Anexa 2.1 Exemple de cautare avansata in bazele de date NANOPROSPECT

NANOPROSPECT databases

- Advanced Search form -

click here for an example to see how the search is done

Total number of records in database: **2841**

Keywords	carbon nanotube ☐ thick this box to search for the exact expresion entered above
	☐ Organizations **[36]**
	☑ Groups active in nanotechnologies **[157]**
	☐ Specialists active in nanotechnologies **[590]**
	☐ Infrastructures **[26]**
	☐ Partnerships **[41]**
	☐ Equipments **[352]**
	☑ Projects (relevant for nanotechnologies) **[309]** • Type of project ☐ National **[233]** ☑ International **[76]** • Fields of application ☐ Fundamental research **[75]** ☐ Nano tools **[20]** ☑ Nanoelectronics and photonics **[61]** ☐ Bio-nanosystems **[52]** ☐ Chemical and related industries **[9]** ☐ Nuclear technology **[1]** ☑ Energy technology **[23]** ☐ Processing industry **[33]** ☐ Transport technology **[4]** ☐ Environment **[20]** ☐ Toxicology **[6]** ☐ Ancient and historical systems **[0]** ☐ Security and safety **[5]**
	☐ Published patents relevant to nanotechnologies **[87]**
	☐ Scientific papers related to nanotechnology published in periodicals (journals) **[1103]**
	☐ Products **[31]**
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	Search

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ORGANIZATIONS - Identification data

Organization full name	National Institute for Research and Development for Microtechnologies
Name of the organization (in Romanian)	Institutul National de Cercetare Dezvoltare pentru Microtehnologie
Acronym in English (if any)	IMT-Bucharest
Acronym (original, in Romanian)	IMT-Bucuresti
Type of organization	National Institute for R&D (institution of public interest)
Non-juridic person (explain, if this is the case)	-
Domain of activity (official text)	National Institute's main activity according to HG 998/2006: A. Research and Development activities in the Micro-technologies domain (Romanian code CAEN 7310) 1. In the National Research, Development and Innovation Plan: a) Advanced research in the microsystems domain, such as: experimental investigations, modeling and simulation, architectures of computational intelligence, biological-inspired systems, biotechnical systems, nanotechnologies – including materials, technologies and specific micro-structures; b) Cooperation in fundamental research from physics, chemistry and biology using micro-system techniques; c) Pre-competitive and applicative research in the micro-engineering domain, such as: micro-mechanics, micro-optical, micro opto-electro-mechanic systems etc; d) Technological development in the micro-fabrication domain, with applications in electronics, electrical engineering, optics, fine mechanics, spatial and nuclear technology, biotechnologies etc; e) Applicative research with pre-competitive character in microtechnologies and micro-systems; f) Experimental modeling, testing and homologation stand, experimental equipment for product characterization and fabrication in the activity domain, demonstrative stands; g) Studies and applicative research development for the reorganization, retechnologization and modernization of certain branches and activity sectors and also some economic companies in the field; h) Strategy development, diagnose and foresight studies concerning science and technology development in its main activity field; i) Standardization, metrology and quality certification; 2. Other activities in scientific research and technological development: a) Applicative research and/or technological development for solving specific problems in its activity domain; b) Cooperation in the physics, chemistry and biology fundamental research; 3. Scientific research activities, technological and innovative development for branch plan and coreprograms achievement; 4. Research-development activities within the International Research, Development and Innovation programs. B. Activities adjacent to the research and development

