

## CURRICULUM VITAE



### INFORMAZIONI PERSONALI

Nome  
Indirizzo  
Telefono  
Sito web  
E-mail

**d'ALESSANDRO ANTONIO**

**DIPARTIMENTO DI INGEGNERIA DELL'INFORMAZIONE, ELETTRONICA E  
TELECOMUNICAZIONI – DIET VIA EUDOSSIANA, 18 – 00184 ROMA**

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### ESPERIENZA LAVORATIVA

- Date
- Nome del datore di lavoro
- Tipo di impiego
- Principali mansioni e responsabilità

Da 1 Marzo 2002 ad oggi  
Sapienza Università di Roma

Professore Associato

Responsabile Accademico per la Mobilità (RAM) per l'Area didattica di Ingegneria delle Nanotecnologie e Ingegneria Elettronica.

Docente dei corsi di Optoelectronics (6CFU) e Photonics (6CFU) per i corsi di Laurea Magistrale di Ingegneria Elettronica e Ingegneria delle Nanotecnologie.

Docente del Elettronica e Sensori Ottici (6+3 CFU) per il corso di Laurea Magistrale di Ingegneria Spaziale e Astronautica

Membro della Giunta dell'Area didattica di Ingegneria Elettronica

Responsabile del laboratorio di Optoelettronica del DIET Sapienza Università di Roma

Program Coordinator of Double Degree Program between Sapienza Electronic Engineering master degree e Master of Science in Electrical and Computer Engineering of the Georgia Institute of Technology.

- Date
- Nome del datore di lavoro
- Tipo di impiego
- Principali mansioni e responsabilità

Dal 6 giugno 1994 al 1 Marzo 2002

Sapienza Università di Roma

Ricercatore Universitario

Docente dei corsi di Optoelettronica e Fotonica 6CFU per i corsi di Laurea di Ingegneria Elettronica

- Date
- Nome del datore di lavoro
- Tipo di impiego
- Principali mansioni e responsabilità

Dal 1 novembre 1992 al 6 giugno 1994

Bell Communication Research , New Jersey, USA

Post doctoral Member of Technical Staff

Attività di ricerca su Filtri e switch acustooptici integrati su niobato di litio per comunicazioni ottiche WDM

### ISTRUZIONE E FORMAZIONE

- Date
- Nome e tipo di istituto di istruzione o formazione
- Principali materie / abilità professionali oggetto dello studio

Dal 1 novembre 1989 al 31 ottobre 1992

Politecnico di Bari

Ingegneria Elettronica,

• Qualifica conseguita

Dottorato di Ricerca

• Date

Dal 1 novembre 1983 al 14 luglio 1992

• Nome e tipo di istituto di istruzione o formazione

Università degli Studi di Bari

• Principali materie / abilità professionali oggetto dello studio

Ingegneria Elettronica,

• Qualifica conseguita

Laurea con lode

## CAPACITÀ E COMPETENZE PERSONALI

i.

MADRELINGUA

**Italiano**

ALTRE LINGUA

**INGLESE**

• Capacità di lettura

eccellente

• Capacità di scrittura

eccellente,

• Capacità di espressione orale

eccellente

RESPONSABILE SCIENTIFICO

Dal 1994 ad oggi è stato responsabile di diversi progetti scientifici nazionali ed internazionali come Principal investigator.

Year	Title	Program
2017	Tunable optical ring resonators using liquid crystal overlayers for true-time delay in optical beam forming networks for phased array antennas	Sapienza Research Project 2017
2013-2017	"Integrating devices and materials: a challenge for new instrumentation in ICT" (IDEM)	COST ACTION: IC COST 1208
2015	Flexible and reconfigurable photonic circuits for datacom and optofluidic applications	Sapienza Research Project 2015
2014	Dispositivi optofluidici in polidimetilsilossano e cristallo liquido per applicazioni Lab-on-chip	Sapienza Research Project 2014 -
2013	Guide ottiche riconfigurabili mediante nanostrutture 3D a cristallo liquido in fase blu	Sapienza Research Project 2013 -
2011	Microstrutture optofluidiche accordabili otticamente per applicazioni biosensoristiche	Sapienza Research Project 2011

