

Sofia Pauleta
Researcher, Associate Professor
DQ - Departamento de Química
UCIBIO - Applied Molecular Biosciences Unit
Type of address: Postal address.
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Faculdade de Ciências e Tecnologia/UNL
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Personal information

Sofia R. Pauleta has finished her Ph.D. in Biochemistry-Biophysical Chemistry, in 2003 from the NOVA University of Lisbon. In 2007, after a post-doctoral fellowship under the co-supervision of Prof. Ivano Bertini and Prof. Paola Turano, at CERM, University of Florence (Italy) she returned to Portugal. She was awarded an Assistant Researcher position at REQUIMTE, followed by a IF-FCT-2013 researcher, a highly competitive program, as Principal Investigator, and in 2019 started the tenure-track position as Assistant Professor at FCT NOVA (teaching at the level of BSc, Master and PhD degree), and since 2022 is the Coordinator of Master degree in Biochemistry FCT NOVA.

Since 2009, after receiving her first independent research grant she started her own research lab, as PI of the Microbial Stress Lab@UCIBIO NOVA. At the moment, her team has 1 postdoctoral researcher (Junior researcher), 2 PhD students, 2 Master students (1 is an Erasmus student from Italy) and 2 undergraduate students.

Her lab uses *Neisseria gonorrhoeae*, *Escherichia coli* and *Staphylococcus aureus*, as model organisms. These bacteria are considered by CDC to be urgent health threats and are classified by WHO as high priority pathogens for R&D of new antibiotics; thus, Microbial Stress Lab aims to identify and characterize enzymes as new drug targets, which will have an impact on both the health care system and society. These enzymes are involved in detoxification of reactive oxygen species, metal resistance and alternative electron acceptors (nitrite and nitrate), which are essential during infection. In addition, her lab has been focusing on the contribution of these enzymes/protein to biofilm formation and on the identification of compounds with antimicrobial activity and anti-biofilm as possible inhibitors of these enzymes. Her lab has expertise in steady-state kinetics, spectroscopic techniques (visible, EPR, NMR, CD, resonance Raman), biomolecular NMR, microcalorimetry (ITC and DSC) and heterologous production of metalloproteins, biofilm formation and composition (*E. coli*, methicillin-resistant *S. aureus*).

Qualifications

Biochemistry, Doctorate, Electron transfer complexes between *Paracoccus pantotrophus* cytochrome c peroxidase and its electron donors, Universidade NOVA de Lisboa

1 Oct 1998 → 30 Sept 2002

Award Date: 7 Nov 2003

Biotechnology, Bachelor, Applied Chemistry, Faculdade de Ciências e Tecnologia (FCT)

1 Oct 1993 → 30 Jun 1998

Award Date: 30 Jun 1998

Employment

Associate Professor

DQ - Departamento de Química

Universidade NOVA de Lisboa

Portugal

18 Apr 2024 → present

Researcher

UCIBIO - Applied Molecular Biosciences Unit

Universidade NOVA de Lisboa

1 Jan 2015 → present

Assistant Professor

DQ - Departamento de Química

Universidade NOVA de Lisboa

Portugal

1 Jan 2019 → 17 Apr 2024

Principal Investigator

Researcher
DQ - Departamento de Química
Universidade NOVA de Lisboa
Portugal
1 Jan 2014 → 31 Dec 2018

Invited Researcher

Researcher
UCIBIO - Applied Molecular Biosciences Unit
Universidade NOVA de Lisboa
1 Nov 2012 → 31 Oct 2013

Assistant Researcher

Research Assistant
CQFB-REQUIMTE - Centro de Química Fina e Biotecnologia (Lab. Associado REQUIMTE)
Universidade NOVA de Lisboa
1 Oct 2007 → 1 Oct 2012

