

CURRICULUM SCIENTIFICO E DIDATTICO:

PROF. ANDREA CUSANO

AFFILIAZIONI: Università degli Studi del Sannio

Dipartimento di Ingegneria

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- **CURRICULUM VITAE**

Andrea Cusano si laurea con lode in Ingegneria Elettronica presso l'Università degli Studi di Napoli 'Federico II' **Il 27 Novembre del 1998**

Nel 1999 inizia il dottorato di ricerca in 'Optoelettronica' presso il dipartimento di Ingegneria Elettronica e delle Telecomunicazioni dell'Università di Napoli 'Federico II' seguito dal Prof. Antonello Cutolo. Discute nel Febbraio del 2003 una tesi dal titolo 'Optoelectronic Sensors for Smart Materials and Structures'. Durante gli studi del dottorato frequenta diverse scuole di specializzazione in elettronica ed optoelettronica, tenute in giro per il mondo da esperti provenienti dall'ambito della ricerca e dell'industria. Nel 2001 è coinvolto nel comitato tecnico organizzatore del Workshop 'Multifunction Sensors for Aerospace' tenuto presso il Centro Italiano di Ricerca Aerospaziale (CIRA).

Nel Febbraio del 2002, durante il suo corso di dottorato, è ingaggiato come Assistente di Ricerca nel Dipartimento di Ingegneria dell'Università degli Studi del Sannio in Benevento, per assistere il Prof. Cutolo nella creazione della divisione di Optoelettronica nella stessa Università. Il 31 Marzo 2002, comincia la sua attività di ricerca presso l'Università del Sannio, lavorando al progetto dal titolo 'Periodic fiber optic structures for sensing and telecommunications'. Dal Settembre del 2002, è in carica come Professore per i corsi di Elettronica Digitale e Elettronica per l'Automazione per il corso di Laurea in Ingegneria Informatica dell'Università del Sannio.

Nel Dicembre del 2002 risulta vincitore di un concorso nazionale per una posizione di Ricercatore Permanente presso il Dipartimento di Ingegneria dell'Università del Sannio. Il 30 Dicembre del 2002 prende servizio come Ricercatore Permanente all'Università del Sannio.

Nel 2004 è nominato docente per il corso di Specializzazione "Sensors for Smart Applications" (54 ore) nell'ambito del Master di alto livello tenutosi presso il CIRA. Nel 2004 è anche responsabile dell'attività di formazione dei partecipanti al Master 'SMART' svolta presso la Divisione di Optoelettronica del Dipartimento di Ingegneria dell'Università del Sannio.

Nel 2004 è nominato consulente del gruppo di Automatica della 'Seconda Università di Napoli' nell'ambito del progetto europeo 'Mesema', per quanto concerne l'attività di progetto e testing di un sistema sensoristico in fibra ottica basato su reticoli di Bragg per attuatori magnetostrittivi intelligenti.

Durante gli anni 2003-2006 è coordinatore dell'Unità di Benevento nell'ambito del progetto di ricerca 'SMART' finanziato dal CIRA. Negli anni 2003-2004 collabora intensamente col Prof. Cutolo per il coordinamento dell'Unità dell'Università del Sannio all'interno del progetto COFIN 2003, dal titolo 'Sistemi Optoelettronici in Fibra Ottica per Monitoraggio Strutturale'.

Nel 2005, è nominato Consulente Scientifico del Consorzio di Ricerche di Benevento composto da diverse Università, centri di ricerca ed industrie. Negli anni 2004-2006 collabora col Prof. Cutolo per il coordinamento del progetto nazionale COFIN 2005 dal titolo 'Sensori e attuatori intelligenti mediante l'integrazione della tecnologia a fibre ottiche e materiali'.

Il 15 Dicembre del 2005 vince il concorso nazionale per Professore Associato (area scientifica ING-ING/01), è stato chiamato dal consiglio di Facoltà in qualità di professore di seconda fascia e prenderà servizio in tale ruolo dal **1 Novembre 2007**.

Nel 2006 è nominato Consulente Scientifico per i corsi di Scienze Ambientali rivolti a studenti dei corsi di dottorato di ricerca organizzati dall'Agenzia Regionale per l'Ambiente. Nel 2006 è invitato a tenere un seminario di Optoelettronica dal titolo 'Sensori basati su reticoli di Bragg in fibra ottica: verso trasduttori avanzati in fibra' presso la Scuola Nazionale di Dottorato e svoltasi nell'ambito del meeting nazionale del Gruppo di Elettronica (GE).

E' co-fondatore nel **2005** della società di spin-off '**OptoSmart S.r.l.**', (www.optosmart.com) che concentra la propria attività nello sviluppo di dispositivi e sistemi in fibra ottica per il monitoraggio strutturale ed ambientale e che lavora in regime di esclusività in ambito ferroviario con Ansaldo e in ambito della fisica dell'alta energia con il CERN di Ginevra.

Con la stessa società, nel **2007**, è ancora una volta co-fondatore di una nuova società di spin-off dell'Università del Sannio, la 'MDTech', che si occupa del progetto di sistemi ottici per applicazioni biomediche.

Agli inizi del 2007, è ingaggiato dal CIRA per partecipare al progetto militare europeo 'Ahmos II' per studiare un sistema di sensori in fibra ottica per il monitoraggio strutturale di velivoli.

Nel 2010 viene nominato Presidente degli Esami di stato per Ingegneri presso l'Università degli Studi del Sannio

Nel 2012 è cofondatore di una nuova spin off company **OPTOADVANCE S.r.l.** (www.optoadvance.com) cofinanziata da un progetto regionale della Regione Molise che ha come core business lo sviluppo di sensori optoelettronici innovativi per applicazioni legate alla riproduzione fedele del suono e allo sviluppo di nuove piattaforme tecnologiche per biosensori in applicazioni biotecnologiche.

Nel 2012 ha conseguito l'abilitazione scientifica nazionale alle funzioni di professore di prima fascia nel settore concorsuale 09/E3 Elettronica (tornata 2012).

Dal 2011 al 2014 viene nominato Delegato del Rettore per tutti gli aspetti relative ad azioni di supporto per studenti diversamente abili dell'Università degli Studi del Sannio

Dal 2015 al 2024 è membro del collegio dei docenti del corso di dottorato in "**TECNOLOGIE DELL'INFORMAZIONE PER L'INGEGNERIA**" dell'Università degli studi del Sannio.

Nel 2015 viene nominato **Direttore Tecnico** dell'Aggregazione Pubblico Privata "Tecnologie Optoelettroniche per l'Industria (Top-in)" (Bando MIUR del 2009 per la creazione di Distretti e Laboratori Pubblico Privati)

Dal 2016 ad oggi è **Presidente delle Commissioni Qualità e Programmazione del Corso di Studi in ingegneria Elettronica per l'Automazione e le Telecomunicazioni** dell'Università degli Studi del Sannio.

Nel 2017 è cofondatore di un nuovo spin off dell'Università degli Studi del Sannio **Mantid Srl** (<http://www.mantid.it/index.php>) che opera nella progettazione e realizzazione di antenne custom ad alta frequenza, di sistemi di localizzazione e tracking di oggetti in real-time tramite tecnologie di identificazione a radiofrequenza (RFID), radar fmcw, radar UWB e dispositivi ad onde millimetriche. Mantid SRL, grazie all'ausilio dei più moderni software di simulazione full-

wave in ambiente 3D, è in grado di fornire consulenze e supporto nello studio della propagazione di onde elettromagnetiche, in sistemi RFID, internet delle cose (IoT), superfici schermanti o selettive in frequenza, sensori wireless, transponders, dispositivi a microonde. La società è in grado di accompagnare il cliente dall'identificazione del problema elettromagnetico all'ideazione della soluzione per poi procedere alla simulazione del sistema proposto, all'ottimizzazione in ambiente virtuale e realizzazione del prototipo con macchine a controllo numerico ad alta precisione e stampa 3D

Nel 2018 è co-fondatore dello spin off dell'Università degli studi del Sannio, **OFTEN MEDICAL SRL** (2018, <http://www.often-medical.com/it/>), che opera nel campo dei dispositivi medicali e in particolare sviluppa aghi intelligenti innovativi per applicazioni medicali. Tale spin off nel 2018 risulta vincitore in un bando start up della Regione Campania per un progetto innovativo del valore di 500KEuro, e nel 2019 chiude un accordo di joint venture con il fondo di investimento **Vertis**.

Nel 2018 viene nominato **Direttore Tecnico** dell'Infrastruttura di Ricerca Regionale "**Centro di Nanofotonica e Optoelettronica per la Salute dell'uomo- CNOS**" POR CAMPANIA FESR 2014/2020, "Manifestazione di Interesse per la Realizzazione di Progetti di Sviluppo/Potenziamento di Infrastrutture di Ricerca Strategiche Regionali per la Lotta alle Patologie Oncologiche" Soggetto Proponente: Centro Regionale Information Communication Technology - CeRICT Srl Importo Progetto: € 14.085.900,00 Quota CeRICT: € 13.489.200,00

E' inoltre consulente di ricerca di grandi aziende del gruppo Finmeccanica (oggi Leonardo) come:

Ansaldo STS e Alenia Wass con riferimento allo sviluppo di tecniche innovative di monitoraggio di interesse ferroviario e navale, rispettivamente.

Collabora inoltre con il **Cern di Ginevra** di cui è membro per lo sviluppo di sensori innovativi per le applicazioni di fisica dell'alta energia ed ha ricevuto nell'anno 2011/2012 un incarico di ricerca per lo sviluppo di nuovi sensori di umidità adatti a lavorare in ambienti caratterizzati da altissimi livelli di radiazioni ionizzanti.

Nel 2019, viene eletto **Presidente del Consiglio Unico del Corso di Laurea e Laurea Magistrale** in Ingegneria Elettronica, ricopre questa ruolo per due mandati: 2019-2022 e 2022-2025, durante questi due mandati contribuisce in maniera rilevante alla modifica di ordinamento che porta alla nascita del Corso di Laurea in Ingegneria Elettronica e Biomedica e del primo Corso di laurea Magistrale in internazionale, Electronics Engineering for Automation and Sensing .

Nel 2019, viene delegato dal Rettore, Prof. Canfora, come membro delle **Commissioni Brevetti e Spiun-off** delle'Ateneo sannita, ruolo che ricoprirà fino a novembre 2025, contribuisce alla stesura dei regolamenti di Ateneo in materia di brevetti e attivazione e monitoraggio degli spin-off accademici.

Nel 2020, Andrea Cusano è uno dei principali **co-founder di una nuova Start-up (Biotag)** per lo sviluppo di nuovi strumenti per la conservazione e l'indiizzamento automatico di campioni di biopsia tessutale basati su Tecnologia NFC e sistemi elettronici avanzati

Dal 2020, Andrea Cusano viene incluso nella lista del **2% dei ricercatori più citati al mondo** sulla base degli studi bibliometrici condotti dalla Stanford University che analizza l'impatto e la distribuzione di pubblicazioni scientifiche all'interno della comunità accademica.

Nel 2020, Andrea Cusano viene nominato dal Rettore dell'Università degli Studi del Sannio come **membro del Consiglio di Amministrazione del CeRICT** (Centro Regionale di Competenza per l'ICT).

Nel 2021 viene nominato **Membro del Consiglio Scientifico della Società di Medicina Rigenerativa (SIMCRI)**

Nel 2021, viene delegato dal Rettore dell'Università degli Studi del Sannio come **membro del Comitato Promotore per l'attivazione del nuovo Corsi Laurea Magistrale Interateneo in Ingegneria Biomedica**, contribuendo alla sua nascita e al suo consolidamento.

Nel 2023, viene delegato dal Rettore dell'Università del Sannio come **Vice Presidente del CERICT** con delega specifica alla Infrastruttura di ricerca Regionale CNOS (Centro di ricerca in Optoelettronica e Nanofotonica per la salute dell'uomo).

