

Lyesse Laloui

Swiss citizen, Place of origin: Ecublens VD, Switzerland
born on 29.07.1963, married, two children

CHAIR FULL PROFESSOR, Swiss Federal Institute of Technology, EPFL

DIRECTOR of the Laboratory of Soil Mechanics,
CO₂ Sequestration and Geo-Engineering, EPFL

MEMBER, Swiss Academy of Engineering Sciences

MEMBER, Academia Europaea - The Academy of Europe

HONORARY EDITOR IN CHIEF, *Geomechanics for Energy and the Environment*

VICE PRESIDENT EUROPE, International Society of Soil
Mechanics and Geotechnical Engineering

DIRECTOR EUROPE, International Associated Research Centers
for the Urban Underground Space



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PROFESSIONAL PROFILE

Lyesse Laloui is a professor of civil and environmental engineering at the Swiss Federal Institute of Technology at Lausanne (EPFL) where he directs the Laboratory for Soil Mechanics.

He is a world-renowned expert in geomechanics and geo-energy. **Inspired by the intricate systems of the natural world**, his groundbreaking research into the physical mechanisms of geomaterials has unlocked innovative technologies crucial for addressing **climate change, resource optimization, and the widespread adoption of renewable energy**.

His impact is underscored by prestigious awards, including an **Advanced ERC Grant** (2018), an **ERC Proof of Concept Grant** (2020), and an **EiC Transition Grant** (2023). Prof. Laloui's **international recognition is further solidified by two honoris causae** (Heriot-Watt University, Technical University of Cluj-Napoca) in recognition of his sustainability leadership.

Prof. Laloui holds influential positions within the **Swiss Academy of Engineering Sciences, Academia Europaea**, and the **Swiss Society of Engineers and Architects** and serves as European Vice President for the **International Society of Soil Mechanics and Geotechnical Engineering**. As Director for Europe of the **International Associated Research Centers for the Urban Underground Space**, he advances global efforts in sustainable urban development.

As founder and Honorary Editor-in-Chief of *Geomechanics for Energy and the Environment*, Prof. Laloui shapes the field's discourse. His vast publication record (13+ books, 400+ papers, 20,000 citations, h-index 70+) includes internationally celebrated works. He is a sought-after keynote speaker (>50 conferences) and the recipient of numerous awards, including the Interpore Kimberly-Clark Distinguished Lectureship Award (2026), ASCE Kersten Lecture (2020), Vienna Terzaghi Lecture (2022), the DFI John Mitchell Lecture (2025) and more.

Prof. Laloui's commitment to innovation extends beyond academia, holding several patents and founding five EPFL startup, with Enerdrape ranked within the Swiss Top 100 (2023, 2024). This underscores his ability to translate cutting-edge science into impactful technologies, often drawing inspiration from nature's own solutions.

MAIN PROFESSIONAL POSITIONS

Professor

Swiss Federal Institute of Technology, EPFL | 2006 – current

Director

Laboratory for Soil Mechanics, Geo-engineering and CO2 Storage | 2008 – current
Swiss Federal Institute of Technology, EPFL
Establishing it as a world-class teaching and research unit.

Member

Swiss Academy of Engineering Sciences | 2021 – current

Member

Academia Europaea - The Academy of Europe | 2024 - current

Director for Europe

International Associated Research Centers for the Urban Underground Space (ACUUS) | 2023 – current

Vice President for Europe

International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE) | 2022 – current
27,000 members in the world, 9000 members in Europe.

Founder and Honorary Editor-In-Chief

Geomechanics for Energy and the Environment – Elsevier | 2014 – current
Impact Factor: **5.1**, CiteScore: **5.8** (2023)

Director

Civil Engineering Section, Swiss Federal Institute of Technology, EPFL | 2012 – 2022
The department was ranked in the Top 10 of the QS ranking for all this period.
About 600 students and 120 faculty members.

Member of the Board of Directors

School of Architecture, Civil and Environmental Engineering (ENAC), Swiss Federal Institute of Technology, EPFL | 2013 – 2022

Honorary Director

International Joint Research Center for Energy Geotechnics, Nanjing, China | 2018 – 2020

Director

Doctoral Program in Mechanics, Swiss Federal Institute of Technology, EPFL | 2008 – 2012

President

EPFL General Assembly - Senate | 1991 – 2001

EPFL body representative

ETH-Rat Board - Domain's strategic management and supervisory body for ETH Zürich and EPFL | 1991 – 2001

Research Fellow

Swiss Federal Institute of Technology, EPFL | 1994 – 2006

Research Fellow

Ecole Centrale Paris | 1993 – 1994

EDUCATION

Administrator of companies | 2021

Swiss Board School (Uni. of St. Gallen, Lausanne, Geneva, and Swiss Board Institute)

Ph.D. with honours: "Summa cum laude" | 1993

Ecole Centrale Paris, France

Advanced Master in Soil and Structural Mechanics, | 1989

Ecole Centrale Paris, France

Master in Civil Engineering

Ecole Nationale des Travaux Publics, Algiers | 1987

ADJUNCT POSITIONS

Adjunct Professor

School of Civil and Environmental Engineering, Duke University, USA | 2007 – 2024

Advisory Professor

Hohai University, Nanjing, China | 2016 – 2019

Distinguished Adjunct Professor

King Abdulaziz University (KAU), Jeddah, Saudi Arabia | 2013 – 2014

ACADEMIC HONOURS

InterPore Kimberly-Clark Distinguished Lecturer on Porous Media Science & Technology, 2026

This is a highly prestigious recognition with a very high international recognition within the field of porous media science and technology. This award honors individuals who have made significant contributions to the science and engineering of porous media and related applications.

DFI John Mitchell Lecture, 2025

"Revolutionizing Foundations: Advances in Thermo-Active Piling Engineering". The DFI John Mitchell Lecture, awarded by the Deep Foundations Institute (DFI), is one of the most prestigious honors in the field of geotechnical engineering and deep foundations. It recognizes individuals who have made significant, long-term contributions to the practice, research, or education in the industry.

