

Name: Luisa DE COLA **Nationality:** Italian
Position: since 1 September 2013 Full Professor (Class Exceptionnelle), AXA chair of Supra-molecular and Biomaterial Chemistry, at ISIS, University of Strasbourg and CNRS, France and adjunct Scientist at the Karlsruher Institut für Technologie, Germany. Since 2016 she is Professor at the Institut Universitaire de France, and since 2019 Honorary Professor at Tianjin University, China.

Scientific Career

1978 - 1983 Laurea in Chemistry summa cum laude, University of Messina (Italy), supervisor Prof. Raffaello Romeo.
 1984 -1986 Postdoctoral fellow (National Institute of Health fellowship) at the Virginia Commonwealth University, Richmond, USA (supervisor: Prof. Lidia M. Vallarino).
 1986-1990 Researcher at the National Research Council, CNR, Instituto F.R.A.E, Bologna (group leader Prof. Vincenzo Balzani).
 1990-1998 Assistant Professor University of Bologna (Italy).
 1998-2004 Full Professor, University of Amsterdam (the Netherlands), Chair of Molecular Photonic Materials
 2004-2012 Full Professor (C4) in Physics and Chemistry, University of Münster (Germany), Chair of Nanoelectronics and Nanophotonics.
 2006 - 2012 Part-time Professor Department of Chemistry University of Twente, The Netherlands

Awards and Professional Appointments

1986 Prize for Chemistry "Fondazione U. Bonino e M.S. Pulejo"
 1993 Prize for Chemistry of the "Accademia di Scienze Fisiche e Matematiche di Napoli".
 1995 Federchimica National Prize "per un futuro intelligente (for a smart future)".
 1995 International Prize of the European Photochemistry Association "Grammaticakis-Neumann"
 2004 Finalist of the Descartes Prize 2004
 2003-2007 Member of the Advisory Board for the Chemistry Department, Imperial College of London
 2009 European Research Council, ERC Advanced Grant Award
 2010-2015 Member of the evaluation panel of the ERC starting grant.
 2010 Distinguished lecture, Atlanta, USA
 2011 IUPAC prize for the most distinguished women in the field of chemistry and chemical engineering
 2011 Member of the International Advisory Panel of AMADEus, LabEx of the University of Bordeaux, France
 2012 Gutenberg Chair Award
 2013 Member of the Academia Europeae
 2013 President of the Bürgenstock Conference 2013
 2014 Chevalier de la Légion d'Honneur appointed by the President of the Republic of France, François Hollande
 2014 Elected member of the German Academy of Sciences, Leopoldina
 2014 International Prize for Chemistry from the Academia dei Lincei, Tartufari Prize, given by the President of the Republic of Italy, Giorgio Napolitano
 2014 Luigi Sacconi lecture award, Firenze, Italy
 2014 Sigma Aldrich Material Science lecture award, EPFL, Switzerland
 2015- Member of the Scientific Advisory Board of ICN2 (Institut Català de Nanociència i Nanotecnologia, Spain)
 2015 International Prize Catalán -Sabatier given by the Real Sociedad Española de Química
 2015 Elected as a ChemPubSoc Europe Fellow
 2015 Sir Jesse Boot lecture award, Nottingham, UK
 2016 Weber Prize from Rotary Club, Italy
 2016 Elected member of the Akademie der Wissenschaften un der Literatur of Mainz
 2016 Elected member of the "Institut Universitaire de France", IUF
 2016 Distinguished lecture "Haddadin symposium" Beirut, Lebanon
 2017-2018 Member of the Committee for the Rey Jaime I Prize, Spain (together with 16 Nobel

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| | Laureates) |
| 2017-2021 | Member of the Scientific Advisory Board of the Nanoscience and Nanotechnology Department Chalmers University of Technology, Sweden |
| 2018- 2022 | Member of the International Advisory Board of Tianjin University, Health Science Platform (Tianjin, China) |
| 2018- 2022 | Member of the Scientific Advisory Board of the Adolphe Merkle Institute (Fribourg, Switzerland) |
| 2019-2022 | Member of the Scientific Council of CNR section Chemical Sciences and Materials Technology |
| 2019- | Member of the Centre for Endoscopic Research Therapeutics and Training – CERTT, Roma, Italy |
| 2019 | Melville distinguished lecturer, University of Cambridge, UK |
| 2019 | Honorary Professor (Peyiang Professor) Tianjin University, China |
| 2019 | The Izatt–Christensen Award in Macrocyclic and Supramolecular Chemistry |
| 2019 | Medal from the University of Messina |
| 2019 | She is one of the 39 selected women chemists, from all times, at the Science Museum of Valencia (Ciutat de les Arts y de les Ciencias), Spain. |
| 2019 | Elected member of the Istituto Lombardo Accademia di Scienze e Lettere, Italy |
| 2019 | Prize Anassilaos Arte Cultura Economia e Scienze |
| 2020 | Proteomass Scientific Society Award |
| 2020 | President of the 8 th EuChemS Chemistry Congress, Lisbon, Portugal |

