

CURRICULUM VITAE

I. Personal Details

Name : Carolina Soares Novo
Date of Birth : 21.01.1983
Gender : Female
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II. Educational Qualifications

- * Bachelor of Chemistry at Campinas State University (Chemistry Institute), from January/2001 to December/2004.
- * Bachelor of Technological Chemistry at Campinas State University (Chemistry Institute), from January/2001 to December/2004.

III. Research Interests

- * Metallic Nanoparticles: Synthesis, Optical Properties, Electronic Properties
- * Single Particle Spectroscopy
- * Electron Transfer / Charging of Nanosystems
- * Characterization of Metal Nanoparticles / Microscopy

IV. Research Experience

- * Development of research activities in the Natural Products Laboratory at the Chemistry Institute at Campinas State University from January/2002 to June/2002.
- * Development of the project "Synthesis and Properties of Colloidal Metal Nanoparticles" from August/2002 to March/2003 at the National Synchrotron Light Laboratory.
- * Development of the project "Controlling the Morphology of Colloidal Metal Nanoparticles" from April/2003 to April/2004 at the National Synchrotron Light Laboratory.

V. Current Position

- * PhD Student at Melbourne University, developing project "Single Particle Spectroscopy of Gold Nanorods" (2005-Present)

* Casual Demonstrator in First Year Laboratory Classes at the School of Chemistry, Melbourne University.

VI. Awards

* Awarded the Lavoisier Prize for best achievement in the Bachelor of Chemistry course in 2004.

* Awarded Scientific Initiation Scholarship by the Council of National Scientific and Technological Development (CNPq) for the development of a one-year research project (2002/2003).

* Awarded Scientific Initiation Scholarship by São Paulo State Research Support Foundation (FAPESP) for the development of a on-year research project (2003/2004)

* Awarded the Melbourne University International Research and Melbourne University International Fee Remission Scholarships by the University of Melbourne (2005-2008).

VII. Courses Attended

* **Nutrients and heavy metals Ionic Speciation in Aqueous Solutions**, at the Agronomic Institute of Campinas, in Campinas, Brazil, during July 11-12, 2002 (16 hours/class).

* **Transparencies: The Fascination of Glasses**, at the Chemistry Institute, Campinas State University, in Campinas, Brazil, during October 7-11, 2003 (6 hours/class).

* **Fundamentals of Cosmetology**, at the Chemistry Institute, Campinas State University, in Campinas, Brazil, during October 7-11, 2003 (6 hours/class).

* **IV Winter School in Nanostructured Systems**, at the Nacional Synchrotron Light Laboratory, in Campinas, Brazil, during July 21-23, 2003 (24 hours/class).

* **An Introduction to Nanotechnology**, at the 27th Annual Meeting of the Brazilian Chemical Society / XXVI Latin American Chemical Meeting, in Salvador / Brazil, during May 31st-June 2nd / 2004 (6 hours/class).

VIII. Research Papers Published/Submitted

1. **Novo, C.**, Gomez, D., Perez-Juste, J., Zhang, Z., Petrova, H., Reismann, M., Liz-Marzan, L., Mulvaney, P. and Hartland, G.V. **Contributions from Radiation Damping and Surface Scattering to the Linewidth of the Longitudinal Plasmon Band of Gold Nanorods: A Single Particle Study** Phys. Chem. Chem. Phys., 2006.

IX. Research Papers Presented at Seminars/Conferences

1. Rocha, T.C.R., **Novo, C.S.**, Zanchet, D. **Study of Gold and Silver Nanoparticles in Solution**. XIII Annual National Synchrotron Light Laboratory Users Meeting, Campinas/ Brazil, February/2003, p. 59.

2. Rocha, T.C.R., **Novo, C.S.**, Rodrigues, V., Zanchet, D. **Optical Properties of Colloidal Metal Nanoparticles**. XXVI Condensed Matter Physics National Meeting, Caxambu, Brazil, May/2003, p. 324.
3. Zanchet, D., Leite, M.S., Vargas, J.M., Rocha, T.C.R., **Novo, C.S.**, Rodrigues, V. **Colloidal Metal Nanoparticles: Synthesis, Morphology and Structure**. Nano Science and Technology Workshop, Campinas/Brazil, June/2003, p. 7.
4. **Novo, C.S.**, Ximenes, F.R.F., Zanchet, D. **Kinetics Studies on Colloidal Au Nanorods**. XIV Annual National Synchrotron Light Laboratory Users Meeting, Campinas/ Brazil, February/2004, p. 64.
5. **Novo, C.S.**, Zanchet, D., Rocha, T.C.R. **Kinetics Studies on Colloidal Au Nanorods**. 27th Annual Meeting of the Brazilian Chemical Society / XXVI Latin American Chemical Meeting, Salvador / Brazil, May / 2004.

X. Associative Activities

- * Member of the Brazilian Chemical Society
- * Member of the Australian Research Council Nanotechnology Network

XI. Academic Referees

- * Prof. Paul Mulvaney, School of Chemistry, The University of Melbourne, Victoria 3010, Australia, mulvaney@unimelb.edu.au.
- * Dr. Daniela Zanchet, Laboratório Nacional de Luz Síncrotron, Caixa Postal 6192, CEP 13084-971, Campinas, SP, Brazil. zanchet@lnls.br.
- * Dr. Ines Joekes, Universidade Estadual de Campinas, Instituto de Química, Caixa Postal 6154, CEP 13083-970 Campinas, SP, Brazil, ines@iqm.unicamp.br.

XII. Foreign Assignments

- * Exchange Student Program for six months at Batesville, Mississippi, USA, attending South Panola High School, from January/1999 to June/1999.

XIII. Languages

- * Written/spoken Fluency in Portuguese
- * Written/spoken Fluency in English
- * Cambridge Certificate in Advanced English, Cambridge University, graded B (2000).
- * Cambridge First Certificate in English, Cambridge University, graded A (1999).
- * ALI/GU Test for Academic Programs in English Speaking Universities, Georgetown University, graded 88/100 (1999).