

PERSONAL INFORMATION

Giuseppe Quero



-  via dei Mulini 77, 82100 Benevento (Italia)
 +393888989554
 giuseppequero@gmail.com
 <https://www.linkedin.com/in/giuseppe-quero-22a58449/>

Sex Male | Date of birth 25/08/1981 | Nationality Italian

MAIN JOB SKILLS

Telecommunication Engineer, PhD in Information Engineering,
More than 10 years of experience in design, realization and validation of optical and electronics devices

WORK EXPERIENCE

15/10/2012–today

Post-Doc Researcher

University of Sannio, Benevento, Italy

Teaching course:

- Course for the PhD program in information engineering: "Fiber optic sensors: from theory to industrial applications" (2016).
- Course entitled "Main practical applications of fiber optic sensors" supported under the OPTOFER project, (2015).
- Course entitled "Main practical applications of fiber optic sensors" supported under the SICURFER project, (2013).

Research activities and report compilation:

Design, realization, testing and reporting results of optical fiber gratings along the fiber axis and on the optical fiber tip for multi-parametric measurements (nano-molecules detection in the biomedical field, dose detection in high energy field, temperature, strain, bending detection in the chemical and physical field). All activities are involved in several national and international project. Deliverable, SAL and technical report editing.

Role:

From the 15/02/2012 to 15/02/2014 the role was been the researcher in the lab. From 2014 the role is responsible for planning about realization and testing of optical fiber devices (long period gratings, LPGs, FBGs and LAB-on-Fiber sensors) managing the team to better address with good quality and in time the scheduled project activities.

Practices & Tools:

Tools:

Labview, Matlab, Micron-Optics-Interrogator (MOI), MOI-ENLIGHT, Optical Spectrum Analyzer (OSA), Light Sources (SLED), fusion splicer, micromachining excimer laser (KrF, $\lambda = 248$ nm), components passive optical fiber (fusion couplers, optical isolators) in the second and third telecommunications window.

Simulation tools (COMSOL) for the design of optical devices in the third resonant TLC window.

Skills:

Excellent skills about laboratory instrumentations for the optical devices realization based on long period optical fiber gratings (LPG) and LAB-on-Fiber sensors onto the optical fiber tip.

Excellent skills about laboratory instrumentations for testing of optical devices based on long period optical fiber gratings (LPG) and LAB-on-Fiber sensors onto the optical fiber tip..

Excellent skills about laboratory instrumentations for connectorization (splicer for optical fibers) and testing of optical and electronics devices.

1/10/2019–today	University teaching course University of Molise, Campobasso, Italy Owner of the Electronics course for Medical Engineering (University of Molise) http://docenti.unimol.it/index.php?u=g.quero
1/10/2012–today	University subject expert for the courses University of Sannio, Benevento, Italy University subject expert for the courses: <ul style="list-style-type: none">- Electronics- Electronics automation- Laboratory of electronics automation- Analog electronics- Digital electronics
11/04/2016–11/04/2017	Participation in the teaching staff or assignment of teaching assignments, in the context of research doctorates accredited Assignment of the teaching course entitled "Optical fiber sensors: from theory to applications in the industrial field "(6 CFU) as part of the PhD course in Information Technologies for Engineering at the Department of Engineering, University of the Sannio.
1/10/2007–1/12/2007	Researcher University of Sannio, Benevento, Italy Research activities: Experimental characterization and final validation of the demonstrators developed in the SMART project under the Project SMART-CIRA Search

EDUCATION AND TRAINING

01/07/2009–01/07/2012	PhD in INFORMATION ENGINEERING University of Sannio, Benevento, Italy <i>Thesis: Lab-On-Fiber technology for sensing applications</i> The doctoral research and the various research grants activities also focused on nanotechnologies with a special look at the development of multifunctional optical fiber devices (on the micrometer and nanometer scale) for the realization of the wavelength-selective filters utilized as band-stop and pass-band filter (in the telecommunications field) and for the simultaneous detection of physical, chemical and biological parameters (in the sensing field), also integrated on the optical fiber tip. This period has also seen the interface and subsequent use of tools for the construction and morphological characterization of nanometric structures (Laser micromachining at $\lambda = 193$ nm, Laser micromachining at $\lambda = 248$ nm, Focused Ion Beam (FIB) and Atomic Force Microscopy (AFM)).	8
-----------------------	--	---

01/01/2006–18/12/2008 **Master Degree in Telecommunication Engineering** 7

University of Sannio, Benevento, Italy

Thesis: Hybrid cavity interferometry-based network of uniform and tilted Bragg

Score: 109/110

05/08/2013–13/09/2013 **Summer School Participation**

School of Photonics 2013: “Where photonics meets electronics”, Cortona, Arezzo, Italy.

20/09/2011–25/09/2011 **Winter School Participation**

Winter College Advanced School on Physics: Nanoantennas and Hybrid Quantum Systems, Physikzentrum di Bad Honnef (Colonia - Germany).

