

CV Summary

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I. Recent Research Lines:

- Molecular Beam Epitaxy of III-Nitrides (from 1995).
- Ultraviolet Detectors based on AlGaIn alloys (from 1997)
- Green Resonant Cavity LEDs based on III-Nitrides (from 2000).
- GaInAsN alloys for Infrared Optical Communications (1.3 to 1.5 microns) (from 2001).
- Self Assembled GaInAlN Nanocolumns. Growth and Basic Properties (from 1999 on).
- White light generation with of nanoLEDs arrays (from 2005 on)
- Micro and nanocavities for Single Photon Sources and Quantum Information technology (from 2005 on).

II. Publications:

- Coauthor of 260 publications in: Phys. Rev. Lett.; Phys. Rev. B; Appl. Phys. Lett., J. Appl. Phys.; Electron. Lett.; Semicond. Sci. & Technol.; phys. stat. sol.; J. Electron. Mater.; J. Cryst. Growth; J. Vac. Sci. & Technol.; Microelectronics Journal; J. Materials Sci. & Technol.; J. Mat. Sci. Eng.; J. Appl. Optics. Cited 3060 times. "h" factor of 31.

III. Communications and Invited Talks:

- 188 Presentations in International Congresses in Europe, USA, Japan, and Canada. 32 Invited Talks.

IV. Participation in National and International Research Projects :

- ESPRIT Proj. (9); ESA-ESTEC (2); COST (1); NICOP-ONR (2); Large Scale FP7 (1)

- 50 Projects from the Spanish Administration (MICINN and CAM).

V. Research Stays:

- Laboratoire d'Automatique et d'Analyse des Systèmes, LAAS, Toulouse, France, 1975-1976 (5 months); 1980 (1 month); 1985 (1 month).
- T.J. Watson Laboratory, IBM, Yorktown Heights, New York, USA, 1985-1986 (1 year); 1989 (1 month). Invited Visiting Scientist.
- Brown University, Dpt. of Electronic Engineering, Providence, USA, 1997 (1 month). Invited Senior Scholar.

VI. Fellowships and Awards:

- Fellowship of the French Government, LAAS, Toulouse, France, 1975-76
- Fellowship from the "Fundación Juan March", Spain 1976-1977
- Fellowship from the CSIC, Spain 1978-1981
- Fellowship of the French Government, LAAS, Toulouse, France, 1980, 1985
- IBM Contract at the T.J. Watson Research Center, Yorktown Heights, New York, USA, 1985-1986.
- Research Award of the Fundación General de la Univ. Politécnica de Madrid. 1998.

VII. Other Activities:

- Referee of: Physical Review Letters, Physical Review B, Applied Physics Letters, J. Applied Physics, Semiconductor Science & Technology, Journal of Physics D, and Applied Physics A.
- Referee of Research Projects: CICYT, CDTI, CAM, and ESPRIT (EU).
- Director of the Instituto de Sistemas Optoelectrónicos y Microtecnología, ISOM (from May 2008 on).
- Member of the Program Committee in 29 International Conferences.
- Program Chairman of 4 International Conferences
- Editor of Solid State Electronics and Journal of Crystal Growth
- External evaluator of the Paul Drude Institute (Berlin) and the Cobra Institute (Eindhoven University of Technology, The Netherlands).
- Supervisor of 10 PhD Thesis.