Your partner in technology

CTAG NEW MATERIALS

Smart Materials

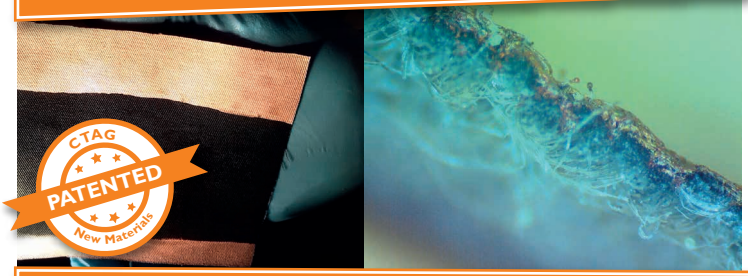
- Electrical and thermal conductivity
- New functionalities added to the base material
- Intelligent materials
- Sensing ability
- Innovations based on nanotechnology

INNOVATIONS BY CTAG

In-bulk and/or surface electrical conductivity added to plastic components

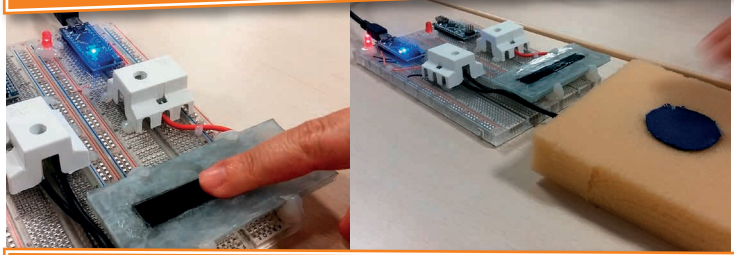
Homogeneous and efficient heating up films and textiles

Heating up coating suitable for any surface type (e.g. textile, ceramic, films, plastics, metal)

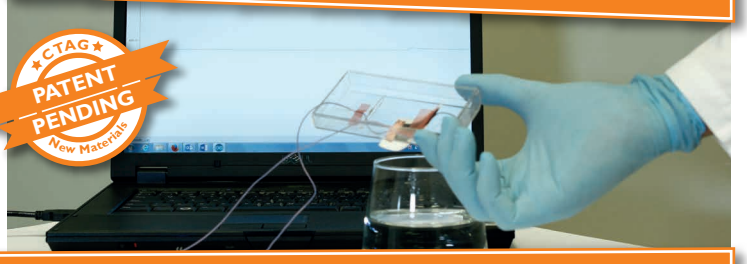


Flexible electrodes for smart textile fabrics and paper based electronics

EMI shielding added to plastic housing



Capacitive and resistive activation properties integrated in any surface type (e.g. plastic, foam, textile, paper, film)



Paper sensor with moisture and temperature sensing ability

PROXECTO COFINANCIADO
UNIÓN EUROPEA
XUNTA DE GALICIA
CONSELLERÍA DE ECONOMÍA, EMPREGO E INDUSTRIA
igape

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CTAG NEW MATERIALS

MATERIALS INNOVATION

- **17** patents & **2** pending
- **20** collaborative projects
  - **10** EU projects
    H2020, 7FP, Interreg SUDOE & POCTEP
  - **10** as coordinators
- **30** customer R&I projects
- International Collaborations:
  - **9** automotive OEMs
  - **18** TIER1
  - EU excellence research institutes
  - SMEs with intensive research capacities
- Synergy with in-house technological capacities
  - CAE design: structural linear/non-linear analysis, topology optimization
  - Virtual simulation: crashworthiness, fluid determination, kinematics, process simulation
  - Physical validation: climatic, vibro-acoustics, fatigue, materials, engine, electronics and ergonomics
- Deep knowledge of the analysis and application of automotive regulations and standards as well as of the development of new testing strategies for new materials

LATEST PROJECTS

JOSPEL	Novel energy efficient EV climate system for improved passenger comfort based on Joule and Peltier effects H2020-GV-2-2014 | www.jospel-project.eu
CarbonInspired 2.0	Knowledge transfer network on nanomaterials for the SUDOE Space industry INTERREG IVB SUDOE | **www.carboninspired2.com**
SMARTCOVER	Interior plastic component with integrated sensor function based on smart textiles National
TAFF	Flexible photovoltaic modules for their application in the automobile sector National
Nanocontroller	New composite polymers for the detection and quantification of structural damage in car parts through surface resistivity measurements
nanocit	Research and development of new composite applications based on carbonaceous nanostructures. National

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