01/02/2010–15/02/2010 **Winter School Participation**

Winter College on Optics and Energy presso la scuola “The Abdus Salam International Centre for Theoretical Physics”, Miramare (Trieste).

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B1	B1	B1	B1
French	B1	B1	B1	B1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

Excellent communication skills, with competence in writing, graphics and presentation, acquired both in research with participation in meetings, conferences and workshops and in teaching especially in e-learning. Excellent skills in order to work in a multidisciplinary team.

Organisational / managerial skills

Excellent organizational skills acquired handling multiple tasks (teaching and research). I am used to work with tight deadlines under changing conditions.

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

Technical skills**System architecture:**

Excellent knowledge of optoelectronic setup for testing and automatic data acquisition able to analyze the DUT performances.

Programming language and computer:

Good knowledge of LabView software;

Good knowledge of Matlab software;

Good knowledge of COMSOL software;

Good knowledge of reporting performances devices;

Excellent knowledge of Office software package.

Operative System:

Windows 98/ME/XP

Hardware:

Good knowledge of LabView software to program graphical interfaces to remotely control various instruments such as the Optical Spectrum Analyzer (OSA) or the Vector Network Analyzer (VNA).

Excellent knowledge of the following laboratory instruments:

- Optical spectrum analyzer (OSA);
- Atomic Force Microscope (AFM) and optical microscope;
- Micromachining excimer laser ($\lambda = 193$ nm ArF, KrF $\lambda = 248$ nm);
- Maintenance of micromachining excimer laser ($\lambda = 193$ nm ArF, KrF $\lambda = 248$ nm);
- Light Sources (tunable lasers, SLED, SuperK);
- Couplers and isolators of fiber optic light;
- Oscilloscope;
- Power meter;
- Micron-Optics-Interrogator (MOI);
- Components of an optoelectronic laboratory (high-precision cutter, splicer for optical fibers).
- Electronics device and IoT station realization.

Network Systems:

- LAN, WAN, VPN, TCP/IP, IP BROAD BAND, WI-FI, VOIP

Driving licence

B

ADDITIONAL INFORMATION**Scientific Reviewer activities**

- IEEE, Optics Express, Sensors reviewer

Associations

- Technical committee at Conference "eTELEMED 2018", 25 - 29 March, 2018 - Rome, Italy.
- Technical committee at Conference " -Biosensors and Bioelectronics Symposium", 3 - 9 June, 2018 - Stockholm, Sweden.
- Associate with National Institute of Nuclear Physics (INFN), regarding the design and construction of the first displacement sensor prototypes and humidity based on FBG technology (fiber Bragg gratings) for CERN.
- Associate with the CERN from 2018.
- Enabling the Engineering profession achieved in March 2011.
- National scientific qualification ASN 2018-2020 "SETTORE CONCORSUALE 09/E3 ELETTRONICA"

EDITORIAL ACTIVITIES

03/2019 - today

Editorial Board member (Associate Editor) of Journal of Sensors, (ISSN: 1687-7268, DOI: 10.1155/9161).

<https://www.hindawi.com/journals/js/editors/>

06/2018 - today

Editorial Board member (Associate Editor) of Advances in Laser Optics and Photonics.
<http://www.oscinegroup.com/main.php?page=advances-in-lasers-and-optics&JRNID=1/>

06/2019- today	Editorial Board member (Associate Editor) of JSSS - Journal of Sensors and Sensor Systems (ISSN: 21948771). http://www.journal-of-sensors-and-sensor-systems.net
06/2019- today	Editorial Board member (Associate Editor) of International Journal of Sensors, Wireless Communications and Control (ISSN: 2210-3287). https://www.eurekaselect.com/187526/article
04/2021- today	Editorial Board member (Associate Editor) of Scientific Reports – Nature (ISSN: 2045-2322). https://www.nature.com/srep/about/editors#:~:text=Chief%20Editor%3A%20Richard%20White

Publications in scientific journals

S. Managò, G. Quero, G. Zito, G. Tullii, F. Galeotti, M. Pisco, A. C. De Luca, A. Cusano, "Tailoring Lab-on-fiber SERS optrodes towards biological targets of different sizes", Sensors and Actuators B: Chemical, 2020.

M Consales, G. Quero, S. Spaziani, M. Principe, A. Micco, V. Galdi, A. Cutolo, A. Cusano, "Metasurface-Enhanced Lab-on-Fiber Biosensors", Laser and Photonics Reviews, 2020.

O.Fuentes, P. Vaiano, I. del Villar, G. Quero, J. Corres, M. Consales, I. Matías, A. Cusano "Improving the width of lossy mode resonances in a reflection configuration D-shaped fiber by nanocoating laser ablation", Optics Letters, Vol. 45, 2020.

G. M. Berruti, P. Vaiano, G. Quero,T. F. Pimentel Das Neves, A. Boniello, M. Consales, P. Petagna, A. Cusano "Analysis of uncoated LPGs written in B-Ge doped fiber under proton irradiation for sensing applications at CERN", Scientific Reports , Vol. 10, Article number: 1344, 2020.

