Curriculum Vitae – Valerio Pruneri – updated June 2023

ICREA Prof., Corning Inc. Chair, Group Leader of Optoelectronics group (currently about 30 members, including PhD students, post docs and research engineers).

ICFO – The Institute of Photonic Sciences, Castelldefels (Barcelona), Spain

In brief

- Since 2006, ICREA Industrial Professor, Corning Inc. chair and group leader at ICFO. Prior to ICFO, from 2000 to 2006, he had worked in industry for Avanex Corp. (formerly Corning Optical Technologies Italia). Since 2010 he has regularly visited Corning Inc. in USA, for a cumulative period of more than 2 years.
- Current research topics: photonic engineering, quantum technologies and nano-photonics: quantum communication, quantum imaging, quantum random number generation, photonics sensing of particles and micro-organisms, also using artificial intelligence, and multifunctional nano-structured surfaces, also using ultrathin metal.
- More than 50 R&D projects, mostly as coordinator or principal investigator, funded by national and international agencies (European Commission, Ministry of Research and Innovation, European Space Agency) or in collaboration with industries in Europe and USA, including Corning, Carl Zeiss, Oclaro, HP, ABB, IBM, SEAT/Volkswagen, BASF.
- Since 2015, coordinated 6 European projects (RAIS, QMIC, NANOGLASS, CIVIQ, LIM, QSNP). CIVIQ (2018-22) and QSNP (2023-2026) are Quantum Flagship, 10 and 25 M€, respectively.
- More than 65 granted or pending patent families, about 110 invited talks at international conferences and 190 refereed journal papers (including Nature, Science, Nature Photonics, Nature Materials, Nature Communications, Science Advances, etc…). Google h-index 62.
- Technology development, co-founder and board member of three spin-offs: Quside (www.quside.com), to commercialise integrated quantum random number generators for secure communication and high performance computation, Sixsenso (www.sixsenso.com), to commercialise image sensing systems for detection of micro-organisms in water and Luxquanta (www.luxquanta.com) to commercialize quantum cryptography systems.
- Supervised more than 20 PhD Thesis to completion. Three of them were awarded with top National, European and International Prizes (Cerca Pioneer Award, MIT Technology Review 35 and Photonics 21 European Student Innovation Award).
- More than 40 international conference committees; in particular, general and technical chair of the European Conference on Lasers and Electro-optics (CLEO Europe) 2017 and 2015 and technical/general chair of the European Conference on Integrated Optics (ECIO) 2012.
- For his research and technology transfer achievements: Pirelli Fellowship, Philip Morris Prize, IBM Faculty Award, Duran Farell Prize, Ignite award (SLAS Europe), Paul Ehrenfest Best Paper Award, Corning Professorship, National Award for creation of innovative company (Luxquanta).

Employment history

2006-	Industrial Prof. (ICREA), Corning Inc. Chair and ICFO Group Leader in Optoelectronics
2000-06	Head of Basic Research, Avanex Corp., now part of Lumentum and formerly Corning OTI (Corning Inc.) and Optical Technologies Italia (Pirelli), Italy.
1996-00	Senior Research Fellow and Research Fellow, Optoelectronics Research Centre – University of Southampton, UK.

Education

1993-96 PhD in Physics (Lasers and Optoelectronics) - Optoelectronics Research Centre, University of Southampton, UK.

1986-92 "Laurea" (Master) in Nuclear Engineering "cum laude" - Politecnico di Milano, Italy.

Prizes and fellowships

2023 National Prize for creation of new companies (Luxquanta based on technology developed by the group), Spain.

2022 Ignite award (SLAS Europe) for launchpad project Shinephi, Ireland.

2019 Cerca Pioneer Award (received by PhD student R. Terborg under V. Pruneri's supervision), Spain.

2018 Cerca Pioneer Award (received by PhD student C. Abellan under V. Pruneri's supervision), Spain.

2015 Paul Ehrenfest Best Paper Award, Institute for Quantum Optics and Quantum Information, Academy of Science, Austria.

2012- Corning Inc. Professorship, Corning Inc., USA.

2012 Duran Farell Prize for Technological Research, Spain.

2011 Photonics21 European Student Innovation Award 2011 (received by PhD student D. S. Ghosh under V. Pruneri's supervision), Europe.

2011 Special mention at the Barcelona International Motor Show Awards for the development of a Head-Up-Display (with Davide Janner and Daniel Infante), Internat. Motor Show.

2010 IBM Faculty award, IBM, USA.

2007-09 Fellow of I3 programme, Ministry of Science and Innovation, Spain.

1997 Philip Morris Prize, Philip Morris Int., Italy and USA.

1997-00 Pirelli Fellow in Photonics, Pirelli Cables and System, UK.

1993 PhD studentship for post-graduate studies abroad, Politecnico di Milano, Italy.

1987-91 "Ing. C. Cami" studentship for undergraduate excellence, Politecnico di Milano, Italy.

Advisory boards and other honours

2021- Co-founder and board member of Luxquanta Tech. (www.luxquanta.com)

2020- Co-founder and board member of Sixsenso Tech. (www.sixsenso.com)

2017- Co-founder and board member of Quside Tech. (www.quside.com)

2017 Technical advisor of Medlumics (optical medical start-up which raised > 50 M€)

2016-22 Associate Editor of Optica (Optical Society of America)

2015 Advisory board member of B-able (high technology seed capital), Spain.

2013-20 European Quantum Electronics Division (QEOD) board member, European Physical Society.

2011- Advisory board member of VLC Photonics.

2009-13 Chair of Photonics panel of the National Evaluation and Foresight Agency, Ministry of Science and Innovation.

2009- Advisor of SPIE student chapter at ICFO.

Major scientific achievements and technical innovations

- The first high TRL continuous variable QKD system for quantum-safe cryptography. Evidence: *National Prize for creation of new companies* and spin-off *luxquanta* incorporated 2021 now employing about 20 people.
- The highest bit rate and lowest latency quantum random number generator (QRNG) for secure communication and high performance computing. Evidence: *Paul Ehrenfest Best Paper Award* to three landmark experiments at NIST, IQOQI (Vienna) and TU Delft. Also, spin-off *quside* incorporated in 2017 now employing about 40 people.
- Lens free imaging technology: scatterometer, image cytometer and interferometric reader for material inspection, particle analysis, micro-organism counting and biomarkers detection. Evidence: Spin-off s*ixsenso* incorporated in 2020 now employing 4 people, *Ignite award (SLAS Europe), PhD student Cerca Pioneer Award.*
- Multifunctional nano-structured surface for display screens on transparent and durable substrates. Evidence *Corning Inc. Chair/Professorship*.
- The highest figure of merit transparent conductors based on ultrathin metals and their use in energy efficient devices. Evidence: *IBM Faculty Award* and *PhD student Photonics 21 European Innovation Award*.
- Integrated head-up display for cars using nano-structured surfaces and laser projection. Evidence: *Duran Farell Prize for Technological Research*.
- Low driving voltage domain inverted and single RF/DC section integrated lithium niobate modulators (industry product development).
- A tunable laser for dense wavelength division multiplexing capable of covering L and C bands (industry product development).
- The highest conversion efficiencies (to that date) in micro-structured poled crystals and optical fibres for second harmonic generation and optical parametric generation. Evidence: *Pirelli Research Fellowship*.
- Among the first demonstrations of pulsed optical frequency conversion using quasi-phase-matching. Evidence: *Philip Morris Prize*.

Selection of 10 recent projects and funding (In total >70 projects, a significant portion directly sponsored by industry. More than 15 M€ competitive and private funding since 2015).

1. Reference: 101080116. Title: Quantum Secure Networks Partnership (QSNP). Funding body: European Commission (HORIZON-FPA-SGA). PI: Valerio Pruneri, ICFO. Start and end date: 01/03/2023-31/08/2026. Grant amount: 2.051.553€. Participation: Coordinator

2. Reference: 101082596. Title: Quantum devices and subsystems for communications in space (QUDICE). Funding body: European Commission (HHORIZON-CL4-2021-SPACE-01). PI: Valerio Pruneri, ICFO. Start and end date: 01/01/2023-31/05/2025. Grant amount: 613.915€. Participation: Principal Investigator

3. Reference: 956419. Title: Nano-structured glass for future display and communication technologies (NANO-GLASS). Funding body: European Commission (H2020-MSCA-ITN-2020). PI: Valerio Pruneri, ICFO. Start and end date: 01/03/2021-28/02/2025. Grant amount: 1.003.620€. Participation: Coordinator

4. Reference: Nº 820466, Title: Continuous Variable Quantum Communications (CiViQ), Funding body: FET Quantum Technologies Flagship (H2020-EU.1.2.3.), European Commission, Start and end date: 01/10/2018-30/09/2021, Grant amount: 1.158.320€, Participation: Coordinator.

5. Reference: Nº 820405, Title: Quantum Random Number Generators: cheaper, faster and more secure (QRANGE). Funding body: FET Quantum Technologies Flagship (H2020-EU.1.2.3.), European Commission, Start and end date: 01/10/2018-30/09/2021, Grant amount: 443.750€, Participation: Principal Investigator.