Research outputs

- Effect of pH on the thermostability and redox properties of cytochrome c552 from *Wolinella succinogenes***
Mordido, V. H., Carepo, M. S. P., Cordas, C. M., Paul, N., Simon, J., Moura, I. & Pauleta, S. R., 22 May 2024, In: *Frontiers in Chemical Biology*. 3, 11 p.
Research output: Contribution to journal › Article › peer-review
- Revisiting the metal sites of nitrous oxide reductase in a low-dose structure from *Marinobacter nauticus***
Pomowski, A., Dell'Acqua, S., Wüst, A., Pauleta, S. R., Moura, I. & Einsle, O., Apr 2024, In: *Journal of Biological Inorganic Chemistry*. 29, 3, p. 279 - 290 12 p.
Research output: Contribution to journal › Article › peer-review
- Biochemical Characterization of the Copper Nitrite Reductase from *Neisseria gonorrhoeae***
Barreiro, D. S., Oliveira, R. N. S. & Pauleta, S. R., 4 Aug 2023, In: *Biomolecules*. 13, 8, 15 p., 1215.
Research output: Contribution to journal › Article › peer-review
- Coordination of the N-Terminal Heme in the Non-Classical Peroxidase from *Escherichia coli***
Oliveira, R. N. S., Aguiar, S. R. M. M. D. & Pauleta, S. R., 7 Jun 2023, In: *Molecules*. 28, 12, 18 p., 4598.
Research output: Contribution to journal › Article › peer-review
- Bacterial peroxidases: Multivalent enzymes that enable the use of hydrogen peroxide for microaerobic and anaerobic proliferation**
Barreiro, D. S., Oliveira, R. N. S. & Pauleta, S. R., 1 Jun 2023, In: *Coordination Chemistry Reviews*. 485, p. 215114 18 p., 215114.
Research output: Contribution to journal › Article › peer-review
- Structural Characterization of *Neisseria gonorrhoeae* Bacterial Peroxidase—Insights into the Catalytic Cycle of Bacterial Peroxidases**
Nóbrega, C. S., Carvalho, A. L., Romão, M. J. & Pauleta, S. R., 26 Mar 2023, In: *International Journal of Molecular Sciences*. 24, 7, 21 p., 6246.
Research output: Contribution to journal › Article › peer-review
- Incorporation of a molybdenum atom in a Rubredoxin-type Centre of a de novo-designed α 3DIV-L21C three-helical bundle peptide**
Bragança, P. M. S., Carepo, M. S. P., Pauleta, S. R., Pinter, T., Elia, M., Cordas, C. M., Moura, I., Pecoraro, V. & Moura, J. J. G., Mar 2023, In: *Journal of Inorganic Biochemistry*. 240, p. 1-8 8 p., 112096.
Research output: Contribution to journal › Article › peer-review
- Iron-sulfur clusters: functions of an ancient metal site**
Pauleta, S. R., Grazina, R., Carepo, M. S. P., Moura, J. J. G. & Moura, I., 2023, *Comprehensive Inorganic Chemistry III*. Amsterdam: Elsevier, p. 105-173 69 p.
Research output: Chapter in Book/Report/Conference proceeding › Chapter › peer-review

