Consiglio Nazionale delle Ricerche

Nicola Armaroli got the MS degree in chemistry in 1990 (Laurea) and the PhD in chemical sciences in 1994 from the University of Bologna. He was a post-doc at the Center for Photochemical Sciences at Bowling Green State University (Ohio, USA) and at the Italian National Research Council (CNR). In 1997 he started his own research projects at CNR, establishing several international collaborations. He became Senior Research Scientist in 2002 and Research Director in 2007. He is member of the Italian National Academy of Sciences, Chemistry Europe Fellow and Fellow of the Royal Society of Chemistry (FRSC).

His scientific activity is concerned with **photochemistry and photophysics**, in particular luminescent materials and systems for the conversion of light into electricity and fuels. Over his career he has carried out influential work in the fields of photochemistry of complex systems (catenanes, knots, rotaxanes, dendrimers), light-induced molecular motions, Cu(I) and Ir(III) complexes, multicomponent assemblies containing fullerenes, luminescent coordination compounds and supramolecular photoactive nanomaterials. He also studies the **transition of the global energy system** towards more sustainable models, also in relation to climate change and availability of natural resources. He serves as consultant on this topic for several national and international institutions and has served as adviser for the Italian government (2021-2022).

To date he has published 11 books, over 230 papers/chapters on international journals and books, over 30 articles/chapters on Italian journals and books. With an h-index of 73, he is listed among the most cited scientists worldwide across all disciplines. Since 2018 he has been elected member of the Executive Board of the European Chemical Society (EuChemS), where he served as chairman of the Working Party on Chemistry and Energy (2011-2017). He is Associate Editor of Photochemical & Photobiological Sciences (Springer Nature), member of the Editorial Board of Polyhedron (Elsevier).

He has delivered over 200 invited lectures at international conferences, universities, research centers and companies worldwide and serves as referee for the most important scientific editors as well as for national and international funding agencies and private companies and foundations. He has run European projects as CNR principal investigator or coordinator in the frame of COST, FP5, FP6, FP7 and H2020 programmes, funded by the European Commission.

Nicola Armaroli is also an influential science communicator for the general public on the issues of energy, natural resources and environment, also through interviews and contributions on mass media and social networks. He serves as director of Sapere, the first Italian science periodical, established in 1935, for which he has written tens of editorials.

He was awarded the **Grammaticakis-Neumann International Prize** in Photochemistry, the **Premio Letterario Galileo** for science dissemination, the **Gold Metal Enzo Tiezzi of the Italian Chemical Society**, the **Premio Madesimo**, the **Chemistry Prize of the Turin Academy of Science**, the **Solar Italy Award**.

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