2011-2016	2 Task nell'ambito del progetto "Life-NanoScience": A1- Wp2, Task 4-"Novel lab-on-chip methodologies for easy and cheap detection of miRNAs as biomarkers of neurodegenerative disorders"; A2- Wp1, Task 5-"Development of a very compact and high sensitivity system for PCR-based detection of nucleic acids in CSCs"	Joint Project Istituto Italiano Tecnologie IIT-Sapienza Università di Roma
2012	Biosensori fotonici per la rivelazione di proteine in circuiti microfluidici basati su nanoparticelle di carbonio	Sapienza Research Project 2012
2010-2011	All-optical Integrated Switches Based on Azo-benzene Liquid Crystals on Silicon	EOARD (European Office of Aerospace Research and Development) Grant number FA8655-10-1-3070
2009	Commutatori tutto-ottici per sistemi di telecomunicazioni spaziali e comandi del sistema di separazione di LARES	Sapienza Research Project 2009
2007-2009	Micro and sub-micro electro-optical devices based on liquid crystals	Ministero Affari Esteri Executive Program of Scientific and Technological Co-operation Joint Project Italy-Poland
2007-2009	Microphotonic resonators on silicon for optical communications and sensing	Ministero Affari Esteri Great Relevance Bilateral Research Project Italy-Turkey
2006-2007	Filtri ottici integrati accordabili realizzati con materiali POLICRYPS per sistemi di interrogazione di sensori in fibra ottica dedicati al monitoraggio termico e strutturale	PRIN 2006
2002-2006	Synclinic and Antisynclinic Mesophases for Photonic Applications	FP5 - ENG - Research Training Network "SAMPA" Contract Number: HPRN-CT-2002-00202
2003-2004	Realizzazione e caratterizzazione di circuiti di luce integrati con guide ottiche in vetro e materiali compositi liquido-cristallini per la commutazione ed il filtraggio di segnali ottici	PRIN 2003
2003-2004	Optical switches based on ion-exchanged glass channel waveguides and liquid crystals	INFM PAIS Project 2003: "GLICROS" (Glass and Liquid Crystal Optical Switches)
2000-2001	Dispositivi basati su nuovi materiali e composti a cristalli liquidi per l'instradamento di segnali ottici in reti di comunicazione	PRIN 2000

1997-2000	Liquid Crystal based Photonic Devices LC PHOTONET	FP4 - Brite EuRam Thematic Network "LC Photonet" Contract Nr: BRRT-CT97-5019
1997-1999	Laser Interferometer for High Quality Manufacturing Industry -LIMI	INCO-COPERNICUS PROGRAM Contract Nr: IC 15-CT96-0728
1994-1995	Product-based Ferroelectric Liquid-Crystal Applications (PROFELICITA)	ESPRIT PROJECT: 8498

**AFFILIAZIONE A SOCIETA' SCIENTIFICHE E CENTRI DI RICERCA E RUOLI DI RESPONSABILITÀ**

Presidente della Società Italiana Cristalli Liquidi dal 2010  
 Vice Presidente of IEEE Photonics Society – Italy Chapter dal 2017  
 Senior Member of IEEE since 2006  
 Senior Member of the Optical Society of America since May 2018  
 OSA Treveling Lecturer  
 Member of the International Liquid Crystal Society and member of the International Board of Directors  
 Associato al CNR - IMM (Istituto per la Microelettronica e Microsistemi)  
 Membro del CNIS – Centro di ricerca per le Nanotecnologie applicate all'Ingegneria di Sapienza