6. Reference: Nº 801060, Title: Quantum-enhanced on-chip interference microscopy (Q-MIC), Funding body: FET-OPEN Research and Innovation Actions (H2020-EU.1.2.1.), European Commission, Start and end date: 01/10/2018-30/09/2021, Grant amount: 750.367€, Participation: Coordinator.

7. Reference: Nº 642356, Title: Integrated and portable image cytometer for rapid response to Legionella and Escherichia coli in industrial and environmental waters (CYTO-WATER), Funding body: H2020-WATER-2014-two-stage, European Commission, Start and end date: 01/06/2015-31/05/2018, Grant amount: 424.700 € Participation: Principal Investigator

8. Reference: 644956 Title: Scalable, point-of-care and label free microarray platform for rapid detection of Sepsis (RAIS) Funding body: European Commission, H2020-ICT- 26 PI: Valerio Pruneri, ICFO. Start and end date: 01/01/2015-31/12/2017 Grant amount: 658.255 €, Participation: Coordinator

9. Reference: PID2019-106892RB-I00. Title: Tunable Surfaces for Optical Imaging (TUNASURF). Funding body: MICIU (Proyectos I+D+i 2019). PI: Valerio Pruneri, ICFO. 01/06/2020-31/05/2023. Grant amount: 256.036 €. Participation: Coordinator

10. Corning Lab and Chair program; Corning Inc.; 09/10/12 – 31/08/27, Coordinator. Value: confidential.

Selection of 10 recent patent families (in total 66 granted, pending or filed patent families)

1. **V. Pruneri**, R. Terborg, M. Jofre, P. Martinez, "Apparatus for exploring an optical property of a sample", WO2018ES70372.

2. **V. Pruneri** and R. Camphausen, "Optical endoscope", WO2017ES70787.

3. **V. Pruneri**, C. Abellan, W. Amaya and M. Mitchell, "Method for physical random number generation using a vertical cavity surface emitting laser", WO2017ES70734.

4. **V. Pruneri** and M.A. Noyan, "Displacing matter", WO2017US28090.

5. **V. Pruneri**, C. Abellan, W. Amaya and M. Mitchell, "Process for quantum random number generation in multimode laser cavity", EP3369148 (B1), JP2019500707 (A), US2017115960 (A1).

6. **V. Pruneri** and R. Maniyara, "Transparent and electrically conductive coatings containing non-stoichiometric metallic nitrides", US201615371904.

7. **V. Pruneri**, P. Martinez and M. Jofre, "Apparatus for measuring light scattering", US9857300 (B2), EP2905605 (A1).

8. **V. Pruneri**, F. Koppens, D. Janner and F. Gatti, "Electronic platform comprising an ABO3 crystal and graphene, method for its manufacture and chip comprising the same", US9548435 (B2), EP2898550 (B1).

9. **V. Pruneri**, M. Jofre and J.M. Perez Rosas, "Image cytometer for characterization and quantification of particulate samples", US10346972 (B2), CN106066315 (B), EP3086155 (A1).

10. **V. Pruneri**, N. Formica and D.S. Ghosh, "Transparent electrode and substrate for optoelectronic or plasmonic applications comprising silver", EP2973728 (B1), WO2014140297 (A1).

Selection of 10 recent journal publications (in total 190)

1. Camphausen, R ; Cuevas, A; Duempelmann, L ; **Pruneri, V**, "A quantum-enhanced wide-field phase imager", *Science Advances* **7**, DOI: 10.1126/sciadv.abj2155 (2021).
2. R. Hussain, M. Alican Noyan, G. Woyessa, R. R. Retamal Marín, P. Antonio Martinez, F. M. Mahdi, V. Finazzi, T. A. Hazlehurst, T. N. Hunter, T. Coll, M. Stintz, F. Muller, G. Chalkias, **V. Pruneri**, "An ultra-compact particle size analyser using a CMOS image sensor and machine learning" *Nature Light Science & Applications* **9**, 21 (2020).

3. R. A. Maniyara, D. Rodrigo, R. Yu, J. Canet-Ferrer, D. S. Ghosh, R. Yongsunthon, D. E. Baker, A. Rezikyan, F. J. García de Abajo, **V. Pruneri**, "Tunable plasmons in ultrathin metal films", *Nature Photonics* **13**, 328 (2019).

4. 4. F. Yesilkoy, R.A. Terborg, J. Pello, A. Belushkin, Y. Jahani, **V. Pruneri*** and H. Altug* (*corresponding authors), "Phase-sensitive plasmonic biosensor using a portable and a large field-of-view interferometric imager", *Nature Light Science & Applications* **7**, 17152 (2018).

5. R. Abraham Maniyara, V.K. Mkhitaryan, T.L. Chen, D.S. Ghosh and **V. Pruneri**, "An antireflection transparent conductor with ultralow optical loss and electrical resistance", *Nature Communications* **7**, 13771 (2016).

6. R. A. Terborg, J. Pello, I. Mannelli, J. P. Torres and **V. Pruneri**, "Ultrasensitive interferometric on-chip microscopy of transparent objects", *Science Advances* **2**, e1600077 (2016).

7. C. Abellan, W. Amaya, D. Domenech, P. Muñoz, J. Capmany, S. Longhi, Morgan W. Mitchell, **V. Pruneri**, "Quantum entropy source on an InP photonic integrated circuit for random number generation", *Optica* **3**, 989 (2016).

8. D. Rodrigo, O. Limaj, D. Janner, D. Ttezadi, F. J. Garcia de Abajo, **V. Pruneri** and H. Altug, "Mid-Infrared Plasmonic Biosensing with Graphene", *Science* **349**, 165 (2015).

9. B. Hensen et al., "Loophole-free Bell inequality violation using electron spins separated by 1.3 km", *Nature* **526**, 682 (2015).

10. P. Mazumder, Y. Jiang, D. Baker, A. Carrilero, D. Tulli, D. Infante, A. T. Hunt and **V. Pruneri**, "Superomniphobic, transparent, and antireflection surfaces based on hierarchical nanostructures", *Nano Letters* **14**, 4677 (2014).

Selection of 10 recent invited presentations at international conferences (in total 110)

1. European Conference on Optical Communication (ECOC), Basel, Switzerland, Sep 2022.

2. Next Generation Quantum Networking Workshop, Bristol, UK, April 2021.

3. European Quantum Weeek, Berlin, Germany, 2021.

4. Materials Research Society (MRS) Fall Meeting, Boston, USA, December 2019.

5. Frontiers in Optics 2019, Washington DC, USA, September 2019.

6. SPIE Nanoscience + Photonics - Quantum Nanophotonic Materials, Devices, and Systems 2019, San Diego, USA, August 2019.

7. European Conference on Integrated Optics (ECIO), Ghent University, Belgium, April 2019.

8. OSA Integrated Photonics Research, Silicon and Nanophotonics, Zürich, Switzerland, July 2018.

9. The 3rd Australian New Zealand Conference on Optics (ANZCOP), Queenstown, New Zeland, December 2017.

10. Cleo Pacific Rim, OECC & PGC, Singapore, July-August 2017.

Selection of international conference committees (in total >40)

- *Technical/General co-chair*: European Conference on Lasers and Electro-optics (CLEO Europe) 2017 and 2015.
- *Technical /General chair*: European Conference on Integrated Optics (ECIO) 2012.
- *Member of steering/technical committee:* ECIO 2012, 2010, 2008, 2007, 2005 and 2003.
- *Technical committee member:* European Conference on Optical Communication (ECOC) 2016, 2015, 2014, 2013, 2012, 2011, 2010, 2009 and 2008.

Student supervision and teaching

Supervised about 30 PhD students with more than 20 to completion, more than 50 Master students and taught courses in Optoelectronics and Photonics at Master level. The following **PhD thesis** were defended at ICFO under V. Pruneri's supervision since 2006:

1. Mid-Infrared Surface Sensing Based on Two-Dimensional Materials, N. Bareza
2. Quantum enhanced imaging with SPAD-array cameras, R. Camphausen
3. Imaging cytometry technology for environmental and biomedical applications, J. M. Pérez Rosas
4. Multifunctional optical surfaces for optoelectronic devices, J. Rombaut
5. Detection of particles, bacteria and viruses using consumer optoelectronic components, R.B. Hussein
6. Interactions and optical properties of microorganisms on surfaces, R. Sibilo
7. Nano-structured transparent conductors for the optoelectronics industry, R. Maniyara
8. Lens-free intererometric microscope for transparent materials, R. A. Terborg
9. Optical surfaces for mid-infrared sensing, K. K. Gopalan
10. Quantum random number generators for industrial applications, C. Abellán
11. Scalable techniques for graphene on glass, M. Marchena Martín-Francés
12. Nanophotonics of ultrathin films and 2D periodic structures: A combined experimental and theoretical study, V. Mkhitaryan
13. Self-cleaning optical surfaces for the inkjet and 3d printing industry, M. A. Noyan
14. Micro-nano structured optical devices using $Ge_2Sb_2Te_5$, M. Rudé
15. Sources of photonic entanglement for applications in space, F. Steinlechner
16. Mechanically flexible transparent conductors based on ultrathin metallic layers, N. Formica
17. Integrated photonic transmitters for secure space quantum communication, M. Jofre
18. Ultrathin metal transparent electrodes for the optoelestronics industry, D. S. Ghosh
19. Micro-structured ferroelectric superlattice for efficient acousto-optic devices, D. Yudistira
20. Micro-nano structured electro-optic devices in LiNbO3 for communication and sensing, D. Tulli

List of patents and publications

Granted or pending patent families: 66

Journal papers: 190

h-index: 61 (Google Scholar); 50 (Web of Science)

Invited or keynote talks at Conferences: 110

Regular contributions (oral or poster) at Conferences: 144

Granted or pending patent families (Note: 5 unpublished patent applications are not listed below).

