



Andrea Minoia

Short CV - May 2010

Software

Linux
Mac OS X
Windows

Scientific

Software

Gromacs
Tinker
Materials Studio
DLPOLY
VMD
Gaussian

Computer

Programming Language

Python
Perl
Bash
TCL
Awk
Fortran
Latex

The Chembytes

Project

Owner and creator of
the Chembytes
Practical wiki on
computational
chemistry:
[http://
chembytes.wikidot.com](http://chembytes.wikidot.com)

Creation of Linux
Virtual Appliances for
VMware to bring a
Linux scientific
environment under
Windows.

Education

- 2008 PhD in Chemistry, orientation Material Science
Title: **Modeling the structure and electronic properties of self-assemblies of functional conjugated molecules**
Pr. R. Lazzaroni - UMONS, Mons Belgium
- 2004 Master in Materials Science (duration 5 years)
Title: **Conformational analysis of oligothiophenes included in zeolite LTL**
Pr. R. Tubino - UNIMIB - Faculty of Materials Science, Milano Italy

Experiences

- 2008- current Postdoc position at Materia Nova research center /UMONS, Mons (Belgium) within the EU HARCANA project.
Topic: **Modeling of CNT-Polymer interactions with force field techniques: MM, MD, Coarse Graining.**
Supervisor: Pr. R. Lazzaroni (UMONS)
- 2007- 2008 EST Researcher at Max Plank Institute for Polymer Research, Mainz (Germany).
Topic: **Training on Coarse Grained methods and applications.**
Supervisor: Dr. D. Andrienko. (MPIP, Mainz)
- 2004-2007 Young Researcher of the European Project Marie Curie Training Network CHEXTAN
Topic: **Modeling chiral supramolecular self-assemblies: structural and electronic properties.**
Supervisor: Pr. R. Lazzaroni (UMONS)

Selected publications

Meyer F.; Minoia A.; Raquez J.M.; Spasova M., Lazzaroni R.; Dubois, P. **"Poly(amino-methacrylate) as versatile agent for carbon nanotube dispersion: an experimental, theoretical and application study"**, J. Mater. Chem. 2010, **20**, 6873-6880.

Boon F.; Desbief S.; Cutaia L.; Douhéret O.; Minoia A.; Ruelle B.; Clément S.; Coulembier O.; Cornil J.; Dubois P.; Lazzaroni R. **"Synthesis and characterization of nanocomposites based on functional regioregular poly(3-hexylthiophene) and multiwall carbon nanotubes"**, Macromol. Rapid Comm. 2010, **31**, 1427 - 1434.

Linares, M.; Minoia, A.; Brocorens, P.; Beljonne, D.; Lazzaroni, R. **"Expression of chirality in molecular layers at surfaces: Insights from modeling"**, Chem. Soc. Rev. 2009, **38**, 806-816.

Katsonis N.; Minoia A.; Kundernac T.; Mutai T.; Xu H.; Ujji-i H.; Lazzaroni R.; De Feyter S.; Feringa B.L. **"Locking of helicity shape complementarity in diarylethene dimes on graphite"** JACS 2008, **130**, 386-387.

Puigmartí-Luis L.; Minoia A.; Ujji-i H.; Rovira C.; Cornil J.; De Feyter S.; Lazzaroni R.; Amabilino D.B. **"Noncovalent control for bottom-up assembly of functional supramolecular wires"**, JACS 2006, **128**(39), 12602 - 12603.

address: Rue de la Victoire 192D/31 B-1060 Brussels (Belgium)
Université de MONS Place du Parc 20 B-7000 Mons (Belgium)

email: andrea.minoia@materianova.be / minoiaa@gmail.com

phone: +32 484 963 159