Nel 2025, viene eletto membro del **Consiglio di Presidenza della Società Italiana di Ottica e Fotonica**.

Per la sua eccellente attività di ricerca è stato segnalato e riconosciuto da: TG3, Il Mattino, Il Roma, il Sannio, Panorama, la Repubblica.

TGR Buongiorno Regione del 09/11/2018 [dal minuto 12:40 al minuto 17:40]

https://www.dropbox.com/s/w7inon3kducustr/Buongiorno%20Regione%20Campania_09_11_2018.mp4?dl=0

TGR_Mezzogiorno_Italia del 29/04/2017

https://www.dropbox.com/s/sfn7wsozw96wnl6/estratto_TGR_Mezzogiorno_Italia_29_04_2017.wmv?dl=0

TGR Buongiorno Regione del 22/04/2014

https://www.dropbox.com/s/mk3ernw1re9ujq8/TGR_Buongiorno_Regione_20140422_0749.ts?dl=0

Sintesi dei Risultati ottenuti durante la sua carriera all'Università degli Studi del Sannio:

Dal 1999 la sua attività di ricerca è stata incentrata sulla progettazione e realizzazione di sistemi innovativi di sensori in fibra ottica per applicazioni industriali e medicali.

La produzione scientifica del Prof. Andrea Cusano è dimostrata da:

- più di **500** articoli pubblicati su **importanti riviste scientifiche internazionali e partecipazioni a conferenze nazionali ed internazionali,**
- **25 capitoli di libro** su invito in prestigiosi libri internazionali e di riconosciuto prestigio.
- **50 Relazioni su invito** nelle maggiori conferenze di settore sia in ambito nazionale che internazionale, **pubblicazioni su invito** su prestigiose riviste internazionali, **presentazioni su invito** nell'ambito di prestigiose scuole di dottorato del settore.
- **5 libri internazionali** di assoluto prestigio con publishers accademici di riconosciuta fama
- **8 special issues** nell'ambito dei sensori in fibra ottica pubblicati da prestigiose riviste internazionali
- **30 brevetti** (tra nazionali e internazionali) molti di questi licenziati ad importanti realtà private per lo sfruttamento industriale.
- H index: 54
- 10666 Citazioni
- **Progetti di ricerca nazionali e internazionali** finanziati per un importo complessivo superiore ai **30Meuro**
 - **Co-fondatore 5 Spin off accedimici:** Optosmart (2005-), Optoadvance (2011-), Mantid (2017-), Often Medical (2018-), BioTag (2020-)

ATTIVITA' DI RICERCA

- Direzione e Partecipazioni a Comitati Editoriali

Dal 2011 al 2020 è stato **Editor in Chief** della rivista internazionale del gruppo Elsevier:

“Journal of Optics Laser and Technology” (<http://ees.elsevier.com/jolt/>)

Dal 2020 a tutt'oggi è **-Editor in Chief of “Results in Optics”**
(<https://www.journals.elsevier.com/results-in-optics/>)

È membro dell'**Editorial Board** di importanti riviste internazionali:

- **IEEE/OSA Journal of Lightwave Technology** (<https://ieee-jlt.org/>)

- **Photonic Sensors (Springer Verlag)**

www.springer.com/physics/optics+%26+lasers/journal/13320

- **Sensors Mdpi** (<https://www.mdpi.com/journal/sensors>)

- **Biosensors Mdpi**

È membro del **Technical Committee** di diverse prestigiose conferenze internazionali:

- **IEEE Sensors Conference**

- **International Conference on Sensing Technology**

- **European Workshop on Structural Health Monitoring**

- **European Workshop on Optical Fibre Sensors**

- **Asian Pacific Optical Sensors Conference**

- **Applications of Optics and Photonics**

- **Bragg Gratings, Photosensitivity, and Poling**

- **Photooptics**

- **International conference on Optical fiber Sensors**

Il Prof. Andrea Cusano è stato nominato dalla Commissione Europea in qualità di **Remote Expert** per le seguenti Call:

- **FET OPEN RIA CALL 2015/2.**

- **MSCA-IF-2017**

- **MSCA-IF-2019**

Il Prof. Andrea Cusano è stato nominato dalla Commissione Europea in qualità di **Vice-Chair** per le seguenti Call:

- **H2020 FET OPEN Call 1 2016-2017 Cut-off 17/01/2017**

- **H2020 FET OPEN Call 1 2016-2017 Cut-off 27/09/2017**

- **H2020 FET OPEN Call 01-2018-2019-2020 Cut-off 24/01/2019**

È inoltre revisore di diverse riviste scientifiche internazionali come:

- IEEE Phot. Tech. Letters, IEEE J. of Lightwave Tech., IEEE Sensors J., Opt. Eng., IEEE Trans. on Ultrasonics, Ferroel. and Freq. Control, Sens. and Act. A and B, Opt. Exp., Opt. comm., Sensors, Optics Letters, IEEE Sensors, Applied Physics letters, Small, Journal of Sensors, Measurements Science and Technology, Biosensors and Bioelectronics, J. of Applied Physics, Analyt. Chem, Nanotechnology, ACS Photonics, Advanced Materials, Light Science and Applications (Nature group), Scientific Reports (Nature Group), ACS Nano, Advanced Functional Materials, Advanced Optical Materials., Nature Communications

- Capacità Organizzative

Il Professore Cusano è molto attivo nell'organizzazione di Conferenze internazionali e di Special Session nell'ambito di Convegni Scientifici Internazionali

- **Nel 2007** il Prof. Andrea Cusano è stato General co-chair per la terza edizione del Workshop Europeo sui sensori in fibra ottica:

EWOFS 2007 "Third European Workshop on Optical fiber Sensors" 4-7 Luglio 2007 Napoli

- **Nel 2014** il Prof. Andrea Cusano è stato General co-chair per la terza edizione del Mediterranean Photonics Conference:

"Third Mediterranean Photonics Conference" – Trani 7-9 Maggio 2014

- **Nel 2017** il Prof. Andrea Cusano ha curato l'organizzazione di una "Special Session" nell'ambito della conferenza internazionale "CLEO-PR, OECC and PGC" 2017

Special session: "Lab on Fiber Technology" 31 July - 4 August 2017 Singapore

- **Nel 2019** il Prof. Andrea Cusano ha curato l'organizzazione di una "Special Session" nell'ambito della conferenza internazionale PIERS 2019 a Roma:

Session 4P13 SC3: Photonic Sensing in Health Science and Environmental Monitoring

- **Nel 2024** il Prof. Andrea Cusano è stato co-chair di una "Special Session" focused on "Optical Fiber Technology" within the international conference EOSAM July 2024 in Napoli

Brevetti Nazionali E Internazionali

- [1] 2004: A. Cusano et al., "Un nuovo dispositivo per realizzare filtri accordabili elettricamente per applicazioni alle telecomunicazioni su portante ottica, alla modulazione ed alla sensoristica," PatentNumber: ITBN2004A1.
- [2] 2006: A. Cusano et al., "Sistema di trasmissione in fibra ottica per il monitoraggio dei parametri ed il miglioramento della sicurezza di una linea ferroviaria," PatentNumber: ITBN2006A4.
- [3] 2006: A. Cusano et al., "Sistema di lettura multipunto di sensori in fibra ottica basati sull'uso di reticoli di Bragg," PatentNumber: ITBN2006A5.
- [4] 2006: A. Cusano et al., "Cannula sensorizzata con fibra ottica e con eccitatore ottico di ultrasuoni per applicazioni alla diagnostica clinica ipodermica in vivo, al monitoraggio strutturale, al monitoraggio ambientale e strutturale, alle prospezioni geologiche, geofisiche, marine, sottomarine e terrestri," PatentNumber: ITBN2006A6.
- [5] 2006: A. Cusano et al., "Optical fiber sensors based on carbon nanotubes for hydrogen detection at cryogenic temperatures," Patent Number: ITRM2006A192.
- [6] 2006: M. Penza et al., "Sensore in fibra ottica basato su strati sottili Langmuir-Blodgett di nanotubi di carbonio a singola parete, in particolare per la rivelazione di idrogeno gassoso a temperature criogeniche, e relativo dispositivo di rivelazione", PatentNumber: RM2006A000192.
- [7] 2008: A. Cusano et al., "Procedimento per l'allineamento di nano particelle metalliche o semiconduttrici disperse in matrici dielettriche," PatentNumber: ITTO2008A316.
- [8] 2008: A. Cusano et al., "Feedthrough per fibre ottiche per recipienti ad alta pressione," PatentNumber: ITBN2008A6.
- [9] 2006: A. Cusano et al., "Optoelectronic sensor for detecting fluid-transmitted sound waves," EP20060115184 20060608, n°: EP1731886
- [10] 2007: A. Cusano et al., "System for real-time monitoring of the state of occupation of railway lines," EP20070113574 20070731, n° EP1902923
- [11] 2010: A. Cusano et al., "Reproduction of Sound of Musical Instruments by using Fiber Optic Sensors", PCT/IT2010/000094, n°: WO2010106563
- [12] 2012: A.Cusano et al., "Macchina per la deposizione controllata su fibre ottiche di materiali in fase liquida, polimerici, non polimerici, fotosensibili e non, anche in soluzione", CS2012A000003.
- [13] 2012: A.Cusano et al., "Una nuova configurazione per aumentare l'efficienza globale dei sistemi fotovoltaici e termici", Depositato il 16 marzo 2012, Numero Domanda: protnum 4641.
- [14] 2014 A. Cusano et al., "Sistema ottico di analisi multiparametrica per guidare l'inserzione di aghi per uso medicale in tessuti biologici ", Depositato il 18 Aprile 2014, Num. domanda: BN2014A000002.
- [15] 2014 A. Cusano et al., "Sensori in fibra ottica integrati in aghi impiegati per l'ablazione percutanea, la necrotizzazione e in terapie varie", Depositato il 11 Giugno 2014, Num. domanda: BN2014U000005. N° Brevetto/marchio 282183. Data Registrazione 26/09/2016

- [16] 2014 A Cusano et al, "Dispositivo per separare soluti da solventi attraverso il cambio di fase a fini depurativi delle acque energeticamente autonomo integrato con pannelli fotovoltaici.", Depositato il 30 Aprile 2014, Num domanda: BN2014U000004
- [17] 2015 A. Cusano et al, "Sistema per guidare dispositivi medici", Depositato il 16 Ottobre 2015, Num. Domanda: 102015000062613
- [18] 2016, A. Cusano et al. "Dispositivo per il rilascio controllato di molecole indotto da luce mediante fibra ottica", Depositato il 2 Maggio 2016, Num. Domanda:102016000043206
- [19] A. Cusano et al. "Metodo e sistema di determinazione di caratteristiche di pellicole radio-cromiche in tempo reale", depositato il 9 Gennaio 2018, Num. Domanda: 102018000000652
- [20] 2017 Andrea Cusano et al, Fiber optic and Device for Releasing Molecules: PCT / IB2017052533 02/05/2017
- [21] 2015 Amorizzo E, Cusano A, Cutolo A, Mercieri M, Micco A, Ricciardi A (2015). Guiding system for the insertion of a medical needle. registration number: WO2017064682A1; application number: PCT/IB2016/056212
- [22] 2019 Andrea Cusano et al., Method and system for real-time determination of characteristics of radio-chromic films, N. PCT/IB2019/050098, del 07/01/2019.
- [23] 2019 Andrea Cusano et al., Ago o catetere provvisto di una pluralità di fibre ottiche, Num. domanda: 102019000005362, del 08/04/2019
- [24] 2022 Andrea Cusano et al., "Optoelectronic probe for the analysis of tissues arranged inside the human body", Rif. 868/21 - E9257/22 [PA084686WO01]; Domanda numero: PCT/IT2022/000012, Data di deposito: 24 febbraio 2022
- [25] A. Cusano et al, "Apparatus for coupling light into an optical fiber" in collaboration with University of Stuttgart (Germany) - PCT-Application No. PCT/EP2021/062291
- [26] 2020 C. Cafiero, L. Califano, A. Cusano, A. Cutolo, M.A. Cutolo, M. Giaquinto, "Sistema innovativo di controllo in linea per trapani per forature ossee e di tessuti duri" Num. domanda: 102020000003494, del 20/02/2020
- [27] 2022 Andrea Cusano, Antonello Cutolo, Martino Giaquinto, Patrizio Vaiano, Carmen Miano, Martina Profeta, Donatella Vecchione, "Device for inducing cell permeability in a portion of tissue by opto-poration", Application PCT/IT2022/000012 (WO2023161966A1) (depositata il 24 Febbraio 2022)
- [28] 2023 Donato Madaro, Nicolino Cardone, Marco Consales, Andrea Cusano, Fernando Capone, Gino Mazza, Eugenio Zimeo, "Sistema Integrato Hardware-Software e Metodo per l'Identificazione Massiva e a Bordo Automezzo di Sacchi per la Raccolta dei Rifiuti", Num. Domanda: 102023000012207, del 14/06/2023
- [29] 2023 A. Cusano, A. Cutolo, M.A. Cutolo, F.A. Bruno, A. Iele, Titolo: Codici a barre e QRcodes per un sensore wireless a basso costo per monitoraggio strutturale, medico e ambientale, Numero 102020000003479, Ministero dello Sviluppo Economico - Ufficio Italiano Brevetti e Marchi
- [30] 2023 A. Cusano, A. Cutolo, G. Breglio, M.A. Cutolo, F.A. Bruno, A. Iele, Titolo: Porte, infissi ed elementi strutturali intelligenti con una nuova tipologia di sensore integrabile in IOT, Numero 102023000027723, Ufficio Italiano Brevetti e Marchi,