	Title	Publication date	Inventor(s)	Priority number(s)
1	GLASS ARTICLE COMPRISING N-DOPED GRAPHENE	09/02/2023	BHATTACHARYYA INDRANI,[US]; MARCHENA MARTIN-FRANCES MIRIAM,[ES]; MAZUMDER PRANTIK,[US]; PRUNERI VALERIO,[ES]	US202163228825P 20210803
2	TRANSPARENT ARTICLE WITH A BODY AND METAL OXIDE DISPOSED DIRECTLY ON THE BODY, FACILITATING DEPOSITION OF AN ELECTRICALLY CONDUCTIVE AND TRANSPARENT ULTRA-THIN METAL FILM OF A NOBLE METAL, AND METHOD OF FORMING THE SAME	01/12/2022	MANIYARA RINU ABRAHAM,[US]; CERCOS DANIEL MARTINEZ,[ES]; MAZUMDER PRANTIK,[US]; PAULILLO BRUNO,[ES]; PRUNERI VALERIO,[ES]	US202163194286P 20210528; US202217752958 20220525
3	Opto-Fluidic Apparatus for Individual Interrogation of Organisms	09/06/2022	PRUNERI VALERIO,[ES]; JOFRE MARC,[ES]; MARTÃ• NEZ CORDERO PEDRO ANTONIO,[ES]	WO2019ES70270 20190418
4	ANTI-REFLECTIVE TRANSPARENT OLEOPHOBIC SURFACES AND METHODS OF MANUFACTURING THEREOF	09/06/2022	MAZUMDER PRANTIK,[US]; PRUNERI VALERIO,[ES]; ROMBAUT JUAN,[ES]	US201962832410P 20190411; US202017601505 20200331; WO2020US25880 20200331
5	DIRECT GRAPHENE TRANSFER AND GRAPHENE-BASED DEVICES	31/03/2022	ARLIGUIE THERESE FRANCOISE,[US]; CHANG THERESA,[US]; MARTÃ• N-FRANCES MIRIAM MARCHENA,[ES]; MAZUMDER PRANTIK,[US]; PRUNERI VALERIO,[ES]; WAGNER FREDERIC CHRISTIAN,[US]	US201762587840P 20171117; WO2018US61518 20181116; US202016763479 20200512; US202117546488 20211209
6	SILICON AND SILICA NANOSTRUCTURES AND METHOD OF MAKING SILICON AND SILICA NANOSTRUCTURES	31/03/2022	CARRILERO ALBERT,[ES]; MAZUMDER PRANTIK,[US]; PRUNERI VALERIO,[ES]	US201462020027P 20140702; US201514750047 20150625; US202016891606 20200603; US202117545493 20211208
7	GENERATION OF OPTICAL PULSES WITH CONTROLLED DISTRIBUTIONS OF QUADRATURE VALUES	17/03/2022	ETCHEVERRY CABRERA SEBASTIAN,[ES]; RAMANA RAJU VALIVARTHI VENKATA,[ES]; PRUNERI VALERIO,[ES]	EP20190382139 20190227; WO2020EP55107 20200227
8	IDENTIFYING 3D OBJECTS	16/06/2022	PRUNERI VALERIO,[ES]; NOYAN MEHMET ALICAN,[ES]; GRUDININ ANATOLY,[ES]	EP20200383072 20201209

9	APPARATUS FOR EXPLORING AN OPTICAL PROPERTY OF A SAMPLE	25/11/2021	PRUNERI VALERIO,[ES]; TERBORG ROLAND ALFONSO,[ES]; PELLO JOSSELIN,[ES]; JOFRE MARC,[ES]; MARTINEZ PEDRO,[ES]	WO2018ES70372 20180523
10	GRAPHENE DOPING BY THERMAL POLING	11/11/2021	MARCHENA MARTÃ• N-FRANCES MIRIAM,[ES]; MAZUMDER PRANTIK,[US]; PRUNERI VALERIO,[ES]	US201917285322 20191009; US201862747219P 20181018; WO2019US55288 20191009
11	TRANSPARENT SUBSTRATES COMPRISING THREE-DIMENSIONAL POROUS CONDUCTIVE GRAPHENE FILMS AND METHODS FOR MAKING THE SAME	21/10/2021	LI CONNIE,[US]; LIU XINYUAN,[US]; MARTÃ• N-FRANCÃS MIRIAM MARCHENA,[ES]; PRUNERI VALERIO,[ES]; SENARATNE WAGEESHA,[US]; SONG ZHEN,[US]; SONI KAMAL KISHORE,[US]	US201662311063P 20160321; WO2017US23343 20170321; US201816350090 20180921; US202117359739 20210628
12	METHOD FOR PHYSICAL RANDOM NUMBER GENERATION USING A VERTICAL CAVITY SURFACE EMITTING LASER	15/07/2021	PRUNERI VALERIO,[ES]; ABELLAN SANCHEZ CARLOS,[ES]; AMAYA WALDIMAR,[ES]; MITCHELL MORGAN,[ES]	WO2017ES70734 20171106
13	A METHOD AND A DEVICE FOR CARRIER RECOVERY	29/09/2022	GHASEMI SAEED,[ES]; ETCHEVERRY SEBASTIÃ• N,[ES]; PRUNERI VALERIO,[ES]	EP20210382228 20210322
14	TRANSPARENT CONDUCTOR MATERIALS WITH ENHANCED NEAR INFRARED PROPERTIES AND METHODS OF FORMING THEREOF	01/04/2021	MANIYARA RINU,[ES]; MAZUMDER PRANTIK,[US]; PRUNERI VALERIO,[ES]	US202017038991 20200930; US201962908079P 20190930
15	POLYPROPYLENE (PP) MEMBRANE COATED WITH AN ORGANOMETHOXYSILANE, METHOD FOR MANUFACTURING SAME AND USES THEREOF	04/08/2022	PRUNERI VALERIO,[ES]; PÃ‰REZ CORONADO ANA MARIA,[ES]; ROMBAUT SEGARRA JUAN,[ES]; CORZO GARCÃ• A BEATRIZ,[ES]	WO2021ES70060 20210127
16	A NETWORK NODE, A TRANSMITTER AND A RECEIVER USING BOTH CV-QKD AND DV-QKD OVER AN OPTICAL FIBER NETWORK	30/06/2022	PRUNERI VALERIO,[ES]; ETCHEVERRY SEBASTIÃ• N,[ES]; LÃ“PEZ GRANDE IGNACIO,[ES]	EP20200383141 20201222
17	OPTICAL ENDOSCOPE	14/01/2021	PRUNERI VALERIO,[ES]; CAMPHAUSEN ROBIN,[ES]	EP20170840589 20171130; WO2017ES70787 20171130
18	ANTIREFLECTIVE MULTILAYER ARTICLE WITH NANOSTRUCTURES	22/06/2022	PRUNERI VALERIO,[ES]; ROMBAUT SEGARRA JUAN,[ES]; MAZUMDER PRANTIK,[US]	EP20200383093 20201215
19	TRANSPARENT ELECTRODE AND SUBSTRATE FOR OPTOELECTRONIC OR PLASMONIC APPLICATIONS COMPRISING SILVER	31/03/2020	PRUNERI VALERIO; FORMICA NADIA; GHOSH DHRITI SUNDAR	US201361782786P 20130314; WO2014EP55135 20140314
20	OPTICAL DEVICE FOR DETECTING FLUORESCENCE EMISSION	15/12/2021	PRUNERI VALERIO,[ES]; PÃ‰REZ ROSAS JUAN MIGUEL,[ES]; SIBILO RAFAÃ‹L,[ES]; HURTH CEDRIC,[ES]	WO2019ES70058 20190205
21	DISPLACING MATTER	25/10/2018	PRUNERI VALERIO,[ES]; NOYAN MEHMET ALICAN,[ES]	WO2017US28090 20170418
22	PROCESS FOR QUANTUM RANDOM NUMBER GENERATION IN MULTIMODE LASER CAVITY	31/07/2018	PRUNERI VALERIO; CABELLAN CARLOS; AMAYA WALDIMAR; MITCHELL MORGAN WILFRED	US201514923495 20151027; WO2016EP73099 20160928
23	TRANSPARENT AND ELECTRICALLY CONDUCTIVE COATINGS CONTAINING NON-STOICHIOMETRIC METALLIC	07/06/2018	PRUNERI VALERIO,[ES]; MANIYARA RINU ABRAHAM,[ES]	US201615371904 20161207