9. **Photomodulation of ultrastable host-guest complexes in water and their application in light-controlled steroid release**
Máximo, P., Colaço, M., Pauleta, S. R., Costa, P. J., Pischel, U., Parola, A. J. & Basílio, N., 2022, In: Organic Chemistry Frontiers. 9, 16, p. 4238-4249 11 p.
Research output: Contribution to journal › Article › peer-review
10. **OrpR is a σ^{54} -dependent activator using an iron-sulfur cluster for redox sensing in *Desulfovibrio vulgaris* Hildenborough**
Fiévet, A., Merrouch, M., Basseur, G., Eve, D., Biondi, E. G., Valette, O., Pauleta, S. R., Dolla, A., Dermoun, Z., Burlat, B. & Aubert, C., Jul 2021, In: Molecular Microbiology. 116, 1, p. 231-244 14 p.
Research output: Contribution to journal › Article › peer-review
11. **Acrylamide-hemoglobin adduct: A spectroscopic study**
Favinha, A. G., Barreiro, D. S., Martins, J. N., O'Toole, P. & Pauleta, S. R., 5 Nov 2020, In: Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy. 241, 118644.
Research output: Contribution to journal › Article › peer-review
12. **The effect of pH on *Marinobacter hydrocarbonoclasticus* denitrification pathway and nitrous oxide reductase**
Carreira, C., Nunes, R. F., Mestre, O., Moura, I. & Pauleta, S. R., 1 Oct 2020, In: JBIC Journal of Biological Inorganic Chemistry. 25, 7, p. 927-940 14 p.
Research output: Contribution to journal › Article › peer-review
13. **Proton-coupled electron transfer mechanisms of the copper centres of nitrous oxide reductase from *Marinobacter hydrocarbonoclasticus* – An electrochemical study**
Carreira, C., dos Santos, M. M. C., Pauleta, S. R. & Moura, I., 1 Jun 2020, In: Bioelectrochemistry. 133, 107483.
Research output: Contribution to journal › Article › peer-review
14. **The Tetranuclear Copper-Sulfide Center of Nitrous Oxide Reductase**
Pauleta, S. R., Carepo, M. S. P. & Moura, I., 23 Mar 2020, In: Metal ions in life sciences. 20
Research output: Contribution to journal › Article › peer-review
15. **The bacterial Mrp_{ORP} is a novel Mrp/NBP35 protein involved in iron-sulfur biogenesis**
Pardoux, R., Fiévet, A., Carreira, C., Brochier-Armanet, C., Valette, O., Dermoun, Z., Py, B., Dolla, A., Pauleta, S. R. & Aubert, C., 1 Dec 2019, In: Scientific Reports. 9, 1, 712.
Research output: Contribution to journal › Article › peer-review
16. **YhjA - An *Escherichia coli* trihemic enzyme with quinol peroxidase activity**
Nóbrega, C. S., Devreese, B. & Pauleta, S. R., Jun 2018, In: Biochimica et Biophysica Acta - Bioenergetics. 1859, 6, p. 411-422 12 p.
Research output: Contribution to journal › Article › peer-review
17. **Interaction between *Neisseria gonorrhoeae* bacterial peroxidase and its electron donor, the lipid-modified azurin**
Nóbrega, C. S. & Pauleta, S. R., 1 May 2018, In: FEBS Letters. 592, 9, p. 1473-1483 11 p.
Research output: Contribution to journal › Letter › peer-review
18. **Genomic organization, gene expression and activity profile of *Marinobacter hydrocarbonoclasticus* denitrification enzymes**
Carreira, C., Mestre, O., Nunes, R. F., Moura, I. & Pauleta, S. R., 1 Jan 2018, In: PeerJ. 2018, 9, e5603.
Research output: Contribution to journal › Article › peer-review
19. **Insights into the recognition and electron transfer steps in nitric oxide reductase from *Marinobacter hydrocarbonoclasticus***
Ramos, S., Almeida, R. M., Cordas, C. M., Moura, J. J. G., Pauleta, S. R. & Moura, I., Dec 2017, In: Journal of Inorganic Biochemistry. 177, p. 402-411 10 p.
Research output: Contribution to journal › Article › peer-review
20. **Biochemical characterization of the bacterial peroxidase from the human pathogen *Neisseria gonorrhoeae***
Nóbrega, C. S., Raposo, M., Van Driessche, G., Devreese, B. & Pauleta, S. R., 1 Jun 2017, In: Journal of Inorganic Biochemistry. 171, p. 108-119 12 p.
Research output: Contribution to journal › Article › peer-review
21. **Spectroscopic Definition of the Cu₂^o Intermediate in Turnover of Nitrous Oxide Reductase and Molecular Insight into the Catalytic Mechanism**
Johnston, E. M., Carreira, C., Dell'Acqua, S., Dey, S. G., Pauleta, S. R., Moura, I. & Solomon, E. I., 29 Mar 2017, In: Journal of the American Chemical Society. 139, 12, p. 4462-4476 15 p.
Research output: Contribution to journal › Article › peer-review
22. **Protein-Assisted Formation of Molybdenum Heterometallic Clusters: Evidence for the Formation of S₂MoS₂-M-S₂MoS₂ Clusters with M = Fe, Co, Ni, Cu, or Cd within the Orange Protein**
Maiti, B. K., Maia, L. B., Pauleta, S. R., Moura, I. & Moura, J. J. G., 20 Feb 2017, In: Inorganic Chemistry. 56, 4, p. 2210-2220 11 p.
Research output: Contribution to journal › Article › peer-review