G. Quero, P. Vaiano, F. Fienga, M. Giaquinto, V. Di Meo, G. Gorine, P. Casolaro, L. Campajola, G. Breglio, A. Crescitelli, E. Esposito, A. Ricciardi, A. Cutolo, F. Ravotti, S. Buontempo, M. Consales, A. Cusano " A novel Lab-on-Fiber Radiation Dosimeter for Ultra-high Dose Monitoring", Scientific Reports , Vol. 8, Article number: 17841, 2018.

G. Quero, G. Zito, S. Managò, F. Galeotti, M. Pisco, A. C. De Luca, A. Cusano "Nanosphere Lithography on Fiber: Towards Engineered Lab-On-Fiber SERS Optrodes", Sensors, Vol. 18, Issue 3, 680, 2018.

M. Pisco, F. Galeotti, G. Quero, G. Grisci, A. Micco, L. Mercaldo, P. Delli Veneri, A. Cutolo, A. Cusano, "Nanosphere lithography for optical fiber tip probes", Light: Science & Applications (Nature Journal), 6, e16229; doi: 10.1038/lsa.2016.229.

P. Vaiano, B. Carotenuto, M. Pisco, A. Ricciardi, G. Quero, M. Consales, A. Crescitelli, E. Esposito, A. Cusano, "Lab on Fiber Technology for biological sensing applications", Laser Photonic Review, vol.10, pp. 922-961, 2016.

G. Quero, S. Zuppolini, M. Consales, L. Diodato, P. Vaiano, A. Venturelli, M. Santucci, F. Spyarakis, M.P. Costi, M. Giordano, A. Borriello, A. Cutolo, A. Cusano, "Long Period Fiber Grating Working in Reflection Mode as Valuable Biosensing Platform for the Detection of Drug Resistant Bacteria", Sensors and Actuators B: Chemical, vol. 230, pp. 510-520, 2016.

G. Quero, M. Consales, R. Severino, P. Vaiano, A. Boniello, A. Sandomenico, M. Ruvo, A. Borriello, L. Diodato, S. Zuppolini, M. Giordano, I. C. Nettore, C. Mazzarella, A. Colao, P. E. Macchia, F. Santorelli, A. Cutolo, A. Cusano, " Long Period Fiber Grating Nano-Optrode for Cancer Biomarker Detection", Biosensor and Bioelectronics, DOI: 10.1016/j.bios.2016.02.021, vol. 80, pp. 590–600, 2016.

A. Ricciardi, A. Crescitelli, P. Vaiano, G. Quero, M. Consales, M. Pisco, E. Esposito and A. Cusano,"Lab-on-Fiber Technology: A New Vision for Chemical and Biological Sensing", Analyst, DOI: 10.1039/C5AN01241D, 2015.

M. Pisco , F. Galeotti , G. Quero , A. Iadicicco , M. Giordano , and A. Cusano, "Miniaturized Sensing Probes Based on Metallic Dielectric Crystals Self-assembled on Optical Fiber Tips", ACS Photonics, Vol.1, no 10, pp.917-927, 2014.

A. Micco, A. Ricciardi, G. Quero, A. Crescitelli, W.J. Bock, A. Cusano, " Simple technique for integrating compact silicon devices within optical fibers", Optics Letters, vol. 39, no 4 pp.861-864, 2014.

V. La Ferrara, P.M. Aneesh, P. Delli Veneri, L.V. Mercaldo, I. Usati, T. Polichetti, A. Ricciardi, G. Quero, A. Cusano, "Focused ion beam strategy for nanostructure milling in doped silicon oxide layer for light trapping applications", Vacuum, vol. 99, pp.135-142, 2014.

A. Ricciardi, M. Consales, G. Quero, A. Crescitelli, E. Esposito, A. Cusano, " Lab-on-Fiber devices as an all around platform for sensing", Optical Fiber Technology, vol.19, no.6, pp.772-784, 2013.

A. Ricciardi, M. Consales, G. Quero, A. Crescitelli, E. Esposito, A. Cusano, " Versatile Optical Fiber Nanoprobes: From Plasmonic Biosensors to Polarization-Sensitive Devices", ACS Photonics, vol. 1, pp.69-78, 2013.

A. Iadicicco, D. Paladino, M. Moccia, G. Quero, S. Campopiano, W. J. Bock, A. Cusano, "Mode Coupling and Field Distribution in Sub-mm Permanently Bent Single Mode Optical Fibers", XXII Conferenza Internazionale OFS (Optical Fiber Sensors), Optics & Laser Technology, vol. 47, pp. 292–304, 2013.

G. Quero, A. Crescitelli, D. Paladino, M. Consales, A. Buosciolo, M. Giordano, A. Cutolo, A. Cusano, "Evanescent wave long-period fiber grating within D-shaped optical fibers for high sensitivity refractive index detection", Sensors and Actuators B: Chemical, vol. 152, no.2, pp.196-205, 2011.

