Our Team

Dr. Julio Gómez Cordón (male), Managing Director, PhD in Chemistry.
Dr. Julio Gómez Cordón has been working in nanomaterials the last 25 years in different universities and research centres in Spain, UK, France, and Portugal. He has been researcher in more than 150 research projects, has been the author of 62 papers and 6 books. Dr. Julio Gómez Cordón has strong experience in graphene and graphene-composites.

Dr. Javier Pérez Martínez (male), R&D Manager, PhD in Chemistry.

Dr. Javier Pérez Martínez has strong experience in research in universities, research centres and companies such as Kodak. He was strongly involved in 134 different projects related to nanotechnologies, applied chemistry and science materials. He published 23 papers, and is member of NANOSPAIN and EUMAT Technological Platform.

Dra. Elvira Villaro Ábalos (female), Researcher, Ph.D. in Chemistry.

Dra. Elvira Villaro has a strong background in nanomaterials and nanocomposites preparation employing graphene related materials. She is co-author in two scientific paper about graphene materials and more than 25 international conference communications. Currently, she oversees multiple research projects at different levels in collaboration with the technical department of AVANZARE.

Main contact in the project:
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Additive Manufacturing of 3D Microfluidic MEMS for Lab-on-a-Chip applications.

www.m3dloc.eu

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Who we are

Avanzare Innovacion Tecnologica Avanzare Innovacion Tecnologica SL (AVAN) is a Spanish SME specialized in the production of nanomaterials, nanomaterials dispersions and nanotechnology based solutions. The company is specialized in the development & commercialization of special additives, mainly for different matrices and industrial sectors: plastics, rubber, paints, paper, etc., with international presence in the automotive, aeronautic, fabric, plastic, rubber, paint and building industries, the wire & cable sector and manufacturers of household appliances and packaging wood, paper, among others.

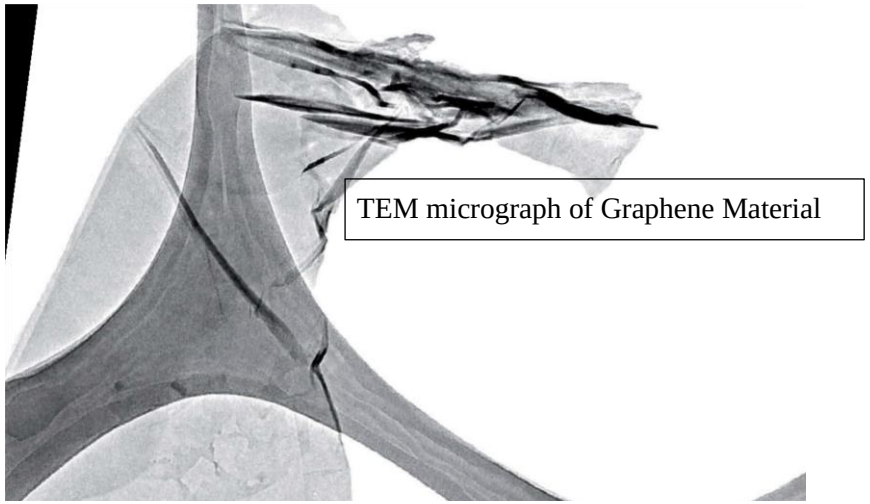
AVANZARE is the European leader in graphene and other artificial 2D nano-materials such as n-Mg(OH)2, n-Zn(OH)2 and LDHs (double layered hydroxide) among other materials. With 13,000 m2 of facilities and more than 500 Tm of nanomaterials produced in 2020, AVAN has become one of the top 3 producers of nanomaterials in last decade

Our product & services

Summary of some of our products:

Thanks to Avanzare´s research activities multiple new products have developed among others:

- **GRAPHENE** related materials. We are specialized in the production of different bulk graphene and graphene/graphite nanoplatelets, industrial and lab grades. Ranging from graphene oxide grades, along with partially reduced and highly reduced graphene oxide grades, to pristine graphene. Dispersions and masterbatches are also available upon customer request: required dosage, grade, base material. Between most interesting properties, it is possible remark the electrical and thermal conductivity and improvements in mechanical properties (flexion, traction and scratch resistance).
- **Flame retardant & fire-resistant solutions** consisting in non-halogenated and antimony oxide free compounds for thermoset, thermoplastic, paints and elastomers.
- **Antistatic/ESD additives** for resins, rubber and thermoplastic materials, both for production and protection purposes; which prevent problems caused by static electricity and uncontrolled electro static discharges. These are colorless and let achieve colorable solutions.
- **Anti-bacterial and anti-fungi;** highly effective technology at avoiding microorganisms' proliferation at extremely low dosages.



TEM micrograph of Graphene Material