

Date of birth: 26/10/1961 | **Nationality:** Italian | **Gender:** Male | (+39) 0672594288 | goletti@roma2.infn.it |

Dipartimento di Fisica, Università di Roma Tor Vergata, Via della ricerca scientifica 1, 00133, Rome, Italy

● **WORK EXPERIENCE**

2005 – CURRENT – Rome, Italy

ASSOCIATE PROFESSOR (PHYSICS OF MATTER – SSD FIS/03 – SC 02/B1 – EXPERIMENTAL PHYSICS OF MATTER) – UNIVERSITY OF ROME TOR VERGATA, PHYSICS DEPARTMENT

- Academic Year 2017/2018 - today: lecturer of the course "General Physics – Mechanics and Thermodynamics" (Bachelor Degree in Material Science)
- Academic Year 2008/2009 - 2016/2017: lecturer of the course "Laboratory of experimental physics" (Bachelor Degree in Material Science)
- Academic Year 2005/2006 - 2007/2008: lecturer of the course "Physics (Mechanics, Thermodynamics , Electromagnetism)" (Bachelor Degree in Science and Technology for Media)
- Tutor for many Bachelor, Master and Ph.D. theses
- Coordinator of the Bachelor and Master Degree in Material Science (2016 - today)
- Member of the Teaching Board of the PhD course in Physics (2010-2012)
- Member of the Teaching Board of the PhD course in "Nanostrutture e Nanotecnologie" (between the University of Rome Tor Vergata and the University of Milano Bicocca) (2005-2008)
- Delegate of the Faculty of Science in the "Senato Accademico" of the University of Rome Tor Vergata (2012 - 2015)
- Member of the Tor Vergata Physics Department Executive Board (2008 - 2012; 2015-today)
- Team leader of the Surf (Surfaces and interfaces Laboratory) research group at the Physics Department of the University of Rome Tor Vergata (2006 -today)

1991 – 2005 – Rome, Italy

RESEARCHER (PHYSICS – EXPERIMENTAL PHYSICS) – UNIVERSITY OF ROME TOR VERGATA, PHYSICS DEPARTMENT

- Academic Year 1991/1992-1993/1994: teaching assistant, Laboratory of General Physics – Mechanics, Thermodynamics, Electromagnetism and Optics (Bachelor Degree in Biology)
- Academic Year 1994/1995-2004/2005: teaching assistant, General Physics – Mechanics, Thermodynamics, Electromagnetism and Optics (Degree in Physics and Bachelor Degree in Physics)
- Principal Investigator of the project "CRESCITA E PROPRIETA' OPTO-ELETTRONICHE DI FILM MOLECOLARI ORGANICI OMO- ED ETERO-EPITASSIALI SU SUBSTRATI MONOCRISTALLINI" (PRIN Research Program 2004) (2004 - 2005)
- Principal Investigator of the Italian team in the research project Italy-Germany "Vigoni 2005" (2006)
- Principal Investigator of the Italian team in the research project Italy-Germany "Vigoni 2008" (2009-2010)

● **EDUCATION AND TRAINING**

1988 – 1991 – Via Enrico Fermi 38, Frascati, Italy

TRAINING EXPERIENCE - CNR SCHOLARSHIPS (PH.D. EQUIVALENT) – Istituto di Struttura della Materia del CNR

1987
LAUREA DEGREE IN PHYSICS – University of Rome La Sapienza, Physics Department (Tutor prof. Gianfranco Chiarotti)



ADDITIONAL INFORMATION

Publications

Over 100 peer-reviewed publications on international journals. H-index 23 (Google scholar)

List of 10 recent (since 2011) selected scientific publications

1. Reflectance anisotropy spectroscopy of strain-engineered GaAsBi alloys.

C. Goletti, L. Fazi, E. Tisbi, B. Bonanni, E. Placidi, F. Arciprete

Appl. Phys. Lett. 120 (2022), 031902

2. Nature of Optical Excitations in Porphyrin Crystals: A Joint Experimental and Theoretical Study.

M. Palummo, L. Raimondo, C. Hogan, **C. Goletti**, S. Trabattoni, A. Sassella

J. Phys. Chem. Lett. 12 (2021), 869

3. Incipient Anion Intercalation of Highly Oriented Pyrolytic Graphite Close to the Oxygen Evolution Potential: A Combined X-ray Photoemission and Raman Spectroscopy Study.

M. S. Jagadeesh, G. Bussetti, A. Calloni, R. Yivlialin, L. Brambilla, A. Accogli, E. Gibertini, D. Alliata, **C. Goletti**, F. Ciccacci, L. Magagnin, C. Castiglioni, L. Duò

J. Phys. Chem. C 123 (2019) 1790

4. Corroles at the Real Solid-Liquid Interface: In Situ STM Investigation of a Water-Soluble Corrole Layer Deposited onto Au(111).

