

New nanostructured electrodes for supercapacitors

- **SCHEDA**
- **APPROFONDIMENTI**

Identificativo proposta: TOES20211013001

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A Spanish university research group has developed a process to obtain nanostructured silver electrodes with a nanoporous structure in 3D, based on an anti-replication/replication method, by using electrochemical manufacturing techniques. The process also allows to obtain a nanostructured silver electrode with high electrical capacities and also with chromoactive behavior. Companies in the energy field are sought to develop applications of the described invention under license agreements.

Energy storage technology is essential for the development of SmartGrids, electric vehicles and its infrastructure, and for fulfilling the global commitment to use renewable energy sources. To increase competitiveness in these sectors, it is essential to be able to store and provide energy for a longer time. Nowadays there is an intense research effort in the field of supercapacitors improving the storage energy density of such devices but there are challenges that have not yet been overcome. Researchers from a Spanish university working in applied physics have developed a new high performance chromoactive nanostructured electrode with application in high-efficiency storage and delivery of electrical charge, and a new procedure for obtaining such electrode based on an anti-replication/replication process. This new fabrication method is reproducible, low-cost and with low environmental impact, as well as easily scalable to a mass-production level. The university would like to reach license agreements with companies operating in the energy storage field with the aim to develop applications of the described technology.

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