

CURRICULUM VITAE

Dr. André-Jean ATTIAS Professor

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Date and Place of Birth: 1957, in Paris (France).

Education:

1998 : "Habilitation" degree - Pierre & Marie Curie University (UPMC).
1988: PhD in Macromolecular Chemistry and Physical Chemistry - UPMC.
Dissertation: *Characterization of Polymeric Networks by High-Resolution Solid-State NMR*.
1982: Master degree in Macromolecular Chemistry and Physical Chemistry - UPMC.
1982: Engineer degree from 'Ecole Supérieure de Physique et de Chimie de Paris' (ESPCI).

Professional Experiences:

2002 - present: Professor at the Pierre & Marie Curie University.
2000-2002: Visiting Professor at the Pierre & Marie Curie University.
1992 - 2000: Head of the "Polymer Chemistry" research group at ONERA.
1983 - 1992: Research Engineer at the French Aerospace Research Agency (ONERA)-Paris.

Research Activity:

Founder and head of the "(Macro)molecular Materials for Optoelectronics" research group in the Polymer Chemistry Laboratory -UMR CNRS 7610- at Pierre & Marie Curie University (UPMC).

Research Topics:

Our multidisciplinary research programs are centered on chemical engineering approaches for the design and preparation of novel organic conjugated materials for photonics and electronics. At the interface of chemistry, materials science, and physics, the research activities involve organic and polymer synthesis with controlled architectures, supramolecular chemistry, surface nano-patterning, and material characterizations.

The research interests are currently related to nanotechnologies. The goals are to further the understanding of the structure/properties relationships of materials developed in the group.

Professional Activities:

Reviewer for: *Angewandte Chemie*, *Advanced Materials*, *Chemistry of Materials*, *Chemical Communication*, *Journal of the American Chemical Society*, *Journal of Materials Chemistry*, *Journal of Physical Chemistry*, *Langmuir*, *Macromolecules*, *New Journal of Chemistry*, *Polymer*...

Expert for: French research agencies (ANR, MESR...), Deutsche Forschungsgemeinschaft German Research Foundation (DFG).

Research Group:

The "(Macro)molecular Materials for Optoelectronics" group is one of the five research groups of the Polymer Chemistry Laboratory (LCP). This group founded by Professor Attias (2002) consists of 3 researchers, 6 Ph.D. students, and 3 post-docs.

Key Words:

- Design and synthesis of nanomaterials
- Supramolecular Chemistry,
- 2D and 3D self-organization (liquid crystals, ...),
- Nano-electronics, nano-photonics

Publications and Patents:

- Numerous invited research lectures.
- Numerous invited lectures in international conferences.
- **Significant publications:**
- Bléger, David; Mathevet, Fabrice; Kreher, David; Attias, André-Jean ; Imad Arfaoui, Germain Metgé,; Douillard, Ludovic; Fiorini-Debuisschert, Celine; Charra, Fabrice. Periodic Positioning of Multilayered [2.2]Paracyclophane-Based Nanopillars . *Angewandte Chemie International Edition* (2008), 47, 8412.
- Schull, Guillaume; Douillard, Ludovic; Fiorini-Debuisschert, Celine; Charra, Fabrice; Mathevet, Fabrice; Kreher, David; Attias, Andre-Jean. Single Atom Substitution for Marking and Motion Tracking of Individual Molecules by Scanning Tunneling Microscopy. *Journal of Physical Chemistry C* (2008), 112(36), 14058-14063
- Bléger, David; Mathevet, Fabrice; Kreher, David; Attias, André-Jean; Schull, Guillaume; Douillard, Ludovic; Fiorini-Debuisschert, Celine; Charra, Fabrice. A Surface Non-Covalent Bonding for Rational Design of Hierarchical Molecular Self-Assemblies. *Angewandte Chemie International Edition* (2007), 39, 7404-7407.
- Schull, Guillaume; Douillard, Ludovic; Fiorini-Debuisschert, Celine; Charra, Fabrice; Mathevet, Fabrice; Kreher, David; Attias, Andre-Jean. Selectivity of single-molecule dynamics in 2D molecular sieves. *Advanced Materials* (2006), 18(22), 2954-2957.
- Schull, Guillaume; Douillard, Ludovic; Fiorini-Debuisschert, Celine; Charra, Fabrice; Mathevet, Fabrice; Kreher, David; Attias, Andre-Jean. Single-Molecule Dynamics in a Self-Assembled 2D Molecular Sieve. *Nano Letters* (2006), 6(7), 1360-1363.