

## Curriculum vitae Aldo F. Craievich

**Name:** Aldo Felix Craievich

**Date and place of birth:** February 21, 1939, Zavalla, Santa Fé, Argentina

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### Titles:

- "Licenciado en Física", Instituto Balseiro, Universidad Nacional de Cuyo, Bariloche, Argentina (1964).

- "Doctor en Física", Instituto Balseiro, Universidad Nacional de Cuyo, Bariloche, Argentina (1969). Thesis work performed at Laboratoire de Physique des Solides, Orsay, France.

- "Livre-Doctore", Instituto de Física e Química de São Carlos, Universidade de São Paulo, São Carlos-SP, Brazil (1974).

### Professional positions

1965-1969: "Jefe de Trabajos Prácticos" (Assistant Professor), Departamento de Física do Instituto de Matemática, Astronomia y Física (IMAF) da Universidad Nacional de Córdoba, Argentina.

1970-1973: Adjoint Professor, IMAF, Córdoba, Argentina.

1973-1975: "Professor Doutor", Departamento de Física e Ciência dos Materiais (DFCM), Instituto de Física e Química de São Carlos, Universidade de São Paulo (IFQSC-USP), São Carlos-SP, Brazil.

1975-1978: "Professor Livre-Doctore", DFCM/IFQSC-USP, São Carlos-SP, Brazil.

1978-1985: Associate Professor, DFCM/IFQSC-USP, São Carlos-SP, Brazil.

1982-1986: Full Scientist, Centro Brasileiro de Pesquisas Físicas (CBPF), Rio de Janeiro-RJ, Brazil.

1987-1997: Adjoint Director and Head of the Scientific Department, Laboratório Nacional de Luz Síncrotron (LNLS), Campinas-SP, Brazil.

1987-...: Full Professor (MS-6), Instituto de Física, USP, São Paulo-SP, Brazil.

### Distinctions

- Research Fellow (maximum level - 1A) of the Brazilian National Science Council (CNPq).

- Full-Member of the Academy of Sciences of São Paulo State (1980-...).

- Distinction of the Brazilian community of crystallographers "for his contribution to the development of the National Synchrotron Light Laboratory (LNLS)", (Brazilian Society of Crystallography, July 2000).

- Distinction of LNLS staff and users "for his important contribution to the creation, implantation and development of this Brazilian center of research" (National Synchrotron Light Laboratory, November 1997).

- Prix Mercosur of Science and Technology 2004, RECYT/UNESCO, MCT.

**Publishes articles****(228 articles with ~1800 citations)****2006**

1. “Nanostructure and luminescent properties of sol derived europium doped amide functionalized hybrids”. K. Dahmouche, C.V. Santilli, S.H. Pulcinelli, R.A.Sá Ferreira, L.D. Carlos, V. de Zea Bermudes and A. F. *Craievich*. *Journal of Sol-Gel Science and Technology*, 37, 99-104 (2006).
2. “Small angle scattering study of surface modified tin oxide nanoparticles prepared by sol-gel route”. C.A. Kawaguti, S.H. Pulcinelli, C.V. Santilli and A.F. *Craievich*. *Journal of Sol-Gel Science and Technology*, 37, 213-7 (2006).
3. “Crystal structure of pure ZrO<sub>2</sub> nanopowders”. D.G. Lamas, A. M. Rosso, M. Suarez Anzorena, A. Fernandez, M.G. Bellino, N.E. Walsøe de Reza and A.F. *Craievich*. *Scripta Materialia*. 55, 553-6 (2006).
4. “Local structure of the metal–oxygen bond in compositionally homogeneous, nanocrystalline zirconia–ceria solid solutions synthesized by a gel-combustion process”. I. O Fábregas<sup>1</sup>, R. O. Fuentes, D G Lamas, M.E Fernández de Rapp, N. E. Walsøe de Reza, M. C A Fantini, A. F *Craievich*, R. J. Prado, R. P Millen and M. L A Temperini. *Journal of Physics: Condensed Matter* 18 7863–81(2006).
5. “Structure and melting of Pb nanocrystals produced by mechanical alloying of Fe/Pb powder mixtures”. J. Freitas, E. Nunes, E.C. Passamani, C. Larica, G. Kellermann and A.F. *Craievich*. *Acta Materialia*. 54, 5095-5102 (2006).
6. “Structural rearrangements in the thyroid hormone receptor hinge domain and their putative role in the receptor function”. A.S. Nascimento, S.M. Gomes Dias, F.M. Nunes, R. Aparício, A.L.B. Ambrosio, L. Bleicher, A.C.M. Figueira, M.A.M. Santos, M. Oliveira Neto, H. Fischer, M. Togashi, A.F. *Craievich*, R.C. Garratt, J.D. Baxter, P. Webb and I. Polikarpov. *Journal of Molecular Biology*. 360, 586-98 (2006).
7. “Montmorillonite (MMT) effect on the structure of poly(oxyethylene) (PEO)–MMT nanocomposites and silica–PEO–MMT hybrid materials”. M.Y. Hikosaka, S.H. Pulcinelli, C.V. Santilli, K. Dahmouche and A.F. *Craievich*. *Journal of Non Crystalline Solids*. 352, 3705-10 (2006).
8. “Local and nanoscopic structure of potassium triflate-doped siloxane-polyoxyethylene ormolytes”. J.A. Chaquer, K. Dahmouche, C.V. Santilli, S.H. Pucinelli, M.C. Gonçalves, S.M. Gomes Correia, V. De Zea Bermudez, P. Judeinstein, V. Briois and A. F. *Craievich*. *Journal of Non Crystalline Solids*. 352, 34567-62 (2006).

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9. “XAFS, SAXS and HREM characterization of Pd nanoparticles capped with n-alkyl thiol molecules”. J.M. Ramallo-Lopez, L. Giovanetti, A.F. *Craievich*, F.C. Vicentin, M. Marin-Almazo, M.J. Yacaman and F.G. Requejo. *Physica B*, 389, 150-4 (2007).
10. “Low-resolution structures of thyroid hormone receptor dimers and tetramers in solution”. A.C.M. Figueira, M. Oliveira Neto, A. Bernardes, S.M.G. Dias, A.F. *Craievich*, J.D. Baxter, P. Webb and I. Polikarpov. *Biochemistry*, 56, 1273-83 (2007).
11. “Structure of nanoporous zirconia-based powders synthesised by different gel-combustion routes” J.R. Casanova, I.O. Fábregas, D.G. Lamas, N.E. Walsøe de Reza, G.E. Lascalea, R. Kempf, A.F. *Craievich* and C.V. Santilli. *Journal of Applied Crystallography*. In press (2007).