- **Editore Di Libri E Monografie**

- [1] “Fiber Bragg Grating Sensors: Recent Advancements, Industrial Applications and Market Exploitation”

Editors: A. Cusano, A. Cutolo, J. Albert

Bentham e-book, eISBN: 978-1-60805-084-0, 2011.

- [2] “Photonic Bandgap Structures. Novel Technological Platforms for Physical, Chemical and Biological Sensing”

Editors: M. Pisco, A. Cusano, A. Cutolo

eISBN: 978-1-60805-448-0 - ISBN: 978-1-60805-507-4

Bentham e-book, 2012, 233p

<http://www.benthamscience.com/ebooks/contents.php?JCode=9781608054480>

- [3] “Selected Topics on Metamaterials and Photonic Crystals”,

Edited by A. Andreone, A. Cusano, V. Galdi, and A. Cutolo,

World Scientific Pub Co Inc (9 giugno 2011) ISBN-10: 9814355186; ISBN-13: 978-9814355186

- [4] “Optochemical Nanosensors”,

Edited by A. Cusano, F. Arregui, M. Giordano, A. Cutolo,

Taylor&Francis November 2012, ISBN: 1439854890.

- [5] “Lab on Fiber Technology”,

Edited by A. Cusano, M. Consales, A. Crescitelli, A. Ricciardi

Springer Verlag, 2014, ISBN 978-3-319-06998-2.

- **Invited Lectures Scuole Di Dottorato/Formazione**

- [1] “Down-scaled Technology for “Lab on a Fiber”:A New Avenue for Advanced Photonic Devices and Components”

International School of Physics and Technology of Matter, Otranto (Italy) 15-20 September 2014.

- [2] “Sensori in fibra ottica a reticoli di Bragg”,

NATIONAL Ph.D STUDENT SCHOOL, GRUPPO DI ELETTRONICA 2006 BENEVENTO.

- [3] “Fiber Optic Sensors for Industrial Applications: Perspectives, Challenges and New Trends”

2013 Summer School of Information Engineering, Sensors and sensors networks Bressanone (BZ), Italy June 30 – July 6, 2013.

[4] “Lab-on-fiber for chemical and biochemical sensing”

Seconda Scuola Nazionale Biosensori Ottici e Biofotonica - Otranto, 15-20 Settembre 2014

[5] Keyinote Lect 1 "Lab on Fibre Technology: Perspectives and Challenges" **2nd Edition: IEEE Sensors Council Summer School "Optical Fibre Sensors" University of Limerick, Ireland from the 26th – 30th June 2017.**

[6] “Lab-on-fiber for precision medicine”

Seconda Scuola Nazionale Biosensori Ottici e Biofotonica - Otranto, 15-20 Settembre 2021

[7] “Lab on Fiber Technology: towards in vivo liquid biopsy and tissue biopsy”

Master in “PERCORSI TECNOLOGICI E DIAGNOSTICI IN PATOLOGIA CLINICA: DAL BIOSENSORE AL BIOMARCATORE” - session” MEDICINA DI LABORATORIO NEI PERCORSI CLINICO ASSISTENZIALI: ASPETTI TECNOLOGICI ED ORGANIZZATIVI” Università di Napoli Federico II, 9 Febbraio 2023

[8] “Lab on fiber Technology: Towards Theranostics Tools”

Terza Scuola Nazionale Biosensori Ottici e Biofotonica - Otranto, 15-20 Settembre 2023

[9] “Fotobiomodulazione e medicina rigenerativa: sfide e prospettive”

V SIMCRI school “V corso teorico-pratico in medicina rigenerativa: ozonoterapia-PRP” -Caserta, 1-2 Dicembre 2023

[10] “Lab on Fiber Technology: towards in vivo liquid biopsy and tissue biopsy”

Master in “PERCORSI TECNOLOGICI E DIAGNOSTICI IN PATOLOGIA CLINICA: DAL BIOSENSORE AL BIOMARCATORE” - session” MEDICINA DI LABORATORIO NEI PERCORSI CLINICO ASSISTENZIALI: ASPETTI TECNOLOGICI ED ORGANIZZATIVI” Università di Napoli Federico II, 29 Febbraio 2023

[11] “Fotobiomodulation: light for cartilage regeneration”

“Orthobiologics in the knee OA: are they a real standard of care?”- San Giovanni Rotondo (FG), 13-14 Settembre 2024

[12] “La fotonica al servizio della medicina rigenerativa: prospettive e sfide da affrontare”

VI SIMCRI school “Medicina Rigenerativa nel nostro ambulatorio: possibilità e limiti” -Caserta, 6-7 Dicembre 2024

[13] “Applicazioni tecnologiche nella ricerca clinica”

Master in Conduzione di Trial Clinici, Università di Napoli Federico II, Maggio 2025

- Ha coordinato numerosi progetti di ricerca a valere su bandi competitivi Regionali, Nazionali e Internazionali [ANNEX I](#)
- Ha la Responsabilità Scientifica di numerosi Contratti di Ricerca /Convenzioni/ Trasferimento tecnologico: [ANNEX II](#)
- Ha ricevuto numerosi Premi E Riconoscimenti Nazionali E Internazionali: [ANNEX III](#)
- Lista Pubblicazioni Su Riviste Internazionali: [ANNEX IV](#)
- Lista Pubblicazioni In Atti Di Congressi Nazionali ed Internazionali: [ANNEX V](#)
- Lista Captoli libri & Special Issues: [ANNEX VI](#)
- Presentazioni “Invited” In Congressi Nazionali Ed Internazionali: [ANNEX VII](#)

ATTIVITÀ DIDATTICA, DI DIDATTICA INTEGRATIVA E DI SERVIZIO AGLI STUDENTI

- Attività didattica

Dal **2003**, il Professore Andrea Cusano è impegnato in un'intensa attività didattica, ricoprendo per **TITOLARITA'** svariati corsi nell'ambito del Settore Scientifico Disciplinare "Elettronica" (**ING/INF01**) sia per il Corso di Laurea di Ingegneria Informatica che per quello di Ingegneria Elettronica per l'Automazione e le Telecomunicazioni presso l'Università degli Studi del Sannio:

anno accademico 2003/2004

- ELETTRONICA DIGITALE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Informatica;
- ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 4 CFU, Corso di Laurea in Ingegneria Informatica;

anno accademico 2004/2005

- ELETTRONICA DIGITALE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Informatica, mutuato con Corso di Laurea Specialistica in Ingegneria delle Telecomunicazioni;
- ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 4 CFU, Corso di Laurea in Ingegneria Informatica;

anno accademico 2005/2006

- ELETTRONICA DIGITALE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Informatica, mutuato con Corso di Laurea Specialistica in Ingegneria delle Telecomunicazioni;
- ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 4 CFU, Corso di Laurea in Ingegneria Informatica;

anno accademico 2006/2007

- ELETTRONICA DIGITALE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Informatica, mutuato con Corso di Laurea Specialistica in Ingegneria delle Telecomunicazioni;
- ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 4 CFU, Corso di Laurea in Ingegneria Informatica;

anno accademico 2007/2008

- ELETTRONICA DIGITALE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Informatica, mutuato con Corso di Laurea Specialistica in Ingegneria delle Telecomunicazioni;
- ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 4 CFU, Corso di Laurea in Ingegneria Informatica;
- ELETTRONICA ANALOGICA, SSD ING-INF/01, 8 CFU, Corso di Laurea in Ingegneria Informatica;

anno accademico 2008/2009

- ELETTRONICA DIGITALE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Informatica, mutuato con Corso di Laurea Specialistica in Ingegneria delle Telecomunicazioni;
- ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 4 CFU, Corso di Laurea in Ingegneria Informatica;
- ELETTRONICA ANALOGICA, SSD ING-INF/01, 8 CFU, Corso di Laurea in Ingegneria Informatica;

anno accademico 2009/2010

- ELETTRONICA DIGITALE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Informatica, mutuato con Corso di Laurea Specialistica in Ingegneria delle Telecomunicazioni;
- ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 4 CFU, Corso di Laurea in Ingegneria Informatica;
- ELETTRONICA ANALOGICA, SSD ING-INF/01, 8 CFU, Corso di Laurea in Ingegneria Informatica;

anno accademico 2010/2011

- ELETTRONICA DIGITALE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Informatica, mutuato con Corso di Laurea Specialistica in Ingegneria delle Telecomunicazioni;
- ELETTRONICA ANALOGICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

anno accademico 2011/2012

- ELETTRONICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Informatica;
- ELETTRONICA ANALOGICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

anno accademico 2012/2013

- Elettronica, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Informatica;
- ELETTRONICA ANALOGICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

anno accademico 2013/2014

- ELETTRONICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Informatica;
- ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

anno accademico 2014/2015

- ELETTRONICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Informatica;
- ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

anno accademico 2015/2016

- ELETTRONICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Informatica;
- ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

anno accademico 2016/2017

- Elettronica, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Informatica;
- ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

anno accademico 2017/2018

- ELETTRONICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Informatica;
- LABORATORIO DI ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

anno accademico 2018/2019

- ELETTRONICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Informatica;
- LABORATORIO DI ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

anno accademico 2019/2020

- ELETTRONICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Informatica;
- LABORATORIO DI ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

anno accademico 2020/2021

- ELETTRONICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Informatica;
- LABORATORIO DI ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

anno accademico 2021/2022

- ELETTRONICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Informatica;
- LABORATORIO DI ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

anno accademico 2022/2023

- ELETTRONICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Informatica;
- LABORATORIO DI ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

anno accademico 2023/2024

- ELETTRONICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Informatica;
- LABORATORIO DI ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

anno accademico 2024/2025

- ELETTRONICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Informatica;
- ELETTRONICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Elettronica e biomedica;

ATTIVITÀ DIDATTICA INTEGRATIVA E DI SERVIZIO AGLI STUDENTI

Attività di Tutoraggio per Studenti di Dottorato

Dal 2002, il Professore Andrea Cusano è stato **supervisor o co-supervisor** di **34** studenti di Dottorato nel campo della ricerca di sensori in fibra ottica per applicazioni industriali e biomedicali:

Agostino Iadicicco (Attualmente Prof. Ass. Università Parthenope) 2003-2006

Patrizio Capoluongo (Attualmente Dirigente di Azienda operante nel campo ICT) 2003-2006

