

## CV of Elti Cattaruzza

Full professor of Experimental Physics at the Department of Molecular Sciences and Nanosystems, Università Ca' Foscari Venezia, Italy, since 2019. Associate professor since 2015. Researcher since 2005. Researcher at the Italian National Institute for the Physics of Matter (INFN), since 1998. Postdoctoral Fellowship (Università degli Studi di Padova, Italy). PhD in Physics (Università degli Studi di Padova, Italy). Degree in Physics (Università degli Studi di Padova, Italy) with the valuation of 110/110 summa cum laude.

His research activity is mainly concerned with the items:

- 1) preparation of thin films by ion exchange and rf sputtering deposition, for physical and chemical applications;
- 2) physics and chemistry of diffusion and aggregation processes of metals in glass;
- 3) X-ray photoelectron spectroscopy characterization of surfaces.

He is head of the Thin Film Deposition laboratory of the Ca' Foscari University of Venice (Italy).

He has collaborated with foreign Institutions: Vanderbilt University (Nashville, USA, invited as visiting scientist), CSNSM (Orsay, France), Université Jean Monnet (St-Etienne, France), University of Chemistry and Technology (Prague, Czech Republic), Moscow State University (Moscow, Russia), Central Glass Laboratory (Calcutta, India), Peshawar University (Peshawar, Pakistan), Bar Ilan University (Ramat Gan, Israel), Institute Laue-Langevin (Grenoble, France, invited as visiting scientist).

He has been main proposer of (and/or participant to) 30 experiments at the European Synchrotron Radiation Facility (ESRF) in Grenoble, 2 at the ELETTRA Sincrotrone in Trieste, 1 at the Institute Laue-Langevin (ILL) in Grenoble (all approved upon peer reviewing by International Committees).

E.C. is a member of the Editorial Board of the scientific journals Heliyon (Elsevier) and ISRN Nanotechnology (Hindawi). He is referee for 35 international Journals in the fields of Materials Science, Physics, Optics. Author or co-author of about 180 publications since 1992 (155 of which in international refereed Journals) and co-author of contributions on nanocluster composite glasses in 2 scientific encyclopaedias.

He was Local and/or Scientific Committee Member of several International Conferences (European and extra-European), as well as speaker and invited speaker. He is member of the Advisory Board for WCSM (annual World Congress of Smart Materials).

He participated in financed Italian PRIN and FIRB Projects, regarding nanostructured materials. He was reviewer for foreign funding agencies and for international research projects: United States Department of Energy (USA); The International Copper Association; Technology Foundation STW OTP (Netherlands), National Science Center Poland, Israeli Ministry of Science and Technology. He filed a patent as inventor for industrial invention in 2016, entitled: "Procedure for the colouring of glass lenses and its relative glass lenses".