Prague Geotechnical Lecture, 2025

"Advances in numerical design and analysis of underground nuclear waste repositories". Honorary lecture award - Czech Academy of Sciences.

XXIX Károly Széchy Memorial Lecture, 2024

"A New Era for Geotechnical Engineering Practice" honorary lecture award - Hungarian Academy of Sciences, The Hungarian Geotechnical Association, and the Geotechnical Section of the Hungarian Chamber of Engineers.

Doctorate Honoris Causa

In recognition of the contribution to geotechnical engineering solutions for a sustainable world. Technical University of Cluj-Napoca (UTCN), Romania, 2022.

Doctorate Honoris Causa

For outstanding achievements in geotechnical engineering and developing innovative technologies supporting a sustainable future, Heriott-Watt University (U.K.), 2022.

Vienna Terzaghi Lecture

"Tailor-made soil properties by bio-geochemical means," Austrian Geotechnical Conference, 2022.

2022 Eshbach Lecture

"Tailor-made soil properties by bio-geochemical means," Northwestern University, Chicago, USA, 2022.

Proof of Concept Grant (PoC-ERC)

European Research Council (ERC) for the project CEBREWA (Construction & Environmental Biocementation in Real World Applications), 2020.

2020 Kersten Lecture

"Energy Geotechnology: A New Era for Geotechnical Engineering Practice," Geo-congress 2020 Minneapolis, USA, 2020

Advanced ERC Grant

European Research Council (grant 2.5 million Euros) for the project BIOGEOS (Biomediated Geomaterial Strengthening), 2018.

30th Roberval Award

For the book "Mécanique des sols et Roches" (ISBN 978-2-88074-961-3), co-authored with L. Vulliet and J. Zhao. Award received at the French Academy of Science, 2018. Former Nobel prize winners such as G. Charpak et P-G. de Gennes are among the recipients.

2016 RM Quigley Award

For the best paper published in the Canadian Geotechnical Journal in 2015.

12th G.A. Leonards Lecture

"Advances in the Analysis of Thermo-Active Foundations," University of Purdue, USA, 2014

Honorary Editor and Chairman

Géotechnique Symposium in Print 2013 – Institute of Civil Engineering, London, U.K., 2013

2012 Vardoulakis Lecture

For significant contributions to the field of geomechanics, University of Minnesota, USA, 2012.

Excellent Contributions Award

International Association for Computer Methods and Advances in Geomechanics for significant contributions in research, academic activities, and professional service in the interdisciplinary area of Geomechanics, 2008.

SCIENTIFIC AND EXPERT COMMITTEES

Chair:

Chairman of the Advisory Committee of the XVIII European Conference on Soil Mechanics and Geotechnical Engineering, Portugal, 2024.

Chair of the Evaluation Panel of Civil and Geological Engineering R&D Units of Portugal, 2018.
Portuguese Science and Technology Foundation (FCT).

Executive Committee representative:

Government of Switzerland in the International Energy Agency Greenhouse R&D Technology Collaboration Program (2016-2021).

Vice-Chair:

TC101 "Laboratory Stress Strain Strength - Testing of Geomaterials" of the International Society for Soil Mechanics and Geotechnical Engineering (2013-2017).

Vice-director:

ALERT-Geomaterials network (Alliance of Laboratories in Europe for Research and Technology - Leading European network in Geomechanics formed by 27 universities) (2005-2011).

Member:

Executive Committee of the Swiss Competence Center for Energy Research – Supply of Electricity (SCCER-SoE) – Leader of Work Package Geo-Energies (2017- 2021).

Scientific Council of CISM, the International Centre for Mechanical Sciences, Udine (Italy) (2017- 2018).

EU-ERC Consolidator Grants panel dealing with Products and Processes Engineering - The Consolidator Grant provides significant support to the most promising researchers of the next generation who are consolidating their research careers, usually 7 – 12 years beyond the doctorate (2014-2015).

Scientific Committee of the INERIS (French National Institute of Industrial Environment and Risks). Evaluation of research groups and research projects (2002-2008).

Evaluation Committee of the research activities of the French Environment and Energy Management Agency (ADEME) (2008).

International Experts Group in charge of building a Thermo-Hydro-Mechanical Capability at NAGRA (Swiss national co-operative for the disposal of radioactive waste) (2002, 2006, 2019).

Search committees for professor positions at various Universities, including EPFL, ETH Zurich, University of Grenoble, University of Montpellier, etc.

Keynote Lectures

Prof. Laloui has given over 60 keynote and invitational lectures in over 30 countries. This includes:

2025

- "Revolutionizing Foundations: Advances in Thermo-Active Piling Engineering". **John Mitchell Lecture - DFI-EFFC International Conference on Deep Foundations and Ground Improvement – Geotechnics Reimagined**, Bruges, Belgium.
- "Advances in numerical design and analysis of underground nuclear waste repositories". **Prague Geotechnical Honorary Lecture**, Prague, Czech Republic.
- "Revolutionizing Foundations: Advances in Thermo-Active Piling Engineering". **Opening presentation**, British Geotechnical Association annual meeting, London, England.
- "Revolutionizing Foundations: Advances in Thermo-Active Piling Engineering". **Celebration of the 75th Anniversary of the Brazilian Association for Soil Mechanics and Geotechnical Engineering**, Sao Paolo, Brazil.

- “Bio-cementation: Advancing Sustainable Soils Stabilization in Geotechnics”. **Celebration of the 70th Anniversary of the Swiss Geotechnical Society**, Bern, Switzerland.
- “Revolutionizing Foundations: Advances in Thermo-Active Piling Engineering”. **2th International Geotechnical Innovation Conference (IGIC 2025)**, Jeddah, Saudi Arabia.
- “Revolutionizing Foundations: Advances in Thermo-Active Piling Engineering”. **1st Geotech Asia Conference**, Goa, India.