**ATTIVITA' DI REVISORE**

Associate Editor of IEEE Photonics Journal  
 Referee for the following scientific journals: IEEE Photonics Technology Letters, Molecular Crystals and Liquid Crystals, Optics Express, OSA Journal of Applied Optics, Journal of Applied Physics, IOP Journal of Physics D: Applied Physics, Journal of Optics A: Pure and Applied Optics.  
 He has been project referee for:  
 Evaluation of research projects on behalf of the Italian Ministry of Education, University and Research and the Evaluation of research products (VQR 2004-2010 and VQR 2011-2014) on behalf of ANVUR.  
 Research Projects for Foundation for Polish Science,  
 FIT-IT for Research Innovation Technology and Information Technology of Austrian Government,  
 Institute for the Promotion of Innovation by Science and Technology in Flanders (IWT),  
 Horizon 2020 projects as remote evaluator for Research Innovation Action (RIA) for Future and Emerging Technologies (FET) Programme.

**INTERESSI SCIENTIFICI**

MICRO-DISPOSITIVI FOTONICI SU SILICIO E MATERIALI ORGANICI (POLIMERI CRISTALLI LIQUIDI) PER COMUNICAZIONI OTTICHE E SISTEMI DI SENSORI. NANOSTRUTTURE AUTO ASSEMBLATE PER LA FOTONICA.

