fractures*, International Conference: From the Heterogeneous Subsurface to Dynamic Catchments - A Symposium in Honor of Gedeon Dagan's 90'th Birthday, 10-12/01/2023, Tel Aviv, Israel [Oral Presentation]
- Jul 2021 *Non-Newtonian Flow in Rough Fractures: a Stochastic Approach*, 5th Summer School on Flow and Transport in Porous and Fractured Media, 20-31/07/2021, Cargèse, France [Oral Presentation]
- Jul 2021 *A Stochastic Analysis of the Non-Newtonian Hydraulic Behaviour of Rough Fractures*, 5th Summer School on Flow and Transport in Porous and Fractured Media, 20-31/07/2021, Cargèse, France [Poster Presentation]
- Apr 2021 *An Efficient Lubrication-Based Code for Solving Non-Newtonian Flow in Geological Rough Fractures*, Session: Modern Challenges and Approaches to Modeling Subsurface Flow and Transport Across Multiple Scales, International Conference: European Geosciences Union (EGU) General Assembly 2021, 19-30 April 2021, Vienna [Oral Presentation]
- May 2021 *A Stochastic Analysis of the Non-Newtonian Hydraulic Behaviour of Rough Fractures*, International Conference: Interpore 2021, Session (MS 21) Non-linear Effects in Flow and Transport through Porous Media, Online, 31/05-04/06/2021 [Poster Presentation]
- Dec 2021 *Modeling Complex Fluid Flow in Rough-Fractures: a Lubrication-Based Approach*, International Conference: American Geophysical Union Fall Meeting 2021, Session (H35R) Non-linearity in Subsurface Flow and Transport: Modeling, Experiments, and Applications, New Orleans, 13-17/12/2021 [Poster Presentation]
- Dec 2020 *Monte Carlo Approach to Assessing the Influence of Aperture Variability on Non-Newtonian Fracture Flow*, Session: Data Centric Simulation and Modeling, 23th International Conference on Computational Methods in Water Resources (CMWR) 2020, 14-17 December 2020, Online [Oral Presentation]

Institutional Responsibilities

- Dec 2022 - Present **Member of the internationalization committee**, International MSc in Civil Engineering, Department of Civil, Chemical, Environmental, and Materials Engineering, University of Bologna, Bologna

Editorial and Refereeing Activities

- Jun 2022 - Present **Review editor:** Editorial Board of *Frontiers in Water* (Frontiers Media S.A.), section: Water and Hydrocomplexity

Referee: *Advances in Water Resources* (Elsevier) [13, 5.36], *Water Resources Research* (Wiley) [12, 6.16], *Computational Geosciences* (Springer) [2, 2.95], *Stochastic Environmental Research and Risk Assessment* (Springer Nature) [3,3.82], *Transport in Porous Media* (Springer) [2, 3.61], *Journal of Hydrology* (Elsevier) [2, 6.71], *International Communications in Heat and Mass Transfer* (Elsevier) [1, 6.78], *Engineering Geology* (Elsevier) [1, 6.90], *Scientific Reports* (Springer Nature) [1, 4.99]

[*Number of Reviews Completed, Journal Impact Factor*]

Membership in Professional Societies

- European Geosciences Union (EGU)
- American Geophysical Union (AGU)
- Italian Group of Hydraulics (GII)

Participation to National and European project

- 2022 - 2025 StopUP *Protecting the aquatic environment from urban runoff pollution*, 36 months, 01/09/2022-31/08/2025, funded by EU Horizon Programme, GA n.101060428 [role: Postdoctoral Research]
- 2018 - 2020 MONSAE *Non-linear models for the interpretation of flow and transport phenomena in the subsoil environment: contamination and reclamation of aquifer, geothermal reservoirs, fracking, hydrocarbon reservoir engineering.*, Alma Idea Grant 2017, University of Bologna, Italy [role: Research Unit Member]
- 2016 - 2020 BRIGAIID *Bridging the gap for Innovations in Disaster Resilience*, 48 months, 01/05/2016-30/04/2020, funded by EU H2020 Programme, GA n.700699 [role: Research Unit Member]
- 2016 - 2018 GST4WATER *Green-Smart Technology for the sustainable use of Water in buildings and urban areas*, 24 months, 01/04/2016-31/03/2018, POR-FESR 2014-2020, Emilia-Romagna, Italy [role: Research Fellow]