Supervision of Graduate students and post-doctoral fellows

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| 2012 – today | 34 Post-docs/19 PhDs/36 Master Students at ISIS UMR 7006, Université de Strasbourg, France and 8 post-docs in KIT, Karlsruhe, Germany |
| 2004 – 2012 | 27 Postdocs/ 14 PhD/ more than 20 Master Students Nanoelectronics and Nanophotonics Laboratory, University of Münster, Germany |
| 1998 – 2004 | 12 Postdocs/ 12 PhD/ about 10 Master Students University of Amsterdam. |
| 1996 – 1998 | co-supervision of 2 PhD and 2 post-docs University of Bologna. |

Organization of international meetings

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| 1999 - 1 st BINPHOS (Belgium, Italy, The Netherlands Photochemistry Symposium), Noordwijk, |
| 2002- ESF Meeting, “Supramolecular Chemistry: Molecular rods, wires and switches”(Spain) |
| 2003 - EPA Summer School on Photochemistry (The Netherland). |
| 2008, 2009, 2011 - CeNTech Day. |
| 2011- International Conference on the Photochemistry and Photophysics of Coordination Compounds, 19 th ISPPCC, Strasbourg. |
| 2013 - President of the 48th Bürgenstock Conference, Brunnen, Switzerland. |
| 2015 - 10 th International Symposium on Macrocyclic and Supramolecular Chemistry, ISMSC-10 Strasbourg. |
| 2015 - 13 th European Conference on Molecular Electronics, ECME, Strasbourg, France. |
| 2016 - 6 th EuCheMS Chemistry Conference, organizer of the Theme E, Materials, Devices and Nanochemistry, Sevilla, Spain, September 2016. |
| 2018 - Minisymposium: Chemistry meets Medicine, Strasbourg |
| 2020 - President of the 8 th EuChemS Chemistry Conference, Lisbon August 2020. |

Institutional Responsibilities

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| 1989-1993 | Secretary of the Italian Group of Photochemistry (GIF). |
| 2005- | Member of the International Graduate School in Chemistry of Muenster. |
| 2006-2012 | Vice director of CeNTech, Muenster, Germany |
| 2010 | Co-founder of the Center for Soft Nanoscience (SoN), Muenster, Germany |
| 2012- | Member of the IDEX, and of the international graduate school, Strasbourg. |