B. Bonanni, L. Fazi, M. Fanfoni, A. Sgarlata, F. Caroleo, G. Pomarico, P. Galloni, F. Sabuzi, L. Persichetti, R. Paolesse, **C. Goletti**

Chemistry-A European Journal 24 (2018), 17538

5. Surface-Enhanced Polymerization via Schiff-Base Coupling at the Solid-Water Interface under pH.

M. Di Giovannantonio, T. Kosmala, B. Bonanni, G. Serrano, N. Zema, S. Turchini, D. Catone, K. Wandelt, D. Pasini, G. Contini, **C. Goletti**

J. Phys. Chem. C 119 (2015) 19228

6. Molecular Ordering at the Interface Between Liquid Water and Rutile TiO₂(110).

G. Serrano, B. Bonanni, M. Di Giovannantonio, T. Kosmala, M. Schmid, U. Diebold, A. Di Carlo, J. Cheng, J. VandeVondele, K. Wandelt, **C. Goletti**

Advanced Materials Interfaces 2 (2015) 1500246

7. Cu(110) Surface in Hydrochloric Acid Solution: Potential Dependent Chloride Adsorption and Surface Restructuring.

C. Goletti, G. Bussetti, A. Violante, B. Bonanni, M. Di Giovannantonio, G. Serrano, S. Breuer, K. Gentz, K. Wandelt

J. Phys. Chem. C 119 (2015) 1782

8. Intermixing and buried interfacial structure in strained Ge/Si(105) facets.

L. Fazi, C. Hogan, L. Persichetti, **C. Goletti**, M. Palummo, A. Sgarlata, A. Balzarotti (2013).

Phys. Rev. B 88 (2013) 9195312

9. Site-Sensitive Gas Sensing and Analyte Discrimination in Langmuir-Blodgett Porphyrin Films.

G. Bussetti, A. Violante, R. Yivlialin, S. Cirilli, B. Bonanni, P. Chiaradia, **C. Goletti**, L. Tortora, R. Paolesse, E. Martinelli, A. D'Amico, C. Di Natale, G. Giancane, L. Valli

J. Phys. Chem. C 115 (2011) 8189

10. Coexistence of Negatively and Positively Buckled Isomers on n(+)-Doped Si(111) - 2 x 1.

G. Bussetti, B. Bonanni, S. Cirilli, A. Violante, M. Russo, **C. Goletti**, P. Chiaradia, O. Pulci, M. Palummo, R. Del Sole, P. Gargiani, M.G. Betti, P. Mariani, R. Feenstra, G. Meyer, K.H. Rieder

Phys. Rev. Lett. 106 (2011) 067601

Presentations - Conferences

Invited speaker to several international conferences and workshops.



Scientific activity - Key words

Optical properties of clean semiconductor surfaces in Ultra High Vacuum; metal/semiconductor interfaces; thin and ultrathin organic films in Ultra High Vacuum (UHV); real time monitoring of organic growth; gas/surface interaction; solid/liquid interface; Surface Differential Reflectance (SDR); Reflectance Anisotropy Spectroscopy (RAS); photoemission; Scanning Tunneling Microscopy (STM); Electrochemical STM; Si(111)2x1; Ge(111)2x1; C(111)2x1; GaAs(110); GaP(110); InP(110); GaAs(001); InAs(001); GaSb(001); InP(001); GaAsBi(001); TiO₂(110)rutile; TiO₂(100) anatase; porphyrins; corroles.

Reviewer of Scientific Journals

Physical Review Letters, Physical Review B, Surface Science, Physica Status Solidi a, Physica Status Solidi b, Physica Status Solidi c, Thin Solid Films, Optics Express, Organic Electronics, Colloids and surfaces, AIP Advance, Physical Biology, Advances in material Science and Engineering, Angewandte Chemie, Applied Physics A, Applied Physics Letters, Applied Surface Science, Beilstein Journal of Organic Chemistry, Crystal Research and Technology, FlatChem, Journal of Applied Physics, Journal of Chemical Physics, Journal of Physical Chemistry, Journal of Porphyrins and Phthalocyanines, Review of Scientific Instruments, Solar Energy

2021 – CURRENT

Editorial activity

Member of the Editorial Board for European Physical Journal Plus (EPJ plus, Springer)

PERSONAL SKILLS

Mother tongue

Italian

Other language(s)

English (fluent)

Job-related skills

Active in outreach and educational activities addressed to students and teachers of secondary schools.

See: [How to build an educational bridge](#)

P Riccardi, C Goletti

Nature nanotechnology 12 (2017), 1104

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