2024

- “Bio-cementation: A game-changing innovation shaping the future of geotechnics”. **International Geotechnical Innovation Conference**, Dubai, UAE.
- “Smart exploitation of the renewable energy situated under our cities”, **19th Nordic Geotechnical Meeting**, Göteborg, Sweden.
- “Tailor-made Soil Properties by Bio-Geo-Chemical Means”, **ALIVE Symposium 2024**, Zurich, Switzerland.
- “Bio-cementation: Transforming Scientific Discoveries into Market Solutions,” **18th European Conference on Soil Mechanics and Geotechnical Engineering**, Lisbon, Portugal.
- “Bio-cementation: Transforming Scientific Discoveries into Market Solutions,” **5th International Conference of Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering**, Warsaw, Poland.
- “Exploiting the Renewable Energy Resources of our cities’ underground,” **11th International Symposium on Geotechnical Aspects of Underground Construction in Soft Ground**, Macao, SAR.
- “Unlocking Renewable Energy in the Urban Subsurface” **7th International conference Series on Geotechnics, Civil Engineering and Structures**, Hochi Minh City, Vietnam.
- “Soil Reinforcement based on Bio-Geo-Chemical Processes,” **28th European Young Geotechnical Engineers Conference EYGEC2024**, Macedonia.

2023

- “Numerical analysis of multiphysical processes in the vicinity of nuclear waste repository” **9th Geotechnical Symposium** Istanbul, Türkiye.
- “Energy geo-technology: a new era for geotechnical engineering practice” **17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering 2023**, Astana, Kazakhstan.
- **Distinguished lecture**, “Smart exploitation of the renewable energy situated under our cities,” Hong Kong University.
- “Carbon Dioxide Injection into Deep Aquifers: A Geomechanical Perspective,” **9th International Congress on Environmental Geotechnics (9ICEG)**, Creta, Greece.
- “Exploiting the renewable energy resources of our cities’ underground” **European Conference on Geotechnical Engineering (17DECG)**, Bucharest, Romania.
- “Smart exploitation of the renewable energy situated under our cities” **International Conference on Advances in Structural and Geotechnical Engineering (ICASGE’23)**, Hurgada, Egypt.

2022

- “Innovation for a Sustainable Geotechnical Engineering Industry” **The Big 5, International Building and Construction Show**, Dubai.
- “Sustainable (geo-)energies: Global progress and existing challenges,” **Northwestern Sustainability Lecture Series**, Chicago, USA..
- “Tailor-made soil properties by bio-geochemical means”, **16th International Conference of the International Association for Computer Methods and Advances in Geomechanics**, Turin, Italy.
- “Energy from Geotechnical Constructions: Analysis and Design” **XXVII Italian National Congress on Geotechnical Engineering for a Sustainable Development**, Reggio Calabria, Italy.
- “Tailor-made soil properties by bio-geochemical means,” **Terzaghi Lecture, Austrian Geotechnical Conference**, Vienna, Austria.
- “Field Monitoring and Simulations of Nuclear Waste Barrier Systems” **2nd International Conference on Energy Geotechnics**, San Diego, USA.

2021

- “Fundamentals of Soils Desiccation,”**GE@2M** (Grand Est, Mécanique et Matériaux), Online.

2020

- “Energy Geotechnology: A New Era for Geotechnical Engineering Society,” **Geo-congress 2020** Minneapolis, Minnesota, USA.
- “Bentonite clay barriers in nuclear waste repositories” **4th European Conference on Unsaturated Soils**, Lisbon, Portugal.

2019

- State-of-the-art lecture “Geothermal structures: from laboratory testing to engineering design,” **7th International Symposium on Deformation Characteristics of Geomaterials**, Glasgow, UK.
- “Energy Geotechnology: A New Era for Geotechnical Engineering Society” **XVII European Conference on Soil Mechanics and Geotechnical Engineering**, “Reykjavik, Island.
- “Tailor-made soil properties with novel bio-geo-chemical means” **1st Mediterranean Young Geotechnical Engineers Conference (MYGEC)**, Bodrum, Turkey.
- “Subsurface Energy Applications and the Importance of Coupled Processes in Shales,” **DECOVALEX 2019 Symposium on Coupled Processes in Radioactive Waste Disposal and Subsurface Engineering Applications**, Brugg, Switzerland.
- “Analysis, Design and Application of Energy Geostructures from the Building to the City Scale.” **XVI Pan-American Conference on Soil Mechanics and Geotechnical Engineering (XVI PCSMGE)**, Cancun, Mexico.
- “New Era for Geotechnical Engineering Society” **University of Minnesota 68th Annual Geotechnical Engineering Conference**,” Minneapolis, USA.
- “THM behavior of bentonite-based materials,” **International Symposium on Energy Geostructures**,” Nancy, France.

2018

- “Analysis and design of energy tunnels and walls.” **International Symposium on Energy Geostructures**, Lausanne, Switzerland.
- “Analysis and design of energy tunnels and walls”. **Deep Foundations Institute**. Chicago, USA.
- “Gas shales: geomechanical challenges and analysis” **7th International Conference on Unsaturated Soils**. Hong Kong.
- “Gas shales: geomechanical challenges and analysis,” **ComGEo IV**, Assisi, Italy.

2017

- “Design of energy geostructures”. **7th Geotechnical Symposium**, Istanbul, Turkey.
- “Advances in energy piles design,” **2nd International Conference on Geo-Energy and Geo-Environment, GeGe2017**, Hangzhou, China.
- “Design of thermo-active piles”, **Shallow geothermal energy systems. Applications and perspectives**, Aveiro, Portugal.
- “Geomechanical solutions for Geo-Energy issues”, **Bochum Underground Space Day 2017**, Germany.

2016

- “Geomechanical solutions for Geo-Energy issues” **XVII French-Polish Colloquium of Soil and Rock Mechanics**, Lodz, Poland.
- “Analysis of the vertical deformation of energy pile groups” **1st International Conference on energy geotechnics, ICEGT 2016**, “Kiel, Germany.
- “Analysis of canister movements in an engineered barrier system,” **International mini-symposium Chubu**, Nagoya, Aichi, Japan.
- **8th Conference on Geo-engineering**. Vysoké Tatry, Slovakia.