Marco Pisco (Attualmente Professore Associato presso l'Università degli Studi del Sannio) 2004-2007

Marco Consales (Attualmente Ricercatore presso l'Università degli Studi del Sannio) 2004-2007

Alessio Crescitelli (attualmente Ricercatore CNR-IMM Napoli) 2005-2008

Carmen Ambrosino (attualmente ricercatrice in Selex – Gruppo Leonardo) 2005-2008

Pierluigi Pilla (attualmente Dirigente di un'Azienda Internazionale di Elettronica) 2005-2008

Paola Delli Veneri (Attualmente ricercatrice Enea) 2005-2008

Domenico Palladino (Attualmente dipendente di un'azienda che opera nel campo dell'Automazione Industriale) 2005-2008

Pierluigi Foglia Manzillo (Attualmente dipendente di un'azienda olandese che opera nel campo dell'Optoelettronica) 2008-2011

Armando Ricciardi (Attualmente PA presso il dipartimento di Ingegneria dell'Università degli Studi del Sannio) 2007-2010

Giuseppe Lanza (Purtroppo deceduto qualche anno fa) 2008-2011

Massimo Moccia (Attualmente RTDA di Campi elettromagnetici dell'Università degli Studi del Sannio) 2008-2011

Giuseppe Quero (Attualmente RTDB presso l'Università degli Studi del Molise) 2008-2011

Francesco Bruno (Attualmente dipendente CeRICT) 2008-2011

Antonio Iele (Attualmente dipendente CeRICT) 2009-2012

Gaia Berruti (Attualmente Post-doc presso il gruppo di Optoelettronica dell'Università degli Studi del Sannio) 2010-2013

Antonella Chiuchiolo (Attualmente RTDA presso l'Università di Salerno) 2010-2013

Alberto Micco (Attualmente dipendente CeRICT) 2010-2013

Michele Scaravilli (Attualmente dipendente Siemens Germania) 2014-2017

Benito Carotenuto (Attualmente dipendente presso un'azienda che opera nel settore ICT) 2014-2017

Patrizio Vaiano (Attualmente Post-doc presso il gruppo di Optoelettronica dell'Università degli Studi del Sannio) 2014-2017

Martino Giaquinto (Attualmente RTT in bioingegneria presso l'Università degli Studi di Salerno) 2015-2018

Federica Gambino (Attualmente dipendente dell'Azienda "Elettronica" con sede a Roma) 2019-2022

Hiba al Halabi (Attualmente Post-doc presso il gruppo di Optoelettronica dell'Università degli Studi del Sannio) 2018-2023

Marco Leone (Attualmente dipendente in Leonardo sede di Roma) 2017-2024

Sofia Principe (Attualmente dipendente di azienda con sede in Benevento) 2017-2024

Tatiana Esposito (in corso)

Chiara Mulè (in corso)

Federica Piccirillo (Attualmente Post-doc presso il gruppo di Optoelettronica dell'Università degli Studi del Sannio) 2020-2024

Lorenzo Scherino (Attualmente ricercatore presso il TNO in Olanda) 2020-2024

Valeria Iazzetta (in corso)

Valentina De Vito (in corso)

Il livello delle attività di ricerca svolte dagli studenti di dottorato è testimoniata dai riconoscimenti ricevuti (premi nazionali e internazionali) nonché dall'elevatissimo livello di placement post dottorato (la maggior parte di loro occupa posti di rilievo sia in ambito accademico che industriale).

Tesi di Laurea e tirocini

Dal **2003** ad oggi, il Professore Andrea Cusano ha svolto attività di relatore e co-relatore per oltre **200 tesi di Laurea e di tirocinio** in Elettronica, Optoelettronica e Fotonica presso l'Università degli Studi del Sannio.

Attività di Tutoraggio per Studenti

Ogni anno, il Prof. Cusano svolge circa **60 ore** di attività di tutorato agli studenti e circa **70 ore** di esami di profitto

Docente dei seguenti Insegnamenti

Il Prof. Andrea Cusano ha presieduto le commissioni istituite per gli esami di profitto di cui è Titolare:

anno accademico 2003/2004

- ELETTRONICA DIGITALE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Informatica;
- ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 4 CFU, Corso di Laurea in Ingegneria Informatica;

anno accademico 2004/2005

- ELETTRONICA DIGITALE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Informatica,

- ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 4 CFU, Corso di Laurea in Ingegneria Informatica;

anno accademico 2005/2006

- ELETTRONICA DIGITALE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Informatica, ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 4 CFU, Corso di Laurea in Ingegneria Informatica;

anno accademico 2006/2007

- ELETTRONICA DIGITALE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Informatica,
- ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 4 CFU, Corso di Laurea in Ingegneria Informatica;

anno accademico 2007/2008

- ELETTRONICA DIGITALE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Informatica
- ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 4 CFU, Corso di Laurea in Ingegneria Informatica;
- ELETTRONICA ANALOGICA, SSD ING-INF/01, 8 CFU, Corso di Laurea in Ingegneria Informatica;

anno accademico 2008/2009

- ELETTRONICA DIGITALE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Informatica
- ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 4 CFU, Corso di Laurea in Ingegneria Informatica;
- ELETTRONICA ANALOGICA, SSD ING-INF/01, 8 CFU, Corso di Laurea in Ingegneria Informatica;

anno accademico 2009/2010

- ELETTRONICA DIGITALE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Informatica
- ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 4 CFU, Corso di Laurea in Ingegneria Informatica;
- ELETTRONICA ANALOGICA, SSD ING-INF/01, 8 CFU, Corso di Laurea in Ingegneria Informatica;

anno accademico 2010/2011

- ELETTRONICA DIGITALE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Informatica
- ELETTRONICA ANALOGICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

anno accademico 2011/2012

- ELETTRONICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Informatica;
- ELETTRONICA ANALOGICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

anno accademico 2012/2013

- Elettronica, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Informatica;
- ELETTRONICA ANALOGICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

anno accademico 2013/2014

- ELETTRONICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Informatica;
- ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

anno accademico 2014/2015

- ELETTRONICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Informatica;
- ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

anno accademico 2015/2016

- ELETTRONICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Informatica;
- ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

anno accademico 2016/2017

- ELETTRONICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Informatica;
- ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 6 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

anno accademico 2017/2018

- ELETTRONICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Informatica;
- LABORATORIO DI ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

anno accademico 2018/2019

- ELETTRONICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Informatica;
- LABORATORIO DI ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

anno accademico 2019/2020

- ELETTRONICA, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Informatica;
- LABORATORIO DI ELETTRONICA PER L'AUTOMAZIONE, SSD ING-INF/01, 9 CFU, Corso di Laurea in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni;

ATTIVITÀ GESTIONALI, ORGANIZZATIVE E DI SERVIZIO

- Dal **2009 al 2013** ha svolto il ruolo di **Delegato del Rettore** (Rettore Prof. Bencardino) per il monitoraggio e coordinamento delle attività di Ateneo in favore di studenti diversamente abili
In tale veste, nel 2010 è stato **co-ordinatore del Progetto del Servizio Civile Nazionale** "Socializziamo la Disabilità" che ha visto coinvolti 9 volontari del Servizio Civile Nazionale e 5 operatori Locali di Progetto.
- È preposto alla Sicurezza per i laboratori del Dipartimento di Ingegneria e per i locali di Palazzo Bosco
- Nel 2010 è stato incaricato come **Presidente della Commissione Esami di Stato** (Ingegneria) dell'Università degli Studi del Sannio
- E' membro del **Consiglio di Dipartimento e del Consiglio Unico del Corso di Laurea e Laurea Magistrale in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni** e come tale partecipa regolarmente alle adunanze dei suddetti Consigli.
- Dal **2017** è **Presidente della Commissione Qualità** del CDS unico in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni
- Dal **2017** è **Presidente della Commissione Programmazione** del CDS unico in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni
- Dal **2017** è membro del **Gruppo di Riesame** del CDS unico in Ingegneria Elettronica per l'Automazione e le Telecomunicazioni
- Dal **2015** ad oggi è membro del **Collegio dei Docenti del Corso di Dottorato** in "TECNOLOGIE DELL'INFORMAZIONE PER L'INGEGNERIA" dell'Università degli studi del Sannio.
- Nel triennio **2006-2009** è stato membro del **Collegio dei Docenti del Corso di Dottorato** in "**SALVAGUARDIA E GESTIONE DELLE RISORSE NATURALI PER UNO SVILUPPO SOSTENIBILE**"
Anno accademico di inizio: 2006 - Ciclo: XXII - Durata: 3 anni Ateneo proponente: Università degli Studi di Napoli Federico II
- Nel triennio **2007-2010** è stato membro del **Collegio dei Docenti del Corso di Dottorato** in "**SALVAGUARDIA E GESTIONE DELLE RISORSE NATURALI PER UNO SVILUPPO SOSTENIBILE**"
Anno accademico di inizio: 2007 - Ciclo: XXIII - Durata: 3 anni Ateneo proponente: Università degli Studi di Napoli Federico II
- Nel **2015** viene nominato **Direttore Tecnico dell'Aggregazione Pubblico Privata "Tecnologie Optoelettroniche per l'Industria (Top-in)"** (Bando MIUR del 2009 per la creazione di Distretti e Laboratori Pubblico Privati) che include i seguenti partner pubblici e privati: membri pubblici del consorzio sono: Università del Sannio, Università Partenope, Seconda Università di Napoli Consiglio Nazionale delle Ricerche (CNR) Istituto Nazionale di Geofisica e Vulcanologia (INGV), Consorzio CERICT sull'ICT, Consorzio IMAST sulle tecnologie dei materiali, Istituto di Ricerca sul Cancro Emilia Romagna, Ansaldo STS (Hitachi Group), Leonardo Finmeccanica Spa, Confindustria Emilia Romagna, Optosmart srl, Enviroconsult SRL, Migma Srl, HPSsystem Srl.
- Nel **2018** viene nominato **Direttore Tecnico dell'Infrastruttura di Ricerca Regionale "Centro di Nanofotonica e Optoelettronica per la Salute dell'uomo- CNOS"** POR CAMPANIA

FESR 2014/2020, "Manifestazione di Interesse per la Realizzazione di Progetti di Sviluppo/Potenziamento di Infrastrutture di Ricerca Strategiche Regionali per la Lotta alle Patologie Oncologiche" Soggetto Proponente: Centro Regionale Information Communication Technology - CeRICT Srl Importo Progetto: € 14.085.900,00 Quota CeRICT: € 13.489.200,00

- **Nel 2019**, viene eletto **Presidente del Consiglio Unico del Corso di Laurea e Laurea Magistrale in Ingegneria Elettronica**, ricopre questa ruolo per due mandati: 2019-2022 e 2022-2025, durante questi due mandati contribuisce in maniera rilevante alla modifica di ordinamento che porta alla nascita del Corso di Laurea in Ingegneria Elettronica e Biomedica e del primo Corso di laurea Magistrale in internazionale, Electronics Engineering for Automation and Sensing .

- **Nel 2019**, viene delegato dal Rettore, Prof. Canfora, come **membro delle Commissioni Brevetti e Spin-off** delle'Ateneo sannita, ruolo che ricoprirà fino a novembre 2025, contribuisce alla stesura dei regolamenti di Ateneo in materia di brevetti e attivazione e monitoraggio degli spin-off accademici.

- **Nel 2020**, Andrea Cusano viene nominato dal Rettore dell'Università degli Studi del Sannio come **membro del Consiglio di Amministrazione del CeRICT** (Centro Regionale d Competenza per l'ICT).

- **Nel 2021**, viene delegato dal Rettore dell'Università degli Studi del Sannio **come membro del Comitato Promotore per l'attivazione del nuovo Corsi Laurea Magistrale Interateneo in Ingegneria Biomedica**, contribuendo alla sua nascita e al suo consolidamento.