RELATORE SU INVITO A  
CONGRESSI E SCUOLE

HA TENUTO OLTRE 30 RELAZIONI SU INVITO A CONGRESSI E A SCUOLE NAZIONALI ED INTERNAZIONALI

1. "PHOTONIC INTEGRATION BASED ON LIQUID CRYSTALS FOR LOW POWER APPLICATIONS", INVITED LECTURE IN THE FRAME OF OSA TRAVELING LECTURE PROGRAM AT INTERNATIONAL CONFERENCE ON "OPTICAL AND WIRELESS TECHNOLOGIES", AT MALAYVIA NATIONAL INSTITUTE TECHNOLOGY FEBRUARY 10-11, 2018 AND AT MANIPAL UNIVERSITY, FEBRUARY 13 2018, JAIPUR, INDIA.
2. "PHOTONIC DEVICES, OFET, PHOTOVOLTAICS," INVITED LECTURE AT 23RD COURSE OF THE INTERNATIONAL SCHOOL OF LIQUID CRYSTALS TITLED "LIQUID CRYSTAL MODELLING AND SIMULATION: A COMPREHENSIVE INTRODUCTION," IN COLLABORATION WITH CECAM (CENTRE EUROPÉEN DE CALCUL ATOMIQUE ET MOLÉCULAIRE) AT "ETTORE MAJORANA CENTRE" IN ERICE, ITALY, 14-18, JULY 2017.
3. "LIQUID CRYSTALS AND HYBRID PHOTONIC INTEGRATION: MATERIALS, PROPERTIES, TECHNOLOGIES, DEVICES", 22ND COURSE OF THE INTERNATIONAL SCHOOL OF LIQUID CRYSTALS IN COLLABORATION WITH SICL AND IEEE PHOTONIC SOCIETY ITALY CHAPTER ON "PHOTONICS INTEGRATION: MATERIALS, PROPERTIES, TECHNOLOGIES AND DEVICES", ERICE, SEPTEMBER 25<sup>TH</sup>- OCTOBER 1<sup>ST</sup>, 2016.
4. "LC:PDMS OPTICAL WAVEGUIDES: A NEW PROPOSAL FOR FLEXIBLE PHOTONICS", INTERNATIONAL WORKSHOP ON LIQUID CRYSTAL PHOTONICS, LJUBLJANA, SLOVENIA, SEPTEMBER 14-16, 2016.
5. "INTEGRATED OPTICS BASED ON LIQUID CRYSTALS EMBEDDED IN PDMS MICROFLUIDIC CHANNELS", PROGRESS IN ELECTROMAGNETICS RESEARCH SYMPOSIUM, SHANGHAI, CHINA, AUGUST 8-11, 2016.
6. "MICROFLUIDICS USING PDMS AND LIQUID CRYSTALS: FABRICATION TECHNOLOGY AND DEVICES", 8TH JOINT MEETING JAPANESE LIQUID CRYSTAL SOCIETY AND ITALIAN LIQUID CRYSTAL SOCIETY, KYOTO, JAPAN, JULY 5-7, 2016.
7. "RECENT ADVANCES OF LIQUID CRYSTAL APPLICATIONS: FROM NOVEL ELECTRO-OPTIC DEVICES TO SYSTEMS", 11<sup>TH</sup> CONGRESSO NAZIONALE SOCIETÀ ITALIANA CRISTALLI LIQUIDI, PORTONOVO (AN), 22-23 JUNE 2016.
8. "LIQUID CRYSTALS OPTICAL WAVEGUIDES IN POLY(DIMETHYLSILOXANE) MICROCHANNELS: FABRICATION AND OPTICAL TRANSMISSION PROPERTIES", 12TH MEDITERRANEAN WORKSHOP AND TOPICAL MEETING "NOVEL OPTICAL MATERIALS AND APPLICATIONS", CETRARO - ITALY, JUNE 7 - 13, 2015.
