

LAURENT CHARLET

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ORCID: [0000-0003-3669-7316](https://orcid.org/0000-0003-3669-7316), born 22.09.1955 in Paris, French, Research group

<https://www.isterre.fr/annuaire/pages-web-du-personnel/laurent-charlet/>

EDUCATION

School of Agronomy Engineering, Rennes, France, M.Sc.1979

University of California, Riverside, Soil and Environmental Science, M.Sc.1982, Ph.D. 1986

CURRENT POSITIONS

2022-present Chair Honoraris Causae, *School of Medicine*, University of Swansea, UK

2023-present Emeritus Distinguished Professor, University Grenoble Alpes (UGA), France

2022 - present Adjunct Professor, Central Michigan University, Mount Pleasant, USA

2013 – present Adjunct Professor, Water Quality Control Processes, University of Waterloo, Canada

2018 – present *Affiliate*, Lawrence Berkeley National Laboratory, Berkeley, California, USA

PREVIOUS POSITIONS

2014 Invited Professor, EPFL, Lausanne, Switzerland

2009 – 2014 Senior Fellow, Institut Universitaire de France (IUF), Paris, France

2008 – 2009 Visiting Professor, University of California, Berkeley, ESPM, US

2013 - 2023 Distinguished Professor, Water Bio-Geochemistry, UGA, France

2000 – 2012 Full Professor, UGA, France

2001 Donder Chair, Visiting Professor, University of Utrecht, The Netherlands

1992 – 2000 Associate Professor, UGA, France

1988 – 1992 Post-doctoral fellow, Colloid Chemistry, Bern University, Switzerland

1986 – 1988 Post-doctoral investigator, Water Science Institute (EAWAG), Dübendorf, Switzerland

1983 – 1986 Research Assistant, Department of Soil and Environmental Sciences, UC Riverside, US

FELLOWSHIPS AND AWARDS

2024 Distinguished Fellow, University of Swansea, UK

2010 Hitchon Award, International Association of GeoChemistry

2009 – 2014 Senior member, French University Academy (IUF), Paris, France

2007 CNRS Silver Medal for Excellence of Research

2009 Invited Visiting Professorship, University of California, Berkeley, US

2014 Invited Visiting Professorship, EPFL, Lausanne, Switzerland

1982 – 1986 Sigma-XI and French Rotary Club awards (1982-86)

PUBLICATION STATISTICS

h-index: 67 (Scopus) or 83 (Google Scholar), Publications in peer-rev. int. j.: 220.

Times Cited by ISI citation index sum: 15856 (Scopus) or 23984 (Google Scholar);

ORCID number is: [0000-0003-3669-7316](https://orcid.org/0000-0003-3669-7316)

Example: Toubhans et al. (2023) Selenium nanoparticles modulate histone methylation via lysine methyltransferase activity and S-adenosylhomocysteine depletion. *Redox Biology* [61](https://doi.org/10.1016/j.redox.2023.102641):102641

ORGANISATION OF SCIENTIFIC MEETINGS

2010 – present Theme and Session organiser every 2 years, Goldschmidt Conference (>2000 parti.)

2017 Inter. Medical Geol. Assoc. French Chapter (Founding Head) meeting, Annecy, France

TEACHING and MOOC

At UGA: Water Geochemistry, Nanotoxicology, Soil Science, Emerging Contaminants, Paleo-environments

With EPFL, Switzerland: “Water Biogeochemistry” MOOC, since 2019

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

1992 – present: 32 Postdocs (17 women, 14 men, from 18 different countries) / 30 PhD (12 women, 18 men, from 10 different countries) / many Master Students

All PhD students are authors (usually first) of their papers (e.g. Bin Ma 1st author of 4 papers, now Professor, North China Electric Power University, Beijing, China).

AREAS OF EXPERTISE

- Nanoparticle reactivity in the Human body and towards oxy(an)ions
- Diseases and Soil particle reactivity: Podoconiosis and Prion diseases
- Mobility of trace elements in anoxic sediment & waters
- Radioactive waste and Hydrogen Geological Storage
- Medical geochemistry. Towards a geochemical basis to Public Health politics and policies.

INSTITUTIONAL RESPONSIBILITIES

2016 – 2019 Founding member, UGA - Swansea University Partnership Board, UK

2015 – 2019 Administration Board, UGA Foundation, Grenoble, France

2013 – 2020 UGA Representative, Labex SERENADE excellence network, France

2013 – 2015 International Research advisor to University Grenoble Alpes Chancellor

2012 – 2017 CNRS Board, Section 30, Paris, France

2006 - 2010 Lascaux prehistorical cave UNESCO Heritage, scientific committee member

1997 - 2003 Research advisor to University Grenoble Alpes Chancellor

PATENTS

2008 European Patent registered under # EP 08 290234 and EP 2 100 522 A1G. Co-PI

2007 European patent registered under # EP 07123308.5 Co-PI

EDITORIAL ACTIVITIES

2007 – 2018 Journal of Hydrology *Editor-in-Chief* (IF raised from 2.10 to 3.48 during his editorship)

2015 – 2016 J. Advanced Water Research *Guest Editor* Garrison Sposito Special Issue (IF = 3.4)

2000 – 2006 Aquatic Geochemistry *Associate Editor*

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

1992 – present Member of the European Association of Geochemistry, EU

2012 – present Member of the American Chemical Society, USA

MAJOR CONTRIBUTIONS TO THE EARLY CAREERS OF EXCELLENT RESEARCHERS

- *Full Professors* L. Aristilde, Northwestern University, USA; C. Tournassat, Univ. Orléans, France, B. Ma, North China Electric Power University, Beijing, China
- *Associate Professors* E. Silvester, La Trobe Univ., Australia; L. Winkel, ETHZ, CH; D. Samake, CNRST Head, Univ. Bamako, Mali; M. Wolthers, Utrecht University, The Netherlands;
- *Assistant Professors* J. He, Wuhan University, C. Noirel, Lille University, France

MAJOR PRESENT COLLABORATIONS

S. Conlan (Univ. Swansea, UK), B. Gilbert (LBNL, Berkeley, USA), P. van Cappellen (University Waterloo, Canada), A. Scheinost, (Helmholtz Zentrum Desden-Rosendorf, Germany), R. Couture (University Laval, Canada), L. Winkel (ETH Zurich, Switzerland), F. Bardelli (CNR-Nanotech, Rome, Italy), Anthony Chappaz (Central Michigan University, USA)