- **Nel 2023**, viene delegato dal Rettore dell'Università del Sannio come **Vice Presidente del CERICT con delega specifica alla Infrastruttura fi ricerca Regionale CNOS** (Centro di ricerca in Optoelettronica e Nanofotonica per la salute dell'uomo).

È stato più volte **Presidente di Commissioni di Dipartimento** per la selezione pubblica per il conferimento di borse di studio e assegni di ricerca per il SSD ING-INF/01

Autorizzo il trattamento dei dati personali secondo D.Lgs. 196/03.

Benevento, 02/09/2025

Prof. Andrea Cusano



ANNEXES

ANNEX I

LISTA PROGETTI NAZIONALI ED INTERNAZIONALI

[1] Progetto: “Rete di Telecomunicazioni Ibride integrate con rete Sensoristica georeferenziata (TISAT)” (POR 2006, Codice: STA566931)

Unità rappresentata: Università degli studi del Sannio

Ruolo: Responsabile scientifico

Budget Unisannio: 150K Euro

[2] Progetto: “Sistema ibrido di Telecomunicazioni integrato con sensoristica optoelettronica e magnetica, microelaboratori distribuiti per applicazioni medicali (SIAMED)” (POR 2006, Acronimo: FAS568394)

Ai sensi del bando emanato dalla Regione Campania ed approvato con Decreto Dirigenziale n° 52 del 03/03/2006 pubblicato sul Burc n°14 del 20/03/2006;

Unità rappresentata: Università degli studi del Sannio

Ruolo: Responsabile scientifico

Budget: 90K Euro

[3] Progetto: “SMART CYLINDERS FOR FLEXOGRAPHIC PRINTING INDUSTRY (SCYPRI)” (THEME: SME-2012-1 - Research for SMEs - Research for the benefit of specific groups)

Grant agreement no: 315335

Unità rappresentata: CeRICT

Ruolo: Responsabile scientifico

Budget: 428K Euro

Anno: 01/10/2012 - 30/09/2014

[4] Progetto: “Multianalyte automatic system for the detection of drug resistant bacteria (OPTObacteria)” (THEME: SME-2011 - Research for SMEs - Research for the benefit of specific groups)

Grant agreement no: 315335

Unità rappresentata: CeRICT

Ruolo: Responsabile scientifico

Budget: 270K Euro

Anno: 01/11/2012 - 31/10/2014

[5] Progetto: "Bando per la realizzazione della rete delle biotecnologie in Campania"

Ai sensi del bando, emanato dalla Regione Campania in attuazione dell'obiettivo operativo 2.1 del P.O.R. Campania FESR 2007-2013, ed approvato con Decreto Dirigenziale n° 12452 del 24/07/2013 pubblicato sul Burc n° n. 43 del 5 Agosto 2013

Unità rappresentata: Università degli studi del Sannio

Ruolo: Responsabile scientifico

Budget: Unisannio 72K Euro

Anno: 2013, durata 3 anni

[6] Progetto: "Fiber Optic Sensors FOR CRYogenicApplicatiOns and Superconducting Magnets (FOS4CRYOS)" (EUCARD-2 Transnational Access)

Nell'ambito del 'WP9: HiRadMat@SPS and MagNet@CERN' del progetto EuCARD-2-Transnational Access

Ruolo: Responsabile scientifico

Durata: 3 anni

[[7] Progetto: "Smart Health 2.0"

Nell'ambito del bando "Smart cities and communities and social innovations" PON RICERCA E COMPETITIVITA' AVVISO N. 84/RIC dee 2/03/2013, ed approvato con Decreto Dirigenziale 626/Ric e 703/Ric

Unità rappresentata: CeRICT

Ruolo: Responsabile scientifico

Budget: 1.615M Euro

Anno: 2013, durata 3 anni

[8] Progetto: "Tecnologie innovative per la SICUREzza della circolazione dei veicoli FERroviari" (SICURFER)

Nell'ambito del programma PON Invito Ricerca industriale D.D. prot. 01/Ric. del 18 gennaio 2010, Codice identificativo del progetto: PONo1_00142

Soggetto Capofila: ANSALDO STS

Unità rappresentata: Università degli studi del Sannio

Ruolo: Responsabile scientifico

Budget: Unisannio 796K Euro

Anno: 2012, durata 3 anni

[9] Progetto: "Tecnologie optoelettroniche innovative per il monitoraggio e la diagnostica dell'infrastruttura ferroviaria" (OPTOFER)

PONo3PE_00155_1, D.D. n. 810 del 07/03/2014, CUP Ricerca: B88C14000050005, CUP Formazione: B86J14000020007

Unità rappresentata: Dipartimento di Ingegneria dell'Università degli Studi del Sannio

Ruolo: PI

Budget: 5.899.076 Euro

Anno: 2014

[10] Progetto: "Carrello per Atterraggio con Attuazione Intelligente" (CAPRI)

Nell'ambito del Distretto Tecnologico Aerospaziale della Campania S.C.A.R.L, PON03PE_00135_1, D.D. n. 785 del 06/03/2014, CUP Ricerca: B88C14000050005

Unità rappresentata: Dipartimento di Ingegneria dell'Università degli Studi del Sannio

Ruolo: Responsabile scientifico

Budget: 310.3k Euro

Anno: 2014

[11] Progetto: "Sensoristica in Fibra Ottica per il Risparmio Idrico" (SFORI)

Nell'ambito del Programma di Sviluppo Rurale PSR CAMPANIA 2007/2013 Misura 124 (HC), AGC 11 DRD n. 175 del 07/05/2013

Unità rappresentata: CeRICT

Ruolo: Responsabile scientifico

Budget: 220k Euro

Anno: 2013

[12] Progetto: "Lab on fibertechnology For advanced optical nanoprobEs (LIFE)"

Nell'ambito dei PRIN PROGETTI DI RICERCA DI RILEVANTE INTERESSE NAZIONALE – Bando 2015 - Prot. 20155ACHBN

Unità rappresentata: Dipartimento di Ingegneria dell'Università degli Studi del Sannio

Ruolo: PI

Budget: 537.2k Euro

Anno: 2015

[13] Progetto: "Tecnologie Optoelettroniche Per Applicazioni Marine E Medicali (OPTIMA)"

POR CAMPANIA FESR 2014-2020

Unità rappresentata: CeRICT

Ruolo: Responsabile scientifico

Budget: 2.837M Euro

Anno: 2016-2020

[14] Progetto: "Nanofotonica Per La Lotta Al Cancro (NANOCAN)"

POR CAMPANIA FESR 2014/2020, Manifestazione di Interesse per la Realizzazione di Technology Platform nell'ambito della lotta alle Patologie Oncologiche, Soggetto Capofila: Centro Regionale Information Communication Technology - CeRICT Scrl.

Unità rappresentata: CeRICT

Ruolo: Responsabile scientifico

Budget: Quota CeRICT 3.234.000 Euro

Anno: 2018 - 2020

[15] Progetto: Direttore Tecnico Progetto infrastrutturale "Centro di Nanofotonica e Optoelettronica per la Salute dell'uomo (**CNOS**)" (Progetto infrastrutturale POR 2018: "CNOS") POR CAMPANIA FESR 2014/2020, "Manifestazione di Interesse per la Realizzazione di Progetti di Sviluppo/Potenziamento di Infrastrutture di Ricerca Strategiche Regionali per la Lotta alle Patologie Oncologiche"

Soggetto Proponente: Centro Regionale Information Communication Technology

Ruolo: Responsabile scientifico

Budget: CeRICT Srl Importo Progetto: 14.085.900,00 Euro Quota CeRICT: 13.489.200,00 Euro

Anno: 2018

[16] Progetto: "Nanofotonica per nuovi approcci diagnostici e terapeutici in Oncologia e Neurologia (**NeON**)" (PON 2019 (NEON))

Codice Progetto ARS01_00769

Unità rappresentata: Università degli Studi del Sannio

Ruolo: PI

Budget: 8.995.634,56 Euro

Anno: 2019

[17] Progetto: "Radiation Dosimetry with Fiber Optic Sensors (**RaDFOS**)" (Progetto Europeo ATTRACT 2019)

Horizon 2020

Ruolo: Responsabile scientifico

Budget: 100k Euro

Anno: 2019

[18] Progetto: "gestione intelligente e sostenibile del fabbisogno idrico delle coltivazioni mediante sensori aerei e di terra (**INNOVARE**)"

PSR 2014/2020 mis 16.1

Unità rappresentata: CeRICT

Ruolo: Responsabile scientifico

Budget: 356k Euro

Anno: 2019

[19] Progetto: "Monitoraggio attivo dell'infrastruttura (**MAIA**)"

Codice identificativo ARS01_00353, CUP B26C18000300005

Unità rappresentata: CeRICT

Ruolo: Responsabile scientifico

Budget: 174k Euro

[20] Progetto: "C-MOBILITY: Technologies for Connected Vehicles" (Progetto POR)

Unità rappresentata: CeRICT

Ruolo: Responsabile scientifico

Budget: 32k Euro

[21] Progetto: “P-MOBILITY: Platform ITC for the Autonomous and Connected Vehicles” (Progetto POR)

Unità rappresentata: CeRICT

Ruolo: Responsabile scientifico

Budget: 20k Euro

[22] Progetto: “Antifane: Smart Monitoring for Infrastructure & Environment” (Progetto POR)

Unità rappresentata: TEST

Ruolo: PI

Budget: 25k Euro

[23] Progetto: “H-MOBILITY: Hybrid Technologies Integrated Systems for Light and Efficient Vehicles” (Progetto POR)

Unità rappresentata: TEST

Ruolo: Responsabile scientifico

Budget: 65k Euro

[24] Progetto: “Sistema WIM/WILD in Fibra ottica di nuova generazione per la sicurezza del trasporto ferroviario (SAFE RAIL)”

POR CAMPANIA FESR 2014-2020 - ASSE 3 - O.S. 3.1 - Azione 3.1.1 Avviso Pubblico Per Il Sostegno Alle Mpmi Campane Nella Realizzazione Di Progetti Di Trasferimento Tecnologico E Industrializzazione

Unità rappresentata: Optosmart Srl

Ruolo: PI

[25] Progetto: “Piattaforme innovative per la teranostica in patologie tumorali (OVERALL)”

POR CAMPANIA FESR 2014/2020 AZIONE 3.1.1, ID/CUP progetto B67H22002740007

Ente erogante: Regione Campania

Ruolo: PI

Budget: 1.471.038,58 Euro

Anno: 2022

[26] Progetto: "Development and validation of a biomedical device for the detection, characterization and removal of Circulating Tumor Cells from the peripheral blood of patients for the treatment and diagnosis of cancer (EVOLUTION)”

PNRR-POC-2022-12376586

Ente erogante: Ministero della Salute

Ruolo: Responsabile scientifico

Budget: 350k Euro

Anno: 2022

[27] Progetto: "Piattaforma RObotizzata di TEleoperazione per la CHirurgia mininvasiva (PROTECH)"

BANDO MISE, prot n. 392922, PRIN 2022 PNRR

Ente erogante: Ministero delle imprese e del Made in Italy

Ruolo: Responsabile scientifico

Budget: 600 k Euro

Anno: 2022

[28] VISCOPEL- VIScosity Cone On Plate (POR FESR CAMPANIA 2014/2020 - TRASFERIMENTO TECNOLOGICO 2018) 202

Ruolo: Responsabile scientifico

Budget: 300 k Euro

Anno: 2022

[29] Progetto: "Stimolazione ottica neurale per la restituzione del feedback sensoriale" (OPTONERVE (INAIL))

Codice Progetto PR23-PAS-P5

Unità rappresentata: Università degli Studi del Sannio

Ruolo: PI

Budget: 1500k Euro

Anno: 2024

[30] Progetto: "Innovative drug delivery nanophotonic platform for implementation of sarcomas therapy (DEEPLY (MSAL))"

