

Céline CHIZALLET

IFP Energies nouvelles -Lyon

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Date of birth : 01/10/1980 (37 years old), French

Married, two children (twins, born in 2012)



PROJECT LEADER AT IFP ENERGIES NOUVELLES

Education

- 2017** **Habilitation à Diriger des Recherches (HDR)**, to come (Sept.), *ENS-Lyon*.
- 2006** **PhD** (with honors), Inorganic Chemistry and Catalysis, *UPMC (Paris 6)*.
- 2003** **“Agrégation”** in Chemistry and Physics. Rank (national) : 2.
- 2002** **MSc** in Inorganic Chemistry (with honors), *Ecole Normale Supérieure (Paris) and UPMC*.
- 2001** **BSc** (with honors) in Chemistry, *Ecole Normale Supérieure (Paris) and UPMC (Paris 6)*.

Research activities and collective duties

- 2014-present** **Project leader, IFP Energies nouvelles** : fundamental research program at IFPEN aiming at the prediction of catalytic performance and reaction mechanisms elucidation, thanks to *ab initio* calculations and experiments.
- 2014-2017** **President of GECAT (Groupe d'Etude sur la Catalyse)**, thematic group of the French Chemical Society, in charge of the organization of the annual French catalysis conference (<http://www.gecat.fr>). Co-founder and co-chair of the international event FCCat 2016 (French Conference on Catalysis, <http://fccat.sciencesconf.org/>).
- 2007-present** **Research Scientist in molecular simulation, IFP Energies nouvelles – Lyon, France**
Catalysis and Separation Division, Catalysis by Metals and Acido-Basic solids Department. Co-supervisor of 7 defended PhD thesis since 2007 (6 on-going), 3 post-docs and visiting scientists, 5 Master students. Co-organization of two international workshops “Rencontres scientifiques”. Participation at 2 projects funded by ANR (SIRE, SLIMCAT).
- 2006-2007** **Research Scientist in molecular simulation, IFP, Rueil-Malmaison, France**
Chemistry and Applied Physical Chemistry Division, Thermodynamic and Molecular Modeling Department (*with Pascal Raybaud, Hervé Toulhoat*).
- 2003-2006** **PhD thesis, Laboratoire de Réactivité de Surface, UMR 7609-CNRS, Paris 6 University**,
Supervision : Prof. Michel Che (with Prof. Hélène Lauron-Pernot, Guylène Costentin, and Philippe Sautet – Ecole Normale Supérieure de Lyon). Participation at one project funded by ANR (Basicat).

Awards

- 2016** **Young scientist award of the Physical Chemistry division of SCF (French Chemical Society)**, conferred annually to a young researcher (< 40) for outstanding results in Physical Chemistry (<http://www.societechimiquedefrance.fr/Laureats-898>).
- 2015** **Edith Flanigen Award 2015**, conferred annually by the CRC 1109 (Germany) to an exceptional female scientist at an early stage of her career for outstanding results on metal oxide water systems. (https://www.chemie.hu-berlin.de/de/forschung/sfb1109/flanigen_award/efa2015)
- 2014** **Best presentation award**, for a short communication given in a symposium at FEZA 2014, Leipzig.

Teaching activities

- 2011-2014** *Examiner* in Chemistry for the entrance competitive examination at *ENS-Ecole Polytechnique-ESPCI*.
- 2008-present** *Examiner (general chemistry) and Lecturer (Catalysis) at ENS-Lyon*, preparation center for the 'Agrégation' (competitive exam to become teacher in France). 8 to 16 h / year.
- 2004-2006** *Lecturer at Paris 6 University and Ecole Normale Supérieure (Paris)*. General Chemistry, Inorganic Chemistry Thermodynamics. 64 h / year.
- 2003-2006** *Examiner at Henri IV High School (Paris)*. Physics and Chemistry.
- 2003-present** 'Agrégée' of Chemistry and Physics.

Scientific production

- **62 articles in peer-reviewed journals:** h=24, 1608 citations (WOS, 7/23/17), <http://orcid.org/0000-0001-5140-8397>

Number of articles in Journal with Impact Factor superior to 3:

Number	Journal	2015 IF	Number	Journal	2015 IF
4	J. Am. Chem. Soc.	13.038	7	ChemCatChem	4.724
4	Angew. Chem. Int. Ed.	11.709	10	J. Phys. Chem. C (+former B)	4.509
4	ACS Catal.	9.307	3	Phys. Chem. Chem. Phys.	4.449
1	J. Phys. Chem. Lett.	8.539	2	Appl. Catal. A	4.012
7	J. Catal.	7.354	2	Catal. Today	4.312
1	Chem. Commun.	6.567	1	Phys. Rev. B	3.718
1	Chem. Eur. J.	5.771	1	Microporous Mes. Mater.	3.349
1	Catal. Sci. Technol.	5.287	2	ChemPhysChem	3.138

- **Guest editor activity:** one special issue of Comptes Rendus de Chimie, one of ChemCatChem (2017)
 - **2 patents**
 - **1 book chapter** (In : "*Catalysis by Transition Metal Sulfides: from molecular theory to industrial applications*", Toulhoat H., Raybaud P., Technip Editions, 2013)
 - **Communications in seminars and conferences**
- *Upon invitation:* 16 international invitations, 2 plenary talks in French-speaking conferences, 11 invitations in French-speaking workshops and seminars.
- *Upon submission of abstract:*
- 6 international talks (co-author of 45 talks given by collaborators), 3 international flash communications (co-author of 2 flash communications given by collaborators), 14 posters in international conferences (co-author of 26 posters presented by collaborators).
 - 5 orals in French-speaking conferences (co-author of 9 given by collaborators), 5 posters in French-speaking conferences (co-author of 9 presented by collaborators).

Evaluation of PhD students

- **Member of the jury of 9 PhD theses since 2014**
- **Examiner for on-going theses, in the framework of the European Joint Doctorate-TCCM (Theoretical Chemistry and Computational Modelling) doctoral training program** (https://emtccm.qui.uam.es/?page_id=869): evaluation of 15 PhD students at the occasion of the EJD-TCCM annual meetings, 2016 in Paris and 2017 in Leuven.
- **Examiner for four on-going theses, in the framework of the doctoral school of chemistry of Lyon.**