D. Paladino, G. Quero, C. Caucheteur, P. Mégret A. Cusano, "Hybrid fiber grating cavity for multi-parametric sensing", Optics Express, vol. 18, no. 10, pp. 10473-10486, 2010.

Conferences publications

M. Consales, G. Quero, S. Spaziani, M. Principe, A. Micco, V. Galdi, A. Cutolo, A. Cusano, "Optical Fiber Meta-Tip: a Novel Platform for Highly Sensitive Detection of Molecular Interactions", Optical Microsystems OpS19, 9 -11 September 2019, Anacapri, Island of Capri, Italia.

G. Quero, P. Vaiano, F. Fienga, M. Giaquinto, V. Di Meo, G. Gorine, P. Casolaro, L. Campajola, G. Breglio, A. Crescitelli, E. Esposito, A. Ricciardi, A. Cutolo, F. Ravotti, S. Buontempo, M. Consales, A. Cusano, "Innovative lab on fiber dosimeters for ionizing radiation monitoring at ultra-high doses", Seventh European Workshop on Optical Fibre Sensors (EWOFS 2019) , Limassol, Cyprus.

G. Zito, S. Managò, F. Galeotti, M. Pisco, A. C. De Luca, A. Cusano, "Lab-On-Fiber SERS Substartes for Biomolecular Recognition", Seventh European Workshop on Optical Fibre Sensors (EWOFS 2019) , Limassol, Cyprus.

G. Quero, G. Zito, S. Managò, F. Galeotti, M. Pisco, A. C. De Luca, A. Cusano, "Engineered Lab-On-Fiber SERS Optrodes based on Nanosphere Lithography", META 2019, Lisbon - Portugal, July 23 – 26, 2019.

G. Quero, P. Vaiano, F. Fienga, M. Giaquinto, V. Di Meo, G. Gorine, P. Casolaro, L. Campajola, G. Breglio, A. Crescitelli, E. Esposito, A. Ricciardi, A. Cutolo, F. Ravotti, S. Buontempo, M. Consales, A. Cusano, "Ultra-high Dose Monitoring with Innovative Lab-on-Fiber Radiation Dosimeter", 7th International Symposium on Sensor Science (I3S 2019), 9-11 Maggio, Napoli, Italia

G. Quero, G. Zito, S. Managò, F. Galeotti, M. Pisco, A. C. De Luca, A. Cusano, "Engineered Lab-On-Fiber SERS Optrodes based on Nanosphere Lithography", 7th International Symposium on Sensor Science (I3S 2019), 9–11 May 2019, Napoli, Italia.

G. Quero, G Zito, S. Managò, F. Galeotti, M. Pisco, A. C. De Luca, A. Cusano, "Engineered Lab on Fiber SERS probes by "Self Assembly on Fiber" technique", OSA Technical Digest (Optical Society of America, 2018), paper TuE7, OFS 2018, Lausanne, Switzerland, 24-28 September 2018.

G. M. Berruti, T.F.P. Das Neves, M. Consales, P. Vaiano, G. Quero, P. Petagna, A. Cusano, "Radiation sensitivity of Long Period Gratings written in B-Ge doped fiber under proton irradiation at CERN", Optics InfoBase Conference Papers, Part F124-OFS 2018, 2018

G. Quero, P. Vaiano, F. Fienga, M. Giaquinto, V. Di Meo, A. Ricciardi, P. Casolaro, S. Buontempo, G. Breglio, L. Campajola, A. Crescitelli, E. Esposito, A. Cutolo, M. Consales, A. Cusano. (INVITED), "Lab-on-Fiber platforms promising dosimeter for the ultra high dose scenario" Fotonica 2018, Lecce.

G. Quero, G. Zito, S. Managò, F. Galeotti, M. Pisco, A. C. De Luca, A. Cusano "Self Assembled Optical Fiber Sers Tips", Fotonica 2018, Lecce.

G. Quero "SERS substrates on optical fiber tips: toward the optrode configuration", OPTICS 2018 (invited) , 2018, Roma.

G. Quero "Lab-on-Fiber Technology for Biomedical Applications", The Tenth International Conference on eHealth, Telemedicine, and Social Medicine eTELEMED 2018 , 2018, Roma.

G. Quero, S. Managò , M. Pisco , F. Galeotti , G. Zito , A. C. De Luca , A. Cutolo , A. Cusano, "SERS substrates on optical fiber tips: toward the optrode configuration", 3rd EOS Topical Meeting on Optics at the Nanoscale (ONS'17), 2017, Capri.

M. Pisco, F. Galeotti, G. Quero, G. Grisci, A. Micco, L. Mercaldo, P. Delli Veneri, A. Cusano, "Reproducible SERS substrates on optical fiber tips by nanosphere lithographyReproducible SERS substrates on optical fiber tips by nanosphere lithography", XXIV Conferenza Internazionale OFS (Optical Fiber Sensors), 2017, Korea.