Relevance for nanotechnologies	activities, carried out in the main activity domain, with the approval from the coordinator, and, if necessary, with the approval of the qualified institutions, including: a) Taking part in the elaboration of the strategy of the domain (Romanian code CAEN 7310); b)Technical assistance, consulting, scientific and technological services provided (including the access to the informational technology) to economic entities and to any interested beneficiary (Romanian code CAEN 7420) c) Cooperation in organizing technical assistance and technological transfer activities for medium and small enterprises (Romanian code CAEN 7420) d) Organizing the International Semiconductor Conference (CAS) and other National and International scientific manifestations, periodically or occasionally (Romanian code CAEN 9112) e) Testing products to be certified (Romanian code CAEN 7430) f) Editing technical and scientific publications (Romanian code CAEN 2211) C. Professional training and specialization in the activity domain (Romanian code CAEN 8042): 1. Organizing specialized intensive courses and training courses in the National Institute's activity domain for the personnel (permanent or temporary transferred) as well as for other participants in this country or abroad; 2. Cooperation and organizing multi-disciplinary courses at a Post-Universitary level in certified schools 3. Doctorate activities organized according to the current legislation. D. Designing and fabricating unique devices and small scale series (Romanian code CAEN 3210) ART. 5 Within its main activity, the National Institute is able to collaborate in some research and development activities concerning strategic domains and national defense or can develop other adjacent activities, with the coordinator's approval. Department for scientific and technological research (Scientific Director:Dr. Raluca Muller) The Department for scientific and technological research is composed of 4 centers, grouping 10 R&D laboratories in micro- and nanotechnologies: 1. MIMOMEMS: European Research Centre of Excellence "Micro- and nanosystems for radiofrequency and photonics"-Coordinator: Dr. Alexandru Muller; L3-Micromachined structures, microwave circuits and devices Laboratory; L4-Micro and Nano-Photonics Laboratory; 2.CNT-IMT: "Centre of Nanotechnologies" (under the aegis of the Romanian Academy) -Coordinator: Prof. Dan Dascalu; L1 - Laboratory of nanobiotechnologies; L6- Laboratory for characterization and structuring at the "nano" scale; L9 - Laboratory of molecular nanobiotechnology 3. CINTECH: "Research centre for integration of technologies" (micro-nano-biotechnologies) -Coordinator: Dr. Mircea Dragoman; L2-Laboratory of microsystems in biomedical and environment applications; L8-Laboratory for ambiental technologies; L10-Micro- and nanofludics Laboratory; 4. CENASIC: R&D centre for nanotechnologies and carbon, Coordinator: Dr. Radu Popa; L5- Simulation, Modeling and Computer Aided Design Laboratory L7- Reliability Laboratory
Name of the legal representative	Dan
Surname of the legal representative	DASCALU
Title	Prof.
E-mail of the legal representative	dan[dot]dascalu[at]imt[dot]ro

Phone number (organisation)	+40-21-269.07.70
Fax number (organisation)	+40-21-269.07.72
Organization web page	www.imt.ro
Office address (main location)	126A, Erou Iancu Nicolae street, 077190, Bucharest, ROMANIA
Postal address (P.O. Box, Code etc.), if different from the above.	PO-BOX 38-160, 023573 Bucharest, ROMANIA

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Groups active in nanotechnologies

ORGANIZATION: Institutul National de Cercetare-Dezvoltare pentru Fizica Laserilor, Plasmei si Radiatiei

Group name	Photonic processing of advanced materials
Group type (type of entity specific to the respective organization)	Lasers Departament
Postal address/location of the group, if different from organization	MG-16, Magurele
Nature and field of activity	Laser processing of advanced materials
Short description of competences and skills of the group, as related to nanoscience and nanotechnology	i) studies regarding the generation and characterization of metallic and ceramic nanoparticles by laser ablation, in gaseous atmosphere or in liquid; ii) nanostructuring by laser direct writing and two photon polymerization; iii) laser induced forward transfer of nanometer sized pixel thicknesses (LIFT), iv) manufacturing of nanotubes from organic-metallic compounds; v) matrix assisted pulsed laser evaporation (MAPLE) and pulsed laser deposition (PLD) of nanoparticle and nanometric sized structures; vi) deposition and characterization of nanometer size heterostructures with functional properties by radio-frequency assisted pulsed laser deposition (RF-PLD); nanostructure and nanoparticle characterization by atomic force microscopy, x-ray diffraction, and spectro-ellipsometry.
First name of the contact person (group coordinator)	Maria
Surname (family name) of the contact person	Dinescu
Contact person official function	CS I
Title	Prof.
Contact person e-mail	dinescum[at]nipne[dot]ro
Contact person phone	0214574414
Available fax	0214574467
Web page (if any)	http://ppam.inflpr.ro

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Specialists active in nanotechnologies

ORGANIZATION: Institutul National de Cercetare-Dezvoltare pentru Metale Neferoase si Rare

R&D GROUP: Nanostructured Materials Laboratory

Specialist first name	Roxana Mioara
Specialist surname (family name)	Piticescu
Specialist function (position)	CS I
Title	Dr.
Specialist birth year	1959
Specialist e-mail	roxana[at]imnr[dot]ro
Specialist phone	0040213522046
Specialist fax	0040213522048
Specialist background studies (speciality, university, year)	University POLITEHNICA Bucharest, Faculty of Industrial Chemistry, Organic Chemical Technology Department, 1983
Specialist scientific degree (Ph. D.) (speciality, university, year)	PhD in the field of Applied Physical-Chemistry and Electrochemistry, University POLITEHNICA Bucharest, 1997
Is the specialist supervising Ph. D. studies ?	Yes
Is the specialist teaching at the University ?	Yes