23. **Insights into Nitrous Oxide Reductase**
Pauleta, S. R., Carreira, C. & Moura, I., Jan 2017, *Metalloenzymes in Denitrification: Applications and Environmental Impacts*. RSC - Royal Society of Chemistry, Vol. 7. p. 141-169 29 p. (RSC Metallobiology; vol. 2017-January, no. 9).
Research output: Chapter in Book/Report/Conference proceeding > Chapter > peer-review
24. **A Bird's Eye View of Denitrification in Relation to the Nitrogen Cycle**
Moura, I., Maia, L. B., Pauleta, S. R. & Moura, J. J. G., 2017, *Metalloenzymes in Denitrification: Applications and Environmental Impacts*. 9 ed. RSC - Royal Society of Chemistry, Vol. January. p. 1-10 10 p. (RSC Metallobiology; vol. 2017-January, no. 9).
Research output: Chapter in Book/Report/Conference proceeding > Chapter > peer-review
25. **CHAPTER 11: Electron Transfer and Molecular Recognition in Denitrification and Nitrate Dissimilatory Pathways**
Almeida, R. M., Dell'Acqua, S., Moura, I., Pauleta, S. R. & Moura, J. J. G., 2017, *Molybdenum and Tungsten Enzymes: Biochemistry*. 9 ed. RSC - Royal Society of Chemistry, Vol. 2017-January. p. 252-286 35 p. (RSC Metallobiology; vol. 2017-January, no. 9).
Research output: Chapter in Book/Report/Conference proceeding > Chapter > peer-review
26. **Nitrous oxide reductase (CuZ and CuA)**
Pauleta, S. R. & Moura, I. M. A. M. G. D., 2017, *Nitrous oxide reductase (CuZ and CuA)*. Johnson, M. K. & Scott, R. A. (eds.). Wiley, (Encyclopedia of Inorganic and Bioinorganic Chemistry; vol. Metalloprotein Active Site Assembly).
Research output: Chapter in Book/Report/Conference proceeding > Chapter > peer-review
27. **Preface**
Moura, I., Moura, J. J. G., Pauleta, S. R. & Maia, L. B., 2017, In: RSC Metallobiology. 2017-January, 9, p. v
Research output: Contribution to journal > Editorial > peer-review
28. **The small iron-sulfur protein from the ORP operon binds a [2Fe-2S] cluster**
Maiti, B. K., Moura, I., Moura, J. J. G. & Pauleta, S. R., 1 Sept 2016, In: *Biochimica et Biophysica Acta-Bioenergetics*. 1857, 9, p. 1422-1429 8 p.
Research output: Contribution to journal > Article > peer-review
29. **Predicting protein-protein interactions using BIGGER: Case studies**
Almeida, R. M. L. R. D., Dell'Acqua, S., Krippahl, L., Moura, J. J. G. & Pauleta, S. R., 1 Aug 2016, In: *Molecules*. 21, 8, 1037.
Research output: Contribution to journal > Article > peer-review
30. **Resonance assignment of DVU2108 that is part of the Orange Protein complex in *Desulfovibrio vulgaris* Hildenborough**
Neca, A. J., Soares, R., Carepo, M. S. P. & Pauleta, S. R., Apr 2016, In: *Biomolecular Nmr Assignments*. 10, 1, p. 117-120 4 p.
Research output: Contribution to journal > Article > peer-review
31. **Orange protein from *Desulfovibrio alaskensis* G20: insights into the Mo-Cu cluster protein-assisted synthesis**
Carepo, M. S. P., Carreira, C., Grazina, R., Zakrzewska, M. E., Dolla, A., Aubert, C., Pauleta, S. R., Moura, J. J. G. & Moura, I., Mar 2016, In: *JBIC Journal of Biological Inorganic Chemistry*. 21, 1, p. 53-62 10 p.
Research output: Contribution to journal > Article > peer-review
32. **The solution structure of the soluble form of the lipid-modified azurin from *Neisseria gonorrhoeae*, the electron donor of cytochrome c peroxidase**
Nobrega, C. S., Saraiva, I. H., Carreira, C., Devreese, B., Matzapetakis, M. & Pauleta, S. R., Feb 2016, In: *Biochimica et Biophysica Acta-Bioenergetics*. 1857, 2, p. 169-176 8 p.
Research output: Contribution to journal > Article > peer-review
33. **Incorporation of molybdenum in rubredoxin: models for mononuclear molybdenum enzymes**
Maiti, B. K., Maia, L. B., Silveira, C. M. C. F., Todorovic, S., Carreira, C., Carepo, M. S. P., Grazina, R., Moura, I., Pauleta, S. R. & Moura, J. J. G., Jul 2015, In: *JBIC Journal of Biological Inorganic Chemistry*. 20, 5, p. 821-829 9 p.
Research output: Contribution to journal > Article > peer-review
34. **HCN Channels: The Molecular Basis for their cAMP-TRIP8b Regulation**
Saponaro, A., Donadoni, C., Pauleta, S. R., Cantini, F., Matzapetakis, M., Thiel, G., Banci, L., Santoro, B. & Moroni, A., 27 Jan 2015, In: *Biophysical Journal*. 108, 2, p. 366A-366A 1 p.
Research output: Contribution to journal > Meeting Abstract > peer-review
35. **Protonation state of the Cu₄S₂ Cu-Z site in nitrous oxide reductase: redox dependence and insight into reactivity**
Johnston, E. M., Dell'Acqua, S., Pauleta, S. R., Moura, I. & Solomon, E. I., 2015, In: *Chemical science*. 6, 10, p. 5670-5679 10 p.
Research output: Contribution to journal > Article > peer-review
36. **Química Bioinorgânica e luz - fotossíntese, oxigênio e água**
Moura, J. J. G., Maia, L. B., Pauleta, S. R. & Moura, I. M. A. M. G. D., 2015, In: *Química*. 136, p. 17-19 3 p.
Research output: Contribution to journal > Article > peer-review