M. Pisco, F. Galeotti, G. Quero, G. Grisci, A. Micco, L. Mercaldo, P. Delli Veneri, A. Cusano, "Self-assembled and repeatable SERS nanoprobes on fibre tip", FOTONICA 2017, 2017, Padova - Italia.

M. Pisco, F. Galeotti, G. Quero, G. Grisci, A. Micco, L. Mercaldo, P. Delli Veneri, A. Cusano, "Nanosphere Lithography for Advanced All Fiber Sers Probes", 48a Riunione annuale del Gruppo Italiano di Elettronica, 2016, Brescia, Italia.

M. Pisco, F. Galeotti, G. Quero, G. Grisci, A. Micco, L. Mercaldo, P. Delli Veneri, A. Cusano, "Nanosphere Lithography for Advanced All Fiber Sers Probes", European Workshop on Optical Fibre Sensors, , Limerick - Irlanda.

G. Quero, M. Consales, R. Severino, P. Vaiano, A. Boniello, A. Sandomenico, M. Ruvo, A. Borriello, L. Diodato, S. Zuppolini, M. Giordano, I. C. Nettore, A. Colao, P. E. Macchia, F. Santorelli, A. Cutolo, A. Cusano, " High Sensitive Long Period Fiber Grating Biosensor for Cancer Biomarker Detection", Conferenza internazionale Healthinf 2016, 2016, Roma, Italia.

V. Di Meo, A. Crescitelli, I. Rendina, E. Esposito, A. Ricciardi, R. Severino, G. Quero, B. Carotenuto, M. Consales, A. Cutolo, A. Cusano, M. Ruvo, A. Sandomenico, A. Borriello, L. Sansone, M. Giordano, F. Santorelli, "Nanostructured optical fiber probe for biochemical sensing based on Localized Surface Plasmon Resonance", Conferenza internazionale EOS 2015, Capri, Italia.

E. Esposito, A. Crescitelli, V. Di Meo, I. Rendina , A. Ricciardi, R. Severino, G. Quero, B. Carotenuto, M. Consales, A. Cutolo, A. Cusano, M. Ruvo, A. Sandomenico, A. Borriello, L. Sansone , M. Giordano, "A plasmonic fiber-optic nanoprobe for sensitive detection of cancer biomarkers", Conferenza internazionale FIS-MAT 2015, Italia.

G. Quero R. Severino, B. Carotenuto, P. Vaiano, A. Ricciardi, M. Consales, A. Crescitelli, E. Esposito, M. Ruvo, A. Borriello, L. Sansone, S. Zuppolini, L. Diodato, M. Giordano, A. Cutolo, A. Cusano, "Innovative Optical Fiber Nanoprobe for Biological Sensing", 47a Riunione annuale del Gruppo Italiano di Elettronica, 2015, Siena, Italia.

R. Severino, A. Ricciardi, G. Quero, B. Carotenuto, P. Vaiano, M. Consales, A. Crescitelli, E. Esposito, M. Ruvo, A. Sandomenico, A. Borriello, L. Sansone, A. Cutolo, A. Cusano, "Lab-on-Fiber Technology" for the real time cancer marker detection: developing an innovative local SPR based optical fiber biosensor", Conferenza internazionale Bio-Photonics 2015, 2015, Firenze, Italia.

R. Severino, G. Quero, P. Vaiano, A. Boniello, M. Consales, M. Ruvo, A. Borriello, S. Zuppolini, L. Diodato, A. Cutolo, A. Cusano, "Reflection Type Long Period Fiber Grating Biosensor for real time Thyroglobulin detection as differentiated thyroid cancer biomarker: The "Smart Health" Project", Conferenza internazionale Bio-Photonics 2015, 2015, Firenze, Italia.

A. Ricciardi, R. Severino, G. Quero, B. Carotenuto, M. Consales, A. Crescitelli, E. Esposito, M. Ruvo, A. Sandomenico, A. Borriello, M. Giordano, L. Sansone, C. Granata, A. Cutolo, A. Cusano "Lab-on-Fiber biosensing for cancer biomarker detection", XXIV Conferenza Internazionale OFS (Optical Fiber Sensors), 2015, Curitiba - Brasile

M. Pisco, F. Galeotti, G. Grisci, G. Quero, A. Cusano "Self-assembled periodic patterns on the optical fiber tip by microsphere arrays", XXIV Conferenza Internazionale OFS (Optical Fiber Sensors), 2015, Curitiba - Brasile

G. Quero, R. Severino, P. Vaiano, M. Consales, M. Ruvo, A. Sandomenico, A. Borriello, M. Giordano, S. Zuppolini, L. Diodato, A. Cutolo, A. Cusano, "High Sensitive Reflection Type Long Period Fiber Grating Biosensor for real time detection of Thyroglobulin, a differentiated thyroid cancer biomarker: The "Smart Health" Project", XXIV Conferenza Internazionale OFS (Optical Fiber Sensors), 2015, Curitiba - Brasile

M. Pisco, F. Galeotti, G. Grisci, R. Parente, G. Quero, A. Cutolo, A. Cusano, "Fabrication of Periodic Patterns on the Optical Fiber Tip by Microsphere Self-assembly", FOTONICA 2015, 2014, Torino - Italia.