Professional Career and Experience:
- Diplomat engineer - Research Institute for rubber and Plastics, Bucharest (1983-1985); Diplomat engineer - Institute for Oncology Bucharest (1985-1987); Institute for Inorganic Chemistry and Non-ferrous Metals-IAMN Bucharest (06/1990- scientific researcher); Institute for Non-ferrous and Rare Metals SA (09/1995- scientific researcher 3, 07/2000- scientific researcher 1); 01.2005-present National R&D Institute for Nonferrous and Rare Metals, 2006- 2009 National R&D Institute for Nonferrous and Rare Metals, head of Nanostructured Materials Laboratory; 2010- present National R&D Institute for Nonferrous and Rare Metals, Scientific Director
- Director of R&D national projects (Matnantech, CEEX, PN2-Parteneriate); project director Phare TTQM 1135 (2000), responsible from IMNR in Thematic network G5RT-CT-2001-05024 Polar Electroceramics (2001-2007); responsible from IMNR in G5ST-CT-2002-50358 CRAFT -"METMICOATED" (2003-2005); project participant FP5-GRD 3-2001-60007 Micromaking (2002-2004), FP 6-

Brief CV	NMP2-CT 2006-026467 Manudirect (2006-2010), FP7-NMP 2008-Large 228814 Supersonic (2009-2013); Scientific responsible of several national projects. Member in the Management Committee for the following actions COST D30 (2004-2007), 525 (2004) and TD0802 (2009-2012). Scientific Responsible of bilateral projects Romania-Greece (2005-2006) and Romania-China (2006-2008; 2009-2010) - Member in European Technological Platform of Nanomedicine (2007-present) - Romanian expert in COST DC_MPNS Materials, Physical and Nanosciences 2010- present - Member of Romanian Association of New Materials (founding member), Romanian and European Ceramic Society, Romanian and European Society for Biomaterials Specialization and qualification: March 2011 “Trainer for trainers course” certified by National Council for Professional Forming of Adults; November 2008- Post-graduate course: Design and Management of European Projects, UPB and the Chamber of Commerce of Bucharest; March 2008- Course concerning the Management of European projects, All Consulting, Bucharest; 21-24.11.2006; Course concerning the quality management system “SREN-ISO/CEI 17025:2005, Romanian Standardization Association, Bucharest, Romania ; November 2004-January 2005, NATO fellowship, CNRS/PROMES, Odeillo, France; 1999-2004 : working stages in the field of nanomaterials synthesis and characterisation at Politecnico di Torino-Italy, ICMAB Barcelona-Spain, CNRS/PROMES Odeillo, France Research Interest: Chemical synthesis (hydrothermal) of nanostructured powders; Nanostructured films by electrochemical deposition and spin-coating; Synthesis of hybrid nano-bio - material at high pressures and low temperatures; Obtaining nanostructured composite materials; Hybrid nanomaterials characterisation by UV-VIS and FT-IR spectroscopy; Thermodynamic calculations using HSC Chemistry 6.0 software Main Achievements: 2 books, 51 papers, one Romanian patent and one Romanian patent request on nanobiomaterials

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Equipments

ORGANIZATION: Institutul National de Cercetare Dezvoltare pentru Fizica Materialelor

R&D GROUP: Surface and interface physics, X-ray spectroscopy

SPECIALIST: Cristian Mihail Teodorescu

Equipment name (in full) and code of the product	X-ray absorption fine structure spectrometer
Type of equipment	SEM, FIB, TEM, XRD - beam characterization
Short description	This setup allows recording of X-ray absorption spectra (XAS, XANES, EXAFS, NEXAFS) by using a laboratory setup. Such measurements usually require synchrotron radiation, but the laboratory setup in NIMP allows similar performances as a third generation synchrotron in about 5 times more measurement time. This is the first such setup ever installed in Europe. To our knowledge, a second similar setup is about to be installed in Barcelona.
Main technical characteristics	X-ray source with microfocus and 300 W of total power. The maximum acceleration voltage is 40 kV. The setup was delivered with a complete set of monochromators, anodes and filaments. It allows recording in reasonable time of the following spectra, even for diluted samples: - X-ray absorption structure (XAS); - extended X-ray absorption fine structure (EXAFS); - near-edge X-ray absorption fine structure (NEXAFS); - X-ray absorption near-edge spectroscopy (XANES). The measurements may be performed both in transmission and fluorescence mode, therefore the setup is well suited for thin layers, interfaces and heterostructures.
Equipment value (orientative price, in Euro), not mandatory	300 000
Manufacturer name and address (country)	Rigaku Corporation 4-14-4, Sendagaya, Shibuya-Ku, Tokyo 151-0051, JAPAN
Year of fabrication	2011
Date of installation (month, year)	february 2011
Fields of utilisation	- diluted samples; - catalysis and photocatalysis; - amorphous materials; - interfaces and heterostructures.
Contact person (in charge with equipment in this organization) **first name**	Cristian Mihail
Contact person surname (family name)	Teodorescu
Title	Dr.
Contact person e-mail	teodorescu[at]infim[dot]ro
Contact person phone	+40213690170
Available fax	+40213690177

