

NANOMETA 2013

4th International Topical Meeting on Nanophotonics and Metamaterials

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BIOGRAPHY

Prof. dr. Michel Orrit

Leiden Institute of Physics, Leiden University
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PROFESSIONAL EXPERIENCE

Professor of Molecular Physics at Leiden University, Netherlands, since 2001

Leader of the "Single-Molecule Optics" research group

CNRS and University of Bordeaux, France, 1993–2001

Directeur de recherche de 2e classe at CNRS

MPI für Biophysikalische Chemie, Göttingen, Germany, 1985-1986

Post-doctoral Humboldt fellow, with Profs. Hans Kuhn and Dietmar Möbius

CNRS and University of Bordeaux, France, 1979-1984, 1986-1993

Attaché de Recherche, then Chargé de Recherche at CNRS

EDUCATION

Doctorat d'Etat, Université de Bordeaux (France), 1979–1984

Work on molecular crystals under supervision of Prof. Philémon Kottis.

Doctorat de 3eme Cycle, Université de Bordeaux (France), 1978

Diploma in Molecular Physics, October 1978

Ecole Normale Supérieure, rue d'Ulm, and Université Paris VI, Paris (France), 1975–1979

Maîtrise de Physique, DEA Physique Atomique et Statistique (J. Brossel), Agrégation de Physique

AWARDS

1984	Bronze medal of CNRS
1985	Prix Hughes of the French Academy of Sciences
1985	Humboldt fellowship for a research stay in Germany (Göttingen)
1998	Prix Langevin of the French Academy of Sciences
1998	Hans-Sigrist Prize from the University of Bern (Switzerland)
2000	Gay-Lussac Humboldt Prize from AvH-Foundation
2007	Karl-Friedrich Bonhoeffer lecture and medal, MPI Göttingen (Germany)
2008	ERC Advanced Researcher Grant
2010	Harkins Lecturer, University of Chicago (USA); Member Academia Europaea

SELECTED PUBLICATIONS

- **M. Orrit** and J. Bernard (1990) Single pentacene molecules detected by fluorescence excitation in a p-terphenyl crystal. Phys. Rev. Lett. **65** 2716-2719.

- W.E. Moerner and **M. Orrit** (1999) Illuminating Single Molecules in Condens. Matter, Science **283** 1593.
- Ch. Brunel, B. Lounis, Ph. Tamarat, and **M. Orrit** (1999) Triggered Source of Single Photons based on Controlled Single Molecule Fluorescence, Phys. Rev. Lett. **83** 2722.
- D. Boyer, Ph. Tamarat, A. Maali, B. Lounis, **M. Orrit** (2002) Photothermal Imaging of Nanometer-Sized Metal Particles among Scatterers, Science **297** 1160-1163.
- A. Gaiduk, M. Yorulmaz, P. V. Ruijgrok, **M. Orrit** (2010) Room-Temperature Detection of a Single Molecule's Absorption by Photothermal Contrast, Science 330, 353-356.