R. Severino, G. Quero, B. Carotenuto, P. Vaiano, A. Ricciardi, M. Consales, A. Crescitelli, E. Esposito, M. Ruvo, A. Borriello, A. Cutolo, A. Cusano, "Innovative Fiber Optic Biosensors for real time cancer detection:

The "Smart Health" Project", AISEM2015-Fondazione Bruno Kessler, 2015, Trento - Italia.

G. Quero, M. Consales, S. Zuppolini, L. Diodato, A. Borriello, M. Giordano, A. Venturelli, M. P. Costi, A. Cusano, "Reflection-type Long Period Grating Biosensor for the Detection of Drug Resistant Bacteria: The Optobacteria Project", AISEM2015-Fondazione Bruno Kessler, 2015, Trento - Italia.

M. Pisco, F. Galeotti, R. Parente, G. Quero, A. Iadicicco, M. Giordano, A. Cusano, "Fiber Optic Sensing Probes using Self-assembly techniques, IMEKO 2014, 2014, Benvento - Italia.

M. Pisco, F. Galeotti, R. Parente, G. Quero, A. Iadicicco, M. Giordano, A. Cusano, "Engineering Metallo Dielectric Structures on Optical Fiber Tips by Self- Assembling Techniques" , 2014 IEEE Photonics Conference, 12 - 16 October 2014, Hyatt Regency La Jolla, San Diego, California - USA.

G. Quero, R. Severino, A. Ricciardi, M. Consales, A. Crescitelli, E. Esposito, A. Cusano, "Fiber Optic Nanosensor for Biological Applications", 46a Riunione annuale del Gruppo Italiano di Elettronica, 2014, Cagliari, Italia.

M. Consales, G. Quero, S. Zuppolini, L. Sansone, A. Borriello, M. Giordano, A. Venturelli, M.P. Costi, M. Santucci, A. Cusano, "Long Period Fiber Grating Biosensor for the Detection of Drug Resistant Bacteria: The "OPTOBacteria" Project", THIRD MEDITERRANEAN PHOTONICS CONFERENCE, 2014, Trani - Italia.

A. Crescitelli, E. Esposito, A. Ricciardi, G. Quero, M. Consales, A. Cutolo, A. Cusano, "All in Fiber

Nanophotonic Sensors", FOTONICA 2014, 2014, Napoli - Italia.

M. Consales, G. Quero, S. Zuppolini, L. Sansone, A. Borriello, M. Giordano, A. Venturelli, M.P. Costi, M. Santucci, A. Cusano, "Long Period Fiber Grating Biosensor for the Detection of Drug Resistant Bacteria: The "OPTObacteria" Project", FOTONICA 2014, 2014, Napoli - Italia.

M. Consales, G. Quero, S. Zuppolini, L. Sansone, A. Borriello, M. Giordano, A. Venturelli, A. Cusano, "Reflection-type Long Period Grating Biosensor for the Detection of Drug Resistant Bacteria: The Opto-bacteria Project", XXIII Conferenza Internazionale OFS (Optical Fiber Sensors), 2014, Cantabria - Spagna.

A. Ricciardi, M. Consales, G. Quero, A. Crescitelli, E. Esposito, A. Cusano, "Fiber Optic Plasmonic Nanoprobes: Towards Multifunctional Photonic Devices and Components", Secondo Workshop, Gruppo Biosensori Ottici e Biofotonica della Società Italiana di Ottica e Fotonica, 2013, Sestri Levante - Italia.

M. Pisco, G. Quero, A. Iadicicco, M. Giordano, F. Galeotti, A. Cusano, "Ultrasensitive nanoprobes based on metallo-dielectric crystals integrated onto optical fiber tips using the breath figures technique", Fifth European Workshop on Optical Fibre Sensors, 2013, Cracovia - Polonia.

G. Quero, M. Consales, A. Crescitelli, A. Ricciardi, E. Esposito, A. Cutolo, A. Cusano, "Lab on fiber technology: a versatile fabrication path for optimized nanoprobes", Fifth European Workshop on Optical Fibre Sensors, 2013, Cracovia - Polonia.

A. Micco, G. Quero, A. Crescitelli, A. Ricciardi, A. Cusano, "Ultracompact optical fiber Fabry-Perot interferometer based on in-line integrated sub-micron silicon film", Fifth European Workshop on Optical Fibre Sensors, 2013, Cracovia - Polonia.

G. Quero, M. Consales, A. Crescitelli, A. Ricciardi, E. Esposito, A. Cutolo, A. Cusano, "Two-dimensional hybrid metallo-dielectric nanostructures directly realized on the tip of optical fibers for sensing applications", SPIE-Optics and Optoelectronics, 2013, Praga - Repubblica Ceca.

