

## PERSONAL INFORMATION

Family name, First name: Prato, Maurizio

Researcher ID: G-7067-2012, ORCID: 0000-0002-8869-8612

Date of birth: 11/10/1953; Nationality: Italian

URL for web sites: <http://www.cicbiomagune.es>; [https://en.wikipedia.org/wiki/Maurizio\\_Prato\\_\(scientist\)](https://en.wikipedia.org/wiki/Maurizio_Prato_(scientist))

Number of papers: > **600**, Sum of Times Cited: **55,000** (>**46,000** without self-citations, **Scopus**)

Average Citations per Article: **80**, h-index: **109** (**Scopus**) or **122** (**Google Scholar**)

## EDUCATION

1992 *Visiting Scientist*, Inst. for Polymers and Organic Solids, University of California, Santa Barbara

1986 *Postdoctoral Fellow*, NATO grant, Dept. of Chemistry, Yale University, New Haven, USA

1978 *Laurea degree in Chemistry*, Dept. of Organic Chemistry, University of Padova, Italy

## CURRENT POSITIONS

2015 – *Ikerbasque Research Professor and AXA Chair*, Bionanotechnology Group, CIC biomaGUNE, San Sebastian, Spain

2000 – *Professor of Organic Chemistry*, Dept. of Chemical and Pharmaceutical Sciences, University of Trieste, Italy

## PREVIOUS POSITIONS

2014 *Visiting Professor*, ISIS, University of Strasbourg, France, May 2014

2010 *Visiting Professor*, University of Namur, Belgium, June 2010

2001 *Visiting Professor*, École Normale Supérieure, Paris, France, July 2001

1992 – 2000 *Associate Professor of Organic Chemistry*, Dept. of Pharmaceutical Sciences, University of Trieste, Italy

1983 – 1992 *Assistant Professor*, Dept. of Organic Chemistry, University of Padova, Italy

## SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

1995 – 2019 64 Postdocs; 49 PhD students; 45 Master students; 45 visiting fellows; among which: 79 Italian, 8 French, 1 Cameroonian, 2 Egyptian, 1 Slovenian, 2 Portuguese, 28 Spanish, 2 Belgian, 1 Argentinian, 1 Brazilian, 2 British, 4 Indian, 4 Mexican, 5 Croatian, 7 German, 8 Greek, 5 Polish, 2 American, 3 Serbian, 1 Chinese, 2 Cuban, 2 Japanese, 1 Maltese, 1 Nigerian, 1 Irish, 1 Moroccan, 1 Israeli, 1 Lebanese (University of Trieste, Italy).

2015 – 2019 7 postdocs and 4 PhD students (CIC biomaGUNE, San Sebastian, Spain)

## TEACHING ACTIVITIES

1992 – Basic and Advanced Organic Chemistry - Faculty of Pharmacy, University of Trieste, Italy

## FELLOWSHIPS AND AWARDS

2019 *Richard E. Smalley Award*, Electrochemical Society, USA

2018 *Francqui Chair*, Fondation Francqui Stitching, Bruxelles, Belgium

2018 *Highly Cited Researcher*, ISI Thomson Reuters (also in 2005-2014, 2015, 2016, 2017)

2018 *ChemPubSoc Europe Fellow*

2016 *Honoris Causa PhD in Chemistry*, University of Castilla-La Mancha, Spain

2016 *AXA Chair in Bionanotechnology*, AXA Research Fund

2015 *ACS Nano Lectureship Award*, American Chemical Society

2015 *French-Italian Chemical Societies Award*, French Chemical Society

2015 *ECA Award*, European Carbon Association

2014 *Honoris Causa Laurea in Science and Technology of Materials*, University of Roma Tor Vergata, Italy

2014 *Natta Gold Medal*, Italian Chemical Society

2013 *EuCheMS Lectureship Award*, European Association for Chemical and Molecular Sciences

2013 *Honorary Professorship*, Xi'an Jiaotong University, Xi'an, China

2010 *Ree-Natta Lectureship*, Korean Chemical Society

2009 *Mangini Gold Medal*, Italian Chemical Society, Division of Organic Chemistry

2008 *ERC Advanced Research Grant*, European Research Council

2008 *Ciamician-Gonzalez Prize*, Spanish Royal Society of Chemistry

## ORGANISATION OF SCIENTIFIC MEETINGS

- *CHEMONTUBES 2020, International Conference, Main Organizer, San Sebastián, Spain, 26-30 April 2020*

