

**Dr. Begona Ferrari** joined, in June 2005, the scientist staff of the Institute for Ceramic and Glasses, belonging to the Spanish Research Council (ICV-CSIC) [Dr. Eng. Minas, UPM, 1998]. Her expertise covers the study of the surface behavior and modification of inorganic colloids in liquid media applied to the processing of coatings and films, as well as for the shaping of complex fashions, laminates and composites. Her research concerns the implement of the colloidal approach to the composites manufacture (micro- and nanocomposites, metal- and polymer-matrix composites), tuning their microstructure for specific applications in relevant social challenges: the storage and generation of sustainable energy, the improvement of the life quality, and the development of clean and secure manufacturing technologies.

Dr. Ferrari leads the research group “Tailoring through Colloidal Processing”

<https://personal.icv.csic.es/colloidal/news.html>, and during the last 10 years, she has led 13 research projects, funded in competitive concurrence: ADITIMAT-CM S2018/NMT-4411, METALDIS RTC-2017-6406-4, POLYMAGIC PCIN-2017-036, ING4MATER MAT2015-70780-C4-1-P (consortium coordination), S2013/MIT-2862 MULTIMAT, MAT2012 38650-C02-02 MITICO, CCG08-CSICMAT-3811 EPD; or under direct industrial research contracts: PMG Asturias Powder Metal, S.A.U ., AMES S.A., FERRO Spain S.A., ROCA Sanitarios S.A., HISBALIT, S.A.SINTEF Raufoss Manufacturing. She authorised 92 original manuscripts published in Q1 SCI journals within ceramic, coatings, electrochemical, energy and biomaterials areas, receiving a total of more than 1600 cites (15,24 cites per publication, H 22), largely overpassing the mean number of cites of the mentioned SCI areas of expertise. She is inventor of 5 patents (one of them licenced to the company and other exploited through the CSIC-EBT COLFEED4Print, S.L.; [www.colfedd.es](http://www.colfedd.es)). Dr Ferrari has supervised 8 doctoral thesis and more than 40 master thesis and grade research works. She is regularly participating in the Master of Materials Engineering (UPM, from 2013-2014) and the Master on Nanotechnology and Advanced Materials (UAM, from 2013-2014) and the Master of Materials Processing Technologies (URJC from, 2019-2020). She has been invited to join national and international Doctoral Dissertation Committees in Spain and Europe.

From 2008, Dr. Ferrari has being evaluator for national and international public organisms (MICIYU, MINECO, ANEP, FNRS, FONCYT, GRIS, OTRI-UJI, ANPCyT, Gobierno Vasco, etc.), she has been participating in several organizing committees of international conferences [67th & 68th Annual Meeting of the ISE, 4th,-7th Int. Conference on EPD (2011, 2014, 2017 & 2020), 15th CIMTEC 2020, 14th ECERS 2015, 4th Colloids 2014] and the special issues editing of journals and books. From 2016, Dr. Ferrari is the General Secretary of the Spanish Ceramic and Glass Society (SECV). She is member of the SCEV, the European Ceramic Society (ECERS), the American Ceramic Society (ACERS) and The Electrochemical society (ECS).

Dr. Ferrari and her group has been awarded with the IV AMES-Joan Antoni Bas R&D Award 2019, Student Contest award 2018 & 2015 in the LVI & LIV Congreso Nacional SECV, Best Poster award in the 69th Annual Meeting of International Society of Electrochemistry 2018, the Best Poster award in the 10th Symposium on Biodegradable Metals 2018, Best Oral Poster Presentation award in the 3rd PM Ti 2015, UPM award by the ETSI de Minas 1998.