Codice progetto PNRR-POC-2023-12377696

Unità rappresentata: Università degli Studi del Sannio

Ruolo: Responsabile scientifico

Budget: 250k Euro

Anno: 2024

[31] Progetto: "Fiber Assisted IntegRated Optofluidic BiolaSer for mi-Rna detecTion (FIRST)" (PRIN 2022 PNRR (MIUR))

Codice Progetto P2022MNPZ8 - CUP UNISANNIO: F53D23008370001

Unità rappresentata: Università degli Studi del Sannio

Ruolo: Responsabile scientifico

Budget: 134k Euro

Anno: 2023

[32] Progetto: “Nuove frontiere nella terapia genica: sviluppo di tecniche innovative di imaging multimodale (fluorescenza/Raman) per la localizzazione subcellulare di sequenze oligonucleotidiche libere ed incapsulate in nanovettori (**RINNOVA**)”

Codice progetto CN00000041; CUP B83C22002860006 (2024)

Unità rappresentata: Università degli Studi del Sannio

Ruolo: PI

Budget: 700k Euro

Anno: 2024

[33] Progetto: “Surface plasMon resonance e Biopsia Liquida: la nuova frontiera nello Sviluppo di saggi avanzati per la detection di biomarcatori Molecolari (**MISURA**)”

Codice progetto CUP: B53C22006120001(2024)

Unità rappresentata: Università degli Studi del Sannio

Ruolo: PI

Budget: 360k Euro

Anno: 2024

[34] Progetto: “Sviluppo di Strategie Terapeutiche e Diagnostiche Innovative per la SMA, la SLA e il Glioblastoma Mediante l’Identificazione di Meccanismi Genetici, Epigenetici e Molecolari Condivisi (**RARE GLIALS**)”

Avviso Pubblico per l’acquisizione di manifestazione di interesse da parte degli Organismi di Ricerca per la realizzazione di progetti di ricerca, sviluppo e innovazione nel campo delle Malattie Rare (DGR 393 del 19/07/2022 e successiva DGR n. 349 del 13/06/2023)

Unità rappresentata: Università degli Studi del Sannio

Ruolo: Responsabile scientifico

Budget: 331k Euro

Anno: 2025

[35] Progetto: “Strategie innovative basate sulla veicolazione di microRna in nanovettori teranostici per il superamento della chemioresistenza nel Glioblastoma (**spiRAGLIO**)”

Unità rappresentata: CeRICT

Ruolo: Responsabile scientifico

Budget: 350k Euro

Anno: 2025

[36] Progetto: “AI-Powered Multidisciplinary Approach to Cardiac Amyloidosis and Aortic Stenosis: Discovering Novel Biomarkers for Early Diagnosis and Prognosis (**TOSCA**)”

Unità rappresentata: CeRICT

Ruolo: Responsabile scientifico

Budget: 750k Euro

Anno: 2025

[37] Progetto: “ Verso la terapia proteica sostitutiva per il trattamento della sindrome da deficienza di cdkL5: produzione, caratterizzazione e somministrazione (**ILLUMINA**)”

Unità rappresentata: CeRICT

Ruolo: Responsabile scientifico

Budget: 350k Euro

Anno: 2025

[38] Progetto: “nano-Structuration of ThermoABiding Liposomes based on Ether-lipids as potential drugs carriers (**STABLE**)”

(PNRR - Bando a Cascata Rome Technopole Spoke 1 e Spoke 6) anno 2024

Unità rappresentata: CeRICT

Ruolo: Responsabile scientifico

Budget: 120k Euro

Anno: 2024

[39] Progetto: “Green transition and reuse of industrial waste for the development of next-generation functional materials (**REUSE**)”

(PNRR - Bando a Cascata dello Spoke 3 di iNEST-Interconnected Nord-Est Innovation Ecosystem)

Unità rappresentata: Università degli Studi del Sannio

Ruolo: PI

Budget: 350keur

Anno: 2024

ANNEX II

LISTA CONTRATTI DI RICERCA /CONVENZIONI/ TRASFERIMENTO TECNOLOGICO

Convenzioni

[1] Convenzione Progetto militare europeo dal titolo “AHMOS II” rivolto allo sviluppo di sensori in fibra ottica per il monitoraggio strutturale degli aeromobili. (57kEuro 2007)

Committente: CIRA

[2] Convenzione “Analisi delle proprietà elettromagnetiche di materiali compositi per applicazioni alla risonanza magnetica” (2008 50KEuro)

Committente: IMCB CNR

[3] Convenzione Ansaldo STS con Università degli Studi del Sannio: “Sviluppo di sensori in fibra ottica per applicazioni ferroviarie” (2009 30KEuro)

Committente: Ansaldo STS

[4] Convenzione Ansaldo STS con Università degli Studi del Sannio “Sviluppo di sensori in fibra ottica per applicazioni ferroviarie” (2010 30KEuro)

Committente: Ansaldo STS

[5] Convenzione di ricerca tra Dipartimento di Medicina Clinica e Chirurgia - Università degli studi di Napoli Federico II con Dipartimento di Ingegneria - Università degli Studi del Sannio “Supporto alla sperimentazione dei sensori biologici in fibra ottica per la rilevazione di marker tumorali per la diagnosi di cancro differenziato della tiroide” (2015 70KEuro)

Committente: Dipartimento di Medicina Clinica e Chirurgia - Università degli studi di Napoli Federico II

[6] Contratto di consulenza tra Hospital Consulting e Dipartimento di Ingegneria - Università degli Studi del Sannio “Supporto alla selezione della tipologia di biosensore più idoneo alla sperimentazione in vivo–Supporto alla Progettazione di un ago sensorizzato per diagnostica medica in vivo; Supporto alla Realizzazione di un ago sensorizzato per diagnostica medica in vivo; Supporto al collaudo e testing”

2015, 70KEuro

Committente: Hospital Consulting spa

[7] Accordo di Collaborazione con la società libanese **Tech Hub S.A.L** - Collaborative R&D on "Fibre Optic Sensor System for Irrigation Applications", **Budget: 234,316KEuro**

Contratti di Ricerca Nazionali:

[1] Programma: **Accordo di Collaborazione tra ENEA e il Dipartimento di Ingegneria dell'Università degli Studi del Sannio**

Titolo: Analisi numerica di cristalli fotonici ibridi metallo-dielettrici, in configurazione periodica e quasi periodica, come strati riflettori posteriori di celle fotovoltaiche a film sottile per migliorare l'intrappolamento della radiazione solare

Durata: 14/10/2010 - 30/09/2011; Budget Unisannio: 60KEuro

[2] Programma: **Accordo di Collaborazione tra ENEA e il Dipartimento di Ingegneria dell'Università degli Studi del Sannio**

Titolo: Validazione sperimentale e ottimizzazione di cristalli fotonici ibridi metallo-dielettrici come strati riflettori posteriori di celle fotovoltaiche a film sottile per migliorare l'intrappolamento della radiazione solare

CUP: I81J11000160001

Durata: 01/01/2012 - 30/09/2012; Budget Unisannio: 80KEuro

[3] Programma: **Accordo di Collaborazione tra ENEA e il Dipartimento di Ingegneria dell'Università degli Studi del Sannio**

Titolo: Cristalli fotonici ibridi metallo-dielettrici come strati riflettori posteriori di celle fotovoltaiche a film sottile per migliorare l'intrappolamento della radiazione solare

CUP: I81J12000220001,

Durata: 01/10/2012 - 30/09/2013; Budget Unisannio: 80KEuro

[4] Programma: **Accordo di Collaborazione tra ENEA e il Dipartimento di Ingegneria dell'Università degli Studi del Sannio**

Titolo: Cristalli fotonici ibridi metallo-dielettrici come strati riflettori posteriori di celle fotovoltaiche a film sottile per migliorare l'intrappolamento della radiazione solare

Durata: 01/10/2013 - 30/09/2014; Budget Unisannio: 40KEuro

[5] Programma: **Accordo di Collaborazione tra ENEA e il Dipartimento di Ingegneria dell'Università degli Studi del Sannio**

Titolo: Metasuperfici per migliorare l'efficienza di celle solari

CUP: I32F15000070001.

Durata: 01/10/2015 - 30/09/2016; Budget Unisannio: € 50.000,00.

[6] Programma: **Accordo di Collaborazione tra ENEA e il Dipartimento di Ingegneria dell'Università degli Studi del Sannio**

Titolo: Light trapping in celle solari a film sottile

CUP: I32F15000070001.

Durata: 01/10/2016 - 30/09/2017; Budget Unisannio: € 40.000,00.

Contratti di Ricerca Internazionali di Trasferimento Tecnologico:

[1] Research Agreement CERN (Ginevra)-Università degli Studi del Sannio (2011):

No.KE1851/PH

Titolo: R&D on optical fibre based relative humidity sensors for HEP applications

Stipulato il 29/06/2011 tra:

CERN (the European Organization for Nuclear Research)

Divisione di Optoelettronica, Dipartimento di Ingegneri dell'Università degli Studi del Sannio

Budget Unisannio: 38KEuro; durata 1 anno

[2] Accordo di Trasferimento Tecnologico tra la società libanese Tech Hub S.A.L e l'Università delgi Studi del Sannio: 2017-2020

Collaborative R&D on "Fibre Optic Sensor System for Irrigation Applications",

Budget Unisannio: 234,316KEuro (3 anni)

[3] Reserach Agreement "Collaborative Development for Relative Humidity Fiber Optic Sensors Based on Long Period Gratings"

No. LPG-ITk-2023-01

Stipulato il 15/11/2023 tra:

- ATLAS Experiment at CERN (the European Organization for Nuclear Research)
- Engineering Department of University of Sannio
- Institute for Polymers, Composites and Biomaterials (IPCB) CNR

Budget Unisannio: 30,7KEuro;

ANNEX III

PREMI E RICONOSCIMENTI NAZIONALI E INTERNAZIONALI

Premi per le migliori tesi di dottorato di studenti di cui il Prof. Andrea Cusano è stato Tutor o co-Tutor:

Premi IEEE Leos Award come miglior tesi di dottorato italiana in Optoelettronica:

- Italian Chapter (2006, 2007 and 2009 respectively)

[1] 2009 Pierluigi Pilla (XX Ciclo, Università del Sannio - Benevento) "Modal Transition in Nano-sized High Refractive Index Coated Long Period Gratings: Principles and Applications to Chemical Sensing"

[2] 2007 Marco Consales (XIX Ciclo, University of Sannio, Benevento) "Opto-chemical sensors based on carbon nanotubes"

[3] 2006 Agostino Iadicicco (XVII Ciclo, University of Sannio): 'Micro-Structured Fiber Bragg Gratings for Sensing and Communication Applications'

Premio "Runner-up" per la miglior tesi di dottorato 2018 nell'ambito della 50esima Riunione annuale della SIE (Associazione Società Italiana di Elettronica), che si è tenuta a Napoli dal 20 al 22 giugno 2018.

[4] 2018 Martino Giaquinto (XXX Ciclo, University of Sannio): 'Stimuli Responsive Microgels for Advanced Lab on fiber Optrodes'

Premi Internazionali:

[1] BEST PAPER: A. Cusano et al. "REFLECTION-TYPE LONG PERIOD GRATING BIOSENSOR FOR THE DETECTION OF DRUG RESISTANT BACTERIA: THE OPTO-BACTERIA PROJECT", at the XVIII AISEM conference, 3-5 Febbraio 2015, Trento, Italia.

[2] BEST ORAL PRESENTATION: A. Cusano et al., "Active Vibration Control in Co-Located Configuration Using Integrated Piezoelectric Actuators and Fiber Bragg Grating Sensors," at the 2nd International Conference on Sensing Technology (ICST), Palmerston North – New Zealand, November 26-28, 2007.

[3] BEST STUDENT PAPER AWARD: A. Cusano et al., "High Sensitivity Near-Field Opto-Chemical Sensors Based on SnO₂ Particles Layers," at the 3rd European Workshop on Optical Fibre Sensors (EWOFS), Naples – Italy, July 4-6, 2007.

