

## Technology Transfer in the area of nanotechnology: licenses agreements and Spin-off companies

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### Abstract

In the last seven years CSIC has launched a series of actions whose objective was to take advantage of the knowledge generated in R&D projects, through its transfer to industry to bring out high value products and services to the market [1]. Due to all this effort CSIC has been able to sign 47 patent license agreements with companies in the last 4 years for the exploitation of its nanotechnologies in the market, which represent a percentage of 17% over the total number of licenses agreements signed by CSIC in this specific period. In addition, 16 spin-off companies have been created based on CSIC nanotechnologies since 2004.

In this presentation the transferred technologies will be analyzed in terms of its application in the industrial sectors. Some specific cases of nanotechnologies that have been transferred to the industrial sector will be presented: incorporation of security components in credit cards and passports by using invisible nanometer-thick layer or nanoparticles, remove of toxic pollutants by using new materials functionalized with nanoparticles, new equipment for the fabrication or characterization of nanoparticles, use of nanocapsules for different applications, new ways for the fabrication of graphene and graphene nanocomposites, etc.

This presentation shows how the nanotechnologies developed in public research organizations can be implemented in the industry to introduce new products or services in the market.

### References

[1] Javier Etxabe, Javier Maira y Pedro A. Serena, *Mundonano* Vol. 5 n.9 (2012) 31-56.

### Figures

Evolution of the number of CSIC licensed patents in nanotechnology.

