

PERSONAL DATA

Josep Planelles Fuster, Full Professor. Head of the Quantum Chemistry research group.

Born 15/05/1956 in Borriana (Spain).

Citizenship: Spanish.

Spoken languages: Catalan (mother tongue), Spanish (fluent), English (fluent), French (basic)

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EDUCATION

- **Graduated in Chemistry** at Universitat de València in 1981. Student of the Year Award.
- **Ph.D.** in Quantum Chemistry. Universitat de València (March 1984). Ph.D. supervisor: Prof. F. Tomás. Title of Thesis: "Theoretical Study of Hydrocarbon Cracking Reactions in Acid Catalytic Environments". Ph.D. of the Year.

PROFESSIONAL EXPERIENCE

TEACHING AND RESEARCH POSITIONS

1995-to date: Full Professor at Universitat Jaume I (Physical Chemistry)

1991-1995: Professor at Universitat Jaume I.

1986-1991: Professor at Universitat de València.

1981-1986: Assistant professor at Universitat de València.

ADMINISTRATIVE POSITIONS

1998-2001: Director of the Grade in Chemistry (Universitat Jaume I).

1989-1991: Head of the Chemical Physics Department branch in Castelló (Univ. València).

RESEARCH EXPERIENCE

It covers several fields, mainly catalysis and petrochemistry, the mathematical properties of density operators in relation to statistical spectroscopy of Hamiltonian operators and spin-adapted reduced Hamiltonians, new developments of coupled cluster theory and studies of confined model systems. In recent years my scientific interests have focused on the study of the physical properties of semiconductor quantum dots.

VISITING STAYS

1989: CSIC, Madrid Spain with C. Valdemoro. (9 months).

1993: University of Waterloo (Ontario, Canada), working with Prof. Josef Paldus (12 months).

1989-2002: Several short visits in Torun working with Profs. J. Karwowski and W. Jaskolski (summing up to about 7 months)

PUBLICATIONS

He has published over 130 articles in international peer-reviewed journals. His work has been cited over 1500 times, and his *h*-factor is 20. His works have been done in collaboration with several international and national groups, mainly those of J. Karwowski and W. Jaskolski (U. Mikolaja Kopernika, Poland), J. Paldus (U. Waterloo, Ontario, Canada), C. Zicovich-Wilson (U. Cuernavaca, Mexico), F. Tomás (U. Valencia, Spain), A. Corma (CSIC, Spain), C. Valdemoro (CSIC, Spain), M. Barranco and M. Pi (U. Barcelona). He has also published five textbooks for Chemistry students on Basic Computations in Chemistry, Quantum Chemistry, Group Theory and Spectroscopy.