Some other selected activities

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| 1989-1993 | Secretary of the Italian Group of Photochemistry (GIF). |
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| 1991 | Member of the Organizing Committee of the II NATO Science Forum on Supramolecular Chemistry (Taormina December 15-18). |
| 1992 | Co-editor of the book "Supramolecular Chemistry", NATO ASI series, Kluwer, Dordrecht. |
| 1999 | Capita Selecta lectures, University of Leuven, Belgium (1999). |
| 1999-2003 | Coordinator of the Eu-COST D11 project: "Photo-, redox- and pH responsive nano-sized dendrimers". |
| 2000 | Member of the Scientific Committee of the IUPAC on Photochemistry, Dresden, Germany September 2000. |
| 2002-2006 | Member of the Editorial board of Chemical Society Reviews. |
| 2002 | Member of the Organizing Committee of the QUANTASOL, Austria March 2002. |
| 2002 | Organizer of the ESF meeting "Supramolecular Chemistry: Molecular rods, wires and switches" (Spain September 2002). |
| 2002-2005 | Coordinator of the EC project (IST-2001-35503) Light Induced Molecular Motion: Photo-gated devices. |
| 2002-2006 | Coordinator of the Marie Curie Training Site (MolPhotonics, HPMT-CT-2001-00311). |
| 2001- today | Participant of several EC projects, see list. |
| 2005- | Member of the International Graduate School in Chemistry of Muenster. |
| 2007 | Member of the International Committee of the 8 th Material Chemistry Conference, MC8, London, 2007. |
| 2007-2008 | President of the Evaluation Committee for the Department of Chemistry University of Padova (Italy) and member of the Evaluation Committee for the Department of Chemistry Université Louis Pasteur and of the ISIS, Strasbourg, France. |
| 2009-2012 | Coordinator of the European project, ERA-NET: <i>Interfacing Nano-objects for functional Electronic and Optofluidic Systems</i> (INOFEQ). |
| 2010 | Member of the International Organizing Committee of the F-Pi-9 Symposium, Atlanta, USA, May 2010. |
| 2010-2014 | Member of the board of the Physical Chemistry, section photochemistry and photophysics, of the German Chemical Society (GDCh). |
| 2011-2019 | Member of the advisory board of the excellence initiative: LABEX Amadeus, Bordeaux |
| 2012 | Member of the International Organizing Committee of the International Conference on the Science and Technology of Synthetic Metals July 2012, USA. |
| 2013-2014 | Member of the Scientific Advisory Board of l'Ecole Normal Superior, Paris |
| 2014 | Review panel member for the Swiss National Science Foundation (SNSF) Starting Grants |
| 2015-2019 | Review panel member for the Swiss National Science Foundation (SNSF) for the NCCR Molecular Systems Engineering |
| 2017-2021 | Coordinator of the H2020 MSCA-RISE-2017 Hybrid Nanostructured Oligonucleotide Platforms for Biomedical Applications (Nano-OligoMed) |
| 2019 | Member of the organizing committee of the IUPAC in chemistry 2019 |
| 2018-2021 | Review panel member for the Swiss National Science Foundation (SNSF) for chemistry |

Editorial Activities

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| 2001-2004 | Member of the Editorial board of Inorganic Chemistry |
| 2002-2006 | Member of the editorial board of Chemistry of Materials (ACS) |
| 2002-2006 | Member of the Editorial board of Chemical Society Reviews (RSC). |
| 2011- 2019 | Member of the editorial board of ChemPhysChem (Wiley) and ChemPlusChem (Wiley) 2013- |
| 2016-2019 | Member of the editorial board of Material Horizons (RSC) |
| 2019-2023 | Member of the editorial board of Angewandte Chemie (Wiley) |

Member of the American Chemical Society, German Chemical Society, Italian Chemical Society and French Chemical Society

Scientific Output

Prof. Luisa De Cola is working in 2 main research areas: a) luminescent and electro-luminescent assemblies and supramolecular structures; b) responsive nanomaterials and soft matrices for imaging, diagnostics and therapy. She has published 375 papers and filed 39 international patents. She has an H-index = 77 and more

than 22000 citations (from google scholars).

She has been invited to more than 300 conferences as plenary or as invited speaker (Gordon Conferences, ESF, Solvay Conference 2011, Accademia dei Lincei, distinguished lecture 2010 Georgia Tech, Bürgenstock Conference 2012, E-MRS 2012, ACS 2015, MRS 2016, MRS 2017, ICCC 2018, Nanomedicine, ICOMM, EuCheMs...) and she has delivered more than 400 seminars/talks all over the world.

She has been visiting professor in Japan, USA, France, Italy and Belgium.

She has completed 45 PhD thesis, supervised more than 80 post-docs and several Master students.

She has been a devoted teacher and she has received several recognitions for her excellent student supervision and for the encouragement she gives to her coworkers. Her group has been awarded with several poster prizes, E-MRS award for the best PhD presentation (F. Fiorini 2015), Wissenschaftspreis (Nanoscience Award 2011 for C. Strassert and in 2008 for Z. Popovic), DSM Science and Technology award (finalist Z. Popovic 2008) Elsevier award 2011 (M. Tsotsalas) and the best PhD thesis awards 2015 (A. Aliprandi), 2017 (S. Sinn), and electrochemical society 2017 S. Carrara, just to cite some of them.

Finally, she enjoys to give talk to general public, (EXPO Milano, Berzelius lecture Sweden, TV shows, several interviews) and she is an AXA funding ambassador.

Industrial collaboration and technology transfer

Professor De Cola has filed 36 patents and has collaborated with companies since 1997. She has a very long standing cooperation with Roche Diagnostics, with whom she has filed 8 patents and sold them 2 in the area of ECL labels for diagnostics. She also has a running collaboration with Solvay and Takeda.