	NITRIDES			
24	TRANSPARENT AND ELECTRICALLY CONDUCTIVE COATINGS CONTAINING NITRIDES, BORIDES OR CARBIDES	07/06/2018	PRUNERI VALERIO,[ES]; MANIYARA RINU ABRAHAM,[ES]	US201615371904 20161207; US201715722493 20171002
25	APPARATUS FOR MEASURING LIGHT SCATTERING	31/05/2018	PRUNERI VALERIO,[ES]; MARTÃ• NEZ PEDRO A,[ES]; JOFRE MARC,[ES]	US201715844803 20171218; EP20140382043 20140206; US201514616062 20150206
26	TRANSFER OF MONOLAYER GRAPHENE ONTO FLEXIBLE GLASS SUBSTRATES	21/11/2017	JOHNSON BENEDICT YORKE; LIU XINYUAN; MAZUMDER PRANTIK; SONI KAMAL KISHORE; MARTIN FRANCES MIRIAM MARCHENA; PRUNERI VALERIO; CHEN TONG LAI	US201462095270P 20141222; WO2015US66027 20151216
27	Tunable light modulation using graphene	01/06/2017	PRUNERI VALERIO,[IT]; YU REN-WEN,[CN]; DE ABAJO FRANCISCO JAVIER GARCIA,[ES]	US201562128800P 20150305
28	IMAGE CYTOMETER FOR CHARACTERIZATION AND QUANTIFICATION OF PARTICULATE SAMPLES	08/12/2016	VALERIO PRUNERI; MARC JOFRE; JUAN MIGUEL PEREZ ROSAS	EP20150164853 20150423
29	METAL DEWETTING METHODS AND ARTICLES PRODUCED THEREBY	09/06/2016	BAKER DAVID EUGENE,[US]; CARBONELL CARME GOMEZ,[ES]; DAWSON-ELLI DAVID FRANCIS,[US]; MAZUMDER PRANTIK,[US]; PRUNERI VALERIO,[ES]; TIAN LILI,[US]	US201161564903P 20111130; US201213687208 20121128; US201615044330 20160216
30	ELECTRONIC PLATFORM COMPRISING AN ABO3 TYPE CRYSTAL AND GRAPHENE, METHOD FOR ITS MANUFACTURE AND CHIP COMPRISING THE SAME	20/08/2015	PRUNERI VALERIO,[ES]; KOPPENS FRANK,[ES]; JANNER DAVIDE,[ES]; GATTI FABIO,[ES]	ES20120031444 20120918; WO2013EP69351 20130918
31	ARTICLES WITH MONOLITHIC, STRUCTURED SURFACES AND METHODS FOR MAKING AND USING SAME	25/06/2015	HART SHANDON DEE,[US]; KOCH III KARL WILLIAM,[US]; TULLI DOMENICO,[ES]; MAZUMDER PRANTIK,[US]; PRUNERI VALERIO,[ES]; SACHENIK PAUL ARTHUR,[US]; TIAN LILI,[US]; OSMOND JOHANN,[ES]; CARRILERO ALBERT,[ES]	US201514625010 20150218; US201213687227 20121128; US201161565188P 20111130
32	Optically transparent support for obtaining bubble-free fluid-type specimens (Machine-translation by Google Translate, not legally binding)	07/04/2015	PRUNERI VALERIO,[IT]; MARTINEZ CORDERO PEDRO ANTONIO,[ES]; INFANTE GOMEZ DANIEL,[ES]	ES20130031446 20131002
33	OPTICALLY TRANSPARENT AND ELECTRICALLY CONDUCTIVE COATINGS AND METHOD FOR THEIR DEPOSITION ON A SUBSTRATE	02/10/2014	PRUNERI VALERIO,[ES]; CARRILERO ALBERT,[ES]; PETERS JAN-HENDRIK,[DE]	EP20110185280 20111014; WO2012EP70260 20121012
34	Compact optical measurement system with discretized plate (Machine-translation by Google Translate, not legally binding)	02/09/2014	PRUNERI VALERIO,[IT]; JANNER DAVIDE,[IT]; JOFRE CRUANYES MARC,[ES]	ES20130030270 20130227
35	TEXTURED SURFACES AND METHODS OF MAKING AND USING SAME	20/06/2013	CARRILERO ALBERT,[ES]; MAZUMDER PRANTIK,[US]; OSMOND JOHANN,[ES]; PRUNERI VALERIO,[ES]; SACHENIK PAUL ARTHUR,[US]; TIAN LILI,[US]	US201161565188P 20111130; US201213687227 20121128

36	FINGERPRINT-RESISTANT ARTICLES AND METHODS FOR MAKING AND USING SAME	13/06/2013	MAZUMDER PRANTIK,[US]; PRUNERI VALERIO,[ES]; QUESADA MARK ALEJANDRO,[US]; SENARATNE WAGEESHA,[US]; TIAN LILI,[US]	US201161568971P 20111209; US201213693379 20121204
37	Frontal display system with ghost image suppression (Machine-translation by Google Translate, not legally binding)	05/06/2013	PRUNERI VALERIO,[IT]; JANNER DAVIDE,[IT]; INFANTE GOMEZ DANIEL,[ES]	ES20110031704 20111024
38	TRANSPARENT ELECTRODE BASED ON COMBINATION OF TRANSPARENT CONDUCTIVE OXIDES, METALS AND OXIDES	26/12/2012	PRUNERI VALERIO,[IT]; GHOSH DHRITI SUNDAR,[IN]; CHEN TONG LAI,[CN]	ES20100030240 20100219; WO2011EP52199 20110215
39	ULTRAFAST QUANTUM RANDOM NUMBER GENERATION PROCESS AND SYSTEM THEREFORE	15/02/2013	PRUNERI VALERIO,[ES]; MORGAN MICHEL,[ES]; CRUNAYES MARC JOFRE,[ES]; ALONSO MARCOS CURTY,[ES]	ES20110031362 20110804
40	MULTILAYER METALLIC ELECTRODES FOR OPTOELECTRONICS	05/09/2012	PRUNERI VALERIO,[IT]; GHOSH DHRITI SUNDAR,[IN]; CHEN TONG LAI,[CN]	EP20090382238 20091103
41	METAL TRANSPARENT CONDUCTORS WITH LOW SHEET RESISTANCE	03/05/2012	PRUNERI VALERIO,[ES]; GHOSH DHRITI SUNDAR,[ES]	EP20090382079 20090526; WO2010EP57026 20100521
42	All-optical fiber interferometer	15/09/2011	JOEL VILLATORO AGUSTIN,[ES]; PRUNERI VALERIO,[ES]; BADENES GONCAL,[ES]	ES20070000008 20061226
43	Method to prepare a stable transparent electrode	22/06/2011	VALERIO PRUNERI; LUIS MARTINEZ MONTBLANCH; STEFANO GIURGOLA; PAOLO VERGANI	EP20080157959 20080610; WO2009EP57148 20090610
44	Optical parametric devices and methods for making same	12/09/2002	BRODERICK NEIL,[GB]; PRUNERI VALERIO,[IT]; RICHARDSON DAVID,[GB]; MONRO TANYA,[GB]	US20010986363 20011108; EP20000309948 20001109; US20000248093P 20001114
45	Fabrication of optical fibers incorporating volatile constituents	09/05/2002	BRAMBILLA GILBERTO,[GB]; PRUNERI VALERIO,[IT]	US20010978201 20011017; EP20000309166 20001018; US20000242070P 20001023
46	Method and structure of electric field poling of Ti indiffused LiNbO3 substrates without the use of grinding process	22/12/2005	PRUNERI VALERIO,[IT]; LUCCHI FEDERICO,[IT]; VERGANI PAOLO,[IT]	US20040871298 20040619
47	Electro-optic devices, including modulators and switches	01/04/2004	PRUNERI VALERIO,[IT]; BELMONTE MICHELE,[IT]; ORIO MASSIMO,[IT]	EP20020078982 20020926
48	Unipolar electrical to CSRZ optical converter	18/11/2004	MAURO JOHN C,[US]; MORASCA SALVATORE,[IT]; PRUNERI VALERIO,[IT]; RAGHAVAN SRIKANTH,[US]	US20030435981 20030512
49	Optical waveguides and devices including same	27/02/2003	BRAMBILLA GILBERTO,[GB]; PRUNERI VALERIO,[IT]; REEKIE LAURENCE,[AU]	US20020241615 20020912; EP20000302381 20000323; WO2001GB01218 20010320; US20000195305P 20000410
50	Integrated optical waveguide device	16/01/2003	PRUNERI VALERIO,[IT]; VANNUCCI ANTONELLO,[IT]	EP20010115860 20010628; US20010303040P 20010706; US20020186364