M. Pisco, G. Quero, A. Iadicicco, M. Giordano, F. Galeotti, A. Cusano, "Lab on Fiber by using the Breath Figure technique", SPIE-Optics and Optoelectronics, 2013, Praga - Repubblica Ceca.

A. Micco, A. Frattolillo, G. Quero, A. Crescitelli, A. Ricciardi, A. Cusano, "Integrated Silicon-Silica In-Fiber interferometers Fabricated Using The Arc Discharge Techniques, AISEM 2013, 2013, Brescia.

E. Esposito, G. Quero, A. Ricciardi, A. Crescitelli, M. Consales, A. Cusano, "Polarization Sensitive Fiber Optic Nanoprobes", AISEM 2013, 2013, Brescia.

M. Pisco, M. Moccia, G. Quero, A. Iadicicco, M. Giordano, F. Galeotti, A. Cusano, "Breath Figures onto Optical Fiber for Miniaturized Sensing Probes", AISEM 2013, 2013, Brescia.

M. Pisco, G. Quero, A. Iadicicco, M. Giordano, F. Galeotti, A. Cusano, "Lab on Fiber using self assembly technique: a preliminary study", XXII Conferenza Internazionale OFS (Optical Fiber Sensors), 2012, Pechino - Cina.

G. Quero, A. Crescitelli, A. Ricciardi, M. Pisco, M. Consales, E. Esposito, A. Cutolo, A. Cusano, "Lab on Fiber Technology: A new vision", XCVIII Congresso Nazionale della Società Italiana di Fisica, 2012, Napoli.

M. Pisco, G. Quero, A. Iadicicco, M. Giordano, F. Galeotti, A. Cutolo, A. Cusano, "Lab on Fiber by self assembly technique: a preliminary study", 44a Riunione annuale del Gruppo Italiano di Elettronica, 2012, Marina di Carrara.

M. Consales, A. Ricciardi, A. Crescitelli, G. Quero, E. Esposito, A. Cutolo, A. Cusano, "Lab-on-Fiber

Technology: A New Avenue for Multifunction Nanophotonics within Optical Fibers", 44a Riunione annuale del Gruppo Italiano di Elettronica, 2012, Marina di Carrara.

A. Taurino, M. Catalano, P. Siciliano, A. Cusano, D. Paladino, G. Quero, M. Consales, A. Cutolo, "Focused ion beam nanofabrication for lab-on- fiber technology", Convegno Nazionale Sensori: Innovazione, attualità e prospettive, 2012, Roma.

A. Taurino, M. Catalano, L. Francioso, P. Siciliano, D. Paladino, G. Quero, M. Consales, A. Cutolo, A. Cusano, "Lab On Fiber Technology (LOFT) for Next Generation of Label-Free Biosensing"; "PRIMO WORKSHOP DEL GRUPPO BIOSENSORI OTTICI E BIOFOTONICA", 2010, Firenze.

G. Quero, A. Cresciteti, D. Paladino, M. Consales, A. Buosciolo, M. Giordano, A. Cusano, "Evanescent-Wave LPFG in D-Fiber by Periodically Patterned Overlay", IV Conferenza Internazionale EWOFS (European Workshop on Optical Fibre Sensors), 2010, Porto – Portogallo.

A. Taurino, M. Catalano, L. Francioso, P. Siciliano, A. Cusano, D. Paladino, G. Quero, M. Consales, A. Cutolo, "Lab On Fiber Technology (LOFT) for Next Generation of MOEMS Devices and Systems", MEMS IN ITALY & MEMSWAVE 2010, 2010, Otranto.

D. Paladino, G. Quero, A. Cutolo, A. Cusano, C. Caucheteur, P. Mégret, "All-Fiber Hybrid Cavity for Sensing Applications", VIII Conferenza Internazionale IEEE Sensors, 2009, Christchurch – Nuova Zelanda.

D. Paladino, G. Quero, A. Iadicicco, C. Caucheteur, P. Mégret, A. Cusano, "All-Fiber Hybrid Fiber Bragg Grating Cavity for Multi-Parameter Sensing Applications", XX Conferenza Internazionale OFS (Optical Fiber Sensors), 2009, Edimburgo – Scozia.

D. Paladino, G. Quero, A. Cutolo, A. Cusano, C. Caucheteur, P. Mégret, "All-Fiber Hybrid Fiber Bragg Gratings Cavity for Sensing Applications", A. Micco, A. Ricciardi, G. Quero, A. Cresciteti, W.J. Bock, A. Cusano, "Simple technique for integrating compact silicon devices within optical fibers", Optics Letters, vol. 39, no 4 pp.861-864, 2014.

V. La Ferrara, P.M. Aneesh, P. Delli Veneri, L.V. Mercaldo, I. Usati, T. Polichetti, A. Ricciardi, G. Quero, A. Cusano, "Focused ion beam strategy for nanostructure milling in doped silicon oxide layer for light trapping applications", Vacuum, vol. 99, pp.135-142, 2014.

