

Christine Giorgetti

CNRS RESEARCHER

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| RG Christine_Giorgetti

Education

PhD Thesis (Physics)

1991-1994

LABORATOIRE POUR L'UTILISATION DU RAYONNEMENT ELECTROMAGNÉTIQUE, ORSAY

France

Thesis: "X-Rays magnetic circular dichroism at $L_{II,III}$ edges of Rare Earths."

Marks: "Très honorable avec félicitations du Jury."

Student of Ecole Normale Supérieure de Cachan

1987-1991

MAGISTÈRE DE PHYSIQUE D'ORSAY, FRANCE

France

1988 : Licence de physique fondamentale (Orsay), France

1989 : Maîtrise de physique fondamentale (Orsay), France

1991 : D. E. A. de physique quantique (Paris VI - ENS Ulm), France

1990 : Agrégation de Physique

Research Positions

Researcher at CNRS

2005-present

ÉCOLE POLYTECHNIQUE, LABORATOIRE DES SOLIDES IRRADIÉS, PALAISEAU

France

Description of absorption or electron energy loss spectra, within ab initio framework ; particular interest for low dimensional systems.

Researcher at CNRS

1994-2004

UNIVERSITÉ D'ORSAY, LABORATOIRE POUR L'UTILISATION DU RAYONNEMENT ELECTROMAGNÉTIQUE, ORSAY

France

Study of magnetic properties of rare earths and 3d-transition metal alloys by X-ray magnetic circular dichroism.

Phd Thesis

1991-1994

UNIVERSITÉ D'ORSAY, LABORATOIRE POUR L'UTILISATION DU RAYONNEMENT ELECTROMAGNÉTIQUE, ORSAY

France

Responsabilities

In charge of group's projects for calculation time at GENCI and CCRT

2017-present

Electronic Spectroscopy of materials : ab initio calculations

In charge of group's projects for calculation time at CCRT

2004-2016

Electronic Spectroscopy of materials : ab initio calculations

Referee for international ANR-DBG project

2016

Referee for international journals

1994-present

Physical Review B and Letters, etc.

In charge of an industrial project

2010

In charge of a PHC Galileo project

2007

Franco-italian collaboration with PR. S. Ossicini at University of Modena et Reggio Emilia

Member of ETSF-I3 project (FP7)

2006-2011

WP "Foresight for Improvement", more specifically in charge social issues

Member of Conseil de Laboratoire of LURE

1998-2003

In charge of the seminars of LURE

1996-2003

Co-supervisor of the experimental beamline Dispersive-EXAFS at LURE

1996-2003

Languages

French (native language), English (fluent), German (scolar).

Teaching and scientific management

University lectures (Assistante Monitrice Normalienne during PhD Thesis)

1991-1994

ORSAY UNIVERSITY, ORSAY

France

Tutorials of Classical Mechanics (L1)

Practicals of Optics and Electricity (L1)

Training

1999-2004

LURE, ORSAY UNIVERSITY, ORSAY

France

Practicals of XMCD in the framework of european school HERCULES

Tutorials of XMCD: initiation to calculations (LMTO (M. Alouani's code), XMCD Hard-Xrays (Ch. Brouder's code), Multiplets (T. Thole's code)] of the PhD-students doing XMCD experiment on the Dispersive-EXAFS beamline

Scientific Management

2004-present

LSI, ECOLE POLYTECHNIQUE, PALAISEAU

France

3 co-supervisions of PhD thesis

2 supervisions of post-doctoral researchers

Publications :: 44 (h-index 23)

A full list of publications (a total of 44 papers, cited over than 1600 times, and a H-index of 23, according to [Web Of Science](#)) is available on [ResearchID](#).

Five selected publications:

Dielectric properties of graphene/MoS₂ heterostructures from ab initio calculations and electron energy-loss experiments

Michael J. Mohn, Ralf Hambach, Philipp Wachsmuth, Christine Giorgetti, and Ute Kaiser, Phys. Rev. B **97**, 235410 (2018).

Ab initio description of second-harmonic generation from crystal surfaces

Nicolas Tancogne-Dejean, Christine Giorgetti and Valérie Véniard, Phys. Rev. B **94**, 125301-15 (2016).

Exciton Band Structure in Two-Dimensional Materials

Pierluigi Cudazzo, Lorenzo Sponza, Christine Giorgetti, Lucia Reining, Francesco Sottile and Matteo Gatti, Physical Review Letter **116**, 066803-6 (2016).

Optical properties of surfaces with supercell ab initio calculations: Local-field effects

Nicolas Tancogne-Dejean, Christine Giorgetti and Valérie Véniard, Physical Review B **92**, 245308-10 (2015).

Linear plasmon dispersion in single-wall carbon nanotubes and the collective excitation spectrum of graphene

C. Kramberger, R. Hambach, C. Giorgetti, M. H. Rümmeli, M. Knupfer, J. Fink, B. Büchner, L. Reining, E. Einarsson, S. Maruyama, F. Sottile, K. Hannewald, V. Olevano, A. G. Marinopoulos and T. Pichler, Phys. Rev. Lett. **100**, 196803-4 (2008).