Teaching activities

- A.Y. **Assistant Professor** - University of Bologna, Bologna, Italy
2022/2023
- Environmental Hydraulics (1.5 ECTS - 12 hours), M.Sc. in Civil Engineering
 - Advanced Hydrosystem Engineering - module 4 (1.5 ECTS - 12 hours), International M.Sc. in Civil Engineering
- Adjunct Professor** - University of Bologna, Bologna, Italy
- Groundwater and Contamination Processes (3 ECTS - 34 hours), International M.Sc. in Civil Engineering
- Teaching Assistant** - University of Bologna, Bologna, Italy
- Hydraulics (30 hours), BSc in Civil Engineering
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- A.Y. **Adjunct Professor** - University of Bologna, Bologna, Italy
2021/2022
- Hydraulics (2 ECTS - 30 hours), M.Sc. in Architecture and Building Engineering
- Teaching Assistant** - University of Bologna, Bologna, Italy
- Fluid Mechanics (30 hours), BSc in Mechanical Engineering
 - Hydraulics (30 hours), BSc in Civil Engineering
 - Groundwater and Contamination Processes (20 hours), International MSc in Civil Engineering
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- A.Y. **Teaching Assistant** - University of Bologna, Bologna, Italy
2020/2021
- Fluid Mechanics (30 hours), B.Sc. in Mechanical Engineering
 - Advanced Hydrosystems Engineering (30 hours), International MSc in Civil Engineering
 - Hydraulics (20 hours), BSc in Civil Engineering
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- A.Y. **Teaching Assistant** - University of Bologna, Italy
2019/2020
- Hydraulics (30 hours), BSc in Civil Engineering

Supervising and Mentoring Activities

- Since 2022 **Supervisor of PhD students:** Dr. Sepideh Majdabadi Farhani, PhD in Civil, Chemical, Environmental, and Material Engineering, Department of Civil, Chemical, Environmental, and Materials Engineering (2022-2025), University of Bologna, Bologna, Italy.
- Since 2018 **Co-supervisor of 3 MSc and 8 BSc students** at the University of Bologna, on the following topics:
1. *"Flow of shear-Thinning Fluids in Geological Media"*, MSc in Environmental Engineering, 2022
 2. *"Sviluppo di Strumenti di Analisi di Rischio e di Gestione della Qualità delle Acque Destinate al Consumo Umano"*, MSc in Civil Engineering, 2021
 3. *"Water Safety Plan and Fault Tree Analysis for the Management and Risk Assessment of a Drinking Water Supply System"*, International MSc in Civil Engineering, 2021
 4. *"Flusso Non-Linear alla Forchheimer in Mezzi Porosi: Analisi di Dati Sperimentali"*, BSc in Civil Engineering, 2021
 5. *"Confronto tra Modelli Reologici di Fluidi Pseudoplastici per Applicazioni di Flusso in Fratture Geologiche"*, BSc in Civil Engineering, 2020
 6. *"Influenza della Variabilità dell'Apertura di una Frattura sul Flusso di Fluidi a Reologia Complessa"*, BSc in Civil Engineering, 2020
 7. *"Intrusione Salina negli Acquiferi Costieri: Modellazione e Impatto Ambientale"*, BSc in Civil Engineering, 2020
 8. *"Fault Tree Analysis per l'Analisi di Rischio Associata ai Corpi Idrici Sotterranei"*, BSc in Civil Engineering, 2019
 9. *"Studio Probabilistico delle Zone di Cattura dei Pozzi per il Trattamento delle Acque Sotterranee"*, BSc in Civil Engineering, 2019
 10. *"Wireless Underground Communication Networks (WUCNs) per la Stima Indiretta dell'Umidità del Suolo Tramite Trasmissione di Onde Radio"*, BSc in Civil Engineering, 2018
 11. *"Analisi del Moto dell'Acqua in Zona Vadosa e Tecniche di Stima del Contenuto Idrico del Suolo"*, BSc in Civil Engineering, 2018

Events Organization

- May 2019 **Member of the organizing committee**, AlmaIdea Project Workshop on *"Complexity in Geologic Media Flow"*, Sala Ulisse, Accademia delle Scienze dell'Istituto di Bologna, Via Zamboni 21, Bologna, Italy, 22/05/2019

Professional Experiences

2018 **Research to support the activities of the IDESIO startup**, H2020 project Brigaid, ref. Prof. V. Di Federico

Jun 2019 - **Member of the examination committee:** Italian State Exam for Civil and Environmental Engineers, Present University of Bologna, Bologna, Italy

Scientific Production

Dr. Lenci's scientific production presents the following records in citation databases (updated July 13, 2023):