37. **One Electron Reduced Square Planar Bis(benzene-1,2-dithiolato) Copper Dianionic Complex and Redox Switch by O₂/HO⁻**
Maiti, B. K., Maia, L. B. L., Pal, K., Pakhira, B., Avilés, M. T., Moura, I. M. A. M. G. D., Pauleta, S. R., Nunez, J. L., Rizzi, A. C., Brondino, C. D., Sarkar, S. & Moura, J. J. G. D., 15 Dec 2014, In: *Inorganic Chemistry*. 53, 24, p. 12799-12808
Research output: Contribution to journal › Article › peer-review
38. **Structural basis for the mutual antagonism of cAMP and TRIP8b in regulating HCN channel function**
Saponaro, A., Pauleta, S. R., Cantini, F., Matzapetakis, M., Hammann, C., Donadoni, C., Hu, L., Thiel, G., Banci, L., Santoro, B. & Moroni, A., 7 Oct 2014, In: *Proceedings of the National Academy of Sciences of the United States of America*. 111, 40, p. 14577-14582
Research output: Contribution to journal › Article › peer-review
39. **Electronic structure and reactivities of resting and intermediate forms of the tetranuclear copper cluster in nitrous oxide reductase**
Johnston, E. M., Dell'Acqua, S., Gorelsky, S., Moura, I., Solomon, E. I. & Pauleta, S. R., Aug 2014, In: *Abstracts Of Papers Of The American Chemical Society*. 248, 1 p.
Research output: Contribution to journal › Meeting Abstract › peer-review
40. **Metal substituted rubredoxins: a sulfur rich coordination site as models for metalloenzymes**
Moura, J. J. G., Maiti, B. K., Carreira, C., Maia, L. B., Carepo, S. P., Pauleta, S. R. & Moura, I., Aug 2014, In: *JBIC Journal of Biological Inorganic Chemistry*. 19, p. S731-S731 1 p.
Research output: Contribution to journal › Meeting Abstract › peer-review
41. **Synthesis and characterization of [S₂MoS₂Cu(n-SPhF)](2-) (n = o, m, P) clusters: Potential F-19-NMR structural probes for Orange Protein**
Maiti, B. K., Avilés, M. T., Moura, I., Pauleta, S. R. & Moura, J. J. G., Jul 2014, In: *Inorganic Chemistry Communications*. 45, p. 97-100 4 p.
Research output: Contribution to journal › Article › peer-review
42. **Mo-Cu metal cluster formation and binding in an orange protein isolated from *Desulfovibrio gigas***
Carepo, M. S. P., Pauleta, S. R., Wedd, A. G., Moura, J. J. G. D. & Moura, I. M. A. M. G. D., Jun 2014, In: *JBIC Journal of Biological Inorganic Chemistry*. 19, 4-5(SI), p. 605-614
Research output: Contribution to journal › Article › peer-review
43. **INSIGHTS INTO THE CATALYTIC CYCLE OF *Pseudomonas nautica* NITROUS OXIDE REDUCTASE**
