

Candidate application to the ISGS Board of Directors

Dr. Ana Arenillas

Age 46
Address INCAR-CSIC, Francisco Pintado Fe 26, 33011 Oviedo, Spain
Education MSc in Chemistry and PhD in Chemical Engineering, University of Oviedo
Appointments 1994 Research Assistant. University of Oviedo
 1995-1997 Visiting PhD Student, Leeds University, UK
 1999-2003 Postdoctoral Researcher. INCAR
 2004 Visiting Researcher. SChEME, University of Nottingham, UK
 2005- Senior Research Scientist. INCAR



Academic Related: Supervisor of students for PhD (8) and MSc (10) in the field

Participation in different committees at national and international level

Research Topics: Design, production, characterization and utilization of organic and carbon xerogels for different energy and environmental applications. Scaling-up production of xerogels.

More info in www.incar.csic.es/mcat

Experience Participation in Research Projects financed by Public Institutions (50)
 Participation in Research Contracts with Industries (20)

Publications Papers in SCI Scientific Journals (150) and others (25); Books (10)
 H Index (41 with more than 5000 citations in Google Scholar)
 Communications to Scientific and Technical Congresses (200)
 List of publications: <http://publicationslist.org/a.arenillas>

Technology transfer 7 patents (2 licensed and 2 PTC)
 co-founder of 1 SME (www.xerolutions.com)

5 recent publications:

N. Rey-Raap, J.A. Menendez, A. Arenillas. Simultaneous adjustment of the main chemical variables to fine-tune the porosity of carbon xerogels. *Carbon*, 78, 490-499 (2014)

N. Rey-Raap, A. Szczurek, V. Fierro, J.A. Menéndez, A. Arenillas, A. Celzard. Towards a feasible and scalable production of bio-xerogels. *Journal of Colloid and Interface Science*, 456, 138-144 (2015)

L.A. Ramírez-Montoya, A. Concheso, I.D. Alonso-Buenaposada, H. García, J.A. Menéndez, A. Arenillas, M.A. Montes-Morán. Protein adsorption and activity on carbon xerogels with narrow pore size distributions covering a wide mesoporous range. *Carbon*, 117, 743-751 (2017)

I.D. Alonso-Buenaposada, A. Arenillas, J.A. Menéndez. On the desiccant capacity of the mesoporous RF-xerogels. *Microporous and Mesoporous Materials*, 248, 1-6 (2017)

M. Canal-Rodríguez, A. Arenillas, N. Rey-Raap, G. Ramos-Fernández, I. Martín-Gullón, J. Angel Menéndez. Graphene-doped carbon xerogel combining high electrical conductivity and surface area for optimized aqueous supercapacitors. *Carbon*, 118, 291-298 (2017)

Statement of interest:

I am currently in a moment of my career with a good combination of enough experience, in research in general and in sol-gel in particular, but also with enough enthusiasm to undertake new challenges. In my opinion the ISGS is too focused on silica materials, and it would be a good idea to incorporate a person with expertise in organic/carbon gels. Furthermore, it would be also important to combine in ISGS board not only persons with expertise in the sol-gel research area, but also with experience in scaling-up, transfer to industry, etc.