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## Qualifications

Physics, Doctorate, Leopold Franzens Universität Innsbruck  
6 Oct 2007 → 19 Oct 2009

## Employment

### Assistant Professor

DF – Departamento de Física  
Universidade NOVA de Lisboa  
Portugal  
19 Dec 2018 → present

## Research outputs

- Revisiting the photoabsorption spectrum of NH<sub>3</sub> in the 5.4-10.8 eV energy region**  
Limão-Vieira, P., Jones, N. C., Hoffmann, S. V., Dufлот, D., Mendes, M., Lozano, A. I., Ferreira Da Silva, F., García, G., Hoshino, M. & Tanaka, H., 14 Nov 2019, In : Journal of Chemical Physics. 151, 18, 184302.
- The role of electron transfer in the fragmentation of phenyl and cyclohexyl boronic acids**  
Lozano, A. I., Pamplona, B., Kilich, T., Łabuda, M., Mendes, M., Pereira-Da-Silva, J., García, G., Góis, P. M. P., da Silva, F. F. & Limão-Vieira, P., 2 Nov 2019, In : International Journal of Molecular Sciences. 20, 22, 5578.
- Decomposition of protonated ronidazole studied by low-energy and high-energy collision-induced dissociation and density functional theory**  
Pandeti, S., Ameixa, J., Khreis, J. M., Feketeová, L., Chirof, F., Reddy, T. J., Abdoul-Carime, H., Ferreira Da Silva, F., Denifl, S., O'hair, R. A. J., Farizon, B., Farizon, M. & Märk, T. D., 28 Oct 2019, In : Journal of Chemical Physics. 151, 16, 164306.
- A dynamical (e,2e) investigation into the ionization of the outermost orbitals of R-carvone**  
Jones, D. B., Ali, E., Ning, C. G., Ferreira Da Silva, F., Ingólfsson, O., Lopes, M. C. A., Chakraborty, H. S., Madison, D. H. & Brunger, M. J., 28 Sep 2019, In : Journal of Chemical Physics. 151, 12, 124306.
- Experimental and theoretical analysis for total electron scattering cross sections of benzene**  
Costa, F., Álvarez, L., Lozano, A. I., Blanco, F., Oller, J. C., Muñoz, A., Barbosa, A. S., Bettega, M. H. F., Ferreira Da Silva, F., Limão-Vieira, P., White, R. D., Brunger, M. J. & García, G., 28 Aug 2019, In : Journal of Chemical Physics. 151, 8, 084310.
- Theoretical and experimental cross sections for electron scattering from halothane**  
Maioli, L. S., Bettega, M. H. F., Blanco, F., García, G., Lange, E., Limão-Vieira, P. & Ferreira da Silva, F., 1 Aug 2019, In : European Physical Journal D. 73, 8, 181.
- Electron-Induced Reactions in 3-Bromopyruvic Acid**  
Ferreira da Silva, F., Márcio, M. T., Jones, N. C., Vrønning Hoffmann, S., Denifl, S., Bald, I. & Kopyra, J., 11 Apr 2019, In : Chemistry - A European Journal. 25, 21, p. 5498-5506 9 p.
- Ion-pair formation in neutral potassium-neutral pyrimidine collisions: Electron transfer experiments**  
Mendes, M., Pamplona, B., Kumar, S., da Silva, F. F., Aguilar, A., García, G., Bacchus-Montabonel, M. C. & Limão-Vieira, P., Apr 2019, In : Frontiers in Chemistry. 7, APR, 264.
- Electronic structure and VUV photoabsorption measurements of thiophene**  
Jones, D. B., Mendes, M., Limão-Vieira, P., Silva, F. F. D., Jones, N. C., Hoffmann, S. V. & Brunger, M. J., 14 Feb 2019, In : Journal of Chemical Physics. 150, 6, 064303.
- The lowest-lying electronic states of isoflurane and sevoflurane in the 5.0–10.8eV energy range investigated by experimental and theoretical methods**  
Lange, E., Ferreira da Silva, F., Jones, N. C., Hoffmann, S. V., Dufлот, D. & Limão-Vieira, P., 1 Feb 2019, In : Chemical Physics Letters. 716, p. 42-48 7 p.
- Low-energy electron-induced decomposition of 5-trifluoromethanesulfonyl-uracil: A potential radiosensitizer**  
Ameixa, J., Arthur-Baidoo, E., Meißner, R., Makurat, S., Kozak, W., Butowska, K., Ferreira Da Silva, F., Rak, J. & Denifl, S., 28 Oct 2018, In : Journal of Chemical Physics. 149, 16, 164307.
- Probing the Lowest-Lying Electronic States of Acrylic Acid by Experimental and Theoretical Methods**  
Mendes, M., Barbosa, A. S., Ferreira Da Silva, F., Jones, N. C., Hoffmann, S. V., García, G., Bettega, M. H. F. & Limão-Vieira, P., 18 Oct 2018, In : Journal of Physical Chemistry A. 122, 41, p. 8191-8197 7 p.

