

### University education:

- PhD in Materials Science (Université Paul Sabatier, TOULOUSE, 1999): CCVD synthesis of Carbon Nanotubes (CNT) and applications to composite materials.
- "*Habilitation à diriger des Recherches*" (Université Paul Sabatier, TOULOUSE, 2007)

### Awards:

- *Brian Kelly* award (*British Carbon Group*, 2006)
- *Jean Rist* award (*French Society of Materials and Metallurgy*, 2007)
- *Paul Sabatier* award ("*Académie des Sciences, Inscriptions et Belles Lettres*" of Toulouse, 2007)
- Distinguished junior member of the French Chemical Society (2014)
- "Senior researcher" award from the Physical Chemistry Division (French Chemical Soc. and French Physical Soc.) (2016)
- "Scientific excellence" awards (PES) since 2010

178 [publications](#) in peer-reviewed international journals (h-index: 38 [Web of Science])

### Research interests:

Dr E. Flahaut works as a CNRS research director at the CIRIMAT (Inter-University Centre for Research and Engineering of Materials) at the University Paul Sabatier in Toulouse, France. He obtained his PhD in 1999 from the University of Toulouse, in the field of the catalytic chemical vapour deposition (CCVD) synthesis of carbon nanotubes (CNT) and the investigation of CNT-containing nanocomposite ceramics. He has developed a synthesis route allowing the gram-scale synthesis of double-walled CNT (DWNT) with *ca.* 80% selectivity associated to a good purity.

He was a **post-doctoral research fellow** at **Oxford University** in the group of Pr Malcolm Green where he worked on the filling of CNT with 1D-crystals.

His main [research fields](#) are the CCVD **synthesis, functionalisation and filling** of CNT (double-walled CNT in particular), for various applications in the fields of materials (interconnections in nanoelectronics, composite materials, sensors) and bio-medicine (Gadonanotubes for MRI, CNT scaffolds for tissue engineering, cargoes for drug-delivery, etc.). Dr E. Flahaut is working on the human health issues related to CNT and graphene and related materials, including the synthesis and functionalisation **as well as the study of their environmental impact**.

He is expert for the French National Agency for Food, Environmental and Occupational Health & Safety since 2008.