

NIS Colloquium

Solar energy conversion in nanostructured photocatalysts
Torino, 18 – 19 October 2007

Thursday 18 October 2007 Aula Avogadro Via Pietro Giuria 7

11.00-12.30	IDECAT meeting WP8	
14.20 -14.30	Ezio Pelizzetti, Rettore	Greeting
	Adriano Zecchina	Openings
14.30-14.50	Terry. A. Egerton <i>Sc. of Chem. Eng. and Advanced Materials, Newcastle-Upon-Tyne, United Kingdom</i>	The influence of platinum on UV and Visible Photocatalysis by rutile and Degussa P25 forms of TiO ₂ .
15.00-15.20	Hermenegildo Garcia <i>Univ Politecnic Valencia, Spain</i>	Enhancement of the TiO ₂ photocatalytic activity by spatial structuring from subnanometric to submillimetric length scale
15.30-15.50	Vasile Parvulescu <i>Dep. Chem Tech and Catalysis Bucharest Romania</i>	Embedded complexes versus titania doped catalysts in photodecomposition of yperite
16.00-16.20	Elio Giamello <i>NIS, Torino Italy</i>	Tailoring chemical and photochemical properties of TiO ₂ via doping with p-block elements
16.30-17.00	Coffee-break	
17.00-17.20	Pawel Nowak <i>Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences Krakow</i>	Doping of TiO ₂ by transition metal ions and its influence on the charge transfer processes at the interface TiO ₂ /aqueous electrolyte solution
17.30-18.00	Martra-Maurino <i>NIS, Torino, Italy</i>	Fluorination of TiO ₂ : effects on photocatalytic activity and surface states
18.10-18.30	Diego Pellerej <i>NIS, Torino, Italy</i>	Measuring the activity of photoactive cement-based materials.

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9.00-9.20	Laura Meda <i>ENI, Istituto Donegani, Novara</i>	Photoelectrolysis for Water Splitting
9.30-9.50	Kevin Sivula <i>Lab. de photonique et interfaces, EPFL Suisse</i>	α - Fe ₂ O ₃ nanostructures for photoelectrochemical water splitting
10.00-10.20	Thomas Brown, <i>Dip. Ingegneria Elettronica, Tor Vergata, Italy</i>	Dye Sensitized Solar Cells: fundamentals and industrial development
10.30-11.00	Coffee-break	
11.00-11.20	Claudio Manfredotti <i>NIS, Torino, Italy</i>	New nanostructural approaches to Dye Sensitized Solar Cells
11.30-11.50	Giacomo Bergamini <i>Dipartimento di Chimica G. Ciamician, Bologna, Italy.</i>	Photoactive dendrimers
12.00-12.15	Gian Luca Chiarello <i>Dip. Chim. Fis ed Electrochimica Milano, Italy</i>	Photocatalytic H ₂ production from water splitting on one step flame synthesised TiO ₂ and Au/TiO ₂
12.20-12.35	Rosalba Passalacqua <i>Dip. Ing. Chimica e Ing. Materiali Messina, Italy</i>	Ordered nanostructured TiO ₂ thin films for H ₂ production by H ₂ O splitting
12.40-12.55	Federico Cesano <i>NIS, Torino, Italy</i>	Nanostructured carbon/oxide composites for potential applications in solar energy conversion
lunch time		
afternoon	Project discussion	