13. **Total electron scattering cross section from sevoflurane by 1–300eV energy electron impact**  
Lozano, A. I., da Silva, F. F., Blanco, F., Limão-Vieira, P. & García, G., 16 Aug 2018, In : Chemical Physics Letters. 706, p. 533-537 5 p.
14. **Magnetically confined electron beam system for high resolution electron transmission-beam experiments**  
Lozano, A. I., Oller, J. C., Krupa, K., Ferreira Da Silva, F., Limão-Vieira, P., Blanco, F., Muñoz, A., Colmenares, R. & García, G., 1 Jun 2018, In : Review of Scientific Instruments. 89, 6, 063105.
15. **Total electron scattering cross section from pyridine molecules in the energy range 10–1000eV**  
Dubuis, A. T., Costa, F., da Silva, F. F., Limão-Vieira, P., Oller, J. C., Blanco, F. & García, G., 1 May 2018, In : Chemical Physics Letters. 699, p. 182-187 6 p.
16. **Experimental and theoretical electron-scattering cross-section data for dichloromethane**  
Krupa, K., Lange, E., Blanco, F., Barbosa, A. S., Pastega, D. F., Sanchez, S. DA., Bettega, M. H. F., García, G., Limão-Vieira, P. & Ferreira Da Silva, F., 10 Apr 2018, In : Physical Review A. 97, 4, 042702.
17. **Electron transfer driven decomposition of adenine and selected analogs as probed by experimental and theoretical methods**  
Cunha, T., Mendes, M., Ferreira Da Silva, F., Eden, S., García, G., Bacchus-Montabonel, M. C. & Limão-Vieira, P., 7 Apr 2018, In : Journal of Chemical Physics. 148, 13, 134301.
18. **Electron-impact electronic-state excitation of para -benzoquinone**  
Jones, D. B., Costa, R. F. D., Kossoski, F., Varella, M. T. D. N., Bettega, M. H. F., Ferreira da Silva, F., Limão-Vieira, P., García, G., Lima, M. A. P., White, R. D. & Brunger, M. J., 28 Mar 2018, In : Journal of Chemical Physics. 148, 12, 124312.
19. **Communication: Site-selective bond excision of adenine upon electron transfer**  
Cunha, T., Mendes, M., Ferreira Da Silva, F., Eden, S., García, G. & Limão-Vieira, P., 14 Jan 2018, In : Journal of Chemical Physics. 148, 2, 021101.
20. **Total electron scattering cross sections from: para -benzoquinone in the energy range 1-200 eV**  
Lozano, A. I., Oller, J. C., Jones, D. B., Costa, R. F. D., Varella, M. T. D. N., Bettega, M. H. F., Silva, F. F. D., Limão-Vieira, P., Lima, M. A. P., White, R. D., Brunger, M. J., Blanco, F., Muñoz, A. & García, G., 1 Jan 2018, In : Physical Chemistry Chemical Physics. 20, 34, p. 22368-22378 11 p.
21. **Interactions of low-energy electrons with the FEBID precursor chromium hexacarbonyl (Cr(CO)<sub>6</sub>)**  
Khreis, J. M., Ameixa, J., da Silva, F. F. & Denifl, S., 4 Dec 2017, In : Beilstein Journal of Nanotechnology. 8, p. 2583-2590 8 p.