Moura, I., Carreira, C., Pauleta, S., Nunes, R. F., Moura, J. J., Ramos, S., Dell'Acqua, S. & Einsle, O., Mar 2014, In: *JBIC Journal of Biological Inorganic Chemistry*. 19, p. S104-S104 1 p.
Research output: Contribution to journal › Meeting Abstract › peer-review
44. **The Auxiliary Subunit TRIP8B Inhibits the Binding of cAMP to HCN2 Channels Through an Allosteric Mechanism**
Saponaro, A. C., Matzapetakis, M., Santoro, B., Pauleta, S. R. & Moroni, A., 28 Jan 2014, In: *Biophysical Journal*. 106, 2, p. 758A-758A 1 p.
Research output: Contribution to journal › Meeting Abstract › peer-review
45. **Determination of the active form of the tetranuclear copper sulfur cluster in nitrous oxide reductase**
Johnston, E. M., Dell'Acqua, S., Ramos, S. J. G., Pauleta, S. R., Moura, I. M. A. M. G. D. & Solomon, E. I., 15 Jan 2014, In: *Journal of the American Chemical Society*. 136, 2, p. 614-617
Research output: Contribution to journal › Article › peer-review
46. **Química de coordenação e Biologia: controlo da actividade enzimática por alteração da coordenação de centros metálicos catalíticos**
Maia, L. B., Pauleta, S. R. & Moura, J. J. G., 2014, In: *Química*. 132, p. 9-21 12 p.
Research output: Contribution to journal › Article › peer-review
47. **¹H, ¹³C and ¹⁵N resonance assignment of the soluble form of the Lipid-modified Azurin from *Neisseria gonorrhoeae***
Nóbrega, C. S., Matzapetakis, M. & Pauleta, S. R., 1 Oct 2013, In: *Biomolecular Nmr Assignments*. 7, 2, p. 311-314 4 p.
Research output: Contribution to journal › Article › peer-review
48. **Iron-Sulfur Centers: New Roles for Ancient Metal Sites**
Grazina, R., Pauleta, S. R., Moura, J. J. G. & Moura, I., Aug 2013, *Comprehensive Inorganic Chemistry II: From Elements to Applications*. 2nd ed. Elsevier, Vol. 3. p. 103-148 46 p.
Research output: Chapter in Book/Report/Conference proceeding › Chapter › peer-review
49. **Structural rearrangements occurring on HCN2 CNBD domain upon cAMP binding**
Saponaro, A., Matzapetakis, M., Moroni, A. & Pauleta, S., Jul 2013, In: *European Biophysics Journal With Biophysics Letters*. 42, p. S181-S181 1 p.
Research output: Contribution to journal › Article › peer-review
50. ***Marinobacter hydrocarbonoclasticus* is an aerobic denitrifier**
Pauleta, S. R. & Moura, I. M. A. M. G. D., 1 Jan 2013, *11th European Biological Inorganic Chemistry Conference (EUROBIC 11)*. Vol. NA. p. 49-52
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › peer-review

