AtMol newsletter

No 3 - June 2013

www.atmol.eu

AtMol will establish comprehensive process flow for fabricating a molecular chip, i.e. a molecular processing unit comprising a single molecule connected to external mesoscopic electrodes with atomic scale precision and preserving the integrity of the gates down to the atomic level after the encapsulation. Logic functions will be incorporated in a single molecule gate, or performed by a single surface atomic scale circuit, via either a quantum Hamiltonian or a semi-classical design approach. AtMol will explore and demonstrate how the combination of classical and quantum information inside the same atomic scale circuit increases the computing power of the final logic circuit. Atomic scale logic gates will be constructed using atom-by-atom manipulation, on-surface chemistry, and unique UHV transfer printing technology.

6th AtMol internal meeting

Dresden, Germany. October 14-16, 2013

Intranet

The 6th AtMol internal meeting, organised by the Phantoms Foundation (Unit 05) in collaboration with the European Commission, CEMES-CNRS and Dresden University of Technology will take place at the Schloss Eckberg (Dresden, Germany): October 14-16, 2013

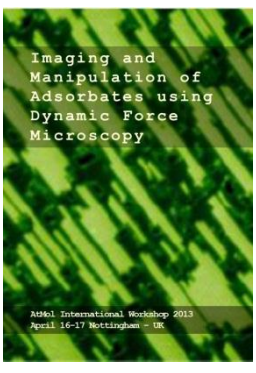
TNT2013 Conference

Seville – Spain Sept 9-13

Antonio M. Echavarren, from the Institute of Chemical Research of Catalonia (Spain), Leonhard Grill, from the University of Graz (Austria) and Philip Moriarty, from the University of Nottingham (UK), confirmed their participation in the 14th edition of the Trends in Nanotechnology International Conference (TNT2013).

AtMol International Workshop (Nottingham, UK)

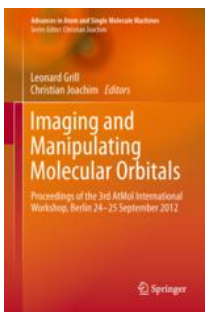
Abstracts Book Available



Dynamic force microscopy (also known as non-contact atomic force microscopy) has evolved rapidly over the past decade to become an extremely powerful technique capable of not only ultrahigh resolution imaging and spectroscopy, but the precise positioning of individual adsorbed atoms and molecules.

Proceedings of the 3rd AtMol International Workshop, Berlin

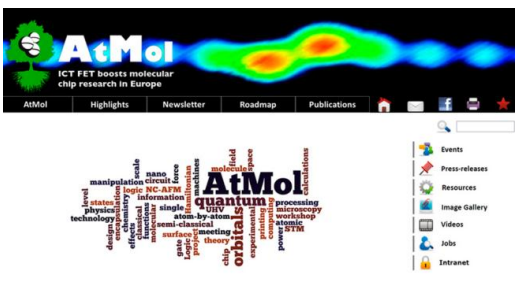
Imaging and Manipulating Molecular Orbitals



This book summarizes the advances in the field from various groups around the world who use a broad range of experimental techniques: scanning probe microscopy (STM and AFM), field emission microscopy, transmission electron microscopy, attosecond tomography and photoemission spectroscopy.

New AtMol web site released Feb. 2013

www.atmol.eu



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