22. **Comprehensive investigation of the electronic excitation of W(CO)<sub>6</sub> by photoabsorption and theoretical analysis in the energy region from 3.9 to 10.8 eV**  
Mendes, M., Regeta, K., da Silva, F. F., Jones, N. C., Hoffmann, S. V., García, G., Daniel, C. & Limão-Vieira, P., 23 Oct 2017, In : Beilstein Journal of Nanotechnology. 8, 1, p. 2208-2218 11 p.
23. **Low energy electron transport in furfural**  
Lozano, A. I., Krupa, K., Ferreira da Silva, F., Limão-Vieira, P., Blanco, F., Muñoz, A., Jones, D. B., Brunger, M. J. & García, G., Sep 2017, In : European Physical Journal D. 71, 9, 226.
24. **Dissociative electron attachment to 3-bromopyruvic acid**  
Ferreira Da Silva, F., Denifl, S., Bald, I. & Kopyra, J., 18 Aug 2017, In : Journal of Physics: Conference Series. 875, 7, 062042.
25. **Elastic Differential Cross Sections for Electron Scattering with Dichloromethane**  
Lange, E., Krupa, K., Ameixa, J., Barbosa, A. S., Pastega, D. F., Limão-Vieira, P., Bettega, M. H. F., Blanco, F. J., García, G. & Ferreira Da Silva, F., 18 Aug 2017, *30th International Conference on Photonic, Electronic, and Atomic Collisions, ICPEAC 2017*. Kheifets, A., Bray, A., Hodgman, S. & Machacek, J. (eds.). Bristol: IOP Publishing Ltd., 062036. (Journal of Physics: Conference Series; vol. 875, no. 7).
26. **Electron transfer processes in potassium collision with nitroimidazoles: the role of methylation at N1 site**  
Mendes, M., Ferreira Da Silva, F., Garcia, G. & Limao-Vieira, P., 18 Aug 2017, In : Journal of Physics: Conference Series. 875, 6, 052035.
27. **Electron-transfer studies in potassium collisions with tetrachloromethane**  
Regeta, K., Cunha, T., Ferreira Da Silva, F., Garcia, G. & Limao-Vieira, P., 18 Aug 2017, In : Journal of Physics: Conference Series. 875, 11, 102015.
28. **Pt(CO)<sub>2</sub>Cl<sub>2</sub> fragmentation upon low energy electron interactions**  
Ferreira Da Silva, F., Thorman, R., Lu, H., McElwee-White, L. & Ingólfsson, O., 18 Aug 2017, In : Journal of Physics: Conference Series. 875, 7, 2 p., 062035.
29. **Electron scattering cross section data for tungsten and beryllium atoms from 0.1 to 5000 eV**  
Blanco, F., Silva, F. F. D., Limao-Vieira, P. & Garcia, G., 18 Jul 2017, In : Plasma Sources Science & Technology. 26, 8, 085004.
30. **Unravelling the dissociation pathways of acetic acid upon electron transfer in potassium collisions: Experimental and theoretical studies**  
Meneses, G., Widmann, C., Cunha, T., Gil, A., Ferreira Da Silva, F., Calhorda, M. J. & Limão-Vieira, P., 1 Jan 2017, In : Physical Chemistry Chemical Physics. 19, 2, p. 1083-1088 6 p.