- *EUROMAT '17, European Congress and Exhibition on Advanced Materials and Processes- Symposium co-Organizer*; Thessaloniki, Macedonia, Northern Greece, 17-22 September 2017
- *Advanced School on Nano, structural and single molecule approaches to biology: understanding and handling life at higher resolution-School Director*; Jawaharlal Nehru Centre for Adv. Scientific Research (JNCASR), Bangalore, India, 11-16 January 2016
- *Materials Research Society (MRS) 2015 Spring Meeting, Symposium T- Symposium co-Chair* (with F. Bonaccorso, A. Ferrari, A. Jorio, X. Feng), San Francisco, California, USA, 6-10 April 2015

## INSTITUTIONAL RESPONSIBILITIES

- 2012 – 2015 Member of the University of Trieste panel for the evaluation of research
- 2000 – 2005 Director of the PhD school in medicinal sciences, U of Trieste
- 2005 – 2011 Vice-Director of the PhD school in Chemical and Pharmaceutical Sciences, U of Trieste
- 2002 – 2012 Vice-Dean of the Faculty of Pharmacy, U of Trieste

**INTERNATIONAL CONFERENCES** (organization, membership and invited presentations): M. Prato has been invited to **more than 250 conferences, workshops and schools**, and has given **more than 80 invited talks** in Universities or research centers all around the world.

## COMMISSIONS OF TRUST

- 2016 & 2017 Premio Jaime I, Valencia, Spain, committee on basic investigations (members of the panel include Nobelists J.-M. Lehn, B. Feringa, V. Ramakrishnan, R. Kornberg, F. Wilczek)
- 2016 – Member of the Scientific Advisory Committee, ICMAB Barcelona
- 2014 – 2016 Member of the Scientific Advisory Committee, INRIM, Torino
- 2007 – Member of the Scientific Advisory Committee, IMDEA Nanociencia, Universidad Autonoma de Madrid, Spain
- 2015- Associate Editor, Scientific Reports, Nature Publishing Group
- 1997 – Member of the International Advisory Board, Chemical Communications, Royal Society of Chemistry, London, UK
- 2014 – Member of the International Advisory Board, ACS Nano, American Chemical Society, USA
- 2015 – Chair of the Editorial Board, ChemSusChem, ChemPubSoc Europe
- 2003 – 2006 Chairman of the Editorial Board, Journal of Materials Chemistry, Royal Society of Chemistry, London, UK
- 2009 – Member of the International Advisory Board of Chemical Physics Letters, Elsevier Publisher, The Netherlands
- 2011 – 2013 National Panel for the Evaluation of Research (VQR), Coordinator of the Organic/Medicinal Chemistry area

## MEMBERSHIPS OF SCIENTIFIC SOCIETIES AND ACADEMIES

- 2018- Member of the *Venetian Institute of Sciences, Letters and Arts*
- 2015 – Member, *Accademia Europaea*
- 2015 – Member, Royal Spanish Chemical Society
- 2014 – Member, *European Academy of Sciences*
- 2010 – Member, *Accademia dei Lincei, Roma*
- 1987 – Member, American Chemical Society
- 1984 – Member, Italian Chemical Society

## MAJOR COLLABORATIONS

Dirk M. Guldi, U Erlangen: 119 common papers on photophysics and device fabrication  
 Alberto Bianco, CNRS Strasbourg: 120 common papers on biological applications of carbon materials  
 Kostas Kostarelos, U Manchester: 70 common papers on biological applications of carbon nanotubes  
 Heinz Amenitsch, Elettra Synchrotron Laboratory, Trieste, SAXS line, 3 common papers  
 Pedro Ramos Cabrer, CIC biomaGUNE, one postdoc in common

**Section c: Ten years track-record** (max. 2 pages)

## 10 SELECTED PUBLICATIONS

**with the PI as the corresponding author (out of 277 since 2010, cited 9,550 times)**

- 1) M. Bonchio, M. Prato *et al.* Hierarchical organization of perylene bisimides and polyoxometalates for photo-assisted water oxidation, *Nature Chemistry* **11**, 146-153 (2019). Cited: 1
- 2) L. Đorđević, F. Arcudi, A. D'Urso, M. Cacioppo, N. Micali, T. Bürgi, R. Purrello, M. Prato, Design Principles of Chiral Carbon Nanodots Help Convey Chirality from Molecular to Nanoscale Level, *Nature Commun.* **9** (2018) Article number: 3442. Cited: 10