[4] BEST STUDENT PAPER AWARD A. Cusano et al., "Evanescent-wave LPFG in D-fiber by periodically patterned overlay", at the 4th EWOFS, Oporto, Portugal, September 8th – 10th 2010.

- [5] OUTSTANDING PAPER AWARD: Moccia, M.; Pisco, M.; Cutolo, A.; Galdi, V.; Cusano, A. "Resonant hydrophones based on coated fiber Bragg gratings. Part I: numerical analysis" Moccia, M.; Consales, M.; Iadicicco, A.; Pisco, M.; Giordano, M.; Cutolo, A.; Cusano, A. "Resonant hydrophones based on coated fiber Bragg gratings. Part II: experimental analysis" 21st International Conference on Optical Fiber Sensors. Edited by Bock, Wojtek J.; Albert, Jacques; Bao, Xiaoyi. Proceedings of the SPIE, Volume 7753, pp. 775383-775383-4 (2011).
- [6] MIGLIOR COMUNICAZIONE al XCVIII Congresso Nazionale della Società Italiana di Fisica per la sezione di geofisica, fisica dell'ambiente e oceanografia fisica: "Photonic Hydrophones Based on Coated Fiber Bragg Gratings", M. Pisco, M. Moccia, M. Consales, A. Iadicicco, A. Cutolo, S. Passaro, E. Marsella, S. Mazzola, V. Galdi, A. Cusano, XCVIII Congresso Nazionale della Società Italiana di Fisica, Napoli, 17 - 21 Settembre, 2012
- [7] BEST POSTER AWARD in "Chemical, Environmental, Biological and Medical Sensors" session – "Lab in a Needle for Epidural Space Identification" - B. Carotenuto, A. Micco, A. Ricciardi, E. Amorizzo, M. Mercieri, A. Cutolo, A. Cusano. European Workshop on Optical Fibre Sensors (EWOFS 2016) Limerick, Ireland (May-June 2016).
- [8] BEST POSTER AWARD: Autori: M. Giaquinto, A. Ricciardi, A. Aliberti, A. Micco, E. Bobeico, V. La Ferrara, M. Ruvo, A. Cutolo, A. Cusano "ENGINEERING OF MICROGEL ASSISTED LAB ON FIBER PLATFORMS" alla Conferenza Nazionale "Fotonica 2018" tenutasi a Lecce il 25 Maggio 2018
- [9] Premio internazionale per la miglior ricerca interdisciplinare sull'asse Italia-Canada: Award for the BEST INTERNATIONAL COLLABORATION FOR RESEARCH: "Lab on fiberTechnology Project" University of Sannio (Responsible Prof. Andrea Cusano- University of Quebec (Responsible Prof. Wojtek Bock)
http://www.italchamber.qc.ca/it/pv2011_home.php
<http://uqo.ca/nouvelles/2012/01/17/excellence-des-collaborations-avec-l-italie-le-professeur-wojtek-bock-finaliste>
- [10] Nel 2015 l'articolo "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 2014 1 (10), 917-927" è stato selezionato dagli editor di ACS Photonics, The Journal of Physical Chemistry e Analytical Chemistry come un "outstanding example of new and emerging light based spectroscopic and characterization methods" e incluso nel numero virtuale (cross-journal virtual issue) dal titolo "Probing the Fundamentals of Light-Matter Interactions", in celebrazione dell'anno internazionale della luce (IYL2015)
- [11] "Best Poster Award" (Categoria "Bio-nanomaterials and Biomedical Devices for Human Health") alla Conferenza Internazionale "World Congress on Sciences and Applied Science 2022", Doha, Qatar con il paper "All-dielectric Metasurfaces for fluorescence emission enhancement: A promising platform for highly sensitive biosensors", H. Al Halaby, M. Principe, H. Zaraket, P. Vaiano, M. Consales, A. Cusano.

ANNEX IV

Lista Pubblicazioni Su Riviste Internazionali

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- [2] Bruno F.A., Janneh M., Gunda A., Kyselica R., Stajanca P., Werzinger S., Gruca G., Rijnveld N., Persiano G.V., Cutolo A., Pisco M., Cusano A.
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FOS-based thermo-hygrometers in the ATLAS Inner Detector
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- [4] Janneh M., Bruno F.A., Guardato S., Donnarumma G.P., Iannaccone G., Gruca G., Werzinger S., Gunda A., Rijnveld N., Cutolo A., Pisco M., Cusano A.
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ANNEX V

Lista Pubblicazioni In Atti Di Congressi Nazionali ed Internazionali

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ANNEX VI

- LISTA CAPITOLI LIBRI & SPECIAL ISSUES

Capitoli Su Invito Pubblicati In Libri Sia In Ambito Nazionale Che Internazionale

CL.1 *“Sistemi su portante ottica”*

A. Cutolo, A. Cusano, L. De Stefano, G.V. Persiano, M. Pisco, I. Rendina

In “Risultati e prospettive nella ricerca congiunta università-imprese ICT”, Codice Volume: 380.258, Franco Angeli Editore (2004), ISBN: 9788846461032.

CL.2 *“Nano-Scale Highly Sensitive Coatings for Advanced Fiber Optic Chemical Sensors: Part I: Materials, Sensors Design and Fabrication”*

A. Cusano, M. Consales, P. Pilla, M. Giordano, A. Cutolo

In Optics Research Trends, Chapter 2, Nova Publisher, ISBN: 1-60021-736-2, 2007, pp. 61-91

CL.3 *“Nano-Scale Highly Sensitive Coatings for Advanced Fiber Optic Chemical Sensors: Part II: Sensors Characterization and Performances Analysis”*

A. Cusano, M. Consales, P. Pilla, M. Giordano, A. Cutolo

In Optics Research Trends, Chapter 3, Nova Publisher, ISBN: 1-60021-736-2, 2007, pp. 93-125

CL.4 *“MicroStructuredFiber Bragg Gratings: Part I: Theoretical and Experimental Analysis”*

A. Cusano, A. Iadicicco, M. Pisco, S. Campopiano, A. Cutolo

In Optics Research Trends, Chapter 4, Nova Publisher, ISBN: 1-60021-736-2, 2007, pp. 127-150

CL.5 *“Micro-Structured Fiber Bragg Gratings: Part II: Towards Multifunction Photonic Devices for Sensing and Telecommunication Applications”*

A. Cusano, A. Iadicicco, M. Pisco, S. Campopiano, A. Cutolo

In Optics Research Trends, Chapter 5, Nova Publisher, ISBN: 1-60021-736-2, 2007, pp. 151-171

CL.6 *“Fiber Bragg Gratings Evanescent Wave Sensors: A View Back and Recent Advancements”*,

A. Cusano, A. Cutolo, and M. Giordano,

in Sensors, serie Lecture Notes in Electrical Engineering. Berlin, Germany: Springer-Verlag, 2008, vol. 21, pp. 113–152.

CL.7 *“Fiber Bragg Grating Sensors and Piezoelectric Actuators in Co-Located Configuration for Active Vibration Control Applications”*

C. Ambrosino, G. Diodati, A. Laudati, G. Breglio, M. Giordano, A. Cutolo and A. Cusano

In Smart Sensors and Sensing Technology, Lecture Notes in Electrical Engineering, Berlin, Germany: Springer-Verlag, 2008, vol. 20, Part IV, pp. 167-181

CL.8 *“Photonic crystals: towards a novel generation of integrated optical devices for chemical and biological detection”*

A. Ricciardi, C. Ciminelli, M. Pisco, S. Campopiano, C. E. Campanella, E. Scivittaro, M. N. Armenise, A. Cutolo, A. Cusano

In **Introduction to Optoelectronic Sensors**, World Scientific Press (Singapore), Jan 2009, ISBN 978-981-283-412-6

CL.9 *“Fiber Bragg Grating Sensors: Industrial Applications”*

C. Ambrosino, A. Iadicicco, S. Campopiano, A. Cutolo, M. Giordano, A. Cusano

In **Introduction to Optoelectronic Sensors. World Scientific Press (Singapore)**, p. 34-76, Jan 2009, ISBN/ISSN: 978-981-283-412-6, 2009.

CL.10 *“Fiber Optic Sensors in Structural Health Monitoring”*

M. Giordano, J. Sharawi Nasser, M. Zarrelli, A. Cusano, A. Cutolo

In **Introduction to Optoelectronic Sensors. World Scientific Press (Singapore)**, p. 378-402, Jan 2009, ISBN/ISSN: 978-981-283-412-6, 2009.

CL.11 *“Modal Transition in Nano-Coated Long Period Fiber Gratings: Principle and Applications to Chemical Sensing”*

Andrea Cusano, Pierluigi Pilla, Michele Giordano, and Antonello Cutolo

in **Advanced Photonic Structures for Biological and Chemical Detection (Integrated Analytical Systems Series)**, Springer, ISBN: 978-0-387-98060-7, 2009

CL.12 *“Photonic bandgap engineering in FBGs by post processing fabrication techniques”*

A. Cusano, D. Paladino, A. Cutolo, A. Iadicicco, S. Campopiano

in **Fiber Bragg Grating Sensors: Recent Advancements, Industrial Applications and Market Exploitation**, Bentham e-book, chapter 4, pp. 53-77, April 2011, eISBN: 978-1-60805-084-0, 2011

CL.13 *“Fiber Bragg grating evanescent wave sensors for chemical and biological applications”*

A. Cusano, D. Paladino, A. Cutolo, A. Iadicicco, S. Campopiano

in **Fiber Bragg Grating Sensors: Recent Advancements, Industrial Applications and Market Exploitation**, Bentham e-book, chapter 13, pp. 238-269, April 2011, eISBN: 978-1-60805-084-0, 2011.

CL.14 *“Fiber Optic Chemical Sensors based on Single-Walled Carbon Nanotubes: Perspectives and Challenges”*

M. Consales, A. Cutolo, M. Penza, P. Aversa, M. Giordano, A. Cusano

In **Optical Fibre, New Developments**, Christophe Lethien (Ed.), pp. 237-268, 2009, INTECH, ISBN: 978-953-7619-50-3.

CL.15 *“Near-Field Opto-Chemical Sensors”*

A. Buosciolo, M. Consales, M. Pisco, M. Giordano, A. Cusano

In Optical Fibre, New Developments, Christophe Lethien (Ed.), pp. 69-100, INTECH, ISBN: 978-953-7619-50-3.

CL.16 *“Microstructured Optical Fibers filled with Carbon Nanotubes: Photonic Bandgap Modification and Sensing Applications”*

M. Pisco, M. Consales, A. Cutolo, P. Aversa, M. Penza, M. Giordano, A. Cusano

In Carbon Nanotubes, Jose Mauricio Marulanda (Ed.), pp. 507-522, INTECH, ISBN: 978-953-307-054-4.

CL.17 *“Out-of-Plane Propagation in Photonic Quasicrystals: Guided Resonances”*

A. Ricciardi, S. Campopiano, M. Pisco, A. Cusano, I. Gallina, G. Castaldi, and V. Galdi,

In Selected Topics in Photonic Crystals and Metamaterials by A. Andreone, A. Cusano, A. Cutolo and V. Galdi, World Scientific Publishing Co Pte Ltd, ISBN: 978-981-4355-18-6 (2011).

CL.18 *“Guided Resonances in Photonic Crystal Slabs for Sensing Applications”*

A. Ricciardi, M. Pisco, G. Castaldi, V. Galdi, S. Campopiano, A. Cutolo And A. Cusano

In Photonic Bandgap Structures: Novel Technological Platforms for Physical, Chemical and Biological Sensing, by M. Pisco, A. Cusano and A. Cutolo, Bentham Science Publishers Ltd., pp.189-194, (2012). eISBN: 978-1-60805-448-0 - ISBN: 978-1-60805-507-4.

CL.19 *“Long Period Gratings in new Generation Optical Fibers”*

A. Iadicicco, D. Paladino, P. Pilla, S. Campopiano, A. Cutolo, A. Cusano

In “Recent Progress in Optical Fiber Research” Yasin Moh (Ed.), pp 293-326 INTECH, ISBN 978-953-307-823-6, 2012.