9. "LIQUID CRYSTAL WAVEGUIDE TECHNOLOGIES FOR A NEW GENERATION OF LOW POWER PHOTONIC INTEGRATED CIRCUITS", SPIE PHOTONICS WEST, EMERGING LIQUID CRYSTAL TECHNOLOGIES X, SAN FRANCISCO CA USA, FEBRUARY 9-11, 2015.
10. "LIQUID CRYSTAL CHANNEL WAVEGUIDES FOR OPTOFLUIDIC APPLICATIONS", 7TH JOINT MEETING JAPANESE LIQUID CRYSTAL SOCIETY AND ITALIAN LIQUID CRYSTAL SOCIETY, RAVENNA JULY 7-10, 2014.
11. "TUNEABLE OPTICAL FILTERING TECHNIQUES IN WAVEGUIDES USING LIQUID CRYSTALS AND COMPOSITES ", 2<sup>ND</sup> ITALIAN BRASILIAN WORKSHOP ON LIQUID CRYSTALS, 14<sup>TH</sup> - 18<sup>TH</sup> OCTOBER 2013, MACEIÓ – BRAZIL.
12. "RESONANT MICRO- AND NANO-STRUCTURED PHOTONIC DEVICES BASED ON COMPOSITE MATERIALS", 11TH MEDITERRANEAN WORKSHOP AND TOPICAL MEETING "NOVEL OPTICAL MATERIALS AND APPLICATIONS", CETRARO - ITALY, JUNE 10 - 15, 2013.
13. "WAVEGUIDED OPTICAL REFLECTORS USING LIQUID CRYSTALS AND COMPOSITES", 3<sup>RD</sup> INTERNATIONAL WORKSHOP ON LIQUID CRYSTALS FOR PHOTONICS, HONG KONG, DECEMBER 9-11, 2012.
14. "TUNEABLE OPTICAL FILTERING TECHNIQUES IN WAVEGUIDES USING LIQUID CRYSTALS AND COMPOSITES " 2012 1<sup>ST</sup> ITALIAN BRASILIAN WORKSHOP ON LIQUID CRYSTALS, ERICE AUGUST 26-30, 2012.
15. "ALL-OPTICAL SWITCHING AND FILTERING BASED ON LIQUID CRYSTALS AND PHOTSENSITIVE COMPOSITE ORGANIC MATERIALS", 6TH JOINT MEETING JAPANESE LIQUID CRYSTAL SOCIETY AND ITALIAN LIQUID CRYSTAL SOCIETY, TOKIO, JAPAN 25-27 JULY 2012.
16. "LIQUID CRYSTAL WAVEGUIDE DEVICES", IEEE WORKSHOP OF FIBER OPTICS AND PASSIVE COMPONENTS, MONTREAL, CANADA 13-15 JULY 2011.
17. "ALL-OPTICAL GUIDED WAVE STRUCTURES BASED ON LIQUID CRYSTALS AND PHOTSENSITIVE COMPOSITE ORGANIC MATERIALS", 10TH MEDITERRANEAN WORKSHOP AND TOPICAL MEETING "NOVEL OPTICAL MATERIALS AND APPLICATIONS", CETRARO - ITALY, JUNE 6 - 10, 2011.
18. "LINEAR AND NONLINEAR LC OPTICAL WAVEGUIDES FOR LOW POWER PHOTONICS", INTERNATIONAL WORKSHOP ON LIQUID CRYSTAL PHOTONICS, HONG KONG, 8-10 DECEMBER 2010.

