

## PHYSICS AND TECHNOLOGY OF ELEMENTAL, ALLOY AND COMPOUND SEMICONDUCTOR NANOCRYSTALS: MATERIALS AND DEVICES

### Reporting

**Project Information** 

SEMINANO

Grant agreement ID: 505285

Project website 🗹

Start date 1 September 2004 End date 31 August 2007 Funded under FP6-NMP

Overall budget € 2 977 432

EU contribution € 2 219 556

Coordinated by MIDDLE EAST TECHNICAL UNIVERSITY Turkey

# Final Report Summary - SEMINANO (Physics and technology of elemental, alloy and compound semiconductor nanocrystals: materials and devices)

The primary objective of the SEMINANO project was to enhance fundamental knowledge with regard to production techniques, characterisation as well as implementation methods for semiconductor nanocrystals as well as for light-emitting devices and floating gate memories.

The main research activities can be subsumed under the three following broad fields:

- The physical and chemical background which conduce toward the formation of several elemental, alloy and compound semiconductor nanocrystals as well as the charge transport and light-emitting mechanisms;

The methods and technology which lie behind for obtaining new meterials with well observatorized

- The methods and technology which he benind for obtaining new materials with well characterised nanocrystals suitable for use in devices;

- The design, fabrication and test of Metal oxide semiconductor (MOS) structures for use in flash memories as well as in Light-emitting diode (LED) devices.

### **Related documents**

127976781-19\_en.doc

### Other documents

Physics and Technology of Elemental, Alloy and Compound Semiconductor Nanocrystals: Materials and Devices (SEMINANO) - Publishable Final Activity Report

Last update: 3 October 2012 Record number: 51064