CL.20 *“Multifunctional Fiber Optic Nanosensors for Environmental Monitoring”*

A. Crescitelli, M. Consales, A. Cutolo, M. Giordano, A. Cusano

In “Optochemical Nanosensors”, A. Cusano, F. Arregui, M. Giordano, A. Cutolo (Eds.), Taylor&Francis (November 2012), ISBN: 1439854890.

CL.21 *“Lab on Fiber Technology and Related Devices”*

A. Cusano, M. Consales, M. Pisco, A. Crescitelli, A. Ricciardi, E. Esposito, A. Cutolo

In “Optochemical Nanosensors”, A. Cusano, F. Arregui, M. Giordano, A. Cutolo (Eds.), Taylor&Francis (November 2012), ISBN: 1439854890.

CL.22 *“Resonant Hydrophones Based on Coated Fiber Bragg Gratings for Underwater Monitoring”*

G. Quero, A. Crescitelli, M. Consales, M. Pisco, A. Cutolo, V. Galdi, A. Cusano, A. Iadicicco

In Photonics for Safety and Security, A. Cutolo, A. G. Mignani, A. Tajani (Eds.), pp. 145-175, 2013, ISBN: 978-981-4412-96-4.

CL.23 *“Multifunctional fiber optic plasmonic nanoprobe”*

Crescitelli, A., Consales, M., Esposito, E., Quero, G., Ricciardi, A., Cusano, A.

In Lab on Fiber Technology, Cusano A., Consales M., Crescitelli A., Ricciardi A. (Eds), Springer Series in Surface Sciences, Springer International Publishing, 56, pp. 133-157. (2015), ISBN 978-3-319-06997-5

CL.24 *“Lab on Fiber by using the Breath Figure technique”*

M. Pisco, G. Quero, A. Iadicicco, M. Giordano, F. Galeotti, A. Cusano,

In “Lab on Fiber Technology”, A. Cusano, M. Consales, A. Crescitelli, A. Ricciardi (Eds.), Springer Verlag, pp. 233-250, 2014, ISBN 978-3-319-06998-2.

CL.25 *“Microstructured optical fiber filled with carbon nanotubes”*

M. Pisco, M. Consales, A. Cutolo, A. Cusano

In Optofluidics, Sensors and Actuators in Microstructured Optical Fibers, S. Pissadakis and S. Selleri (Eds.), Woodhead Publishing, pp. 85-109 (2015), ISBN 9781782423294.

CL.26 *“Application of Nanotechnology to Optical Fiber Sensors: Recent Advancements and New Trends”*

A. Ricciardi, M. Consales, M. Pisco, A. Cusano

In Optical fiber sensors: fundamentals for development of optimized devices,

Ignacio Del Villar and Ignacio R. Matias (Eds.),

IEEE Sensors Book (2020) <https://doi.org/10.1002/9781119534730.ch9>

CL.27 *“Lab on Fiber Technology: towards Advanced and multifunctional Point of care platforms for precision medicine”*

M. Consales, I. Del Villar, I. R. Matias, A. Cusano

In Encyclopedia of Sensors and Biosensors,

Roger J Narayan (Ed.), **Elsevier (2022)**

ANNEX VII

LISTA PRESENTAZIONI “INVITED” IN CONGRESSI INTERNAZIONALI E NAZIONALI

Presentazioni “Invited” In Congressi Internazionali

- [1] *“Fiber Optic NanoSensors based on Single-walled Carbon Nanotubes: Perspectives and Challenges”* **Gas and Radiation Sensors: Properties, Characterisation. Thin Films Based Sensors, Salamanca, July, 7-9, 2008.**
- [2] *“Fiber Bragg Grating Sensors Advancements and Industrial Applications”* **CIMTEC-2008. Advances in Science and Technology, Vol. 55, pp. p213, ISSN: 1662-0356, 2008.**
- [3] *“Developments and Applications of Microstructured Fiber Bragg Gratings”*
The Optical Fiber Communication Conference and Exposition (OFC) and the National Fiber Optic Engineers Conference (NFOEC), Los Angeles (USA), 6-10 March 2011.
- [4] *“FOS in CMS Detectors at CERNK-05”,* **5th European Workshop on Structural Health Monitoring, Sorrento, 29 June-2July, 2010.**
- [5] *“Fiber Bragg Grating Sensors: Advancements and Industrial Applications”* **SPIE Photonics Europe 2008, Session 2: Optical Fibre Sensors II, Invited Lecture 7003A-5, Strasbourg – France, April 7-10, 2008**
- [6] *“High-Sensitivity Fiber Optic Chemo-Sensors coated by SWCNTs based Nano-composites”*
Invited at the SPIE Conference Photonic Europe 2008 (Optical Sensor), 7–10 April 2008, Strasbourg, France
- [7] *“FOS in CMS Detectors at CERNK-05”,* G. Breglio, S. Buontempo, A. Buosciolo, M. Consales, A. Cusano, A. Cutolo, M. Giordano, A. Irace and P. Petagna
5th European Workshop on Structural Health Monitoring, Sorrento, 29 June-2July, 2010.
- [8] *“Lab on fiber technology and related devices, part I: a new technological scenario; Lab on fiber technology and related devices, part II: the impact of the nanotechnologies”*
International Conference on Applications of Optics and Photonics: 3-7 May 2011 Braga, Portugal (Proceedings of SPIE)
- [9] *“Developments and Applications of Microstructured Fiber Bragg Gratings”*
The Optical Fiber Communication Conference and Exposition (OFC) and the National Fiber Optic Engineers Conference (NFOEC) 2011, Los Angeles (USA), 6-10 March 2011.
- [10] *“Lab on fiber technology: perspectives and challenges”*
Asia Pacific Optical Sensors (APOS) 2012, Sydney – Australia, 31/01 – 03/02 2012.
- [11] *“Multifunctional Fiber Optic Sensors for High Energy Physics Experiments at CERN”*
Frontiers in Optics- OSA’s 97th Annual meeting, Orlando - Florida, 6/10 – 10/10 2013.

- [12] *"New functionalities in optical fibers using "Lab on Fiber" technology "*
Optics 2014, Philadelphia (USA) 8-10 September 2014.
- [13] *"Lab-on-Fiber biosensing for cancer biomarker detection"*
24th International Conference on Optical Fibre Sensors Curitiba, 28 September – 2 October 2015.
- [14] *Lab on Fiber Technology: a promising platform for multifunctional all fiber nanoprobes*
Materials 2016, December 12th to 16th, 2016 in Aci Castello,
- [15] *"Lab-on-Fiber Technology for Biological Sensing Applications,"*
in Frontiers in Optics 2016, OSA Technical Digest (online), Optical Society of America, 2016 . 16-21 October Rochester (USA).
- [16] *"Lab-on-Fiber bio-probes integrated with Microgels "*
7th EOS Topical Meeting on Optical Microsystems (OμS'17), Capri, Italy, 10-14 September 2017.
- [17] *"The Optical Fiber Tip as Promising Platform for Advanced Lab-on-Fiber Devices"*
Photonics@SG - Photonics Global Conference (CLEO-PR/OECC/PGC), Singapore, August 2017
- [18] *Lab on Fiber Technology: adding new functionalities to optical fibers*
CLEO®/Europe-EQEC 2017, Munich, Germany 25 to 29 June 2017.
- [19] *Is lab-on-fibre technology more than a simpler vision?"*
SPIE Photonics West Conference 2018, San Francisco, California, United States, 27 January–1 February 2018
- [20] *"Lab on fiber technology: A view back and recent advances"*
1st International Conference on Dielectric Photonic Devices and Systems Beyond Visible Bari 1-2 October 2018
- [21] *Lab on fiber technology: the roadmap towards multifunctional plug&play platforms for life science applications*
XV EUROPT(R)ODE 2021, 28 november-1 december 2021, Warsaw, Poland
- [22] *"Light Assisted Technologies for Wound Healing"*
European Wound Management Association-EWMA conference-3-5 Maggio 2023, Milano
- [22] *"Lab-on-fibre technology for optical biosensing"*
The European Workshop on Optical Fibre Sensors EWOFs 2023 - 23-26 May 2023, Mons, Belgium
- [23] *"Lab on fiber: a key enabling technology for precision medicine"*
28th International Conference on Optical Fiber Sensors (OFS-28) - 20-24 November 2023, Hamamatsu, Japan

PRESENTAZIONI “INVITED” IN CONGRESSI NAZIONALI

[23] *“Fiber Bragg grating cavities for sensing applications”*

A. Cusano, D. Paladino, A. Cutolo, A. Iadicicco, S. Campopiano

XI Convegno Nazionale delle Tecnologie Fotoniche (Fotonica), Pisa, 27-29 Maggio 2009.

[24] *“Industrial Applications of Fiber Bragg Grating Sensors”*

A. Cutolo, A. Iadicicco, S. Campopiano, M. Consales, M. Pisco, A. Laudati, A. Cusano.

XVI Convegno Nazionale AIVELA, 1- 2 dicembre 2008.

[25] *“Optical fiber sensors for industrial applications”*

A. Cusano

Photonica 2009, Fiera Milano, 25-26 Novembre 2009

[26] *“Analysis of Plasmonic-Photonic Resonances in Hybrid Metallo-Dielectric Quasicrystals”*
[KEYNOTE]

A. Ricciardi, A. Crescitelli, M. Consales, E. Esposito, V. Galdi, A. Cutolo, A. Cusano

Convegno Nazionale Sensori, Roma, Febbraio 2012

[27] *“Multifunctional Fiber Optic sensors for industrial applications: case studies and new trends”*

A. Cusano

XVII Conferenza Annuale dell’Associazione Italiana Sensori e Microsistemi (AISEM),
5 - 7 Febbraio 2013, Brescia.

[28] *“All in Fiber Nanophotonic Sensors”*

A. Crescitelli, E. Esposito, A. Ricciardi, G. Quero, M. Consales, A. Cutolo,

A. Cusano,

FOTONICA 2014, 12 - 14 Maggio 2014, Napoli - Italia.

[29] *“Lab on Fiber Label-Free biosensor based on Microgel Photonics”*

M. Giaquinto, A. Micco, A. Aliberti, A. Ricciardi, M. Ruvo, A. Cutolo, A. Cusano

Fotonica 2016 , Giugno 6-8, 2016, Roma, Italy

[30] *“Peptide-based-fluorescent chemosensors for Hg²⁺ detection in Water”*,

Caporale A. Aliberti, P. Vaiano, , M. Consales, A. Cusano and M. Ruvo,

XVII Workshop Pharmabiometallics, February 2018, Naples, Italy

[31] *“A Lab-on-Fiber Platform as Promising Dosimeter for the Ultra High Dose Scenario”*

P. Vaiano, G. Quero, 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.

FOTONICA 2018 AEIT, 23-25 Maggio 2018, Lecce – Italia

[32] *“Biofotonica E Medicinaria rigenerativa”*

Convegno “Medicina Rigenerativa” – 27/28 Aprile 2023 Barletta

[33] *“La fotonica: la luce che rigenera al servizio delle biotecnologie”*

Convegno “Le Strategie ESG Secondo L'approccio One Health”– 20/21 Giugno 2023 Milano

[34] *“Fotobiomodulazione e medicina rigenerativa: prospettive e sfide”*

SIMCRI VIII Congresso Nazionale – 15/16 Settembre 2023 Siena

[35] *“Lab on Fiber Technology: Pitfalls and Challenges Towards Advanced Multifunctional Optrodes for Life Science.”*

VII CONVEGNO DI ASTROBIOLOGIA-12/13 Giugno 2024 Roma

[36] *“Progetto OPTONERVE: Comprendere e Sfruttare efficacemente l'interazione LUCE-NEURONE”*

SIMCRI IX Congresso Nazionale – 20/21 Settembre 2024 Roma