Curriculum Vitae Professor Dr Luisa De Cola

Name: **Luisa De Cola**
Born: **15 July 1960**

Research Priorities: electro-luminscent materials, nanomaterials for photonics, energy conversion, biomedicine, nanoporous materials, supramolecular self-assembly, optoelectronics, in vitro and in vivo imaging

Luisa de Cola is an Italian nanoscientist and has made a name for herself in two essential areas of interest: luminescent and electro-luminescent materials for optical and electro-optical applications as well as nanomaterials for medical imaging, diagnostics and therapy.

Academic and Professional Career

since 2012	AXA Chair on Supramolecular Chemistry, University of Strasbourg, Strasbourg, France
since 2012	Extraordinary Professor, Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany
since 2006	Part-time Professor, Department of Chemistry, University of Twente (UT), Twente, Netherlands
2005 - 2006	Extraordinary Professor, Van't Hoff Institute for Molecular Sciences (HIMS), University of Amsterdam, Amsterdam, Netherlands
2005 - 2012	Professor of Nanoelectronics and Nanophotonics, University of Münster, Münster, Germany
1998 - 2004	Professor of Molecular Photonic Materials, University of Amsterdam, Amsterdam, Netherlands
1990 - 1998	Assistant Professor, University of Bologna, Bologna, Italy
1987 - 1988	Visiting Scholar, University of Fribourg, Fribourg, Switzerland
1986 - 1990	Researcher, Institute of Photochemistry and High-Energy Radiation (FRAE), National Research Council (CNR), Bologna, Italy

1984 - 1986	Postdoctoral Fellow, Virginia Commonwealth University, Richmond, USA
1978 - 1983	Laurea in Chemistry summa cum laude, University of Messina, Messina, Italy

Honours and Awarded Memberships

since 2016	Corresponding Member, Academy of Sciences and Literature, Mainz, Germany
2014	L. Tartufari Prize, International Prize for Chemistry, Accademia dei Lincei, Rome, Italy
since 2014	Member, German National Academy of Sciences Leopoldina, Germany
2014	Chevalier de la Légion d'Honneur, Order of Merit, France
since 2013	Member, Academia Europaea
2012	Gutenberg Chair Award, Cercle Gutenberg, Region Grand Est, Eurométropole de Strasbourg, Strasbourg, France
2011	Distinguished Women in Chemistry or Chemical Engineering, International Union of Pure and Applied Chemistry (IUPAC)
2009	ERC Advanced Grant Award, European Research Council (ERC)
2004	Finalist, Descartes Prize 2004, European Commission
1995	International "Grammaticakis-Neumann" Prize, European Photochemistry Association
1995	"Per un futuro intelligente" Prize, Federchimica, Italian Federation of the Chemical Industry, Italy
1993	Chemistry Prize, Accademia di Scienze Fisiche e Matematiche di Napoli, Napoli, Italy
1986	Chemistry Prize, Fondazione U. Bonino e M.S. Pulejo, Messina, Italy

Research Priorities

Luisa de Cola is an Italian nanoscientist and has made a name for herself in two essential areas of interest: luminescent and electro-luminescent materials for optical and electro-optical applications as well as nanomaterials for medical imaging, diagnostics and therapy.

Her research on electro-luminescence was able to demonstrate how the structure of molecules can be used to regulate the colour of light emitted. In cooperation with the industry, these findings have been directly applied to the development of novel light sources such as OLEDs, PLEDs and LEECs. Luisa De Cola also specialises in porous nanomaterials, which are produced from various elements, in various shapes and with varying pore sizes. For example, they provide a base for the targeted growth of biological cells and tissues when applied as coating, thus opening up new strategies for regenerative medicine. Other applications – including of other nanoparticles such as nanocontainers

– can be found in the transporting of substances in the body as well as in in vitro and in vivo imaging, i.e. biomedical imaging, when combined with luminescence effects. In all these applications, the self-assembly of supramolecular structures plays an essential role as a way of producing, shaping and functionalising nanomaterials.

Throughout her research career, Luisa De Cola has repeatedly pioneered new scientific approaches and she sets great store by breaking down barriers between research disciplines and bringing together researchers from around the globe who complement each other's knowledge. She herself has conducted research in different parts of the world, collaborating closely with the industry and contributing to more than 30 patents.