31. **Low-energy electron interactions with chromium hexacarbonyl Cr(CO)<sub>6</sub>**  
Khreis, J., Ameixa, J., Neustetter, M., Reitshammer, J., Ferreira Da Silva, F. & Denifl, S., 2017, In : Journal of Physics: Conference Series. 875, 7, 062003.
32. **Valence and Rydberg Excitations of 2,4-and 2,6-Difluorotoluene as Studied by Vacuum Ultraviolet Synchrotron Radiation and ab Initio Calculations**  
Barbosa, A. S., Silva, F. F. D., Rebelo, A., Hoffmann, S. V., Bettega, M. H. F. & Limao-Vieira, P., 17 Nov 2016, In : Journal of Physical Chemistry A. 120, 45, p. 8998-9007 10 p.
33. **Side chain effects in reactions of the potassium-tyrosine charge transfer complex**  
Silva, F. F. D., Meneses, G., Ingólfsson, O. & Limão-Vieira, P., 1 Oct 2016, In : Chemical Physics Letters. 662, p. 19-24 6 p.
34. **Theoretical and experimental study on electron interactions with chlorobenzene: Shape resonances and differential cross sections**  
Barbosa, A. S., Varella, M. T. N., Sanchez, S. D. A., Ameixa, J., Blanco, F. J., García, G., Limão-Vieira, P., Silva, F. F. D. & Bettega, M. H. F., 28 Aug 2016, In : Journal of Chemical Physics. 145, 8, 084311.
35. **Valence and lowest Rydberg electronic states of phenol investigated by synchrotron radiation and theoretical methods**  
Limao-Vieira, P., Duflot, D., Silva, F. F. D., Lange, E., Jones, N. C., Hoffmann, S. V., Smialek, M. A., Jones, D. B. & Brunger, M. J., 21 Jul 2016, In : Journal of Chemical Physics. 145, 3, 034302.
36. **Kinetic-energy release distributions of fragment anions from collisions of potassium atoms with D-Ribose and tetrahydrofuran**  
Rebelo, A., Cunha, T., Mendes, M., da Silva, F. F., Garcia, G. & Limao-Vieira, P., 7 Jun 2016, In : European Physical Journal D. 70, 6, 130.
37. **Electron interactions with the focused electron beam induced processing (FEBID) precursor tungsten hexachloride**  
Neustetter, M., Silva, F. F. D. & Denifl, S., 15 May 2016, In : Rapid Communications in Mass Spectrometry. 30, 9, p. 1139-1144 6 p.
38. **Measuring electron-impact cross sections of water: elastic scattering and electronic excitation of the (a)over-tilde(3)B(1) and (A)over-tilde(1)B(1) states**  
Matsui, M., Hoshino, M., Kato, H., Silva, F. F. D., Limao-Vieira, P. & Tanaka, H., 7 Apr 2016, In : European Physical Journal D. 70, 4, 77.
39. **Combined experimental and theoretical study on the differential elastic scattering cross sections for acetone by electron impact energy of 7.0-50 eV**  
Pastega, D. F., Lange, E., Ameixa, J., Barbosa, A. S., Blanco, F., Garcia, G., Bettega, M. H. F., Limão-Vieira, P. & Silva, F. F. D., 16 Mar 2016, In : Physical Review A. 93, 3, 032708.
