Short Curriculum Vitae

Prof. Dr. Angel Rubio
Director, Max Planck Institute for the Structure and Dynamics of Matter (MPSD)
Luruper Chaussee 149, 22761 Hamburg, Germany

Distinguished Professor: Condensed Matter Physics
Dpt. Física de Materiales, Facultad de Químicas, UPV/EHU, San Sebastián, Spain
Homepages: http://www.mpsd.mpg.de/113438/ theod; http://nano-bio.ehu.es/angel_rubio

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PERSONAL INFORMATION, EDUCATION: Male, born 27.09.1965 in Oviedo, Spain
- University of Valladolid, Spain, Ph.D. in Physics, "Summa Cum Laude", 1991
- University of Valladolid, Spain, B.S. in Physics, "Summa Cum Laude", 1988

SCIENTIFIC CAREER:
- Max Planck Distinguished Visiting Scientist, Fritz Haber Institute, MPG, Berlin (2009-2011)
- Miller Visiting Professor, University of California at Berkeley (August - September 2014)
- Full Professor of Condensed Matter Physics (chair), University of the Basque Country UPV/EHU (since April 2001)
- Chair of the European Theoretical Spectroscopy Facility (ETSF) (http://www.etsf.eu) (2012-2014) and Vice President for Scientific Development (2008-)
- Director of the Nano-Bio Spectroscopy group of the UPV/EHU (since 2002)
- Professor (1st class), Université de Montpellier 2, France (June - July 2007)
- Professor (Humboldt), Freie Universitat Berlin, 2005/2006
- Professor, Lab. des Solides Irradié, Ecole Polytechnique, France (Dec. 2000 - Apr. 2001)
- Associate Professor, Dpt. Física Teórica, Atomica y Nuclear, Universidad Valladolid,1994-2001
- Fulbright Fellow, Dept. of Physics, University of California at Berkeley, USA (1992 - 1994)
- Research Fellow "Ministerio de Educación y Ciencia", Universidad Valladolid, Spain (1988-92)

HONORS / AWARDS:
- European Research Council "ERC Advanced Grant" (2016 - 2021) (QSpec-NewMat)
- XV Manuel Laborde Werlinden Prize for the best technology-based business initiative based on innovative ideas: "Materials Evolution", December 2015
- Premio Jaime I de Investigación Básica 2014
- Foreign associate member of the National Academy of Sciences (NAS) of United States (2014)
- External Scientific Member of the Fritz-Haber-Institut (of the Max Planck Society) (Nov. 2011 -)
- European Research Council "ERC Advanced Grant" (2011 - 2016) (DYNamo)
- Fellow of the American Association for Advanced Science (AAAS) (Physics Section) (2010)
- Dupont Prize in Nanotechnology, Dupont Foundation (2006)
- Friedrich Wilhelm Bessel Research Award, Humboldt Foundation (2005)
- Fellow of the American Physical Society, Division of Materials Science (2004)
- Spanish Royal Physical Society Prize "Jóvenes Investigadores" Madrid, Spain, July 1992
- Honor Prize for the best Ph.D. thesis in Physics, Univ. of Valladolid, Spain, June 1992
- 1st National Prize for Graduated in Physics, October 1989
- American Chemical Society (ACS) recognition (2011) and Outstanding Referee, APS (2009)
- Sir Allan Sewell Fellowship, Australia, 2004
- JSPS Fellow, Program for Research in Japan, 2001 ans 2016
- Fulbright Fellow, 1992 - 1994

SCHOLARLY CONTRIBUTIONS:
- More than **300 publications with over 25000** ISI Web of Science **(h-index=76**; 2,500 cites per year and growing). *36 of his publications are ranked as "**highly cited papers**"*
- Originator of the widely-use *ab initio* computational materials research open-source project octopus (http://www.tddft.org). It simulates the dynamics of electrons and nuclei under the influence of time-dependent field, used by more than 600 groups worldwide.

- Director of 30 PhD students (12 running); supervisor of 45 postdoctoral researchers. Twelve of my former graduate students and 29 of the postdocs now hold academic positions at major universities in and outside Spain (Germany, Italy, Austria, Denmark, France, USA, Japan). Four other students now have leading positions in the industry.
- Editor of three books on nanotechnologies plus two fundamental books on Lecture Notes in Physics: TDDFT, Springer Verlag 706 (2006) and "Fundamentals of Time-Dependent Density Functional Theory", Springer Verlag Vol. 837 (2012)
- More than 180 invited talks, 40 colloquiums; numerous outreach talks and press releases

PATENTS:

- Gate-controlled light-emitting device made of BN nanotubes with defects, UPV/EHU (2011); (201130228, ID02207561); US-2014-0014900-A1)
- Field emission source with BN nanotubes, Universidad de Valladolid, P-9802690 (2001).

SELECTED PROFESSIONAL AND SYNERGISTIC ACTIVITIES (recent)

- Selection committee member for the Hamburg Prize for Theoretical Physics 2016
- Member of the judging panel for the CECAM Berni J. Alder prize 2016
- Member of the Scientific Advisory Committee of CECAM (Centre Européen du Calcul Atomique et Moléculaire), Lausanne (2015 -) and of the Scientific Council of ZCAM ("Zaragoza Scientific Center for Advance Modeling") (2013 -)
- Member of the 2015 Tsungming Tu Award, Ministry of Science and Technology, Taiwan
- Member of the Editorial Board of ChemPhysChem (2015 -)
- Editor in Chief of the European Physical Journal B (since July 2011)
- Panel Member for the Francqui Prize, Belgium (2015)
- Member of the "Centro de Excelencia en Nanociencia Molecular ISIC-NANO", Valencia (2012-)
- Panel member of the European Research Council, ERC Starting Grant 2013 PE4 (Physical and Analytical Chemical Sciences); Referee for the ERC since 2008
- Member of the Editorial Board of Lecture Notes in Physics, Springer (2011 -)
- Referee for the Academy of Finland Academy Professor evaluation (2011 -)
- Panel member Prize Polish Foundation for Science in Chemistry and Material Science (2013 -)
- Panel member of the Deutsche Forschungsgemeinschaft "Excellence Initiative" (Physics, Mathematics, Geosciences) (2011 -)
- Scientific Advisory Board, Centro de Física Computacional Coimbra, Portugal (2011 -)
- Scientific Advisory Board, Leibniz-Institut IFW-Dresden (2008, 2011)
- Advisory Board Member and Physical Scientist associated to the ITR: Institute for the Theory of Advanced Materials in Information Technology (ITAMIT), University of Minnesota, since 2003
- External Advisory Board Member of The center for Nanotechnology and Molecular Materials, Wake Forest University, North Caroline, USA (Director Prof. D.L. Carroll) (2007 -)
- Member of the BIFI "Instituto de Biocomputación y física de sistemas complejos", Zaragoza, Spain, since 2008
- Member of the Board of Directors of the Psi-k: UK Charity Commision (Psi-K-1126308) and founding director of psi-k.org
- Adviser to the European Union "Information Science and Technology Program (2000 -)
- Organizer of more than 50 international workshops and schools
- **Structural contributions to the scientific community**: Angel Rubio is one of the founding directors of the European Theoretical Spectroscopy Facility (ETSF) (http://www.etsf.es). The ETSF is a research and knowledge center that deals with problems of spectroscopy and the properties of electronic excited states in matter. It provides support and service to research in academic, government and industrial laboratories in interdisciplinary domains such as condensed matter physics, chemistry, biology, materials and nano/bio-science.