Dedicated web page presenting the equipment (if any)	www.infim.ro

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Infrastructures

ORGANIZATION: Institutul National de Cercetare Dezvoltare pentru Microtehnologie

SPECIALIST: Dan DASCALU

Infrastructure name	Center for Micro-Nanofabrication
Infrastructure acronym	IMT-MINAFAB
Infrastructure entity type	Centre of services
Is this infrastructure a legal person ?	No
Infrastructure status (acreditation, ISO certified, etc.)	Certified ISO 9001-2008
Infrastructure objectives (specify)	- represents an advanced technological interface of IMT-Bucharest for national and international collaborations, cooperation or services dedicated to industry - plans to become an essential platform of interaction in nanoscience and nanotechnologies in a future national network for knowledge and technology transfer
Brief description (including a short list of relevant equipments, if necessary)	IMT-MINAFAB is a state of the art facility for interdisciplinary research in nanotechnologies, operating since September 2008. The center offers complete technological flows: HPC and CAD tools, mask shop sector, nano-bio fabrication, analysis and characterization, reliability tests. • Class 1,000 clean room (220 sqm effective) for the mask shop and the most demanding technological processes. • Class 100,000 “grey area” clean room (200 sqm effective), mostly for advanced characterization equipments. • Class 10,000 clean room (120 sqm effective) for thin films by CVD techniques, dry-etching, RTP, etc. (to become operational). • Advanced laboratories for Rapid Prototyping, Reliability testing, and High-power computing. Mostly relevant equipments in IMT-MINAFAB: - Nanolithography: Electron beam lithography and nanoengineering workstation - e_Line (Raith, Germany); Dip Pen Nanolithography Writer - NSCRIPTOR (NanoInk, USA) - Photolithography: Laser lithography system - DWL 66 fs (Heidelberg Instruments Mikrotechnik, Germany); Double Side Mask Aligner - MA6/BA6 (Suss MicroTec, Germany) - Physical depositions: Electron Beam Evaporation an DC sputtering system - AUTO 500 (BOC Edwards, UK) - Chemical depositions: PECVD - LPX-CVD, with LDS module (STS, UK) - Dry etching: ICP-RIE (Oxford Instruments, UK) - Beam characterization: FEG-SEM - Nova NanoSEM 630 (FEI Company, USA); X-ray Diffraction System (triple axis rotating anode) - SmartLab (Rigaku, Japan) - Scanned Probe characterization: NSOM - Witec alpha 300S (Witec, Germany); Nanomechanical characterization - Nano Indenter G200 - (Agilent, USA); Scanning Electrochemical Microscope - ElProScan (HEKA, Germany) - Nano-bio: Micro-Nano Plotter - OmniGrid (Genomic Solutions Ltd., UK); Nanoparticle analyzer - DelsaNano (Beckman Coulter, USA) - Spectrometry: HR Raman - LabRAM HR 800 (HORIBA Jobin Yvon, Japan)
Location	Contact Person: Dr. Radu Popa, radu[dot]popa[at]imt[dot]ro; IMT-Bucharest - 126A Erou Iancu Nicolae, Bucharest 077190

Is this infrastructure part of a network ? Please explain	No
Contact person first name	Dan
Contact person surname (family name)	DASCALU
Contact person official function	CEO and President of the Board
Title	Prof.
Contact person e-mail	dan[dot]dascalu[at]imt[dot]ro
Contact person phone	+40-21-269.07.70
Available fax	+40-21-269.07.72
Dedicated web page (if any)	www.imt.ro/MINAFAB; http://www.imt.ro/MINAFAB/description.htm

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Partnerships

ORGANIZATION: Institutul National de Cercetare-Dezvoltare pentru Metale Neferoase si Rare