- 3) F. Rigodanza, L. Dordevic, F. Arcudi, M. Prato, Customizing the Electrochemical Properties of Carbon Nanodots, *Angew. Chem. Int. Ed.* 57(18) (2018) 5062-5067. Cited: 15
- 4) C. Rizzo, F. Arcudi, L. Dordevic, N.T. Dintcheva, R. Noto, F. D'Anna, M. Prato, Nitrogen-Doped Carbon Nanodots-Ionogels: Preparation, Characterization, and Radical Scavenging Activity, *ACS Nano* 12 (2018). 1296-1305. Cited: 23
- 5) F. Arcudi, L. Dordevic, M. Prato, "Rationally Designed Carbon Nanodots towards Pure White-Light Emission" *Angew. Chem. Int. Ed.*, 56, 4170-4173 (2017). Cited: 34
- 6) S. Marchesan, L. Ballerini, M. Prato, "Nanomaterials for stimulating nerve growth" *Science*, 356, 1010-1011 (2017). Cited: 23
- 7) F. Arcudi, V. Strauss, L. Dordevic, A. Cadranell, D.M. Guldi, M. Prato, Porphyrin Antennas on Carbon Nanodots: Energy and Electron Transduction, *Angew. Chem. Int. Ed.* 56 (2017). 12097-12101. Cited: 15
- 8) F. Arcudi, L. Dordevic, M. Prato, "Synthesis, Separation, and Characterization of Small and Highly Fluorescent Nitrogen-Doped Carbon NanoDots" *Angew. Chem. Int. Ed.*, 55, 2107-2112 (2016). Cited: 99
- 9) G. Valenti, A. Boni, M. Melchionna, M. Cargnello, L. Nasi, G. Bertoni, R. J. Gorte, M. Marcaccio, S. Rapino, M. Bonchio, P. Fornasiero, M. Prato, F. Paolucci, "Co-axial heterostructures integrating palladium/titanium dioxide with carbon nanotubes for efficient electrocatalytic hydrogen evolution" *Nature Commun.*, 7, 13549 (2016). Cited: 36
- 10) F. M. Toma, A. Sartorel, M. Iurlo, M. Carraro, P. Parisse, C. Maccato, S. Rapino, B. R. Gonzalez, H. Amenitsch, T. Da Ros, L. Casalis, A. Goldoni, M. Marcaccio, G. Scorrano, G. Scoles, F. Paolucci, M. Prato, M. Bonchio, "Efficient water oxidation at carbon nanotube-polyoxometalate electrocatalytic interfaces" *Nature Chem.*, 2, 826-831 (2010). Cited: 306

## PATENT

- 1) L. Mestroni, L. Ballerini, C. Long, J. Caldwell, M. Prato, V. Martinelli, G. Cellot, F. Toma, L. Zentilin, "Carbon-Nanotube Modulation of Myocyte Cells", EP2686422A2, US20140087461, WO2012125638

## RECENT PLENARY INVITED PRESENTATIONS AT INTERNATIONAL CONFERENCES *from more than 160 since 2010 (ca. 140 as Plenary Lectures and ca. 20 as Invited Lectures)*

- XVIII Brazilian MRS meeting (Brazilian Materials Research Society, B-MRS)  
**Plenary invited speaker**, 22-26 September 2019, Balneário Camboriú-SC, Brazil
- *International Workshop on Chemistry and Applications of Organic Chromophores*  
**Plenary invited speaker**, Cardiff, UK, 2-5 July 2019
- *Carbon 2018, the World Conference on Carbon*  
**Plenary invited speaker**, 1-6 June 2018, Madrid, Spain
- *9<sup>th</sup> International Symposium on Nano & Supramolecular Chemistry (9th ISNSC)*  
**Plenary invited speaker**, 4-7 September 2017, Napoli, Italy
- *1st European Conference on Chemistry of Two-Dimensional Materials (Chem2DMat)*  
**Plenary invited speaker**, 22-26 August 2017, Strasbourg, France
- *International ERATO Itami Molecular Nanocarbon Symposium 2017*  
**Plenary invited speaker**, 2-4 August 2017, Nagoya, Japan
- *5<sup>th</sup> International Conference on Multifunctional, Hybrid and Nanomaterials (Elsevier)*  
**Plenary invited speaker**, 6-10 March 2017, Lisbon, Portugal
- *European Materials Research Society (EMRS) Meeting*  
**Plenary invited speaker**, 19-22 September 2016, Warsaw, Poland
- *6<sup>th</sup> International Conference on Nanoscience and Technology, China Nano 2015*  
**ACS Nano Lectureship Award Address** 3-5 September 2015, Beijing, China
- *4<sup>th</sup> International Symposium Frontiers in Polymer Science (Elsevier)*  
**Plenary invited speaker**, 20-22 May 2015, Riva del Garda, Italy