

PhD in Chemical Sciences
Department of Chemistry “Ugo Schiff”
University of Florence

Title of the course:

Polarizability relaxation: From archetypal molecular liquids to deep eutectic solvents

CURRICUL VITAE

Ary de Oliveira Cavalcante



1 Short CV

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EDUCATION

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|-------------|--|
| 2003 - 2008 | State University of São Paulo, Ph.D.
pHD: Chemistry – Physical Chemistry
Advisor: M. Ribeiro, Ph.D.
Thesis Title: Molecular Dynamics simulation of Raman spectra of ionic liquids |
| 2000 - 2003 | State University of São Paulo, Ms.Sci.
MSc: Chemistry – Physical Chemistry
Advisor: M. Ribeiro, Ph.D.
Thesis Title: Raman band shape analysis of oxocarbon anion |
| 1996 - 2000 | Graduate Institution: Federal University of Juiz de Fora, B.A.
BSc: Chemistry |

ACADEMIC EMPLOYMENT

- | | |
|----------------|--|
| 2010 – Present | Professor, Federal University of Amazonas, Brazil |
| 2008 – 2010 | Postdoctoral Researcher State University of Campinas (UNICAMP), Brazil
Supervisor: Prof. Munir S. Skaf, Ph.D. |

2 Bibliometric data

Total Citations: 80

h-index: 4

3 Selection of the 10 most relevant publications and/or patents

1 - Cavalcante, A. O. Polarizability relaxation in protic ionic liquids: The case of alkylammonium nitrates. *Journal of Molecular Liquids*, v. 439, p. 128815, 2025.

2 - Cavalcante, A. O.; Chelli, R. . Polarizability relaxation in water/ethanol mixtures. *Journal of Molecular Liquids*, v. sv, p. 115839, 2021.

3 - Cavalcante, A. O.; Ribeiro, M. C. C.; Skaf, Munir S. . Polarizability effects on the structure and dynamics of ionic liquids. *The Journal of Chemical Physics*, v. 140, p. 144108, 2014.

4 - Cavalcante, A. O.; Ribeiro, M. C. C. . Vibrational dephasing of the croconate dianion in different environments. *Journal of Raman Spectroscopy*, v. 36, p. 996-1000, 2005.

5 - Cavalcante, A. O.; Urahata, S. M. ; Ribeiro, M. C. C. . Molecular dynamics simulation of the squarate ion in acetonitrile solution. *PCCP. Physical Chemistry Chemical Physics*, v. 6, p. 2956-2961, 2004.

6 - Cavalcante, A. O.; Ribeiro, M. C. C. . Raman band shape analysis of a low temperature molten salt. *Journal of Chemical Physics*, v. 119, p. 8567-8576, 2003.

7 - Cavalcante, A. O.; Ribeiro, M. C. C. . Comment on Theoretical analysis of the oxocarbons: structure and spectroscopic properties of croconate ion and its coordination compound with lithium by G. M. A. Junqueira, W. R. Rocha, W. B. De Almeida and H. F. Dos Santos. *PCCP. Physical Chemistry Chemical Physics*, v. 3, p. 2919-2918, 2001.