2015

- **1st International Conference on Geo_Energy and Geo_Environment (GeGe2015)**, Hong Kong.
- **6th International Symposium on Deformation Characteristics of Soils**, Buenos Aires, Argentina.
- “Geomechanical solutions for Geo-Energy issues” **EAGE Geomechanics, and Energy workshop**, Celle, Germany.

- “Testing of the Hydromechanical behavior of Shales” **6th Asia-Pacific Conference on Unsaturated Soils (AP-UNSAT 2015)** Guilin, China.
- “Analysis of a volcanic ash slope subjected to wetting and drying cycles” **Prague Geotechnical Days 2015** Czech Republic.

2014

- Theme lecture, “Geomechanical solutions for CO2 sequestration.” **Environmental Geotechnics Congress** Melbourne, Australia.
- Plenary lecture, **14th International Conference of Int. Association for computer methods and advances in geomechanics** (IACMAG), Kyoto, Japan.
- Plenary lecture, **GeoShanghai 2014 International Conference**, Shanghai, China.
- Plenary lecture, **6th International Conference on Porous Media**, Milwaukee, Wisconsin, USA..
- “THM simulation of canister movements in an engineered barrier system.” **Annual meeting of the Mont Terri Consortium**. Saint-Ursanne, Switzerland..

2013

- “Multiphysical couplings in (geo)materials”. **1st International Workshop on the Finite Element Code LAGAMINE**, Liège, Belgium.
- Feature lecture “Hydromechanical analysis of a volcanic ash slope subjected to wetting and drying cycles” **3rd International Symposium on Computational Geomechanics**, Krakow, Poland.
- “Hydro-mechanically Coupled Processes in Rainfall-induced Landslide Modelling” **XVI French-Polish Colloquium of Soil and Rock Mechanics**, Montpellier, France.
- “Geotechnical Analysis of Energy Geo-Structures” **European Geothermal Congress 2013**, Pisa, Italy.
- General report, “Geotechnical Analysis of Energy Geo-Structures”. International Symposium **CPEG 2013 Coupled Phenomena in Environmental Geotechnics**, Torino, Italy.
- “Coupled analytical and numerical solutions of CO2 injection induced surface uplift and caprock deflection”. **3rd Sino-German Conference on Underground Storage of CO2 and Energy**, Goslar, Germany.
- “Advances in the analysis of thermo-active foundations and underground structures” **International Workshop on Thermo-active Geotechnical Systems for Near-Surface Geothermal Energy**, Lausanne Switzerland.

2011

- Plenary lecture, “Multiphysical Coupled Processes in Underground Nuclear Waste Disposal Problems” **Computational Methods for Coupled Problems in Science and Engineering IV**, Kos, Greece.
- Theme lecture, “Evidences on the deformation mechanisms of a Shale” **5th International Symposium on Deformation Characteristics of Geomaterials (IS-Seoul 2011) IV**, Seoul, Korea.
- Feature lecture, “Geotechnical design of energy piles”. **2nd International Symposium on Computational Geomechanics**, Cavtat-Dubrovnik, Croatia.

2010

- Plenary lecture, “Mechanics of unsaturated soils: concepts and applications” **3rd International Euro-Mediterranean Symposium on Advances in Geomaterials and Structures**, AGS’10, Djerba, Tunisia).

2008

- Invited lecture “Numerical Simulation of an In-Situ Underground Experiment for Nuclear Waste Storage” **12th IACMAG Conference**, Goa, India.
- “Enhanced viscoplastic modeling of soft soils” **2nd International Workshop on Geotechnics of Soft Soils - Focus On Ground Improvement**, University of Strathclyde, Glasgow, UK.
- Invited lecture “Geomechanical modeling of a natural slope affected by multiple slip surface failure mechanisms” **Intensive Course on Quantitative Risk Assessment and Risk Management**, Barcelona, Spain.
- “Environmental Geomechanics, Concepts and Applications” **33rd IGC International Geological World Congress**, Oslo, Norway.

- “A THM framework for modeling clay barriers performance in underground nuclear waste storage” **European Conference on Unsaturated Soils**, Durham, UK.

2007

- Invited lecture, “New insight into the unified hydromechanical constitutive modeling of unsaturated soils.” **3rd Asian Conference on Unsaturated Soils**, Nanjing, China.

2006

- Invited lecture, “Numerical modelling of the geomechanical behaviour of a large slope movement: The Triesenberg landslide (Liechtenstein).” JTC-1 (the joint ISSMGE, ISRM and IAEG Committee on Landslides and Engineered Slopes), **Workshop on the Mechanics and Velocity of Large Landslides**, Courmayeur, Italy.
- Invited lecture, “A THM stress-strain framework for modelling the performance of argillaceous materials in deep repositories for radioactive waste.” **Mont Terri Project, 10 Years Anniversary Workshop**, St-Ursanne, Switzerland.

INNOVATION, TECHNOLOGY TRANSFER - PATENTS AND COMMERCIAL SOFTWARE

- **Invention 1: PCT/IB2019/054532 - System and method for ground consolidation.**

The present invention belongs to the fields of construction technology and geotechnical engineering. More precisely, the present invention relates to a method and system for ground stabilization that uses a system of electrodes in the ground.

- **Invention 2: PCT/IB2019/052950 Patent: heat exchanger module and methods of using thereof**

Heat exchanger module and methods of using thereof. The present invention relates to a thermal energy transfer unit and its applications in, e.g., heat exchange processes in a built environment.

- **Invention 3: PCT/IB2020/05473 - Method and system for producing a carbonate-containing species-rich, nitrogen-containing species-free solution.**

The present invention generally belongs to the field of inorganic chemistry. More particularly, the invention pertains to a method and system for producing a carbonate-containing species-rich, nitrogen-containing species-free solution from a urea-rich solution and applications for ground bio-consolidation processes.

- **Invention 4: PCT/EP2017/062995 - Patent: a geosynthetic element for soil bio-improvement**

The present invention relates to a geosynthetic element for geotechnical engineering applications. More specifically, according to the present invention, the geosynthetic element comprises bacteria carriers for calcifying bacteria and a flow network. The present invention also relates to a method of inducing microbial calcium carbonate precipitation in a geomaterial by using the geosynthetic element.

