

Dr. Grégory NOCTON

Researcher, associate professor

French, 39 years old, married, two children

Laboratoire de Chimie Moléculaire

Ecole polytechnique, CNRS, Route de Saclay, F-91120 Palaiseau

+336 52 38 74 40, gregory.nocton@polytechnique.edu

<http://www.gregory.nocton.fr>



PRESENT POSITION

- 2011 - CNRS Researcher (CRCN) – Institut of Chemistry**
Laboratoire de Chimie Moléculaire (UMR 9168) - Ecole polytechnique, France
Member of the executive office (2021-)
- 2017 - Associate professor** at Ecole polytechnique
Vice-President of the Chemistry department (2022-), Co-chair of the Chemistry and interface program (M1/3A) (2018-)

EDUCATION

- 2016 Habilitation**, University of Paris-Sud, France.
- 2009-2011 Postdoctoral fellow** - Lawrence Berkeley National Laboratory / UC Berkeley
Prof. Richard A. Andersen (UC Berkeley)
- 2009 Ph.D. in Inorganic Chemistry**, University of Grenoble, France.
CEA Grenoble / Laboratoire de Chimie Inorganique et Biologique
Prof. Marinella Mazzanti
- 2006 Master of Science (Inorganic Chemistry)**, University of Grenoble, France
Prof. Marinella Mazzanti
- 2005 Master Visiting student**, Technische Universität München, Germany
Prof. Dr. F. H. Kohler
- 2005 Maîtrise (Bachelor) of Chemistry**, University of Reims-Champagne, France.
Prof. Françoise Chuburu

FELLOWSHIP AND AWARDS

- 2021 Coordination Chemistry Division Junior Award**, French Chemical Society
- 2016 Bronze Medal of CNRS**
- 2013 Best Talk Award** (French Chemical Society, Coordination Chemistry Division, Lyon)
- 2009 Best Talk Award** (French Chemical Society, Coordination Chemistry Division, Reims)
- 2008 Best Poster Award** from the Graduate School in Chemistry
- 2006 Student Research Scholarship** from the German-French Youth Office
- 2005 Travel Grant** from Champagne-Ardenne County, Research Grant from DAAD

RESEARCH GRANTS

- 2022-2023 France-Berkeley Funds** with Stefan Minasian (Co-PI, 12 k\$)
- 2022-2023 CHARMMMAT Post-doc Grant** with M. Mellah (Paris-Saclay), 55 k€
- 2022-2025 Alliance Ph.D. project** with K. Pedersen, DTU, Denmark, (200 k€, Co-PI)
- 2017-2022 ERC Consolidator Grant**, *PhiBond*, 2 M€
- 2022-2024 Coordination**, *Emerging International Action*, CNRS / University of Arizona; 14 k€
- 2021-2023 Member of the consortium**, Defense Innovation Agency; 240 k€
- 2019-2024 Coordination** of the national research grant *RelaxMax* (3 partners; 405 k€)
- 2017-2022 ERC Starting Grant**, *LanAsCat*, 1.5 M€
- 2015-2019 Coordination** of the national research grant *RedivaLan* (3 partners; 450 k€)
- 2013-2017 Member of the consortium** for the national research grant *PSalenOx* (200 k€)

TEACHING ACTIVITIES

- 2017 -** **Associate professor** at Ecole polytechnique (77h/year): *Nuclear Magnetic Resonance (NMR), group theory, atmospheric chemistry (M1), and supramolecular chemistry with biological and environmental applications (M2)*
- 2012-2017** **Lecturer**, Ecole polytechnique (between 50 and 90 h/year)
- 2006- 2009** **Teaching assistant**, University of Grenoble, France (64/year)

RESEARCH ACTIVITIES

- Supervision of **10 Ph.D. students, 4 post-doc fellows** (86 months); 19 master students (9 M2, 10 M1), and 10 undergraduate students
- **54 articles** in international reviews (6 *J. Am. Chem. Soc.*, 6 *Angew. Chem. Int. Ed.*, 8 *Inorg. Chem.*, 8 *Organometallics*, 6 *Chem. Eur. J.*, 4 *Chem. Commun.*, 2 *Chem. Sci.*, 1 *JACS Au*, 1 *Inorg. Chem. Front.*) (22% first author, 63 % corresponding author, 43 % last author)
- **3 published book chapters**, 1 chapter in production.
- **3 outreach articles** and 5 outreach presentations
- **13 invited oral presentations** at conferences (**11 international conferences**)
- **31 invited seminars** and workshops (**12 international**)
- **13 oral presentations** at international conferences
- **12 poster presentations** (7 international conferences, 5 Gordon Research Conferences)
- Web of Science Researcher ID: D-T-8107-2019; <https://orcid.org/0000-0003-0599-1176>
- **H-index: 23**, an average of 29.8 citations/article

