

De los Nanometros a los Teravatios



Prof. Pedro GOMEZ-ROMERO

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Abstract

Bio

Pedro Gomez-Romero (FRSC) is Full Professor of the Spanish National Research Council (CSIC) since 2006. He is the Head of the NEO-Energy Group at the Catalan Institute of Nanoscience and Nanotechnology, ICN2 (CSIC-BIST) in Bellaterra, Barcelona (Spain) (2007-). Born in Almansa (Spain), B. Sc. and Ms Sc. Universidad de Valencia, Spain. Ph.D. in Chemistry, Georgetown University, USA, 1987, with Distinction. CSIC Researcher at ICMAB (CSIC), 1990-2007. Sabbatical at the National Renewable Energy Laboratory, NREL, Golden, Colorado, USA (1998-99). Vicedirector of MATGAS technology Center (2010-2013). Member of the Materials Science Committee of CSIC (2012- 2014). He is currently member of EuroScience, the Electrochemical Society, The Royal Society of Chemistry, The International Society of Electrochemistry (ISE) and the Asociación Española de Comunicación Científica (AECC). Prof. Gomez-Romero is a Fellow of the Royal Society of Chemistry (RSC) since 2014. Prof. Gomez-Romero research is focused on the design and development of materials and devices for energy storage and conversion (batteries, supercapacitors and supercapbatteries), including a wide variety of materials from inorganics to Graphene or Nanopipes, with special emphasis on hybrid nanostructures and nanocomposite materials with inorganic clusters or nanoparticles and polymers or carbons. His recent work focuses on Zn systems, from Zn-Ion Capacitors to Zn-Ion batteries to Zn-Air batteries, as well as the redefinition of energy storage devices through the use of nanopaste electrodes. Also recently, the creation of a spin-off company "Napptilus Battery Labs" aims at putting all the knowledge generated in the lab to work in the development of fast-charging and long-lasting energy storage devices. Among various awards he has been awarded the CIDETEC Award for Research in Electrochemistry (2013-16), 2017 He has published over 250 articles, book chapters and conference proceedings, has filed 10 patents (ES, EU, WO) and has presented numerous invited research papers at international conferences and congresses. He is Scientific editor of the books "Functional Hybrid Materials" P. Gómez-Romero, C. Sanchez (Eds.) (Wiley-VCH

2004) and “Metal Oxides in Supercapacitors” (Elsevier, 2017, D Dubal , P. Gomez-Romero) . Prof. Gomez-Romero is very active in social communication of science through popular science articles, many invited conferences and courses and collaborations in the media. He is the author of the book “Nanomundo. Un paseo por la Nanotecnología, Materia/El País, 2016) and three award-winning popular science books (Metaevolución. La Tierra en el espejo (Ed. Celeste, 2001), Un Planeta en busca de energía (Ed. Síntesis, 2007) and “Creadores de futuro” Editorial Bromera, 2016). He is the Editor of the popular science web www.cienciateca.com and the Youtube Science Channel [TECNOSFERA](#).