				20020628
51	Integrated optical waveguide device	13/02/2003	PRUNERI VALERIO,[IT]	EP20010115857 20010628; US20010303137P 20010706; US20020185903 20020627
52	Coplanar integrated optical waveguide electro-optical modulator	02/01/2003	PRUNERI VALERIO,[IT]; NESPOLA ANTONINO,[IT]	EP20010115845 20010628; US20010303160P 20010706; US20020185772 20020628
53	ELECTRO-OPTICAL DEVICE	07/09/2006	BELMONTE MICHELE,[IT]; PRUNERI VALERIO,[IT]	US20050070931 20050303
54	Periodic thermal poling of waveguides for quasi phase matching	22/08/2002	BONFRATE GABRIELE,[GB]; KAZANSKY PETR GEORGEVICH,[GB]; PRUNERI VALERIO,[GB]	GB19990017138 19990721; WO2000GB02829 20000721
55	INTEGRATED OPTICAL WAVEGUIDE DEVICE	05/03/2003	PRUNERI VALERIO	EP20010115857 20010628
56	COPLANAR INTEGRATED OPTICAL WAVEGUIDE ELECTRO-OPTICAL MODULATOR	05/03/2003	PRUNERI VALERIO; NESPOLA ANTONINO	EP20010115845 20010628
57	OPTICAL WAVEGUIDES AND DEVICES INCLUDING SAME	27/09/2001	BRAMBILLA GILBERTO,[GB]; PRUNERI VALERIO,[IT]; REEKIE LAURENCE,[AU]	EP20000302381 20000323; US20000195305P 20000410
58	Electro-optical modulator	02/02/2005	PRUNERI VALERIO,[IT]; ORIO MASSIMO,[IT]	EP20030077395 20030730
59	Integrated ferroelectric optical waveguide device	08/01/2003	PRUNERI VALERIO,[IT]; VANNUCCI ANTONELLO,[IT]	EP20010115860 20010628
60	Optical parametric devices and methods for making same	15/05/2002	BRODERICK NEIL GREGORY RAPHAEL,[GB]; MONRO TANYA MARY,[GB]; PRUNERI VALERIO,[GB]; RICHARDSON DAVID JOHN,[GB]	EP20000309948 20001109
61	Optical fibres and preforms incorporating volatile constituents and process for manufacturing the fibre	24/04/2002	BRAMBILLA GILBERTO,[GB]; PRUNERI VALERIO,[GB]	EP20000309166 20001018

Journal papers

	Authors	Article Title	Source Title	Year	DOI
1	Stein, A; Grande, IHL.; Castelvero, L; Pruneri, V	Robust polarization state generation for long-range quantum key distribution	OPTICS EXPRESS	2023	10.1364/OE.481797
2	Martinez-Cercos, D; Paulillo, B; Barrantes, J; Mendoza-Carreno, J; Mihi, A; St Clair, T; Mazumder, P; Pruneri, V	Tuning of Ultra-Thin Gold Films by Photoreduction	ACS APPLIED MATERIALS & INTERFACES	2023	10.1021/acsami.2c22149

3	Camphausen, R; Perna, AS; Cuevas, A; Demuth, A; Chillon, JA; Grafe, M; Steinlechner, F; Pruneri, V	Fast quantum-enhanced imaging with visible-wavelength entangled photons	OPTICS EXPRESS	2023	10.1364/OE.471429
4	Aldama, J; Sarmiento, S; Etcheverry, S, Valivarthi, R; Grande, IHL; Vidarte, LT; Pruneri, V	Small-form-factor Gaussian-modulated coherent-state transmitter for CV-QKD using a gain-switched DFB laser	OPTICS EXPRESS	2023	10.1364/OE.474665
5	Haegele, S; Corrielli, G; Hejda, M; Duempelmann, L; Terborg, RA; Osellame, R; Pruneri, V	Large field-of-view holographic imager with ultra-high phase sensitivity using multi-angle illumination	OPTICS AND LASERS IN ENGINEERING	2023	10.1016/j.optlaseng.2022.107315
6	Chillon, JA; Paulillo, B; Mazumder, P; Pruneri, V	Transparent Glass Surfaces with Silica Nanopillars for Radiative Cooling	ACS APPLIED NANO MATERIALS	2022	10.1021/acsanm.2c03272
7	Aldama, J; Sarmiento, S; Grande, IHL; Signorini, S; Vidarte, LT; Pruneri, V	Integrated QKD and QRNG Photonic Technologies	JOURNAL OF LIGHTWAVE TECHNOLOGY	2022	10.1109/JLT.2022.3218075
8	Demuth, A; Camphausen, R; Cuevas, A; Borrelli, NF; Seward, TP; Lamberson, L; Koch, KW; Ruggeri, A; Madonini, F; Villa, F; Pruneri, V	Quantum light transport in phase-separated Anderson localization fiber	COMMUNICATIONS PHYSICS	2022	10.1038/s42005-022-01036-5
9	Zamora, RA; Lopez-Ortiz, M; Sales-Mateo, M; Hu, C; Croce, R; Maniyara, RA; Pruneri, V; Giannotti, MI; Gorostiza, P	Light- and Redox-Dependent Force Spectroscopy Reveals that the Interaction between Plastocyanin and Plant Photosystem I Is Favored when One Partner Is Ready for Electron Transfer	ACS NANO	2022	10.1021/acsnano.2c06454
10	Sarmiento, S; Etcheverry, S; Aldama, J; Lopez, IH; Vidarte, LT; Xavier, GB; Nolan, DA; Stone, JS; Li, MJ; Loeber, D; Pruneri, V	Continuous-variable quantum key distribution over a 15 km multi-core fiber	NEW JOURNAL OF PHYSICS	2022	10.1088/1367-2630/ac753b
11	Taghipour, N; Tanriover, I; Dalmases, M; Whitworth, GL; Graham, C; Saha, A; Ozdemir, O; Kundu, B; Pruneri, V;	Ultra-Thin Infrared Optical Gain Medium and Optically-Pumped Stimulated Emission in PbS Colloidal Quantum Dot LEDs	ADVANCED FUNCTIONAL MATERIALS	2022	10.1002/adfm.202200832

	Aydin, K; Konstantatos, G				
12	Hussain, R; Ongaro, AE; de la Concepcion, MLR; Wajs, E; Riveira-Munoz, E; Ballana, E; Blanco, J; Toledo, R; Chamorro, A; Massanella, M; Mateu, L; Grau, E; Clotet, B; Carrillo, J; Pruneri, V	Small form factor flow virometer for SARS-CoV-2	BIOMEDICAL OPTICS EXPRESS	2022	10.1364/BOE.450212
13	Bareza, N; Paulillo, B; Slipchenko, TM; Autore, M; Dolado, I; Liu, S; Edgar, JH; Velez, S; Martin-Moreno, L; Hillenbrand, R; Pruneri, V	Phonon-Enhanced Mid-Infrared CO2 Gas Sensing Using Boron Nitride Nanoresonators	ACS PHOTONICS	2022	10.1021/acsphotonics.1c01254
14	Camphausen, R; Cuevas, A; Duempelmann, L; Terborg, RA; Wajs, E; Tisa, S; Ruggeri, A; Cusini, I; Steinlechner, F; Pruneri, V	A quantum-enhanced wide-field phase imager	SCIENCE ADVANCES	2021	10.1126/sciadv.abj2155
15	Martinez-Cercos, D; Paulillo, B; Maniyara, RA; Rezikyan, A; Bhattacharyya, I; Mazumder, P; Pruneri, V	Ultrathin Metals on a Transparent Seed and Application to Infrared Reflectors	ACS APPLIED MATERIALS & INTERFACES	2021	10.1021/acsami.1c10824
16	Paulillo, B; Bareza, NJ; Pruneri, V	Controlling mid-infrared plasmons in graphene nanostructures through post-fabrication chemical doping	JOURNAL OF PHYSICS-PHOTONICS	2021	10.1088/2515-7647/abf943
17	Kaltenbaek, R; Acin, A; Bacsardi, L; Bianco, P; Bouyer, P; Diamanti, E; Marquardt, C; Omar, Y; Pruneri, V; Rasel, E; Sang, B; Seidel, S; Ulbricht, H; Ursin, R; Villoresi, P; van den Bossche, M; von Klitzing, W; Zbinden, H; Paternostro, M; Bassi, A	Quantum technologies in space	EXPERIMENTAL ASTRONOMY	2021	10.1007/s10686-021-09731-x