A. Ricciardi, M. Consales, G. Quero, A. Cresciteti, E. Esposito, A. Cusano, " Lab-on-Fiber devices as an all around platform for sensing", Optical Fiber Technology, vol.19, no.6, pp.772-784, 2013.

A. Ricciardi, M. Consales, G. Quero, A. Cresciteti, E. Esposito, A. Cusano, " Versatile Optical Fiber Nanoprobes: From Plasmonic Biosensors to Polarization-Sensitive Devices", ACS Photonics, vol. 1, pp.69-78, 2013.

A. Iadicicco, D. Paladino, M. Moccia, G. Quero, S. Campopiano, W. J. Bock, A. Cusano, "Mode Coupling and Field Distribution in Sub-mm Permanently Bent Single Mode Optical Fibers", XXII Conferenza Internazionale OFS (Optical Fiber Sensors), Optics & Laser Technology, vol. 47, pp. 292–304, 2013.

G. Quero, A. Cresciteti, D. Paladino, M. Consales, A. Buosciolo, M. Giordano, A. Cutolo, A. Cusano, "Evanescent wave long-period fiber grating within D-shaped optical fibers for high sensitivity refractive index detection", Sensors and Actuators B: Chemical, vol. 152, no.2, pp.196-205, 2011.

D. Paladino, G. Quero, C. Caucheteur, P. Mégret, A. Cusano, "Hybrid fiber grating cavity for multi-parametric sensing", Optics Express, vol. 18, no. 10, pp. 10473-10486, 2010.

G. Quero, A. Crescitelli, M. Consales, M. Pisco, A. Cutolo, V. Galdi, A. Cusano, A. Iadicicco, "Resonant Hydrophones Based on Coated Fiber Bragg Gratings for Underwater Monitoring", in Photonics for Safety and Security" ISBN: 978-981-4412-96-4 , Novembre 2013.

A. Ricciardi, A. Crescitelli, M. Consales, G. Quero, E. Esposito, A. Cutolo, A. Cusano, "Lab-on-Fiber Technology: Towards Multifunctional Optical Nanoprobes", in "Lab on Fiber Technology", Springer Verlag, pp. 133-158, 2014, ISBN 978-3-319-06998-2.

M. Pisco, G. Quero, A. Iadicicco, M. Giordano, F. Galeotti, A. Cusano, "Lab on Fiber by using the Breath Figure technique", in "Lab on Fiber Technology", Springer Verlag, pp. 233-250, 2014, ISBN 978-3-319-06998-2.

INVITED AND AWARDS

- First author of the work "Evanescent-Wave LPFG in D-Fiber by Periodically Patterned Overlay"; G. Quero, A. Crescitelli, D. Paladino, M. Consales, A. Buosciolo, M. Giordano ed A. Cusano; at EWOFS (European Workshop on Optical Fibre Sensors), 2010 (Porto – Portugal), award winner "EWOFS'2010 Student Paper Award" in the section: Chemical Environmental, Biochemical, and Medical Sensors.

- First author of the work "Reflection-type Long Period Grating Biosensor for the Detection of Drug Resistant Bacteria: The Optobacteria Project" at AISEM2015-Fondazione Bruno Kessler, award winner "Best Paper Award"

- Author of the work: A. Ricciardi, R. Severino, G. Quero, B. Carotenuto, M. Consales, A. Crescitelli, E. Esposito, M. Ruvo, A. Sandomenico, A. Borriello, M. Giordano, L. Sansone, C. Granata, A. Cutolo, A. Cusano "Lab-on-Fiber biosensing for cancer biomarker detection", invited to the XXIV International Conference OFS (Optical Fiber Sensors).

- The work titled "Miniaturized Sensing Probes Based on Metallic Dielectric Crystals Self-assembled on Optical Fiber Tips", ACS Photonics, vol. 1, no 10 pp.917-927, as author, after careful review was inducted into the prestigious virtual issue entitled "Probing the Fundamentals of Light-Matter Interactions".

"Your article is an outstanding example of new and emerging light-based spectroscopic and characterization methods" cit..

- Author of the work: M. Pisco, F. Galeotti, G. Quero, G. Grisci, A. Micco, L. Mercaldo, P. Delli Veneri, A. Cusano "Nanosphere lithography for all fiber SERS probes", invited to the Workshop on Optical Technology for Sensing Applications in the Asian Photonics Conference, APC 2016.

- Author of the work: G. Quero, G. Zito, S. Managò, F. Galeotti, M. Pisco, A. C. De Luca, A. Cusano "Nanosphere Lithography on Fiber: Towards Engineered Lab-On-Fiber SERS Optrodes", Sensors, Vol. 18, Issue 3, 680, 2018. (invited paper).

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base all'art. 13 del D. Lgs. 196/2003 e all'art. 13 del Regolamento UE 2016/679 relativo alla protezione delle persone fisiche con riguardo al trattamento dei dati personali.