Scopus: *h*-index 5, 13 documents, 77 citations

Web of Science: *h*-index 5, 13 documents, 64 citations

Google Scholar: *h*-index 6, 20 documents, 98 citations

Articles in Refereed Journals

1. Lenci A., Zeighami F., Di Federico V. (2022). Effective Forchheimer Coefficient for Layered Porous Media. *Transp. Porous Med.*, 144:459-480, DOI:10.1007/s11242-022-01815-2.
2. Lenci A., Méheust Y., Putti M., Di Federico V. (2022). Monte Carlo Simulations of Shear-thinning Flow in Geological Fractures. *Water Resour. Res.*, 58:e2022WR032024, DOI:10.1029/2022WR032024.
3. Lenci A., Putti M., Di Federico V., Méheust Y. (2022). A Lubrication-Based Solver for Shear-Thinning Flow in Rough Fractures. *Water Resour. Res.*, 58:e2021WR031760, DOI:10.1029/2021WR031760.
4. Zeighami F., Lenci A., Di Federico V. (2022). Drainage of Power-Law Fluids from Fractured or Porous Finite Domains. *J. Non-Newton. Fluid Mech.*, 305:104832, DOI:10.1016/j.jnnfm.2022.104832.
5. Lenci A., Chiapponi L., Longo S., Di Federico V. (2021). Experimental Investigation on Backflow of Power-law Fluids in Planar Fractures. *Phys. Fluids*, 33:083111, DOI:10.1063/5.0062422.
6. Ciriello V., Lenci A., Longo S., Di Federico V. (2021). Relaxation-Induced Flow in a Smooth Fracture for Ellis Rheology. *Adv. Water Resour.*, 152:103914, DOI:10.1016/j.advwatres.2021.103914.
7. Longo S., Chiapponi L., Petrolo D., Lenci A., Di Federico V. (2021). Converging Gravity Currents of Power-Law Fluids. *J. Fluid Mech.*, 918:A5, DOI:10.1017/jfm.2021.305.
8. Lenci A., Di Federico V. (2020). A Channel Model for Bi-viscous fluid in Fractures. *Transp. Porous Med.*, 134:97-116, DOI:10.1007/s11242-020-01438-5.
9. Lenci A., Chiapponi L. (2020). An Experimental Setup to Investigate Non-Newtonian Fluid Flow in Variable Aperture Channels. *Water*, 12(5):1284, DOI: 10.3390/W12051284.
10. Lenci A., Longo S., Di Federico V. (2020). Shear-Thinning Fluid Flow in Variable-Aperture Channels, *Water*, 12(4):1152, DOI:10.3390/W12041152.
11. Chiapponi L., Petrolo D., Lenci A., Di Federico V., Longo S. (2020). Dispersion induced by non-Newtonian gravity flow in a layered fracture or formation, *J. Fluid Mech.*, 903:A14, DOI:10.1017/jfm.2020.624.
12. Zanni S., Cipolla S.S., Di Fusco E., Lenci A., Altobelli M., Currado A., Maglionico M., Bonoli A. (2019). Modeling for Sustainability: Life Cycle Assessment Application to Evaluate Environmental Performance of Water Recycling Solutions at the Dwelling Level, *Sustain. Prod. Consump.*, 17:47-61, DOI:10.1016/j.spc.2018.09.002.
13. Felisa G., Lenci A., Lauriola I., Longo S., Di Federico V. (2018). Flow of Truncated Power-Law Fluid in Fracture Channels of Variable Aperture, *Adv. Water Resour.*, 122:317-327, DOI:10.1016/j.advwatres.2018.10.024.

Conference Proceedings

1. Lenci A., Putti M., Di Federico V., Méheust Y. (2022). A Lubrication-Based Solver for Shear-thinning Flow in Rough Fractures. In: Proceedings of French Mechanics Congress 2022, Nantes, France, 29/08-02/09/2022.
2. Lenci A., Ciriello V., Méheust Y., Di Federico V., Dentz M. (2022). Anomalous Dispersion in Geological Fractures under Shear-thinning Flow. In: Proceedings of 24th Computational Methods in Water Resources 2022, Gdańsk, Poland, 19-23/07/2022.
3. Zeighami F., Lenci A., Longo S., Di Federico V. (2022). Backflow Dynamics in an Elastic Fracture with Slip Walls. *Environ. Sci. Proc.*, 21(1):45. In: Proceedings of 5th Efficient Water System International Conference (EWaS), Naples, Italy, 12-15/07/2022.
4. Zeighami F., Lenci A., Di Federico V. (2022). Prediction of Effective Forchheimer Coefficient for One- and Two-Dimensional Flows in Heterogeneous Geologic Media. In: Proceedings of 39th International Association for Hydro-Environmental Engineering and Research World Congress, Granada, Spain, 19-24/06/2022.
5. Zeighami F., Lenci A., Di Federico V. (2022). Drainage of Gravity Currents from an Edge and a Permeable Substrate in a Porous Medium or Fracture with Variable Properties. In: Proceedings of 39th International Association for Hydro-Environmental Engineering and Research World Congress, Granada, Spain, 19-24/06/2022.
6. Lenci A., Méheust Y., Putti M., Di Federico V. (2021). Modeling Complex Fluid Flow in Rough-Fractures: A Lubrication-based Approach. In: Proceedings of American Geophysical Union Fall Meeting 2021, New Orleans,

USA, 13-17/12/2021.