40. **Electronic excitation of furfural as probed by high-resolution vacuum ultraviolet spectroscopy, electron energy loss spectroscopy, and ab initio calculations**  
Silva, F. F. D., Lange, E., Limão-Vieira, P., Jones, N. C., Hoffmann, S. V., Hubin-Franskin, M. J., Delwiche, J. P., Brunger, M. J., Neves, R. F. C., Lopes, M. C. A., Silva, M. J. O. E., Costa, R. F. D., Varella, M. T. N., Bettega, M. H. F., Blanco, F. J., García, G. A., Lima, M. A. P. & Jones, D. B., 14 Oct 2015, In : Journal of Chemical Physics. 143, 14, 144308.
41. **Complex internal rearrangement processes triggered by electron transfer to acetic acid**  
Limão-Vieira, P., Meneses, G., Cunha, T., Gil, A., Calhorda, M. J., García, G. A. & Da Silva, F. F., 7 Sep 2015, *XXIX International Conference on Photonic, Electronic and Atomic Collisions (ICPEAC 2015)*. Mendez, L., Diaz, C., Rabadan, I., Garcia, G. & Martin, F. (eds.). Bristol, UK: IOP Publishing Ltd., Vol. Pts. 1-12. 012002. (Journal Of Physics: Conference Series; vol. 635, no. 1).
42. **Electron induced fragmentation of sulphur containing biological prototypes: Thiaproline and taurine**  
Lange, E., Meneses, G., Cunha, T., Krasuska, J., Kopyra, J., García, G., Silva, F. F. D. & Limão-Vieira, P., 7 Sep 2015, *XXIX International Conference on Photonic, Electronic and Atomic Collisions (ICPEAC 2015)*. Mendez, L., Diaz, C., Garcia, G., Martin, F. & Rabadan, I. (eds.). Bristol, UK: IOP Publishing Ltd., 072069. (Journal Of Physics: Conference Series; vol. 635, no. 7).
43. **Modeling secondary particle tracks generated by high-energy protons in water**  
Blanco, F. J., Muñoz, A., Almeida, D., Silva, F. F. D., Limão-Vieira, P., Verkhovtsev, A., Ellis-Gibbings, L., Krupa, K., Traore, A. & García, G., 7 Sep 2015, *XXIX International Conference on Photonic, Electronic and Atomic Collisions (ICPEAC 2015)*. Martin, F., Rabadan, I., Diaz, C., Garcia, G. & Mendez, L. (eds.). Bristol, UK: IOP Publishing Ltd., Vol. Pts 1-12. 032092. (Journal Of Physics: Conference Series; vol. 635, no. 3).
44. **Toluene Valence and Rydberg Excitations as Studied by ab initio Calculations and Vacuum Ultraviolet (VUV) Synchrotron Radiation**  
Serralheiro, C., Duflot, D., Da Silva, F. F., Hoffmann, S. V., Jones, N. C., Mason, N. J., Mendes, B. & Limão-Vieira, P., 27 Aug 2015, In : Journal of Physical Chemistry A. 119, 34, p. 9059-9069 11 p.
45. **Novel experimental setup for time-of-flight mass spectrometry ion detection in collisions of anionic species with neutral gas-phase molecular targets**  
Oller, J. C., Ellis-Gibbings, L., Ferreira da Silva, F., Limao-Vieira, P. & Garcia, G., 21 Aug 2015, In : EPJ TECHNIQUES AND INSTRUMENTATION. 2, 13.