19. "NONLINEAR SWITCHING OF NEAR INFRARED LIGHT IN LIQUID CRYSTAL ON SILICON CHANNEL WAVEGUIDES", *THE INTERNATIONAL SYMPOSIUM ON OPTICAL SCIENCE AND TECHNOLOGY SPIE 55TH ANNUAL MEETING, CONF. 7775, LIQUID CRYSTALS XIV, SAN DIEGO 2-6 AUGUST 2010. (PROC. OF SPIE. SAN DIEGO, CALIFORNIA (USA), 1 AUGUST 2010, VOL. 7775, P. 777510(1)-777510(10), BELLINGHAM:SPIE - THE INTERNATIONAL SOCIETY FOR OPTICS AND PHOTONICS., ISBN: 9780819482716, DOI: 10.1117/12.861763)*
  20. "LINEAR AND NONLINEAR LIGHT PROPAGATION IN LIQUID CRYSTAL ON SILICON WAVEGUIDES", *9TH MEDITERRANEAN WORKSHOP AND TOPICAL MEETING ON "NOVEL OPTICAL MATERIALS AND APPLICATIONS", CETRARO - ITALY, JUNE 5 - 9, 2009.*
  21. "INTEGRATED OPTIC DEVICES USING LIQUID CRYSTALS AND COMPOSITES ON GLASS AND SILICON PLATFORMS", *II INTERNATIONAL WORKSHOP ON LIQUID CRYSTAL FOR PHOTONICS, CAMBRIDGE, 21-23 JULY 2008.*
  22. "FUNCTIONAL HYBRID INTEGRATED OPTIC DEVICES USING LIQUID CRYSTALS AND COMPOSITES", *4TH JOINT MEETING JAPANESE LIQUID CRYSTAL SOCIETY AND ITALIAN LIQUID CRYSTAL SOCIETY, NARA, JAPAN 6-9 JULY 2008.*
  23. "PHOTONIC DEVICES USING LIQUID CRYSTALS AND COMPOSITES", *LECTURE ON "ADVANCES IN THE EXPERIMENTAL AND THEORETICAL TECHNIQUES FOR ANISOTROPIC FLUIDS" 14TH COURSE OF THE INTERNATIONAL SCHOOL OF LIQUID CRYSTALS, ERICE, 26 JULY 1 AUGUST 2007, DIRECTORS OF THE COURSE: P. PASINI AND C. ZANNONI.*
  24. "INTEGRATED OPTIC TUNEABLE FILTERS USING COMPOSITE MATERIAL HOLOGRAPHIC GRATINGS", *8TH MEDITERRANEAN WORKSHOP AND TOPICAL MEETING "NOVEL OPTICAL MATERIALS AND APPLICATIONS", CETRARO - ITALY, JUNE 4 - 8, 2007.*
  25. "NEMATIC LIQUID CRYSTAL CHANNEL WAVEGUIDES EMBEDDED IN SiO<sub>2</sub>/Si GROOVES", *WFOPC2005, 4TH IEEE/LEOS WORKSHOP ON FIBRES AND OPTICAL PASSIVE COMPONENTS, MONDELLO (PA), ITALY JUNE 22-24, 2005, PP. 275-280.*
  26. "OPTICAL INTEGRATED DEVICES USING SMECTIC AND NEMATIC LIQUID CRYSTALS: PROCESSING PHOTONS BY USING SOFT MATTER", *10TH INTERNATIONAL CONFERENCE ON FERROELECTRIC LIQUID CRYSTALS, FLC 2005, 12 17, SEPTEMBER 2005, STARE JABLONKI, POLAND.*
  27. "GUIDED WAVE OPTOELECTRONIC DEVICES USING LIQUID CRYSTALS AND COMPOSITE MATERIALS", *2ND JOINT MEETING JAPANESE LIQUID CRYSTAL SOCIETY AND ITALIAN LIQUID CRYSTAL SOCIETY, TSU, JAPAN 5-8 SEPTEMBER 2004.*
  28. "INTEGRATED OPTIC DEVICES USING LIQUID CRYSTALS: DESIGN AND FABRICATION ISSUES" *THE INTERNATIONAL SYMPOSIUM ON OPTICAL SCIENCE AND TECHNOLOGY SPIE 49TH ANNUAL MEETING, DENVER 2-6 AUGUST 2004. (PROC. OF SPIE LIQUID CRYSTALS VIII, INTERNATIONAL SYMPOSIUM OPTICAL SCIENCE AND TECHNOLOGY, SPIE'S 49TH ANNUAL MEETING. DENVER, CO (USA), 2-6 AUGUST 2004, VOL. 5518, P. 123-135, BELLINGHAM:SPIE, DOI: 10.1117/12.560034)*
  29. "GUIDED WAVE OPTICAL SWITCHES USING LIQUID CRYSTALS FOR HIGH CAPACITY COMMUNICATION SYSTEMS", *6TH MEDITERRANEAN WORKSHOP AND TOPICAL MEETING "NOVEL OPTICAL MATERIALS AND APPLICATIONS", CETRARO - ITALY, JUNE 8 - 13, 2003.*
  30. "LIQUID CRYSTAL DEVICES FOR PHOTONIC SWITCHING APPLICATIONS: STATE OF THE ART AND FUTURE DEVELOPMENTS", *LECTURE AT INTERNATIONAL SCHOOL OF LIQUID CRYSTALS I JOINT MEETING JAPANESE LIQUID CRYSTAL SOCIETY AND ITALIAN LIQUID CRYSTAL SOCIETY, ERICE, ITALY, 7-10 JULY 2002.*
  31. "LIQUID CRYSTAL BASED DEVICES FOR OPTICAL COMMUNICATION SYSTEMS" *BASIC APPLICATIONS OF LIQUID CRYSTALS IN OPTICAL COMMUNICATION TECHNOLOGIES, TUTORIAL IN THE FRAME OF OPTICS WITH LIQUID CRYSTAL INTERNATIONAL TOPICAL MEETING, SORRENTO, ITALY 30TH SEPTEMBER 2001 - 1ST OCTOBER 2001.*
  32. "DISPOSITIVI ELETTROOTTICI A CRISTALLO LIQUIDO FERROELETTRICO", *5° CONVEGNO NAZIONALE "STRUMENTAZIONE E METODI DI MISURA ELETTROOTTICI" ELETTROOTTICA '98, MATERA, 12-14 MAGGIO 1998.*
  33. "DEVICES FOR WAVELENGTH SWITCHING IN ALL-OPTICAL NETWORKS", *AT ADVANCED PHOTONICS MATERIALS FOR INFORMATION TECHNOLOGY, LOS ANGELES, CALIFORNIA, 27-28 JANUARY 1994 (SPIE PROCEEDINGS, VOL. 2144, 1994, PP. 20-31)*
- SICL 2004 VI CONGRESSO NAZIONALE DELLA SOCIETÀ ITALIANA DEI CRISTALLI LIQUIDI, ISCHIA 3-5 JUNE 2004.
  - II JOINT MEETING JAPANESE LIQUID CRYSTAL SOCIETY AND ITALIAN LIQUID CRYSTAL