18	Grande, IHL; Etcheverry, S; Aldama, J; Ghasemi, S; Nolan, D; Pruneri, V	Adaptable transmitter for discrete and continuous variable quantum key distribution	OPTICS EXPRESS	2021	10.1364/OE.425382
19	Rombaut, J; Martinez, S; Matera, UM; Mazumder, P; Pruneri, V	Antireflective Multilayer Surface with Self-Cleaning Subwavelength Structures	ACS PHOTONICS	2021	10.1021/acsphotonics.0c01909
20	Maniyara, RA; Graham, C; Paulillo, B; Bi, Y; Chen, Y; Herranz, G; Baker, DE; Mazumder, P; Konstantatos, G; Pruneri, V	Highly transparent and conductive ITO substrates for near infrared applications	APL MATERIALS	2021	10.1063/5.0040864
21	Lozano-Perez, AA; Pagan, A; Zhurov, V; Hudson, SD; Hutter, JL; Pruneri, V; Perez-Moreno, I; Grbic', V; Cenis, JL; Grbic', M; Aznar-Cervantes, S	The silk of gorse spider mite Tetranychus lintearius represents a novel natural source of nanoparticles and biomaterials	SCIENTIFIC REPORTS	2020	10.1038/s41598-020-74766-7
22	Sibilo, R; Mannelli, I; Reigada, R; Manzo, C; Noyan, MA; Mazumder, P; Pruneri, V	Direct and Fast Assessment of Antimicrobial Surface Activity Using Molecular Dynamics Simulation and Time-Lapse Imaging	ANALYTICAL CHEMISTRY	2020	10.1021/acs.analchem.0c00367
23	Valivarthi, R; Etcheverry, S; Aldama, J; Zwiehoff, F; Pruneri, V	Plug-and-play continuous-variable quantum key distribution for metropolitan networks	OPTICS EXPRESS	2020	10.1364/OE.391491
24	Graham, C; Frances, MMM; Maniyara, RA; Wen, YG; Mazumder, P; Pruneri, V	NaCl substrates for high temperature processing and transfer of ultrathin materials	SCIENTIFIC REPORTS	2020	10.1038/s41598-020-64313-9
25	Bareza, N; Gopalan, KK; Alani, R; Paulillo, B; Pruneri, V	Mid-infrared Gas Sensing Using Graphene Plasmons Tuned by Reversible Chemical Doping	ACS PHOTONICS	2020	10.1021/acsphotonics.9b01714
26	Hussain, R; Noyan, MA; Woyessa, G; Marin, RRR; Martinez, PA; Mahdi, FM; Finazzi, V; Hazlehurst, TA; Hunter, TN; Coll, T; Stintz, M; Muller, F; Chalkias, G; Pruneri, V	An ultra-compact particle size analyser using a CMOS image sensor and machine learning	LIGHT-SCIENCE & APPLICATIONS	2020	10.1038/s41377-020-0255-6
27	Rombaut, J; Fernandez, M; Mazumder, P;	Nanostructured Hybrid-Material Transparent Surface with	ACS OMEGA	2019	10.1021/acsomega.9b02775

	Pruneri, V	Antireflection Properties and a Facile Fabrication Process			
28	Picouet, PA; Gou, P; Pruneri, V; Diaz, I; Castellari, M	Implementation of a quality by design approach in the potato chips frying process	JOURNAL OF FOOD ENGINEERING	2019	10.1016/j.jfoodeng.2019.04.013
29	Fabri-Faja, N; Calvo-Lozano, O; Dey, P; Terborg, RA; Estevez, MC; Belushkin, A; Yesilkoy, F; Duempelmann, L; Altug, H; Pruneri, V; Lechuga, LM	Early sepsis diagnosis via protein and miRNA biomarkers using a novel point-of-care photonic biosensor	ANALYTICA CHIMICA ACTA	2019	10.1016/j.aca.2019.05.038
30	Maniyara, RA; Rodrigo, D; Yu, R; Canet-Ferrer, J; Ghosh, DSR; Yongsunthon, R; Baker, DE; Rezikyan, A; de Abajo, FJG; Pruneri, V	Tunable plasmons in ultrathin metal films	NATURE PHOTONICS	2019	10.1038/s41566-019-0366-x
31	Sibilo, R; Perez, JM; Hurth, C; Pruneri, V	Surface cytometer for fluorescent detection and growth monitoring of bacteria over a large field-of-view	BIOMEDICAL OPTICS EXPRESS	2019	10.1364/BOE.10.002101
32	Gopalan, KK; Rodrigo, D; Paulillo, B; Soni, KK; Pruneri, V	Ultrathin Yttria-Stabilized Zirconia as a Flexible and Stable Substrate for Infrared Nano-Optics	ADVANCED OPTICAL MATERIALS	2019	10.1002/adom.201800966
33	Dey, P; Fabri-Faja, N; Calvo-Lozano, O; Terborg, RA; Belushkin, A; Yesilkoy, F; Fabrega, A; Ruiz-Rodriguez, JC; Ferrer, R; Gonzalez-Lopez, JJ; Estevez, MC; Altug, H; Pruneri, V; Lechuga, LM	Label-free Bacteria Quantification in Blood Plasma by a Bioprinted Microarray Based Interferometric Point-of-Care Device	ACS SENSORS	2019	10.1021/acssensors.8B00789
34	Rombaut, J; Maniyara, RA; Bellman, RA; Acquard, DF; Baca, AS; Osmond, J; Senaratne, W; Quesada, MA; Baker, D; Mazumder, P; Pruneri, V	Antireflective Transparent Oleophobic Surfaces by Noninteracting Cavities	ACS APPLIED MATERIALS & INTERFACES	2018	10.1021/acsami.8b15507
35	Rude, M; Abellan, C; Capdevila, A; Domenech, D; Mitchell, MW; Amaya, W; Pruneri, V	Interferometric photodetection in silicon photonics for phase diffusion quantum entropy sources	OPTICS EXPRESS	2018	10.1364/OE.26.031957

36	Terborg, RA; Torres, JP; Pruneri, V	Technique for generating periodic structured light beams using birefringent elements	OPTICS EXPRESS	2018	10.1364/OE.26.028938
37	Gopalan, KK; Paulillo, B; Mackenzie, DMA; Rodrigo, D; Bareza, N; Whelan, PR; Shivayogimath, A; Pruneri, V	Scalable and Tunable Periodic Graphene Nanohole Arrays for Mid-Infrared Plasmonics	NANO LETTERS	2018	10.1021/acs.nanolett.8b02613
38	Abellan, C; Pruneri, V	The Future of Cybersecurity Is Quantum	IEEE SPECTRUM	2018	10.1109/MSPEC.2018.8389185
39	Marchena, M; Wagner, F; Arliguie, T; Zhu, B; Johnson, B; Fernandez, M; Chen, TL; Chang, T; Lee, R; Pruneri, V; Mazumder, P	Dry transfer of graphene to dielectrics and flexible substrates using polyimide as a transparent and stable intermediate layer	2D MATERIALS	2018	10.1088/2053-1583/aac12d
40	Joshi, SK; Pienaar, J; Ralph, TC; Cacciapuoti, L; McCutcheon, W; Rarity, J; Giggenbach, D; Lim, JG; Makarov, V; Fuentes, I; Scheidl, T; Beckert, E; Bourennane, M; Bruschi, DE; Cabello, A; Capmany, J; Carrasco-Casado, A; Diamanti, E; Dusek, M; Elser, D; Gulinatti, A; Hadfield, RH; Jennewein, T; Kaltenbaek, R; Krainak, MA; Lo, HK; Marquardt, C; Milburn, G; Peev, M; Poppe, A; Pruneri, V; Renner, R; Salomon, C; Skaar, J; Solomos, N; Stipcevic, M; Torres, JP; Toyoshima, M; Villoresi, P; Walrnsley, I; Weihs, G; Weinfurter, H; Zeilinger, A; Zukowski, M;	Space QUEST mission proposal: experimentally testing decoherence due to gravity	NEW JOURNAL OF PHYSICS	2018	10.1088/1367-2630/aac58b

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41	Dubey, R; Marchena, M; Lahijani, BV; Kim, MS; Pruneri, V; Herzig, HP	Bloch Surface Waves Using Graphene Layers: An Approach toward In-Plane Photodetectors	APPLIED SCIENCES-BASEL	2018	10.3390/app8030390
42	Yesilkoy, F; Terborg, RA; Pello, J; Belushkin, AA; Jahani, Y; Pruneri, V; Altug, H	Phase-sensitive plasmonic biosensor using a portable and large field-of-view interferometric microarray imager	LIGHT-SCIENCE & APPLICATIONS	2018	10.1038/lsa.2017.152
43	Rodrigo, D; Tittl, A; Limaj, O; de Abajo, FJG; Pruneri, V; Altug, H	Double-layer graphene for enhanced tunable infrared plasmonics	LIGHT-SCIENCE & APPLICATIONS	2017	10.1038/lsa.2016.277
44	Marchena, M; Song, Z; Senaratne, W; Li, CN; Liu, XY; Baker, D; Ferrer, JC; Mazumder, P; Soni, K; Lee, R; Pruneri, V	Direct growth of 2D and 3D graphene nano-structures over large glass substrates by tuning a sacrificial Cu-template layer	2D MATERIALS	2017	10.1088/2053-1583/aa69b5
45	Gopalan, KK; Janner, D; Nanot, S; Parret, R; Lundeberg, MB; Koppens, FHL; Pruneri, V	Mid-Infrared Pyroresistive Graphene Detector on LiNbO3	ADVANCED OPTICAL MATERIALS	2017	10.1002/adom.201600723
46	Perez, JM; Jofre, M; Martinez, P; Yanez, MA; Catalan, V; Parker, A; Veldhuis, M; Pruneri, V	CMOS based image cytometry for detection of phytoplankton in ballast water	BIOMEDICAL OPTICS EXPRESS	2017	10.1364/BOE.8.001240
47	Mkhitaryan, VK; Ghosh, DS; Rude, M; Canet-Ferrer, J; Maniyara, RA; Gopalan, KK; Pruneri, V	Tunable Complete Optical Absorption in Multilayer Structures Including Ge2Sb2Te5 without Lithographic Patterns	ADVANCED OPTICAL MATERIALS	2017	10.1002/adom.201600452
48	Noyan, MA; Guilhot, D; Pruneri, V	Functionalized Transparent Surfaces with Enhanced Self-Cleaning against Ink Aerosol Contamination	ADVANCED MATERIALS TECHNOLOGIES	2017	10.1002/admt.201600113