46. **Electronic State Spectroscopy of Halothane As Studied by ab Initio Calculations, Vacuum Ultraviolet Synchrotron Radiation, and Electron Scattering Methods**  
Da Silva, F. F., Dufлот, D., Hoffmann, S. V., Jones, N. C., Rodrigues, F. N., Ferreira-Rodrigues, A. M., Souza, G. G. B. D., Mason, N. J., Eden, S. & Limão-Vieira, P., 6 Aug 2015, In : Journal of Physical Chemistry A. 119, 31, p. 8503-8511 9 p.
47. **The Effect of Solvation on Electron Attachment to Pure and Hydrated Pyrimidine Clusters**  
Neustetter, M., Aysina, J., Silva, F. F. D. & Denifl, S., 27 Jul 2015, In : Angewandte Chemie-International Edition. 54, 31, p. 9124-9126 3 p.
48. **Crossed-beam experiment for the scattering of low- and intermediate-energy electrons from BF<sub>3</sub>: A comparative study with XF<sub>3</sub> (X = C, N, and CH) molecules**  
Hoshino, M., Limao-Vieira, P., Suga, A., Kato, H., Ferreira da Silva, F., Blanco, F., Garcia, G. A. & Tanaka, H., 14 Jul 2015, In : Journal of Chemical Physics. 143, 2, 024313.
49. **Dissociative excitation study of iron pentacarbonyl molecule Topical Issue**  
Ribar, A., Danko, M., Országh, J., Ferreira Da Silva, F., Utke, I. & Matejčík, Š., 18 Apr 2015, In : European Physical Journal D. 69, 4, 117.
50. **Electronic excitation of carbonyl sulphide (COS) by high-resolution vacuum ultraviolet photoabsorption and electron-impact spectroscopy in the energy region from 4 to 11 eV**  
Limão-Vieira, P., Ferreira Da Silva, F., Almeida, D., Hoshino, M., Tanaka, H., Mogi, D., Tanioka, T., Mason, N. J., Hoffmann, S. V., Hubin-Franskin, M. J. & Delwiche, J. P., 14 Feb 2015, In : Journal of Chemical Physics. 142, 6, 064303.
51. **Einfluss der solvatisierung auf die elektronenanlagerung an pyrimidin**  
Neustetter, M., Aysina, J., da Silva, F. F. & Denifl, S., 1 Jan 2015, In : Angewandte Chemie - International Edition. 127, 31, p. 9252-9255 4 p.
52. **DEA to bare and water-solvated pyrimidine clusters**  
Neustetter, M., Aysina, J., da Silva, F. F. & Denifl, S., 2015, *XXIX INTERNATIONAL CONFERENCE ON PHOTONIC, ELECTRONIC, AND ATOMIC COLLISIONS (ICPEAC2015)*. Diaz, C., Rabadan, I., Garcia, G., Mendez, L. & Martin, F. (eds.). IOP Publishing Ltd., Vol. Pts. 1-12. 2 p. 072055. (Journal of Physics Conference Series; vol. 635, no. 7).
53. **Elastic differential cross sections for C<sub>4</sub>F<sub>6</sub> isomers in the 1.5-200 eV energy electron impact: Similarities with six fluorine containing molecules and evidence of F-atom like scattering**  
Hoshino, M., Limao-Vieira, P., Anzai, K., Kato, H., Cho, H., Mogi, D., Tanioka, T., Ferreira da Silva, F., Almeida, D., Blanco, F., Garcia, G., Ingolfsson, O. & Tanaka, H., 28 Sep 2014, In : Journal of Chemical Physics. 141, 12, 124302.
54. **Potassium-Uracil/Thymine Ring Cleavage Enhancement As Studied in Electron Transfer Experiments and Theoretical Calculations**  
Almeida, D., Bacchus-Montabonel, M. -C., Ferreira da Silva, F., Garcia, G. & Limao-Vieira, P., 21 Aug 2014, In : Journal of Physical Chemistry A. 118, 33(SI), p. 6547-6552 6 p.
55. **Anion formation in gas-phase potassium-uridine collisions**  
Almeida, D., da Silva, F. F., Kopyra, J., Garcia, G. & Limão-Vieira, P., 15 May 2014, In : International Journal of Mass Spectrometry. 365-366, p. 243-247 5 p.
56. **Clustering and condensation effects in the electron scattering cross sections from water molecules**  
Blanco, F., Munoz, A., Almeida, D., Ferreira da Silva, F., Limão-Vieira, P. & Garcia, G., 15 May 2014, In : International Journal of Mass Spectrometry. 365, SI, p. 287-294 8 p.
57. **Electron transfer to aliphatic amino acids in neutral potassium collisions**  
da Silva, F. F., Rafael, J., Cunha, T., Almeida, D. & Limao-Vieira, P., 15 May 2014, In : International Journal of Mass Spectrometry. 365, SI, p. 238-242 5 p.
58. **The role of side chains in electron transfer induced fragmentation of amino-acids**  
Ferreira da Silva, F., Rafael, J., Rebelo, A., Almeida, D. & Limao-Vieira, P., Apr 2014, *XXVIII INTERNATIONAL CONFERENCE ON PHOTONIC, ELECTRONIC AND ATOMIC COLLISIONS (ICPEAC)*. Vol. 488. (Journal of Physics Conference Series).
59. **New Fragmentation Pathways in K-THF Collisions As Studied by Electron-Transfer Experiments: Negative Ion Formation**  
Almeida, D., Ferreira da Silva, F., Eden, S., Garcia, G. & Limao-Vieira, P., 30 Jan 2014, In : Journal of Physical Chemistry A. 118, 4, p. 690-696 7 p.
60. **CNO- formation through selective bond cleavage**  
Ferreira da Silva, F., Almeida, D., Garcia, G. & Limão-Vieira, P., 2014, *XXVIII International Conference on Photonic, Electronic and Atomic Collisions (ICPEAC 2013)*. Bristol: IOP Publishing Ltd., 102018. (Journal of Physics Conference Series; vol. 488).
61. **Electron transfer induced fragmentation of acetic acid**  
Ferreira da Silva, F., Meneses, G., Almeida, D. & Limao-Vieira, P., 2014, *XXVIII International Conference on Photonic, Electronic and Atomic Collisions (ICPEAC 2013)*. Bristol, UK: IOP Publishing Ltd., 052020. (Journal of Physics Conference Series; vol. 488, no. Section 5).

