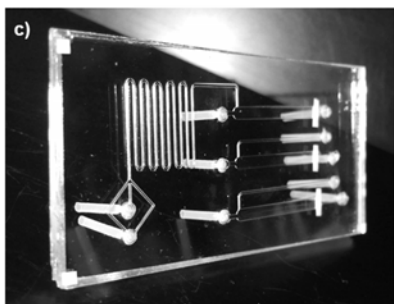


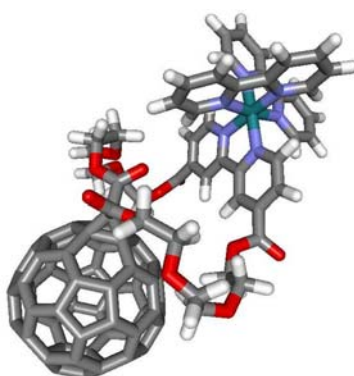
Organic materials group (LAB205) - www.chimica.unipd.it/lab205/publica/
 Dept. of Chemical Sciences, University of Padova, Via Marzolo 1, 35131 Padova (Italy)
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Staff: Tommaso Carofiglio, Enzo Menna, Michele Maggini
 PhD students: Paola Donnola, Marco De Nardi, Filippo Busolo, Elisa Lubian
 Posdoctoral fellows: Pascal Blondeau, Angelo Lembo

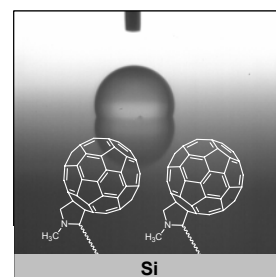
The main expertise of the group is organic synthesis as a tool for the preparation of elaborated functional molecular and supramolecular structures for materials science and technology. The group has a broad experience on the functionalization of fullerenes and carbon nanotubes and on the preparation of π -conjugated oligomers endowed with nonlinear optical properties. A programme is currently active whose objective is the study of the wetting properties of solid surfaces that have been functionalized with organic molecules. Some of the group have hands on a fast prototyping methodology for the fabrication of microfluidic devices based on photopolymerizable resins and on the preparation of prototypes of optical sensors based on polymer beads embedded into glass capillaries at the microscale for the detection of biogenic amines and metals. The group can get access to the recently constituted Nanofabrication Facility (NanoFab, located in the Venice area) which is one of the first European laboratories applying nanotechnology to industrial production.



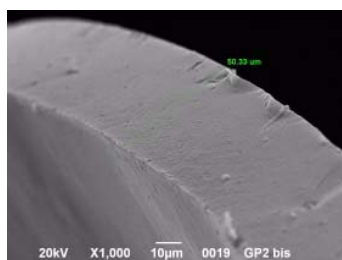
Microfluidic reactors for chemical transformations



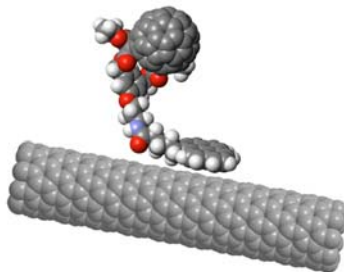
Photochem. Photobiol. Sci. **2006**, 5, 1154



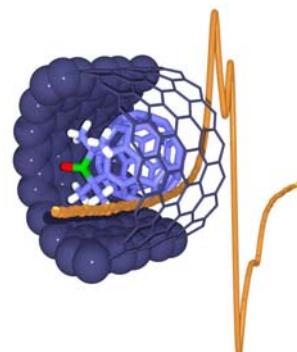
Langmuir **2006**, 22, 8764



Graphite oxide/P3HT intercalation compound



Chem. Eur. J. **2006**, 12, 3975



Small **2008**, in press