49	Maniyara, RA; Mkhitaryan, VK; Chen, TL; Ghosh, D; Pruneri, V	An antireflection transparent conductor with ultralow optical loss (< 2 %) and electrical resistance (< 6 Omega sq(-1))	NATURE COMMUNICATIONS	2016	10.1038/ncomms13771
50	Mannelli, I; Sagues, F; Pruneri, V; Reigada, R	Lipid Vesicle Interaction with Hydrophobic Surfaces: A Coarse-Grained Molecular Dynamics Study	LANGMUIR	2016	10.1021/acs.langmuir.6b03364
51	Abellan, C; Amaya, W; Domenech, D; Munoz, P; Capmany, J; Longhi, S; Mitchell, MW; Pruneri, V	Quantum entropy source on an InP photonic integrated circuit for random number generation	OPTICA	2016	10.1364/OPTICA.3.000989
52	Yu, RW; Pruneri, V; de Abajo, FJG	Active modulation of visible light with graphene-loaded ultrathin metal plasmonic antennas	SCIENTIFIC REPORTS	2016	10.1038/srep32144
53	Marchena, M; Janner, D; Chen, TL; Finazzi, V; Pruneri, V	Low temperature direct growth of graphene patterns on flexible glass substrates catalysed by a sacrificial ultrathin Ni film	OPTICAL MATERIALS EXPRESS	2016	10.1364/OME.6.002487
54	Miller, TA; Rude, M; Pruneri, V; Wall, S	Ultrafast optical response of the amorphous and crystalline states of the phase change material Ge2Sb2Te5	PHYSICAL REVIEW B	2016	10.1103/PhysRevB.94.024301
55	Rude, M; Mkhitaryan, V; Cetin, AE; Miller, TA; Carrilero, A; Wall, S; de Abajo, FJG; Altug, H; Pruneri, V	Ultrafast and Broadband Tuning of Resonant Optical Nanostructures Using Phase-Change Materials	ADVANCED OPTICAL MATERIALS	2016	10.1002/adom.201600079
56	Yu, RW; Mazumder, P; Bonelli, NF; Carrilero, A; Ghosh, DS; Maniyara, RA; Baker, D; de Abajo, FJG; Pruneri, V	Structural Coloring of Glass Using Dewetted Nanoparticles and Ultrathin Films of Metals	ACS PHOTONICS	2016	10.1021/acsphotonics.6b00090
57	Mannelli, I; Reigada, R; Suarez, I; Janner, D; Carrilero, A; Mazumder, P; Sagues, F; Pruneri, V; Lakadamyali, M	Functionalized Surfaces with Tailored Wettability Determine Influenza A Infectivity	ACS APPLIED MATERIALS & INTERFACES	2016	10.1021/acsami.6b02779
58	Terborg, RA; Pello, J; Mannelli, I; Torres, JP; Pruneri, V	Ultrasensitive interferometric on-chip microscopy of transparent objects	SCIENCE ADVANCES	2016	10.1126/sciadv.1600077

59	Steinlechner, F; Hermosa, N; Pruneri, V; Torres, JP	Frequency conversion of structured light	SCIENTIFIC REPORTS	2016	10.1038/srep21390
60	Woessner, A; Alonso-Gonzalez, P; Lundeberg, MB; Gao, YD; Barrios-Vargas, JE; Navickaite, G; Ma, Q; Janner, D; Watanabe, K; Cummings, AW; Taniguchi, T; Pruneri, V; Roche, S; Jarillo-Herrero, P; Hone, J; Hillenbrand, R; Koppens, FHL	Near-field photocurrent nanoscopy on bare and encapsulated graphene	NATURE COMMUNICATIONS	2016	10.1038/ncomms10783
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62	Ghosh, DS; Liu, Q; Mantilla-Perez, P; Chen, TL; Mkhitaryan, V; Huang, MH; Garner, S; Martorell, J; Pruneri, V	Highly Flexible Transparent Electrodes Containing Ultrathin Silver for Efficient Polymer Solar Cells	ADVANCED FUNCTIONAL MATERIALS	2015	10.1002/adfm.201503739
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85	Ghosh, DS; Formica, N; Chen, TL; Hwang, J; Eickhoff, C; Pruneri, V	Cu-Ag alloy capped with Ni transparent electrodes for indium-free organic photovoltaic and lighting devices	SOLAR ENERGY MATERIALS AND SOLAR CELLS	2013	10.1016/j.solmat.2013.04.012
86	Yudistira, D; Boes, A; Janner, D; Pruneri, V; Friend, J; Mitchell, A	Polariton-based band gap and generation of surface acoustic waves in acoustic superlattice lithium niobate	JOURNAL OF APPLIED PHYSICS	2013	10.1063/1.4817271
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161	Brambilla, G; Pruneri, V; Reekie, L	Photorefractive index gratings in SnO2 : SiO2 optical fibers	APPLIED PHYSICS LETTERS	2000	10.1063/1.125591

162	Bonfrate, G; Pruneri, V; Kazansky, PG; Tapster, P; Rarity, JG	Parametric fluorescence in periodically poled silica fibers	APPLIED PHYSICS LETTERS	1999	10.1063/1.125013
163	Brambilla, G; Pruneri, V; Reekie, L; Payne, DN	Enhanced photosensitivity in germanosilicate fibers exposed to CO2 laser radiation	OPTICS LETTERS	1999	10.1364/OL.24.001023
164	Pruneri, V; Bonfrate, G; Kazansky, PG; Takebe, H; Morinaga, K; Kohno, M; Kuwasaki, K; Takeuchi, T	High second-order optical nonlinearities in thermally poled sol-gel silica	APPLIED PHYSICS LETTERS	1999	10.1063/1.123903
165	Pruneri, V; Samoggia, F; Bonfrate, G; Kazansky, PG; Yang, GM	Thermal poling of silica in air and under vacuum: The influence of charge transport on second harmonic generation	APPLIED PHYSICS LETTERS	1999	10.1063/1.123868
166	Pruneri, V; Bonfrate, G; Kazansky, PG; Richardson, DJ; Broderick, NG; de Sandro, JP; Simonneau, C; Vidakovic, P; Levenson, JA	Greater than 20%-efficient frequency doubling of 1532-nm nanosecond pulses in quasi-phase-matched germanosilicate optical fibers	OPTICS LETTERS	1999	10.1364/OL.24.000208
167	Cabrillo, C; Cuello, GJ; Garcia-Fernandez, P; Bermejo, FJ; Pruneri, V; Kazansky, PG; Bennington, SM; Howells, WS	Emergence of structural anisotropy in optical glasses treated to support second harmonic generation	PHYSICAL REVIEW LETTERS	1998	10.1103/PhysRevLett.81.4361
168	Cabrillo, C; Cuello, GJ; Garcia-Fernandez, P; Bermejo, FJ; Pruneri, V; Samoggia, F; Kazansky, PG; Bennington, SM	Evidence of microscopic-scale modifications in optical glasses supporting second harmonic generation	PHYSICS LETTERS A	1998	10.1016/S0375-9601(98)00669-0
169	Pruneri, V; Bonfrate, G; Kazansky, PG; Simonneau, C; Vidakovic, P; Levenson, JA	Efficient frequency doubling of 1.5 mu m femtosecond laser pulses in quasi-phase-matched optical fibers	APPLIED PHYSICS LETTERS	1998	10.1063/1.120948
170	Kazansky, PG; Pruneri, V	Electric-field poling of quasi-phase-matched optical fibers	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS	1997	10.1364/JOSAB.14.003170
171	Sturman, B; Aguilar, M; AgulloLopez, F; Pruneri, V; Kazansky, PG	Photorefractive nonlinearity of periodically poled ferroelectrics	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS	1997	10.1364/JOSAB.14.002641
172	Traynor, NJ; Grudinin, AB; Pruneri, V;	Tunable source of picosecond pulses around 1550 nm for all-	OPTICS COMMUNICATIONS	1997	10.1016/S0030-4018(97)00132-6