The related activities were developed in the context of a startup (MeduSoil), awarded the Swiss National ClimateKIC 2017.

- **Invention 5: Patent application No. 24206595.1 filed on 15 October 2024 (priority): Borehole in situ stress measurement system**

More about the patents: <https://patents.justia.com/search?q=Laloui>

- **Software for the design of energy geostructures**

In 2011, we developed the commercial software “Thermo-Pile” for the geotechnical design of energy piles. It is the only software of its kind available until today on the market for the feasibility analysis of energy pile

projects. The software is currently used in several countries, including France, Spain, Belgium, Roumania and Korea.

Further details can be found at <http://lms.epfl.ch/thermopile>.

Other Professional Activities

AMBASSADOR

Lausanne Montreux Congress (LMC)

LMC brings together experts from different sectors in the economic region of Lausanne and Montreux.

GUEST EDITOR (SPECIAL ISSUES)

- Energy Procedia - Volume 114, Pages 1-7666, July 2017.
Proc. 13th International Conference on Greenhouse Gas Control Technologies, GHGT-13, 14-18 November 2016, Lausanne, Switzerland. Edited by Tim Dixon, Lyessse Laloui, and Sian Twinning
- Acta Geotechnica: Thermoactive Geotechnical Systems, 2014.
- Engineering Geology: Mechanics and velocity of large landslides, vol. 109, 2009.
- European Journal of Environmental and Civil Engineering:
1. Coupled Multi-Physics Processes in Geomechanics, vol. 9, N°5-6, 2005.
2. Failure in multiphase geomaterials, vol. 13, N°7-8, 2009.
- International Journal of Road Materials and Pavement Design: Water in Pavements, vol. 8, N°4, 2007.
- Géotechnique: Symposium in Print – Bio- and Chemo-Mechanical processes in geotechnical engineering (Vol. LXIII N° 2, 2013; Vol. LXIII N° 3, 2013)
- Soils and Foundations: Geomechanics of Structured Materials, Vol. 49, N°3, 2009.
- Water Resources Research: Hydrology and Mechanical Coupling in Earth Sciences and Engineering: Interdisciplinary Perspectives, Vol. 44, Issue 5, 2008.

SUPERVISED PH.D. RESEARCHERS

Prof. Laloui has supervised more than 40 Ph.D. theses and post-docs researchers. Many have resulted in distinguished awards, including:

- **Haenny Prize** 2024 (D. Terzis).
- **Zeno Karl Schindler** 2019 Award (A. Rotta Loria).
- US Deep Foundation Institute (DFI) **Educational Trust 2018 Young Professor Paper Competition** for the paper "Performance-Based Design of Energy Pile Foundations" (A. Rotta Loria).
- **"First runner-up position"** at the US Deep Foundation Institute (DFI) Educational Trust 2011 Young Professor Paper Competition for the paper "Design of Piles with Dual Role of Structural Stability and as a Sustainable Source of Energy for the Heating and Cooling of Buildings" (A. Di Donna).
- **"Best European Ph.D. thesis in Geomechanics in 2010"** from the European Association ALERT Geomaterials (M. Nuth).
- **"Best European Ph.D. thesis in Geomechanics in 2009"** from the European Association ALERT Geomaterials (B. François).
- **"EPFL Chorafas Prize 2009"** (M. Nuth)
- **"2009 best PhD thesis"** from the "Association universitaire de génie civil" in France (M. Nuth)
- **"EPFL Zanelli Prize for a Master's Work"** (T. Meynet)
- **"Best European Ph.D. thesis in Geomechanics in 2008"** from the European Association ALERT Geomaterials (A. Koliji)
- **"Second position for the best European Ph.D. thesis in Geomechanics in 2008"** from the European Association ALERT Geomaterials (H. Péron)
- **"Second prize for 2003 best PhD thesis"** from the "Association Universitaire de Génie Civil" in France (C. Cekerevac).

INSTITUTIONAL RESEARCH GRANT REVIEWS

Regular reviewer of research proposals for a range of international research institutions, including the Swiss National Science Foundation, the European Research Council (ERC), the National Research Council of Canada, the Austrian Science Fund and the French National Agency for Research.

ORGANISATION OF INTERNATIONAL EVENTS

Over 40 events organized among them:

2024

- Ongoing director of the annual intensive course, **Energy geostructures analysis and design** in Lausanne, Switzerland, since 2018.

2020

- Biogeotechnics Webinar - 5 Little Known Keys for Successful Biogeotechnical Practice, Online, September 2020.
- Chair of the international **Winter School on Geomechanics for Energy and the Environment** in Villars, Switzerland, (2018-2020).

2018

- Chair of the international **Symposium on Energy Geotechnics** in Lausanne, Switzerland. More than 260 participants from 35 countries, 26-28 September 2018.

2017

- Convener of the **15th Swiss Geoscience Meeting**, session "Shale-Gas, CO2 Storage and Deep Geothermal Energy". Davos, Switzerland, November 2017.
- 2nd International Workshop on **Advances in laboratory testing and modelling of soils and shales**, Villars-sur-Ollon, Switzerland, 18 - 20 January 2017.

2015

- Vice-Chair, **1st International Conference on Geo_Energy and Geo_Environment (GeGe2015)**, Hong-Kong, December, 2015.
- Chair 2nd International Workshop on **Geomechanics and Energy - the Ground as Energy Source and Storage**, Celle, 13 - 15 October 2015 (116 participants).
- One day session on **Shale-Gas, CO2 Storage and Deep Geothermal Energy**, 11th, 12th and 13th Swiss Geoscience Meetings, Lausanne, Fribourg and Basel, November 2013 (70 participants), November 2014 (200 participants), November 2015 (120 participants).

2014

- Chair Short course on **Introduction to multiphysical geomechanics**, Minneapolis, June 2014 (20 participants).
- Chair One-day session on **Geothermal Energy, CO2 Sequestration and Shale Gas**, 12th Swiss Geoscience Meeting, Fribourg, November 2014 (60 participants).