51. **Copper-substituted forms of the wild type and C42A variant of rubredoxin**
Thapper, A., Rizzi, A. C., Brondino, C. D., Wedd, A. G., Pais, R. J., Maiti, B. K., Moura, I. M. A. M. G. D., Pauleta, S. R. & Moura, J. J. G. D., 2013, In: *Journal of Inorganic Biochemistry*. 127, p. 232-237
Research output: Contribution to journal > Article > peer-review
52. **Nitrous oxide reductase**
Dell'Acqua, S., Pauleta, S. R. & Moura, I. M. A. M. G. D., 2013, *Nitrous oxide reductase*. Kretsinger, R. H., Uversky, V. N. & Permyakov, E. A. (eds.). Springer, (Encyclopedia of Metalloproteins).
Research output: Chapter in Book/Report/Conference proceeding > Chapter > peer-review
53. **Rearrangement of Mo-Cu-S Cluster Reflects the Structural Instability of Orange Protein Cofactor.**
Maiti, B. K., Avilés, M. T., Carepo, M. S. P., Moura, I. M. A. M. G. D., Pauleta, S. R. & Moura, J. J. G. D., 2013, In: *Zeitschrift Fur Anorganische Und Allgemeine Chemie*. 639, 8-9(SI), p. 1361-1364
Research output: Contribution to journal > Article > peer-review
54. **Superoxide Reductase: Different Interaction Modes with its Two Redox Partners**
Almeida, R., Turano, P., Moura, I. M. A. M. G. D., Pauleta, S. R. & Moura, J. J. G. D., 2013, In: *Chembiochem*. 14, 14, p. 1858-1866
Research output: Contribution to journal > Article > peer-review
55. **Analysis of resonance Raman data on the blue copper site in pseudoazurin: Excited state π and σ charge transfer distortions and their relation to ground state reorganization energy**
Hadt, R. G., Xie, X., Pauleta, S. R., Moura, I. M. A. M. G. D. & Solomon, E. I., 1 Oct 2012, In: *Journal of Inorganic Biochemistry*. 115, p. 155-162 8 p.
Research output: Contribution to journal > Article > peer-review
56. **Synthesis of $[\text{MoS}_4]^{2-}$ -M (M = Cu and Cd) clusters: Potential NMR spectroscopic structural probes for the orange protein**
Maiti, B. K., Avilés, T., Matzapetakis, M., Moura, I., Pauleta, S. R. & Moura, J. J. G., 1 Sept 2012, In: *European Journal of Inorganic Chemistry*. 26, p. 4159-4166 8 p.
Research output: Contribution to journal > Article > peer-review
57. **Biochemical characterization of the purple form of *Marinobacter hydrocarbonoclasticus* nitrous oxide reductase**
Moura, J. J. G. D., Pauleta, S. R. & Moura, I. M. A. M. G. D., 1 Jan 2012, In: *Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences*. 367, 1593, p. 1204-12
Research output: Contribution to journal > Article > peer-review
58. **Copper tolerance in *Marinobacter hydrocarbonoclasticus* - Proteomic analysis of the periplasm**
Silveira, C. M., Matzapetakis, M., Gabriela Almeida, M. & Pauleta, S. R., 2012, *MICROBES IN APPLIED RESEARCH: CURRENT ADVANCES AND CHALLENGES*. MendezVilas, A. (ed.). World Scientific Publishing Co. Pte Ltd, p. 608-612 5 p.
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > peer-review
59. **Artefacts induced on c-type haem proteins by electrode surfaces**
Moura, J. J. G. D., Videira, P. D. M. P. D. S., Pauleta, S. R. & Moura, I. M. A. M. G. D., 1 Jan 2011, In: *JBIC Journal of Biological Inorganic Chemistry*. 16, 2, p. 209-215
Research output: Contribution to journal > Article > peer-review
60. **Gd(III) Chelates as NMR Probes of Protein-Protein Interactions. Case Study: Rubredoxin and Cytochrome c(3)**
Moura, J. J. G. D. & Pauleta, S. R., 1 Jan 2011, In: *Inorganic Chemistry*. 50, 21, p. 10600-10607
Research output: Contribution to journal > Article > peer-review
61. **The Anaerobe-Specific Orange Protein Complex of *Desulfovibrio vulgaris* Hildenborough Is Encoded by Two Divergent Operons Coregulated by σ^{54} and a Cognate Transcriptional Regulator**
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Awards

Destoxificação de peróxido de hidrogénio por Bactérias Patogénicas - Peroxidase tri-hémicas de E.coli como modelo
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