INSTITUTIONAL RESPONSABILITIES

- 2022-** **Vice-President** of the Chemistry department – Ecole polytechnique
- 2021-** Member of the executive office – *Laboratoire de Chimie Moléculaire* - Ecole polytechnique
- 2019-** Member of the sustainable development working group - Ecole polytechnique
- 2018-** Member of the department of chemistry executive office – Ecole polytechnique
- 2018-** **Co-chair** of the Chemistry and Interfaces academic program (M1) – Ecole polytechnique
- 2017-2021** Member of the committee for the attribution of research bonuses (PEDR) *Section 14 of the CNRS (National)*
- 2016-** Member of the scientific board of the X-Ray diffraction platform, Ecole polytechnique
- 2013-2016** Internal Seminar Organizer, LCM, Ecole polytechnique.
- 2012-2021** In charge of the NMR facility (LCM, 2 Instruments)
- 2012-2016** In charge of the single crystal X-ray diffraction service, Ecole polytechnique

ORGANIZATION OF SCIENTIFIC MEETINGS

- 2023** **Coordination** of the organization of the GECOM-CONCORD conference, May 2023
- 2023** Member of the organization committee of the International Conference on f-Elements chemistry ICfE11 – August 2023
- 2022** **Coordination** of the kick-off meeting of the Center for Rare Earth and Actinides Research – Ecole polytechnique, May 2022
- 2021-2022** Member of the organization committee of the International Chemistry Summer School on f-elements CS²fE – September 2021, June 2022
- 2021** **Co-organization** of the ACS F. Albert Cotton Award 2021 symposium (ACS Meeting)

- 2020-** Member of the organization committee of the f-element regular webinar « Angular Momentum » (12 seminars) <https://twitter.com/felementangular>
- 2020** **Coordination** of the organization for the workshop “Metallic complexes and physical chemistry”, Université Paris-Saclay, France
- 2014** Member of the organization committee for the workshop “Crystallography”, Ecole polytechnique
- 2015** **Coordination** of the organization for the workshop “Rare-earth elements”, Ecole polytechnique

REVIEWING ACTIVITIES

- 2015-** Regular reviewer for ANR, DOE and DFG national grants
- 2014** Member of the recruiting committee, X-ray diffraction junior engineer, CNRS
- 2015** Member of the recruiting committee, X-ray diffraction senior engineer, Ecole polytechnique
- 2011-** External member of 16 PhD committees and 1 habilitation committee.
- 2011-** Regular Reviewer for *J. Am. Chem. Soc.*, *Angew. Chem.*, *Chem. Sci.*, *Inorg. Chem.*, *Inorg. Chem. Front.*, *Organometallics*, *Chem. Eur. J.*, *Chem. Commun.* *Dalton Trans.*

MEMBERSHIP OF SCIENTIFIC SOCIETIES

- 2021-** **Founder and president of the Center for Rare Earth and Actinides Research (felements.fr)**, French scientific association
- 2015** Member of the French research network and association “Magnetism and magnetic commutation”
- 2012-2015** Member of the European research network “f-block chemistry” (COST-1006)
- 2009-** Member of the American Chemical Society (ACS)
- 2006-** Member of the French Society of Chemistry (SCF)

MAJOR ON-GOING COLLABORATIONS

USA

Prof. Henry La Pierre, **Georgia Tech, Atlanta, USA**, Uranium and transuranic f-organometallics ([ERC PhiBond](#))

Dr. Stefan Minasian, **LBNL, USA**, Quantum bits with actinides ([France-Berkeley Funds](#))

Prof. Thomas Gianetti, **University of Arizona, USA**, Planar triangular ligands for quantum technologies ([IEA CNRS](#))

Europe

Prof. Corinna Hess, **Technische Universität München, Allemagne**, Heterometallic complexes for small molecule activation ([ERC LanAsCat](#))

Prof. Peter Roesky, **Karlsruhe Institute of Technology, Allemagne**, Chemistry of the Cyclopentadienyl ligand ([ANR RelaxMax](#))

Prof. Kasper Pedersen, **DTU, Danemark**, Conducting assemblies with divalent lanthanides ([Alliance](#))

Prof. Marc Walter, **Technische Universität Braunschweig**, Molecular materials for spin transitions

France

Prof. Olivier Cador, ISCR, **Université de Rennes, CNRS France**, Single-Molecules Magnets ([ANR RelaxMax](#))

Dr. Boris Le Guennic, ISCR, **Université de Rennes, CNRS France**, Theoretical calculations on Single-Ion Magnets ([ANR RelaxMax](#))

Dr. Olivier Maury, **ENS Lyon**, CNRS, France, *Optical spectroscopy of lanthanides complexes* ([ANR ReDivaLan](#))

Prof. Laurent Maron, **INSA Toulouse**, France, *Theoretical calculations for small molecules activation* ([ANR ReDivaLan](#), [ERC PhiBond](#))

Dr. Carine Clavaguéra, **Université Paris-Saclay**, CNRS, France, *Theoretical calculations – dynamics of lanthanides complexes* ([ANR ReDivaLan](#), [ANR RelaxMax](#), [ERC LanAsCat](#), [ERC PhiBond](#))

Dr. Mohamed Mellah, **Université Paris-Saclay**, Samarium complexes for chiral catalysis ([Labex CHARMMMAT](#))

Laboratory

Dr. Grégory Danoun, **Ecole polytechnique**, CNRS, France, Photocatalysis, wastes valorization ([Projet AID](#), [ERC PhiBond](#))

Dr. Thomas Simler, **Ecole polytechnique**, CNRS, France, Small molecules activation, CO₂ captation