

Curriculum Vitae of

José Antonio Alonso Alonso

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09/08/1958, born in Santander, España. 1980, M. Sc. in Chemistry, Universidad Complutense de Madrid, subject : Inorganic Chemistry. 1984. Ph. D. in Chemistry, Universidad Complutense de Madrid, and Special Award for the Doctoral Thesis, on the subject " Preparation and Study of New Mixed oxocompounds of Sb and Te". 1981-1982. Teaching assistant at the Department of Inorganic Chemistry, Faculty of Chemistry, Universidad Complutense de Madrid. 1986-87. Postdoctoral fellow at the "Instituto de Química Inorgánica Elhuyar, CSIC. 1989-91. Postdoctoral fellow at Institut Laue-Langevin and Centre d'Etudes Nucléaires at Grenoble. 1992. Postdoctoral fellow at Almaden Research Center , IBM, San José, California. From 1989, Senior Scientist at the Instituto de Ciencia de Materiales de Madrid, CSIC. Sabbatical year at the Department of Chemistry of the University of California at Berkeley, with Prof. A. Stacy..

Research activity in the field of the synthesis and characterization of new inorganic materials, specially metal oxides. He has been involved in the preparation and study of materials with unusual electronic and magnetic properties, such as metal-insulator transitions, superconductivity or colossal magnetoresistance. In Grenoble he gained expertise in neutron diffraction techniques applied to the determination of crystal and magnetic structures. At present, he works at the high pressure preparation of transition metal oxides in unusual valence states, with structures related to perovskite (for instance $RNiO_3$ oxides) and pyrochlore (derived of $Tl_2Mn_2O_7$).

More than 160 publications in international journals (list enclosed), and 50 communications in national and international symposia on Solid State Chemistry, Inorganic Chemistry, Materials Science, Crystallography, Synchrotron and Neutron Diffraction, Magnetism, Superconductivity and Colossal Magnetoresistance.

Participated in 19 Research Programs or Projects funded by the Spanish Government or the European Community ; in 8 of which as Leading Scientist. At present, Leading Scientist in a Project funded by the Spanish Comisión Interministerial de Ciencia y Tecnología (CICYT), entitled "Synthesis at high pressure and characterization of new transition metal oxides with unusual oxidation states"

SELECTED PUBLICATIONS

J.L. García-Muñoz, M. Suaaidi, M.J. Martínez-Lope, J.A. Alonso. Influence of Carrier Injection on the Metal-to-Insulator Transition in Electron and Hole doped $R_{1-x}AxNiO_3$ Perovskites. *Phys. Rev. B* 52 (1995) 13563-13569.

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