7. Di Federico V., Lenci A., Ciriello V., Chiapponi L., Longo S. (2021). Backflow of Non-Newtonian Fluids in Smooth Fractures: Theoretical and Experimental Investigations. In: Proceedings of American Geophysical Union Fall Meeting 2021, New Orleans, USA, 13-17/12/2021.
8. Longo S., Chiapponi L., Petrolo D., Lenci A., Di Federico V. (2021). Converging Gravity Currents of Power-Law Fluid. In: Proceedings of Italian Society of Applied and Industrial Mathematics 2021, Parma, Italy, 30/08-03/09/2021.
9. Lenci A., Méheust Y., Putti M., Di Federico V. (2021). A Stochastic Analysis of the Non-Newtonian Hydraulic Behaviour of Rough Fractures. In: Proceedings of Interpore 2021, Online, 31/05-04/06/2021.
10. Ciriello V., Lenci A., Zeighami F., Di Federico V. (2021). Bounds for Effective Forchheimer Coefficient in Randomly Heterogeneous Porous Media. In: Proceedings of Interpore 2021, Online, 31/05-04/06/2021.
11. Di Federico V., Lenci A., Ciriello V. (2021). Drainage of Viscous Gravity Currents from the Edge of a Porous or Fractured Domain with Variable Properties. In: Proceedings of European Geosciences Union General Assembly 2021, Online, 19/04-30/04/2021.
12. Ciriello V., Lenci A., Longo S., Di Federico V. (2021). Relaxation-induced Flow of an Ellis Fluid in a Smooth Fracture. In: Proceedings of European Geosciences Union General Assembly 2021, Online, 19/04-30/04/2021.
13. Lenci A., Méheust Y., Putti M., Di Federico V. (2021). An Efficient Lubrication-based Code for Solving Non-Newtonian Flow in Geological Rough Fractures. In: Proceedings of European Geosciences Union General Assembly 2021, Online, 19/04-30/04/2021.
14. Lenci A., Ciriello V., Chiapponi L., Longo S., Di Federico V. (2020). Models for Non-Newtonian Flowback in an Elastic Fracture. In: Proceedings of 23rd Computational Methods in Water Resources, Stanford (online), USA, 14-17/12/2020
15. Lenci A., Ciriello V., Chiapponi L., Longo S., Di Federico V. (2020). Relaxation-induced Flow in a Rock Fracture: the Effect of Ellis Fluid Rheology. In: Proceedings of 23rd al Methods in Water Resources, Stanford (online), USA, 14-17/12/2020.
16. Lenci A., Méheust Y., Di Federico V. (2020). Monte Carlo Approach to Assessing the Influence of Aperture Variability on Non-Newtonian Fracture Flow. In: Proceedings of 23rd Computational Methods in Water Resources, Stanford (online), USA, 14-17/12/2020
17. Lenci A., Roques C., Méheust Y., Di Federico V. (2020). Non-Newtonian Fluid Flow in Geological Rough Fractures: Lubrication Approximation Versus Direct 3D Simulations. In: Proceedings of 23rd Computational Methods in Water Resources, Stanford (online), USA, 14-17/12/2020.
18. Lenci A., Di Federico V. (2020). Shear-thinning Fluid Flow in Variable Aperture Channels. *Proceedings*, 48(1):28, DOI:10.3390/ECWS-4-06426. In: Proceedings of 4th International Electronic Conference on Water Sciences (ECWS), online, 13-29/11/2019.
19. Ciriello V., Di Fusco E., Lenci A., Lauriola I., Verdone R., Di Federico V. (2018). Influence of Soil Texture on the Estimation of Soil Moisture through Radio Waves Transmission. In: Proceedings of 37th National Conference on Hydraulics and Hydraulic Constructions, Ancona, Italy, 12-14/09/2018.
20. Di Fusco E., Lenci A., Liserra T., Ciriello V., Di Federico V. (2018). Sustainability Assessment of Urban Water Use from Building to Urban Scale in the GST4Water Project. *Proceedings*, 2(11):671, DOI:10.3390/proceedings2110671. In: Proceedings of 3rd EWaS International conference of "Insights on the Water-Energy-Food Nexus", Lefkada Island, Greece, 27-30/06/2018.

Bologna, July 13, 2023

Dr. Alessandro Lenci

Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali" e del GDPR (Regolamento UE 2016/679)