PARTECIPAZIONE A COMITATI  
SCIENTIFICI DI CONGRESSI  
NAZIONALI ED INTERNAZIONALI

- SOCIETY, TSU, JAPAN, 5-8 SEPTEMBER 2004.
- 8TH EUROPEAN CONFERENCE ON LIQUID CRYSTALS, SESTO (BZ), ITALY, 27 FEBRUARY - 4 MARCH, 2005.
- 1ST INTERNATIONAL WORKSHOP ON LIQUID CRYSTAL FOR PHOTONICS, GHENT, BELGIUM, 26-28 APRIL 2006.
- 3RD JOINT MEETING JAPANESE LIQUID CRYSTAL SOCIETY AND ITALIAN LIQUID CRYSTAL SOCIETY, CASTIGLIONCELLO (LI), 5-7 JUNE 2006.
- 7TH NATIONAL MEETING SOCIETÀ ITALIANA DI CRISTALLI LIQUIDI, CASTIGLIONCELLO (LI), 7-9 JUNE 2006.
- 14TH COURSE: ADVANCES IN THE EXPERIMENTAL AND THEORETICAL TECHNIQUES FOR ANISOTROPIC FLUIDS 1ST SCHOOL OF THE ITALIAN LIQUID CRYSTAL SOCIETY ERICE, 26 JULY 1 AUGUST 2007, DIRECTORS OF THE COURSE: P. PASINI AND C. ZANNONI.
- 4TH JOINT MEETING JAPANESE LIQUID CRYSTAL SOCIETY AND ITALIAN LIQUID CRYSTAL SOCIETY, NARA, JAPAN 6-9 JULY 2008.
- 2ND INTERNATIONAL WORKSHOP ON LIQUID CRYSTAL FOR PHOTONICS, CAMBRIDGE, UK, 21-23 JULY 2008.
- 5TH JOINT MEETING JAPANESE LIQUID CRYSTAL SOCIETY AND ITALIAN LIQUID CRYSTAL SOCIETY, CETRARO, ITALY 6-9 JULY 2010.
- CO-CHAIRMAN, 6TH JOINT MEETING JAPANESE LIQUID CRYSTAL SOCIETY AND ITALIAN LIQUID CRYSTAL SOCIETY, TOKIO, JAPAN 25-27 JULY 2012.
- DIRECTOR OF THE 2ND SCHOOL OF THE ITALIAN LIQUID CRYSTAL SOCIETY (SICL) 18TH COURSE OF INTERNATIONAL SCHOOL OF LIQUID CRYSTALS HELD IN ERICE (ITALY) FROM THE 3RD TO THE 10TH OF JULY, 2011.
- CHAIRMAN OF THE SCIENTIFIC COMMITTEE OF THE 10TH ITALIAN LIQUID CRYSTAL SOCIETY MEETING, ROME 21-23 JUNE 2012.
- CHAIRMAN OF THE SCIENTIFIC COMMITTEE OF THE 1ST ITALIAN BRASILIAN WORKSHOP ON LIQUID CRYSTALS ERICE 26-30 AUGUST 2012.
- CHAIRMAN OF THE SCIENTIFIC COMMITTEE OF THE 11TH ITALIAN LIQUID CRYSTAL SOCIETY MEETING, RAVENNA 9-10 JULY 2014.
- CHAIRMAN OF THE 7TH JOINT MEETING JAPANESE LIQUID CRYSTAL SOCIETY AND ITALIAN LIQUID CRYSTAL SOCIETY, CETRARO, ITALY 7-8 JULY 2014.
- CHAIRMAN OF THE 5TH INTERNATIONAL WORKSHOP ON LIQUID CRYSTAL FOR PHOTONICS, ERICE, ITALY 2-7 SEPTEMBER 2014.
- DIRECTOR, 22ND COURSE OF THE INTERNATIONAL SCHOOL OF LIQUID CRYSTALS IN COLLABORATION WITH SICL AND IEEE PHOTONIC SOCIETY ITALY CHAPTER ON "PHOTONICS INTEGRATION: MATERIALS, PROPERTIES, TECHNOLOGIES AND DEVICES", ERICE, SEPTEMBER 25<sup>TH</sup>- OCTOBER 1<sup>ST</sup>, 2016.
- CO-CHAIRMAN 11° CONGRESSO NAZIONALE SOCIETÀ ITALIANA CRISTALLI LIQUIDI, PORTONOVO (AN), 22-23 JUNE 2016.
- CHAIRMAN OF THE SCIENTIFIC COMMITTEE OF THE 2ND ITALIAN BRASILIAN WORKSHOP ON LIQUID CRYSTALS (AN), 20-21 JUNE 2016.
- CO-CHAIRMAN, 8TH JOINT MEETING JAPANESE LIQUID CRYSTAL SOCIETY AND ITALIAN LIQUID CRYSTAL SOCIETY, KYOTO, JAPAN, JULY 5-7, 2016.
- 6<sup>TH</sup> INTERNATIONAL WORKSHOP ON LIQUID CRYSTAL PHOTONICS, LJUBLJANA, SLOVENIA, SEPTEMBER 14-16, 2016.
- 9TH JOINT MEETING JAPANESE LIQUID CRYSTAL SOCIETY AND ITALIAN LIQUID CRYSTAL SOCIETY, PAVIA, , SEPTEMBER 17-18 2018.
- 11° CONGRESSO NAZIONALE SOCIETÀ ITALIANA CRISTALLI LIQUIDI, PAVIA, , SEPTEMBER 19-20 2018.
- 7<sup>TH</sup> INTERNATIONAL WORKSHOP ON LIQUID CRYSTAL PHOTONICS, POLAND, SEPTEMBER 18-20, 2018.

