

Academic Curriculum Vitae

CONTACT INFORMATION

Name: Thamires Andrade Lima

Address: Av. Prof. Lineu Prestes, 748 - Cidade Universitária.

City, State, Country, Zip code: São Paulo - SP, Brazil, 05508000

Telephone: +55 11 3091-3853

Cell Phone: +55 11 96161-1305

Email: thamires@iq.usp.br

EDUCATION

- **Post Doc Institution:** Universidade Estadual de São Paulo, USP, Brazil.
Started in: 11/2014
Project: Raman spectroscopy study of the glass transition of the ionic liquids under high pressure.
- **Graduate Institution:** Universidade Federal do ABC, UFABC, Brazil
Degree: Doctorate Degree
Date of Graduation: 10/2014
Thesis: Boson peak and dynamical transitions in hydrated amino acids.
- **Graduate Institution:** Universidade Federal do ABC, Brazil
Degree: Master Degree
Date of Graduation: 10/2010
Dissertation: Anharmonic transition in L-Cysteine: the role of phonon-phonon interactions.
- **Undergraduate Institution:** Universidade Federal de Sergipe, UFS, Brazil
Degree: Physics
Date of Graduation: 07/2008

ACADEMIC ACTIVITIES

- **Teacher's Assistant:** Universidade de São Paulo, Brazil
Course: Chemistry
Period: 02/2015 – 06/2015
Subject: Physical Chemistry
- **Teacher's Assistant:** Universidade Federal do ABC, Brazil
Course: Physics
Period: 02/2013 – 05/2013
Subject: Molecular and Atomic Interactions
- **Teacher's Assistant:** Universidade Federal do ABC, Brazil
Course: Physics
Period: 05/2012 – 08/2012
Subject: Electromagnetic Phenomena
- **Teacher's Assistant:** Universidade Federal do ABC, Brazil
Course: Physics
Period: 09/2009 – 12/2009
Subject: Optics

PUBLICATIONS

- **Lima, T. A.**; Paschoal, V. H. ; Faria, L. F. O. ; Ribeiro, M. C. C. ; Ferreira, F. F. ; Costa, F. N. ; Giles, C.. Comparing two tetraalkylammonium ionic liquids. II. Phase transitions. The Journal of Chemical Physics, v. 144, p. 224505, 2016.
- **Lima, T. A.**; Paschoal, V. H. ; Faria, L. F. O. ; Ribeiro, M. C. C. ; Giles, C. Comparing two tetraalkylammonium ionic liquids. I. Liquid phase structure. The Journal of Chemical Physics, v. 144, p. 224504, 2016.

- Ishikawa, M. S.; **Lima, T. A.**; Ferreira, F. F.; Martinho, H. S.. Unusual specific heat of almost dry L-cysteine and L-cystine amino acids. *Physical Review. E, Statistical, Nonlinear, and Soft Matter Physics (Print)*, v. 91, p. 032709, 2015.
- **Lima, T. A.**; Ishikawa, M. S. ; Martinho, H. S.. Boson peak as a probe of quantum effects in a glassy state of biomolecules: The case of L-cysteine. *Physical Review. E, Statistical, Nonlinear, and Soft Matter Physics (Print)*, v. 89, p. 022715, 2014.
- **Lima, T. A.**; Sato, E T ; Martins, E T ; Homem-de-Mello, P ; Lago, A F ; Coutinho-Neto, M D ; Ferreira, F F ; Giles, C ; Pires, M O C ; Martinho, H. Anharmonic transitions in nearly dry l-cysteine I. *Journal of Physics. Condensed Matter (Print)*, v. 24, p. 195104, 2012.

PRESENTATIONS AT SCIENTIFIC CONFERENCES

- Boson peak and fast relaxation process in ionic liquids at isobaric and isothermal conditions. 2016. 4th International Soft Matter Conference (4th ISMC) Grenoble, France.
- Phase transitions in ionic liquids: A study by Raman spectroscopy, x-ray diffraction and differential scanning calorimetry. 2016, XXV International Conference on Raman Spectroscopy (ICORS2016), in Fortaleza, Brazil.
- Ionic Liquids dynamical study by low-frequency Raman spectroscopy. 2015. IV Encontro Brasileiro de Espectroscopia Raman (IV Brazilian Meeting of Raman Spectroscopy), in Juiz de Fora, Brazil.
- Boson peak as probe of quantum effects in glassy state of biomolecules: The case of L-cysteine. 2014. *Physics of Liquid Matter Modern Problems*, in Kiev, Ukraine.
- Quantum fluctuations, the Boson Peak and the glassy state of biomolecule. 2013. I Encontro dos Usuários da Central Experimental Multiusuários (I Experimental central multiuser Meeting), Santo André, Brazil.

- Boson peak in L-cysteine: a Raman scattering study. 2012. March Meeting, in Boston, USA.
- Anharmonic transitions in L-Cysteine: a study by Raman spectroscopy, X-Ray Diffraction and computer simulations. 2011. XX Latin American Symposium on Solid State Physics (SLAFES), in Maragogi, Brazil.
- Anharmonic transitions in L-Cysteine: a study by Raman spectroscopy, X-Ray Diffraction and molecular dynamics. 2010. 3^o International Workshop on Spectroscopy for Biology.
- Anharmonic transitions in L-Cysteine: a study by Raman spectroscopy, X-Ray Diffraction and molecular dynamics. 2009. I Encontro Brasileiro de Espectroscopia Raman (Brazilian Meeting of Raman Spectroscopy). São Pedro, Brazil.
- Stability study, synthesis and characterization of the different geometrical shapes of the silver nanoparticles. 2008. XIII Encontro Sergipano de Física. (XIII Sergipano Meeting of Physicists), Sergipe, Brazil.
- Morfological modification of silver nanoparticles by photostimulation. 2007. XII Encontro Sergipano de Física (XII Sergipano Meeting of Physicists), Sergipe, Brazil.
- Synthesis and characterization of triangular silver nanoparticles. 2007. XXV Encontro de Físicos do Norte e Nordeste. (XXV North and Northeast Meeting of Physicists) Sergipe, Brazil.

ORGANIZATION OF SCIENTIFIC CONFERENCES

- School of vibrational Spectroscopy (VIBROS III - Curso de Espectroscopia Vibracional Prof. Oswaldo Sala – Vibrational Spectroscopy Course Prof. Oswaldo Sala). 2015. Universidade de São Paulo – USP, São Paulo, Brazil.
- Demonstration of physics experiments in XIII Sergipe Meeting of Physicists (Show de Física - XIII Encontro Sergipano de Física). 2008.