62. **Negative ion chemistry of Deoxyribose and THF upon potassium atom collisions**  
Almeida, D., Ferreira da Silva, F., Garcia, G. & Limao-Vieira, P., 2014, *XXVIII International Conference on Photonic, Electronic and Atomic Collisions (ICPEAC 2013)*. Bristol, UK: IOP Publishing Ltd., 012043. (Journal of Physics Conference Series; vol. 488, no. Section 1).
63. **The role of side chains in electron transfer induced fragmentation of amino-acids**  
Ferreira da Silva, F., Rafael, J., Rebelo, A., Almeida, D. & Limao-Vieira, P., 2014, *28th International Conference on Photonic, Electronic and Atomic Collisions (ICPEAC 2013)*. Bristol, UK: IOP Publishing Ltd., 052021. (Journal of Physics Conference Series; vol. 488, no. Section 5).
64. **An investigation into electron scattering from pyrazine at intermediate and high energies**  
Sanz, A. G., Fuss, M. C., Blanco, F., Gorfinkiel, J. D., Almeida, D., Ferreira da Silva, F., Limao-Vieira, P., Brunger, M. J. & Garcia, G., 14 Nov 2013, In : *Journal of Chemical Physics*. 139, 18, 184310.
65. **NCO<sup>-</sup>, a key fragment upon dissociative electron attachment and electron transfer to pyrimidine bases: Site selectivity for a slow decay process**  
Silva, F. F. D., Matias, C., Almeida, D., Garcia, G., Ingólfsson, O., Flosadóttir, H. D., Ómarsson, B., Ptasinska, S., Puschnigg, B., Scheier, P., Limão-Vieira, P. & Denifl, S., 1 Nov 2013, In : *Journal Of The American Society For Mass Spectrometry*. 24, 11, p. 1787-1797 11 p.
66. **Modelling low energy electron and positron tracks in biologically relevant media**  
Blanco, F. J., Muñoz, A., Almeida, D., Silva, F. F. D., Limão-vieira, P. M. A. L., Fuss, M. C., Sanz, A. G. & García, G., 25 Sep 2013, In : *European Physical Journal D*. 67, 9, 199.
67. **Dynamic of negative ions in potassium-D-ribose collisions**  
Almeida, D., Ferreira da Silva, F., Garcia, G. & Limão-Vieira, P., 21 Sep 2013, In : *Journal of Chemical Physics*. 139, 11, 114304.
68. **N-site de-methylation in pyrimidine bases as studied by low energy electrons and ab initio calculations**  
Almeida, D., Kinzel, D., Silva, F. F. D., Puschnigg, B., Gschliesser, D., Scheier, P., Denifl, S., García, G., Limão-vieira, P. M. A. L. & González, L., 21 Jul 2013, In : *Physical Chemistry Chemical Physics*. 15, 27, p. 11431-11440 10 p.
69. **Studies of low-lying triplet states in 1,3-C<sub>4</sub>F<sub>6</sub>, c-C<sub>4</sub>F<sub>6</sub> and 2-C<sub>4</sub>F<sub>6</sub> by electron energy-loss spectroscopy and ab initio calculations**  
Limão-Vieira, P., Dufлот, D., Anzai, K., Kato, H., Hoshino, M., da Silva, F. F., Mogi, D., Tanioka, T. & Tanaka, H., 14 Jun 2013, In : *Chemical Physics Letters*. 574, p. 32-36 5 p.
70. **Dissociative Electron Attachment to the Nitroamine HMX (Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine)**  
Postler, J., Goulart, M. M., Matias, C., Mauracher, A., da Silva, F. F., Scheier, P., Limão-Vieira, P. & Denifl, S., May 2013, In : *Journal Of The American Society For Mass Spectrometry*. 24, 5, p. 744-752 9 p.
71. **Electron attachment to the dipeptide dialanine: influence of methylation on site selective dissociation reactions**  
Puschnigg, B., Huber, S. E., Probst, M., Tanzer, K., Vizcaino, V., da Silva, F. F., Scheier, P., Limao-Vieira, P. & Denifl, S., 21 Mar 2013, In : *Physical Chemistry Chemical Physics*. 15, 11, p. 3834-3840 7 p.
72. **Selective Bond Cleavage in Potassium Collisions with Pyrimidine Bases of DNA**  
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## Activities

### University of Iceland

Filipe Ferreira da Silva (Visiting researcher)  
2 Jan 2020 → 12 Jan 2020

### Flinders University

Filipe Ferreira da Silva (Visiting researcher)  
Jan 2018 → Feb 2018

## **Projects**

**Reacções químicas em compostos de boro iniciadas por interações com electrões de baixa energia**

Ferreira da Silva, F.

Fundação para a Ciência e a Tecnologia: €237,911.36

1/10/18 → 30/09/21

## **Fellowships and Prizes**

**"LEEPAR - Investigation of condensed-phase Low-Energy (0-30 eV) Electron induced Processes for application to Astrochemistry and Radiotherapy"**

Filipe Ferreira da Silva (Recipient), 2009

### **Young Scientist Award**

Filipe Ferreira da Silva (Recipient), 2009

**"Bond breaking and temporary anion states in amino acids in atom-molecule collisions: biological implications"**

Filipe Ferreira da Silva (Recipient), 2010

**Cross Sectional Data as Input for Simulations in Radiotherapy Dose Planning**

Filipe Ferreira da Silva (Recipient), 2015