



SELF-ASSEMBLED FUNCTIONAL NANOSTRUCTURES: MATERIAL TAILORING FOR ELECTRONICS AND BIO-ELECTRONICS



SCOPE & TOPICS

Self-assembly comprises a wide category of fundamental phenomena that manifest themselves everywhere in Nature. Due to the variety of systems, types of interactions and length scales involved, self-assembly constitutes a very inter-disciplinary field of research. This meeting will bring together international experts with different scientific backgrounds in order to present and discuss recent advances in this highly multi-disciplinary field, pointing to the most advanced techniques to tailor the properties of self-assembled materials for electronics and bio-inspired devices.

In detail, the meeting will focus on:

- Self-Assembly & Supramolecular Architectures
- Organic/Hybrid Electronics and Optoelectronics: Materials & Devices
- Nanowires & Nanoparticles: towards innovative Nanodevices
- Bioinspired Approaches & Biomimetic Devices

INVITED LECTURERS

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|---|--|
| L. De Cola (Univ. Strasbourg, France) | "Functional systems by self-assembly" |
| Gianluca Farinola (Univ. Bari, Italy) | "Multifunctional architectures from molecular semiconductors and biological structures" |
| G. Hadzioannou (Univ. Bordeaux, France) | "Self-annihilation of defects in block copolymers thin films induced by corrugated substrates" |
| Roberto Zamboni (ISOF-CNR, Bologna, Italy) | "Applied molecular materials and natural biopolymers to advanced bio-optoelectronic devices" |
| Marco Sampietro (Politecnico di Milano, Italy) | "Organic photodiodes for indirect X-ray detection" |
| Sami Yunus (IMCN-UCL, Louvain-la-Neuve, Belgium) | "Simple biosensors by ultimate sophistication...
...what Alberto taught me ..." |
| Erika Kozma (ISMAC-CNR, Milano, Italy) | "Semiconducting organic materials for solar energy conversion" |

ORAL AND POSTERS CONTRIBUTIONS

CNR Area of Milano

Conference Room
 Via Bassini 15
 20133—Milano

details and updates:
www.ismac.cnr.it