R&D GROUP: Nanostructured Materials Laboratory

SPECIALIST: Radu Robert Piticescu

Level of partnership	Organization
Partnership / affiliation name	Association NANOfutures
Partnership acronym	NANOFUTURES
Partnership description including type of document (agreement etc.). Note: a framework-type agreement (not a contract with a well defined objective)	European initiative for sustainable development by Nanotechnologies
Partner / main partner or partners (specify details)	Coordinator: Paolo Matteazzi, CSGI Italy Secretary: Thomas Zadrozny
Contact person (in charge with partnership in this organization) **first name**	Radu Robert
Contact person (in charge with partnership in this organization) **surname** (family name)	Piticescu
Contact person official function	associate member
Title	Dr.
Contact person e-mail	rpiticescu[at]imnr[dot]ro
Contact person phone	0040213522046
Available fax	0040213522045
Dedicated web page (if any)	www.nanofutures.eu

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Projects (relevant for nanotechnologies)

ORGANIZATION: Institutul National de Cercetare-Dezvoltare pentru Fizica Laserilor, Plasmei si Radiatiei

R&D GROUP: Laser - Surface - Plasma Interactions Laboratory

SPECIALIST: Ion Mihailescu

Project name	New carbon-hydroxyapatite nanocomposites on metallic bases applied in medicine
Project acronym	DIAHAP
Type of project	International
Financing body	EU
Programme name	MNT ERA-Net
Starting date (month/year)	January 2009
Ending date (month/year)	December 2009
Short description (abstract)	To produce a successful biomaterial which will survive in the body for a long time, the materials need to be developed specifically for clinical applicatio ns. The primary requirements are biocompatibility, that is the material is not toxic and has appropriate mechanical properties in terms of stiffness and strength.
Fields of application	Bio-nanosystems
Keywords	biomedicine
Budget (in Euro), not mandatory	185.000 RON for Romanian part
Beneficiary (if different from financing body)	EU
Coordinator (only for international projects, for NATIONAL projects the coordinator is the organization introducing the project)	Technical University of Lodz
Partners	Military University of Technology (MUT) Warsaw
First name of the contact person (project coordinator, etc.)	Ion
Surname (family name) of the contact person (project coordinator, etc.)	Mihailescu
Contact person responsability in this project	project manager of the Romanian part
Title	Prof.
Contact person e-mail	ion[dot]mihailescu[at]inflpr[dot]ro
Contact person phone	0040214574491
Contact person fax	0040214574491
Web page presenting the project (if any)	-

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Scientific papers related to nanotechnology published in periodicals (journals)

ORGANIZATION: Institutul National de Cercetare Dezvoltare pentru Microtehnologie

R&D GROUP: CENASIC - R&D centre for nanotechnologies and carbon –based nanomaterials

SPECIALIST: Monica Veca

Scientific paper title	Metallic Single-Walled Carbon Nanotubes for Conductive
Publication / Journal name	Journal of the American Chemical Society.
ISI rated	Yes
Publication / Journal year	2008
Publication / Journal number	130
Publication / Journal initial page no.	1415
Publication / Journal final page no.	1419
First author	Wang, W.
All authors	Wang, W.; Fernando, K. A. S.; Lin, Y.; Meziani, M. J.; Veca, L. M.; Cao, L.; Zhang, P.; Kimani, M. M.; Sun, Y.-P.
Abstract	This article reports an unambiguous demonstration that bulk-separated metallic single-walled carbon nanotubes offer superior performance (consistently and substantially better than the as-produced nanotube sample) in conductive composites with poly(3-hexylthiophene) and also in transparent conductive coatings based on PEDOT:PSS. The results serve as a validation on the widely held view that the carbon nanotubes are competitive in various technologies currently dominated by conductive inorganic materials (such as indium tin oxide).
Why is this paper relevant, e.g. number of citations (excluding self-citations)	no. of citations - 36

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Books related to nanotechnologies

ORGANIZATION: Universitatea POLITEHNICA din Bucuresti

R&D GROUP: Center of Surface Science and Nanotechnology

SPECIALIST: Marius Enachescu

Title of the book	Adsorption of P, S, As, Se, and Sb on metals, alloys and semiconductors
List of authors (use the full name of specialists from your organisation)	M. Enachescu and M. Salmeron
Editors	"Physics of Covered Solid Surfaces", editor H. P. Bonzel; Landolt-Börnstein Series on Numerical Data and Functional Relationships in Science and Technology, Vol. III/42/A3, pp. 2-61 Springer-Verlag Berlin Heidelberg New York - Germany, May 2003; (ISBN 3-540-44341-X)
Publishing house	Springer-Verlag Berlin Heidelberg New York
Year first printing, reprinting, other editions	2003
Total number of pages	60
Short description (e.g. abstract)	Surface Science issues
Available in electronic form ? Explain	-
Contact person for furher questions	Marius ENACHESCU, marius[dot]enachescu[at]upb[dot]ro