

Valerio Voliani

Associate Professor

EDUCATION AND TRAINING

2012

PhD in Molecular Biophysics

Thesis title: Metal nanoparticles for biomedical applications: engineered coatings for multifunctionalization and controlled release.

Scuola Normale Superiore (Pisa, Italy)

2006

MSc in Chemistry

Thesis title: Synthesis and photophysics of green fluorescent proteins' chromophores: a study on the photochromism.

Scuola Normale Superiore (Pisa, Italy)

PROFESSIONAL HISTORY

2025-To date

Associate Professor in Inorganic & General Chemistry

Ricerca: i) hybrid nanotechnologies for oncological applications, ii) alternative biomodels.

University of Genoa (Genoa, IT)

2022-2025

Tenure track researcher (RTD-b)

Research: i) hybrid nanotechnologies for oncological applications, ii) alternative biomodels.

University of Genoa (Genoa, IT)

2018-2022

Researcher

Research: i) hybrid nanotechnologies, ii) alternative biomodels.

Center for Nanotechnology Innovation @NEST, Fondazione Istituto Italiano di Tecnologia (Pisa, Italy)

2014-2018

Postdoc

Research: i) hybrid nanotechnologies, ii) inorganic nanocatalysts.

Center for Nanotechnology Innovation @NEST, Fondazione Istituto Italiano di Tecnologia (Pisa, Italy)

2012-2014

Postdoc

Research: i) up-conversion nanocrystals, and ii) nanomedicine.

ICMOL - University of Valencia (Valencia, Spain)

ACADEMIC APPOINTMENTS

2024-

Expert Evaluator (GEV3 - Chemistry)

Evaluation of the Research Quality (VQR) 2020-2024

National Agency for the Evaluation of Universities and Research Institutes (ANVUR, Italy)

2024-

Member of the University Committee for the evaluation of PRIN-PNRR 2022 and PRIN 2022 projects

Evaluation of the PRIN-PNRR 2022 and PRIN 2022 projects from the University of Genoa

University of Genoa (Genoa, IT)

2024

Expert Evaluator

Evaluation of the proposals submitted to the Agence Nationale de la Recherche (AFR, France)

Agence Nationale de la Recherche (AFR, France)

2021-

Expert Evaluator

Evaluation of the proposals submitted to the National Science Centre Poland for the funding schemes: SONATA BIS-11, and OPUS-29 (Panels ST5, ST11)

National Science Centre Poland (Krakow, PL)

2020-2023

Committee reviewer

Evaluation of the proposals submitted to the OWSD Early Career fellowship awards

Organization of Women in Science for the Developing World (OWSD)

2020

Expert Evaluator

Evaluation of the proposals submitted to the FONCyT grants

Ministry of Science, Technology, and Innovation (Argentina)

EXPERIENCE

MAIN SEMINARS

2025 Plasmonic nanotherapeutics: a step towards clinical implementation, Gustave Roussy - Université Paris Saclay.

2024 Non-persistent nano-architectures and alternative biomodels in translational cancer research, AMYC-BIOMED.

2023 Hybrid plasmon nano-architectures and alternative biomodels: shifting the paradigms in oncological research, Institute of Medicine - University of Tsukuba (Japan).

2022 Noble metal nanomaterials: do the chemical nature and the administration approach play a role in the biokinetics?, XXX International Materials Research Congress.

2021 Noble metals in nanomedicine, Medical Institute of Sumy State University, Sumy (UA).

2020 The biokinetics of ultrasmall-in-nano theranostics: beyond noble metal persistence, 1st International Northern-Southern Europe Workshop in Nanomedicine.

2019 Beyond metals persistence: biodegradable ultrasmall-in-nano theranostics, University of Tromsø, Tromsø (NO).

2018 Biodegradable ultrasmall-in-nano architectures: bringing again noble metal theranostics to the forefront of cancer treatments, Yonsei University, Seoul (ROK).

2017 Inorganic nanomaterials for theranostics, issues and perspectives, National Institute for Materials Science (NIMS), Tsukuba (Japan).

SCIENTIFIC RESPONSIBILITY FOR RESEARCH PROJECTS ACCEPTED FOR FUNDING ON THE BASIS OF COMPETITIVE CALLS INVOLVING PEER REVIEW

2018-2023 Biodegradable noble metal-based nano-architectures as theranostics agents over head/neck neoplasms
Fondazione AIRC

EDITORSHIP OR PARTICIPATION IN EDITORIAL BOARDS OF JOURNALS, PUBLISHING SERIES, ENCYCLOPAEDIAS AND TREATISES

2024- Editorial Board member – Scientific Reports (Springer Nature)

2024- Editorial Board member – Discover Nano (Springer Nature)

PRIZES AND ACCOLADES FOR SCIENTIFIC ACTIVITY, INCLUDING MEMBERSHIP OF ACADEMIES

2024 Outstanding reviewer, Journal of Materials Chemistry B (Royal Society of Chemistry).

2020 Top cited Article @Wiley for doi: 10.1002/ppsc.201800464.

2018 Top 10 outstanding reviewer for Materials Horizons (Royal Society of Chemistry).

PARTICIPATION IN THE CREATION OF NEW BUSINESS ENTITIES (SPIN-OFFS), DEVELOPMENT, USE AND COMMERCIALISATION OF ACADEMIC PATENTS

2024 Accreditation of the startup project *NobleTouch*
Istituto Italiano di Tecnologia (Genoa, IT)