



MARIE SKŁODOWSKA-CURIE POSTDOCTORAL FELLOWSHIPS 2021
EXPRESSION OF INTEREST FOR HOSTING MARIE CURIE FELLOWS

HOST INSTITUTION

NOVA University Lisbon | School of Science and Technology
CEFITEC – Centre of Physics and Technological Research

RESEARCH GROUP AND URL

Atomic and Molecular Collisions
<https://www.cefitec.fct.unl.pt/our-research-groups>

SUPERVISOR (NAME AND E-MAIL)

Filipe Ferreira da Silva
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SHORT CV OF THE SUPERVISOR

Actual Position

Since 2018 - Assistant Professor
Department of Physics, NOVA School of Science and Technology, Universidade Nova de Lisboa, PT

Education

2009 Doctor in Physics, Atomic and Molecular Physics, Universität Innsbruck, Austria

Publications

117 publications in refereed articles in international journals (98 without PhD supervisor)
2 book chapters; > **150** abstracts at international conferences
25 oral presentations at international conferences and seminars (15 as invited speaker)
h-index: **20** Number of citations: > **1000**

Supervising

3 Post-Doc researchers, 7 PhD students (2 under sandwich program Portugal Brazil and 2 on going) and 17 MSc students (3 ongoing)

Management activities

- Vice-coordinator of CEFITEC since 2019
- Chair of CELINA 2017 annual meeting, Porto, Portugal, 2017
- Member of CEFITEC (Centre of Physics and Technological Research) Coordinating Board
- General Committee Member of ICPEAC 2013- 2017
- Local Committee of POSMOL 2015 co-chair, Lisbon, 14th – 20th July 2015
- Local Committee of annual meeting COST Action TD 1208, Lisbon, 10th – 13th March 2014
- Local organising team JECR 2012, Sines Portugal
- Chairman of Young Scientist Symposium, ITS LEIF, Barcelona, Spain, 15-22 May 2009

[Filipe Ferreira da Silva webpage](#)

5 SELECTED PUBLICATIONS

[1] - J. Pereira-da-Silva, R. Rodrigues, J. Ramos, C. Brígido, A. Botnari, M. Silvestre, J. Ameixa, M. Mendes, F. Zappa, S. J. Mullock, J. M. M. Araújo, M. T. do N. Varela, L. M. Cornetta, **F. Ferreira da Silva**

Journal of the American Society for Mass Spectrometry, 32, (2021), 1459-1468

[2] - **F. Ferreira da Silva***, R. M. thorman, R. Bjornsson, H. Lu, L. McElwee-White, and O. Ingolfsson
Phys. Chem. Chem. Phys., 22, (2020), 6100-6108

[3] - M. Neustetter, J. Aysina, **F. Ferreira da Silva*** and S. Denifl
Angewandte Chem. Int. Ed, 54, (2015), 9124-9126 IF: 11.261; corresponding author

[4] - D. Almeida, **F. Ferreira da Silva**, G. Garcia and P. Limao-Vieira
Phys. Rev. Lett., 110, (2013), 023201 IF: 7.512; n° citations: 15

[5] - **F. Ferreira da Silva**, P. Bartl, S. Denifl, O. Echt, T. D. Maerk, and P. Scheier
Phys. Chem. Chem. Phys, 42, (2009) 9791-9797 IF: 4.493; n° citations: 15; PCCP cover
Member of Portuguese and Spanish funded projects (~ 680 k€); Principal investigator of FCT-MCTES, bilateral and European facilities projects;

PROJECT TITLE AND SHORT DESCRIPTION

Low energy electron driven reactions for biological applications

The aim of this project is to study and understand electron driven reactions in gas phase, for biological applications, such as pharmaceutical applications. The research to be carried out under this project will be developed in electron molecule crossed beam apparatus. In brief this apparatus consists in a trochoidal electron monochromator, coupled with orthogonal reflectron time of flight. Radiosensitizers drugs are under our interest, in order to understand how low energy electron interact with those compounds and with reactions are open upon electron capture. Theoretical support from University of São Paulo, Brazil.

SCIENTIFIC AREA WHERE THE PROJECT FITS BEST*

Chemistry (CHE)
Physics (PHY)