

NANOSTIINTA SI NANOTEHNOLOGII

(Clasificare utilizata de Comisia Europeana)

1. NANOTEHNOLOGII PENTRU APLICATII STRUCTURALE

- 1.1. Nano-pulberi ceramice
- 1.2. Materiale compozite continind nano-cristale sau nano-pulberi
- 1.3. Materiale pe baza de nanotuburi de carbon sau fullerene
- 1.4. Straturi de acoperire cu nanoparticule
- 1.5. Metale si aliaje nanostructurate

2. NANOTEHNOLOGII PENTRU PROCESAREA, STOCAREA SI TRANSMITEREA INFORMATIILOR

- 2.1. Nano-electronica, materiale si dispozitive
- 2.2. Materiale si dispozitive pentru aplicatii optice si opto-electronice
- 2.3. Materiale si dispozitive magnetice
- 2.4. Optoelectronica pe baza de materiale organice
- 2.5. Materiale si dispozitive pentru nano-mecanica
- 2.6. Altele

3. NANO-BIOTEHNOLOGII

- 3.1. Incapsularea medicamentelor
- 3.2. Recunoastere moleculara si eliberarea controlata/dirijata a medicamentelor
- 3.3. Materiale si straturi biocompatibile
- 3.4. Analize moleculare si de ADN
- 3.5. Interfete biologice-anorganice
- 3.6. Recunoastere moleculara si diagnosticare
- 3.7. Altele

4. NANOTEHNOLOGII PENTRU APLICATII IN CHIMIE

- 4.1. Filtrare
- 4.2. Catalizatori sau electrozi cu suprafata nano-structurata
- 4.3. Sinteze chimice, chimie supra-moleculara
- 4.4. Altele

5. NANOTEHNOLOGII PENTRU SENZORI

- 5.1. Senzori nano-structurati
- 5.2. Senzori pe baza de molecule biologice
- 5.3. Altele

6. CERCETARE PE TERMEN LUNG CU UN SPECTRU LARG DE APLICATII

- 6.1. Auto-asamblare
- 6.2. Fizica cuantica, sisteme mezoscopice
- 6.3. Interfatarea la molecule organice/biologice
- 6.4. Inginerie de ultra-precizie
- 6.5. Altele

7. INSTRUMENTE SI ECHIPAMENTE CA SUPORT PENTRU STIINTA SI TEHNOLOGIE

- 7.1. Echipamente si tehnici analitice
- 7.2. Echipamente de putere
- 7.3. Tehnici si echipamente de depunere
- 7.4. Tehnici si echipamente de structurare
- 7.5. Metrologie de ultra-precizie
- 7.6. Altele

NANOSCIENCE AND NANOTECHNOGY

(Classification used by the European Commission)

1. NANOTECHNOLOGY FOR STRUCTURAL APPLICATION

- 1.1. Nano-powdered ceramics
- 1.2. Composite materials containing nano-crystals or powders
- 1.3. Materials based on carbon tubes or fullerenes
- 1.4. Nano-particulate coatings
- 1.5. Nano-structured metals and alloys
- 1.6. Other

2. NANOTECHNOLOGY FOR INFORMATION PROCESSING STORAGE AND TRANSMISSION

- 2.1. Nano-electronics, materials and devices
- 2.2. Opto-electronics/optical materials and devices
- 2.3. Magnetic materials and devices
- 2.4. Organic (opto)electronics
- 2.5. Nano-mechanical devices and materials
- 2.6. Other

3. NANO-BIOTECHNOLOGY

- 3.1. Drug encapsulation
- 3.2. Targeted drug delivery, molecular recognition
- 3.3. Bio-compatible materials and layers
- 3.4. Molecular analysis, DNA analysis
- 3.5. Biological/inorganic interfaces and hybrids
- 3.6. Diagnostics, molecular recognition
- 3.7. Other

4. NANOTECHNOLOGIES FOR CHEMICAL APPLICATIONS

- 4.1. Filtration
- 4.2. Catalysts or electrodes with nano-structured surface
- 4.3. Chemical synthesis, supra-molecular chemistry
- 4.4. Other

5. NANOTECHNOLOGIES FOR SENSOR APPLICATIONS

- 5.1. Nano structured sensors
- 5.2. Sensors based on biological molecules
- 5.3. Other

6. LONG TERM RESEARCH WITH GENERIC APPLICATIONS

- 6.1. Self-assembly
- 6.2. Quantum physics, mesoscopic systems, chemical
- 6.3. Interfacing to organic/biological molecules
- 6.4. Ultra-precision engineering
- 6.5. Other

7. INSTRUMENTS AND EQUIPMENT SUPPORTING SCIENCES AND TECHNOLOGIES

- 7.1. Analytical equipment and techniques
- 7.2. Power production and processing

- 7.3. Deposition equipment and techniques
- 7.4. Patterning equipment and techniques
- 7.5. Ultra-precision metrology
- 7.6. Other