Institute for Advanced Materials
InaMat

NEW MATERIALS FOR SENSORS AND ACTUATORS

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www.unavarra.es/inamat

Public University of Navarra (UPNa)

FUNDACIÓN CAJANAVARRA
Obra Social "la Caixa"

UPNa

UPNa : 26 research groups in the area of Engineering and Technology
33 in the area of Basic Sciences and Health
21 in Economic and Legal Sciences and
26 in the area of Human and Social Sciences.

4 University Research institutes:

ISC – Institute of Smart Cities

INAMAT – Institute for Advanced Materials

INARBE– Institute for Advanced Research in Business and Economics

ISFOOD – Research Institute for Innovation & Sustainable Development in Food Chain

STRATEGIC Areas (Application)

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Energy

- **Biofuels**
- **Hydrogen Economy**
- **Solar cells**
- **Energy Harvesting**
- **Revaluation of CO_2**

Health

- **Bacterial biofilms**
- **Drug Synthesis**
- **Bio-medical Applications**
- **Food Quality Control**

Environment

- **Treatment-optimization of water resources.**
- **Solid Waste**
- **Chemical sensors**
- **Magnetic sensors**
- **Acoustics**

Industry

- **Surface treatments**
- **LIBS-Laser**
- **Sensors**
- **Data management**
- **Big Data**
- **Behavior in service**

Mathematical support (group theory, differential equations, statistics, finite elements, Monte Carlo simulation etc.)

Research activity

InaMat focuses its research activity in the following General Lines:

- Materials: Metals and Alloys, Magnetic Materials, Shape memory alloys, Polymers, Semiconductors, hybrid materials
- Magnetic devices, sensors and actuators. LIBS
- Catalysis, drugs synthesis and nanoparticle surface functionalization

Human Resources and Production

40 Senior researchers

+

14 Junior researchers

- 1 Post-Doc
- 2 New Talent researchers
- 1+3 Incorporation Call Technologists NG

Main indicators (data for 2012-2016)

Number of Departments	**7**
Number of Senior researchers	40
Number of Collaborators	14
Number of PhD students	3
Projects with public funding	76
Public financing through projects	6.304.232 €
R & D contracts with companies	47
Private financing through projects	276.991 €
TOTAL number projects	123
TOTAL funding	6.581.223 €
Publications WoS	343
Priority patents + extensions	8

Objectives

- **Promote** inter and multidisciplinary research.
- Avoid **excessive atomization** (critical mass)
- **Make visible** a good part of the research that is developed in UPNa. Attract talent
- Simplify and facilitate the **marketing** activity of the research lines and the technological offer
- Facilitate the **management and use of resources** and shared infrastructures
- To facilitate, in the medium term, the evolution towards **stable structures**, with sufficient funding and resources

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9:30h	**Opening** **Iñaki Pérez de Landazabal – Head of INAMAT** **Begoña Vicente–Directora de desarrollo de Negocio**
9:45h	*Integrative approaches to Inorganic and hybrid Nanomaterials* **Clement Sanchez**. Laboratoire Chimie de la Matière Condensée de Paris UMR ,CNRS, France
10:30	*Chemistry of Novel 2D Materials Beyond Graphene* **Gonzalo Abellán**. Univ Erlangen Nurnberg, Department of Chemistry and Pharmacy, Erlangen, Germany
11:15 11:30- Coffee break	
11:30	*3D printing, a disruptive technology, challenging creativity* **Jan Van Humbeeck**. Department of Mechanical Engineering (MECH), KU Leuven, Belgium
12:15h	*Soft magnetic materials: from microsensors to cancer therapy* **Alfredo Garcia Arribas**. Electricity and Electronics Department. Basque Country University (UPV/EHU) and BC Materials, Leioa, Spain .
13:00	Closure
Lunch & networking	

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