**Selected journal publications**

- [J1] R. Asquini, C. Chiccoli, P. Pasini, L. Civita, A. d'Alessandro, "Low power photonic devices based on electrically controlled nematic liquid crystals embedded in poly(dimethylsiloxane)", *Liquid Crystals*, 2018 (published online), DOI: [10.1080/02678292.2018.1494342](https://doi.org/10.1080/02678292.2018.1494342).
- [J2] R. Zafar, S. Nawaz, G. Singh, A. d'Alessandro, M. Salim, "[Plasmonics-Based Refractive Index Sensor for Detection of Hemoglobin Concentration](#)", *IEEE Sensors Journal*, Vol. 18, Issue 11, 1 June 2018, Pages 4372-4377. ISSN: 1530437X, DOI: 10.1109/JSEN.2018.2826040.
- [J3] A. d'Alessandro, R. Asquini, C. Chiccoli, P. Pasini, C. Zannoni, "Liquid crystal channel waveguides: A computer simulation of the application of transversal external fields", *Molecular Crystals and Liquid Crystals*, vol. 649 no. 1, pp. 79-85, 2017. ISSN: 15421406, doi: [10.1080/15421406.2017.1303597](https://doi.org/10.1080/15421406.2017.1303597).
- [J4] K. A. Rutkowska, T. R. Wolinski, R. Asquini, L. Civita, L. Martini, A. d'Alessandro, "Electrical tuning of the LC:PDMS channels", *Photonics Letters of Poland*, vol. 9, no. 2, 2017, pp 48-50, ISSN: 20802242, DOI: 10.4302/plp.v9i2.720.
- [J5] A. d'Alessandro, L. Martini, G. Gilardi, R. Beccherelli, R. Asquini, "Polarization-Independent Nematic Liquid Crystal Waveguides for Optofluidic Applications," *IEEE Photonics Technology Letters*, vol. 27, no. 15, pp. 1709-1712, 2015, ISSN: 10411135, doi: [10.1109/LPT.2015.2438151](https://doi.org/10.1109/LPT.2015.2438151)
- [J6] R. Asquini, L. Civita, L. Martini, A. d'Alessandro, "[Design of Optical Directional Couplers Made of Polydimethylsiloxane Liquid Crystal Channel Waveguides](#)," *Molecular Crystals and Liquid Crystals*, vol. 619 no. 1, pp. 12-18, 2015. ISSN: 15421406, doi: 10.1080/15421406.2015.1091153.
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**Selection of peer-review and invited papers in international conference proceedings**

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