2013

- Chair International Workshop on **Geomechanics and Energy - the Ground as Energy Source and Storage**, Lausanne, 26 - 28 November 2013 (100 participants).
- Short course on **Introduction to multiphysical geomechanics**, Lausanne, 25 November 2013 (17 participants).
- **Geotechnique Symposium in Print 2013** on Bio- and Chemo-Mechanical Processes in Geotechnical Engineering, London, May 2013.
- International Workshop on **Thermo-active Geotechnical Systems for Near-surface Geothermal Energy**, sponsored by US-NSF, Lausanne, March 2013 (70 participants).

2012

- **5th Low Carbon Energy University Alliance Workshop**, Lausanne, November 2012 (30 participants).
- **International Workshop on Multiphysical Testing of soils and Shales**, Lausanne, September 2012 (80 participants).
- One-day session on **Geomechanics for Energy Production**, ALERT-Geomechanics Workshop, Aussois, France, October 2012 (220 participants).

2011

- Two sessions on “**Energy foundations**” at GeoFrontiers 2011 Conference, Dallas, Texas, March 2011.

2010

- ALERT Olek Zienkiewicz Course on “**Mechanics of Unsaturated Geomaterials**”, EPFL, Lausanne, 5-9 July 2010 (60 participants).
- Six sessions on: “**Computational Models and Methods for Multiphysics Processes in Geomaterials, Biomaterials and other Multiphase Porous Media**”. IV European Conference on Computational Mechanics, ECCM 2010, Paris (France), May 16-21, 2010.

2009

- **European Doctoral School of the ALERT-Geomaterials** on Failure in Multiphase Materials. Aussois (France), 15-17 October 2009 (102 participants).
- Two sessions: “**Multiphysics Modelling of Geo-environmental Engineering Problems**” and “**Multiscale Problems**”. ECCOMAS Computational Methods for Coupled Problems in Science and Engineering, Coupled 09, Ischia (Italy), Jun. 8-10, 2009.

2008

- Training course on **THM Behaviour of Clays in Deep Excavation with Application to Underground Radioactive Waste Disposal**, EPFL, July 7-9, 2008 (50 participants).
- Special session on **Environmental Geomechanics** in the ASCE GeoCongress 2008, New Orleans, March 9-12, 2008.

2007

- **European Workshop on Hazard Analysis** (slides, rockfall, debris flow, snow avalanche) (50 participants), Lausanne, November 26-30, 2007.
- Special session on “Water in Pavements – **International Conference on Advanced Characterisation of Pavement and Soil Engineering Materials**, Athens (Greece), 2007.
- Special session on **Thermo-Hydro-Mechanical Coupling in Geomaterials** in the Second International Conference on Porous Media and its Applications in Science, Engineering and Industry, Kauai, Hawaii, June 17-22, 2007.
- One day session in the ALERT Geomaterials annual meetings: “**Geomechanics of Structured Materials**”, October 2007.
- Two special sessions on **Modeling of Multiphysics Processes in Soils** in the ASCE GeoDenver 2007 Conference, Denver, February 18-21, 2007.

2005

- **International Workshop “Water in Pavements WIP’05”**. Centro de Estudios y Experimentación de Obras Públicas (CEDEX), Madrid, 27 October 2005 (70 participants).
- **European Doctoral School of the ALERT-Geomaterials and DIGA Networks**. Aussois (France), 13-16 October 2005 (130 participants).

2003

- Special session on “Environmental Geomechanics” in the **International Conference on Environmental Geotechnics**, Singapore, 2003.

2002

- **International Workshop on Environmental Geomechanics**. Monte Verità, June 31- July 5, 2002 (80 participants).

2001

- **European Workshop on Geothermal Response Tests**. EPFL, October 25 & 26, 2001 (40 participants).

2000

- One day session in the ALERT Geomaterials annual meetings: “**Multiphysical processes in geomaterials**”, October 2000, Aussois (France).

1996

- **International Workshop on Constitutive Modelling and Finite Elements Method Applications in Geomechanics.** EPFL, June 25 & 26, 1996 (40 participants).

1995

- **International Workshop “Mechanics of granular flows in an environment of natural disasters “.** EPFL, December 19 & 20, 1995 (50 participants).

Publications

SCIENTIFIC OUTPUT – BASED ON SCOPUS DATABASE

- **13** books
Over **397** articles, over **20,000** citations, an **H-index=71** (A.D. Scientific Index), and two highly cited papers (papers received enough citations to be placed in the **top 1%** of the academic field of Engineering based on a highly cited threshold for the field and publication year).

The complete list of publications is available here:

<https://infoscience.epfl.ch/search?Ln=fr&p=lyesse+laloui&f=>

BOOKS

- *Analysis and Design of Energy Geostructures.* **L. Laloui**, A. Rotta Loria. Elsevier Publishing House, 1096 pages, ISBN : 9780128206232, 2019.
- *Energy Geotechnics.* A. Ferrari, **L. Laloui** (Editors). Springer International Publishing, 511 pages, <https://doi.org/10.1007/978-3-319-99670-7>, ISBN: 978-3-319-99669-1, 2018.
- *Energy Procedia - Volume 114, Pages 1-7666 (July 2017) - Proc. 13th International Conference on Greenhouse Gas Control Technologies, GHGT-13, 14-18 November 2016, Lausanne, Switzerland.* Edited by Tim Dixon, **L. Laloui**, and Sian Twining.
- *Advances in Laboratory Testing and Modelling of Soils and Shales (ATMSS).* A. Ferrari, **L. Laloui** (Editors). Springer International Publishing, 235 pages, Doi: 10.1007/978-3-319-52773-4, ISBN: 978-3-319-52772-7, 2017.
- *Energy Geostructures.* **L. Laloui**, A. Di Donna, G. Kong (Editors). China Architecture and Building Press, 255 pages, ISBN: 978-7-112-19661-6., 2016.
- *Géostructures énergétiques.* **L. Laloui**, A. Di Donna (Editors). Hermes Science Publications, 250 pages, ISBN: 978-2-7462-4577-8, 2015.
- *Energy Geostructures: Innovation in Underground Engineering.* **L. Laloui**, A. Di Donna (Editors). Wiley-ISTE, 250 pages, ISTE Ltd. and John Wiley and Sons, Hoboken, NJ, ISBN: 9781848215726. 2014.
- *Mécanique des sols et des roches.* Vulliet L., **Laloui L.**, J. Zhao. Presses Polytechniques Universitaires Romandes, 624 pages, ISBN 978-2-88074-961-3, 2016.
- *Multiphysical Testing of Soils and Shales.* Editors: **L. Laloui** and A. Ferrari. Springer, 978-3-642-32491-8, Springer Series in Geomechanics and Geo-engineering, 2012. Since its online publication, there has been a total of **104,098**-chapter downloads for the eBook on SpringerLink. This means the book was one of the **top 25%** most downloaded eBooks in the relevant eBook Collection in 2017.
- *Mechanics of Unsaturated Geomaterials.* **L. Laloui** (Editor). Wiley-ISTE, 380 pages, 2010. ISTE Ltd. and John Wiley and Sons, Hoboken, NJ, ISBN 9781848212664.
- *Computer applications in geotechnical engineering.* Siegel TC, R. Luna, T. Hueckel, **L. Laloui** (Editors). ASCE Geotechnical special publication N°157, 2007.
- *Environmental Geomechanics.* L. Vulliet, **L. Laloui** & B. Schrefler (Editors). Publisher EPFL-Press. 423 pages; ISBN 2-88074-515-2. 2002.
- *Tests de réponse géothermique/Geothermische response tests.* W.J. Eugster & **L. Laloui** (Editors). Proceedings of the European Workshop on Geothermal Test Responses. Lausanne, 130 pages. Publisher GTV; ISBN 3-932570-43-X. 2002.

Selected Media Appearances

Regular contributor to local and international media outlets.

TV AND RADIO INTERVIEWS:

- **Site pour déchets nucléaires – Forum RTS, 12.09.2022**
<https://www.rts.ch/play/tv/forum/video/forum-video-presente-par-esther-coquoz-et-renaud-malik22?urn=urn:rts:video:13379051>
- **“Un livre veut favoriser le développement des géostructures énergétiques”, RTS, 05.11.2019**
<https://www.rts.ch/play/radio/cqfd/audio/un-livre-veut-favoriser-le-developpement-des-geostructures-energetiques?id=10804511>
- **“Géo Ingénierie: la promesse de Prométhée”- RTS, 25.05.2019**
<https://www.rts.ch/play/radio/prise-de-terre/audio/geo-ingenierie-la-promesse-de-promethee?id=10425239>
- **“Séquestrer le CO2”- Journal de la télévision suisse romande & journal de la télévision suisse italienne.**
<https://actu.epfl.ch/news/prof-laloui-interviewe-par-rts-au-sujet-de-la-sequ/>
- **“Finlande: un tombeau nucléaire pour l'éternité ?”- Radio Suisse Romande la 1ère.**
<https://www.rts.ch/info/dossiers/quinze-minutes/10023635-finlande-un-tombeau-nucleaire-pour-l-eternite-.html#timeline-anchor-1543667123373>
- **“La géothermie, ce potentiel inexploité”- Radio Suisse Romande la 1ère.**
<https://www.rts.ch/play/radio/tout-un-monde/audio/la-geothermie-ce-potentiel-inexploite-interview-de-lyesse-laloui-professeur-a-lepfl?id=9839478&station=a9e7621504c6959e35c3ecbe7f6bed0446cdf8da>
- **“Rencontre avec Lyesse Laloui”- “CQFD”, Swiss National Radio – 24.3.2017 and 8.4.2018.**
<https://www.rts.ch/play/radio/cqfd/audio/rencontre-avec-lyesse-laloui?id=8450929&station=a9e7621504c6959e35c3ecbe7f6bed0446cdf8da>
- **“Berges Instables” – Radio Suisse Romande**
<https://www.rts.ch/info/suisse/9224238-accalmie-sur-le-front-des-intemperies-mais-la-prudence-reste-de-mise.html>
- **“Le Génie Civil face à la problématique des dangers naturels” - Guest of the Swiss National Radio – La Première**
<https://pages.rts.ch/la-1ere/programmes/la-matinale/8857363-linvite-dactualite-video-lyesse-laloui.html?anchor=8874671#8874671>
- **“Enfouissement des déchets nucléaires” - Guest of the Swiss National Radio – Couleur3**
<https://www.rts.ch/play/radio/linvite/audio/linvite-professeur-lyesse-laloui-directeur-du-laboratoire-de-mecanique-des-sols-de-lecole-polytechnique-federale-de-lausanne-epfl?id=8577008>
- **“The Important Guest” of the Swiss National Radio RTS – 24.03.2017**
<http://www.rts.ch/play/radio/cqfd/audio/rencontre-avec-lyesse-laloui?id=8450929>
- **“Où stocker le CO2,” RTS, 2013**
<http://www.rts.ch/espace-2/programmes/babylone/5353311-ou-stocker-le-co2-20-11-2013.html?f=player/popup>
- **“Des bactéries pour durcir le sol,” RTS, 2013**
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- **“Stocker le CO2 dans le sol,” RTS, 2013**
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- **What to do with nuclear waste?” RTS, 2013.**
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- **“Swiss concept of Nuclear waste disposal,” RSI, 2012.**
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- **“Extracting the heat from the ground”, La Regione Ticino, 2012.**
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PRINT

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<https://actu.epfl.ch/news/will-switzerland-store-co2-underground/>
- **“En Suisse, le potentiel de la géothermie de surface est enorme”- Le Temps, 01.09.2021**
<https://www.letemps.ch/sciences/suisse-potentiel-geothermie-surface-enorme>
- **“Les start-up proposent des solutions pour l'assainissement énergétique énergétique”- AGEFI, 6.09.2021**
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- **“We have a duty to Switzerland, and to the planet”- ACTU EPFL, 14.01.2021**
<https://actu.epfl.ch/news/we-have-a-duty-to-switzerland-and-to-the-planet-3/>
- **“Séquestration du CO2: remettre le carbone à sa place”- TRACÉS, 08.12.2020**
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- **“Innovations en sous-sol prêtes à faire surface”- Le Nouvelliste, 18.12.2019**
<https://actu.epfl.ch/news/prof-laloui-talks-about-innovation-in-nouveliste/>
- **“EPFL champions energy geostructures”- ACTU EPFL, 01.11.2019**
<https://actu.epfl.ch/news/epfl-champions-energy-geostructures-2/>
- **“Pourquoi négliger une énergie indigène, renouvelable et durable !”- L'AGEFI, 26.02.2019.**
http://www.agefi.com/home/acteurs/detail/edition/online/article/pourquoi-negligier-une-energie-indigene-renouvelable-485656.html?utm_source=AGEFI+-+newsletter+quotidienne&utm_campaign=d383114c3c-EMAIL_CAMPAIGN_2017_09_12_COPY_07&utm_medium=email&utm_term=0_f79c96c933-d383114c3c-36569053
- **“Remettre le CO2 d'où il vient !”- Le Temps, 21.12.2018.**
<https://www.letemps.ch/opinions/remettre-co2-dou-vient>
- **“MeduSoil cherche à lever un demi-million”- AGEFI – 24.7.2018.**
<https://agefi.com/actualites/entreprises/medusoil-cherche-a-lever-un-demi-million>
- **“Des bactéries pour soutenir le sol de Rances”- journal La Région – 18.7.2018.**
<https://www.laregion.ch/des-bacteries-pour-soutenir-le-sol-de-rances/>
- **“A l'EPFL, l'avenir de l'homme murit sous terre”- Portait journal 24Heures – 18.6.2018.**
<https://www.24heures.ch/portraits/epfl-lavenir-lhomme-murit-terre/story/28099906>
- **“Techniques de demain cherchent à faire leur(s) trou(s)”- Swissinfo (20.3.2018)**
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- **“La caverne nucléaire fait peur à la population” - Migros Magazine**
<https://www.migrosmagazine.ch/la-caverne-nucleaire-fait-peur-a-la-population>
- **“Augmentation des aléas climatiques: qui en est la cause?” – L'EXTENSION**
<https://actu.epfl.ch/news/augmentation-des-aleas-climatiques-qui-en-est-la-c/>
- **“L'EPFL envisage le stockage du CO2 comme une planche de salut” Terre et Nature - 9.02.2017**
www.terrenature.ch
- **“Déchets nucléaires – L'éternelle Question” Moustique - 8.02.2017**
<http://www.moustique.be/>
- **“Avec les déchets radioactifs, l'échelle du temps diffère” 24Heures**
<http://www.24heures.ch/suisse/politique/Avec-les-dechets-radioactifs-l-echelle-du-temps-est-differente-/story/31606036>
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- **“Sols biorenforcés : vers un changement de paradigme” - 31**
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- **“L'EPFL s'attaque à l'injection de CO2 dans le sol pour lutter contre le réchauffement”**
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arcinfo - <http://goo.gl/fjcTtr>,
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Lacote - <http://goo.gl/bNdl0k>,
myscience - <https://goo.gl/cn5wO5>,
azocleantech - <http://goo.gl/HJj84t>
- **L'EPFL teste le stockage du CO2 dans le sous-sol**
24heures - <http://goo.gl/7n1V83>
- **Forscher berechnen sichere Bedingungen für CO2-Lager**
aggm.at - <http://goo.gl/xVZtNG>
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- **A new tool to ensure the safety of injecting CO2 underground**
phys.org - <http://goo.gl/mnp9FP>
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- **Comment changer le gaz en roche,” Interview in LeTemps, June 10, 2016.**
- **“Enfouire le CO2 à 7 km de profondeur”, Swiss Engineering, Revue Technique Suisse, January-February 2016.**
<http://www.paperlit.com/webreader/read/swissengineeringkiosk/2016-02-01#/swissengineeringkiosk/swissengineeringrts/2016-02-01?page=6-7>
- **“Le stockage du CO2: une solution immédiate pour le climat,” Journal l'Extension, Printemps 2016**
<http://www.lextension.com/journeauxPdf/html5/index.php?m=55#page/26>
<http://www.lextension.com/21358/le-stockage-du-co2-une-solution-immEDIATE-pour-le-climat>
- **“Putting carbon back where it came from: underground,” EPFL News, 2015**
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- **“Gas de schist,” Efficience21, 2013**
<http://actualites.epfl.ch/index.php?module=epflfiles&func=getFile&fid=16724&inline=1>
- **“Les experts, des boucs émissaires?”, Le Temps 2013.**
<http://lms.epfl.ch/files/content/sites/lms/files/shared/Media/Articles/LeTemps-LAquila.pdf>
- **“Predicting the unpredictable,” EPFL Mediacom 2013.**
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- **“Stabilization of La Frasse,” L'Express, 2013.**
<http://lms.epfl.ch/files/content/sites/lms/files/shared/About%20us/pdf%20files/Express%20-%20Glissement%20de%20terrain.pdf>
- **Upcoming Activity: International Workshop,” Deep Foundations, 2013.**
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- **“Interview of Lyesse Laloui,” Swiss Engineering Magazine, 2012.**
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- **“The Energy Piles”, Tracés, 2012.**
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- **"Pieux énergétiques". TRACES, pp. 6-10, Feb. 2012.**
- **“How will Swiss radioactive waste be disposed of ?” EPFL Mediacom, 2011.**

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- **"Optimale Auslegung ergibt besseren Nutzen."** Communication of Geothermie.ch, n°50, 15-18, 2011.
- **"The EPFL wants to bury CO2,"** 24 Heures, 2010.
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- **"La réponse vient du sol."** Chantiers et Rénovations, pp. 50-52, vol. 8, September 2006.
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More about media appearances: <https://www.epfl.ch/labs/lms/page-131128-en-html/>

OTHER INFORMATION

Information on advised post-docs, master students, teaching activities, etc., is available in the following annual reports that cover the period 2008-2023: <https://www.epfl.ch/labs/lms/annualreports/>

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Google Scholar ID: <https://scholar.google.ch/citations?user=XgJfPH4AAAAJ&hl=fr>

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