	Sysoliatin, AA; Semenov, VA	optical processing			
173	Kazansky, PG; Pruneri, V	Electrically stimulated light-induced second-harmonic generation in glass: Evidence of coherent photoconductivity	PHYSICAL REVIEW LETTERS	1997	10.1103/PhysRevLett.78.2956
174	Pruneri, V; Kazansky, PG	Frequency doubling of picosecond pulses in periodically poled D-shape silica fibre	ELECTRONICS LETTERS	1997	10.1049/el:19970177
175	Amin, J; Pruneri, V; Webjorn, J; Russell, PS; Hanna, DC; Wilkinson, JS	Blue light generation in a periodically poled Ti:LiNbO3 channel waveguide	OPTICS COMMUNICATIONS	1997	10.1016/S0030-4018(96)00497-X
176	Pruneri, V; Kazansky, PG	Electric-field thermally poled optical fibers for quasi-phase-matched second-harmonic generation	IEEE PHOTONICS TECHNOLOGY LETTERS	1997	10.1109/68.553085
177	Pruneri, V; Kazansky, PG; Hewak, D; Wang, J; Takebe, H; Payne, DN	Frequency doubling in gallium-lanthanum-sulphide optical glass with microcrystals	APPLIED PHYSICS LETTERS	1997	10.1063/1.118345
178	Sturman, B; Aguilar, M; AgulloLopez, F; Pruneri, V; Kazansky, PG; Hanna, DC	Mechanism of self-organized light-induced scattering in periodically poled lithium niobate	APPLIED PHYSICS LETTERS	1996	10.1063/1.117432
179	Butterworth, SD; Pruneri, V; Hanna, DC	Optical parametric oscillation in periodically poled lithium niobate based on continuous-wave synchronous pumping at 1.047 mu m	OPTICS LETTERS	1996	10.1364/OL.21.001345
180	Pruneri, V; Butterworth, SD; Hanna, DC	Low-threshold picosecond optical parametric oscillation in quasi-phase-matched lithium niobate	APPLIED PHYSICS LETTERS	1996	10.1063/1.118166
181	Pruneri, V; Butterworth, SD; Hanna, DC	Highly efficient green-light generation by quasi-phase-matched frequency doubling of picosecond pulses from an amplified mode-locked Nd:YLF laser	OPTICS LETTERS	1996	10.1364/OL.21.000390
182	PRUNERI, V; KOCH, R; KAZANSKY, PG; CLARKSON, WA; RUSSELL, PSJ; HANNA, DC	49 MW OF CW BLUE-LIGHT GENERATED BY FIRST-ORDER QUASI-PHASE-MATCHED FREQUENCY-DOUBLING OF A DIODE-PUMPED 946-NM ND-YAG LASER	OPTICS LETTERS	1995	10.1364/OL.20.002375
183	PRUNERI, V; WEBJORN, J; RUSSELL, PS; HANNA, DC	532 NM PUMPED OPTICAL PARAMETRIC OSCILLATOR IN BULK PERIODICALLY POLED LITHIUM-	APPLIED PHYSICS LETTERS	1995	10.1063/1.114741

		NIOBATE			
184	PRUNERI, V; KAZANSKY, PG; WEBJORN, J; RUSSELL, PSJ; HANNA, DC	SELF-ORGANIZED LIGHT-INDUCED SCATTERING IN PERIODICALLY POLED LITHIUM-NIOBATE	APPLIED PHYSICS LETTERS	1995	10.1063/1.114578
185	KAZANSKY, PG; PRUNERI, V; RUSSELL, PS	BLUE-LIGHT GENERATION BY QUASI-PHASE-MATCHED FREQUENCY-DOUBLING IN THERMALLY POLED OPTICAL FIBERS	OPTICS LETTERS	1995	10.1364/OL.20.000843
186	WEBJORN, J; PRUNERI, V; RUSSELL, PSJ; HANNA, DC	55-PERCENT CONVERSION EFFICIENCY TO GREEN IN BULK QUASI-PHASE-MATCHING LITHIUM-NIOBATE	ELECTRONICS LETTERS	1995	10.1049/el:19950442
187	DESILVESTRI, S; NISOLI, M; PRUNERI, V; DESTRI, S; PORZIO, W; TUBINO, R	ULTRAFAST EXCITON DYNAMICS IN A POLYMERIC HETEROSTRUCTURE BASED ON THIENYLENE-PHENYLENE SEQUENCES	CHEMICAL PHYSICS LETTERS	1995	10.1016/0009-2614(95)00060-H
188	NISOLI, M; PRUNERI, V; DESILVESTRI, S; DELLEPIANE, G; COMORETTO, D; CUNIBERTI, C; LEMOIGNE, J	ULTRAFAST EXCITON DYNAMICS IN HIGHLY ORIENTED POLYDIACETYLENE FILMS	APPLIED PHYSICS LETTERS	1994	10.1063/1.112308
189	WEBJORN, J; PRUNERI, V; RUSSELL, PS; BARR, JRM; HANNA, DC	QUASI-PHASE-MATCHED BLUE-LIGHT GENERATION IN BULK LITHIUM-NIOBATE, ELECTRICALLY POLED VIA PERIODIC LIQUID ELECTRODES	ELECTRONICS LETTERS	1994	10.1049/el:19940562
190	NISOLI, M; PRUNERI, V; DESILVESTRI, S; MAGNI, V; GALLAZZI, AM; ROMANONI, C; ZERBI, G; ZOTTI, G	ULTRAFAST NONLINEAR-OPTICAL RESPONSE AND ACOUSTIC-PHONON GENERATION IN POLY(ALKOXY-THIOPHENE) FILM WITH REGIOREGULAR STRUCTURE	CHEMICAL PHYSICS LETTERS	1994	10.1016/0009-2614(94)00143-X

Invited or keynote talks at Conferences

1. Multifunctional Optical Surfaces with Ultrathin Materials and Nano-structuring, J. A. Chillon, V. Pruneri, Metamaterials, Photonic Crystals and Plasmonics Conference | META 2023, Paris, July 2023.
2. Quantum crypto in Barcelona, V. Pruneri, CTTC Workshop 2022, Sitges (Barcelona), November 2022
3. QRNG and QKD using classical hardware, V. Pruneri, European Conference on Optical Communication (ECOC), Basel (Switzerland), September 2022
4. Small form factor flow virometer for SARS-CoV-2, V. Pruneri, Optical Sensors and Sensing Congress, Hyatt Regency Vancouver, Vancouver, British Columbia, Canada, July 2022
5. Continuous-variable quantum communications, S. Sarmiento, J. Aldama, S. Ghasemi, S. Etcheverry, V. Pruneri, Front-Edge Workshop, Barcelona, Spain, 2021
6. Lens-free interferometric technologies for point-of-care label-free biomarker detection, R. Camphausen, S. Haegele, J. Arrés, S. Diefenbach, E. Wajs, Á. Cuevas, L. Duempelmann, R. A. Terborg, V. Pruneri, ZEISS Symposium Optics in the Medical World, June 2021
7. Plasmonic mid-IR sensing using graphene and related materials, B. Paulillo, N. Jr. Bareza, K. K. Gopalan, R. Alani, V. Pruneri, Graphene and Beyond: From Atoms to Applications Workshop, May 2021
8. CV-QKD driven by QRNG for deployment of secure communication, S. Etcheverry, S. Ghasemi, V. Pruneri, Next Generation Quantum Networking Workshop 2021, April 2021
9. Plasmonic mid-IR gas sensing using graphene and related materials, B. Paulillo, N. Jr. Bareza, I. Dolado, M. Autore, K. K. Gopalan, R. Alani, R. Hillenbrand, V. Pruneri, SPIE Photonics West, Digital Forum, March 2021
10. Continuous variable quantum key distribution, V. Pruneri, European Quantum Week, Berlin, Germany, 2-6 November 2020
11. Applications and use cases for quantum communications, V. Pruneri, Inside Quantum Technology, Delft, The Netherlands, 29 October 2020
12. Multifunctional nanostructured optical surfaces for industrial applications, J. Rombaut, B. Paulillo, N. Bareza, D. Martínez, R. Maniyara, K. K. Gopalan, P. Mazumder, V. Pruneri, 2019 MRS Fall Meeting, Boston, USA, December 2019
13. Detection of particles, micro-organisms and biomarkers using CMOS image sensors, R. Camphausen, R. Hussain, , R. Terborg, L. Duempelmann. A. Cuevas, E. Wajs, S. Diefenbach, V. Pruneri, Nanobio&med, Barcelona, Spain, November 2019 Key note
14. Large field of view imaging with classical and quantum light, R. Hussain, R. Camphausen, R. Terborg, L. Duempelmann. A. Cuevas, V. Pruneri, EOS European Optical Society: Optical Microsystems OμS19; Anacapri, Island of Capri, Italy, September 2019
15. Generation of periodic structured illumination patterns with compact birefringent elements, R. A. Terborg, J. P. Torres, V. Pruneri, Frontiers in Optics 2019, Washington DC, USA, September 2019
16. Quantum imaging for enhanced microscopy and light modulation, Á. Cuevas, R. Camphausen, V. Pruneri, SPIE Nanoscience + Photonics - Quantum Nanophotonic Materials, Devices, and Systems 2019, San Diego, USA, August 2019
17. Nano-structured optical surfaces based on ultrathin materials for displays and sensing, B. Paulillo, R. Maniyara, J. Rombaut, K. K. Gopalan, N. Bareza, V. Pruneri, META 2019 10th International Conference on Metamaterials, Photonic Crystals and Plasmonics, Instituto Superior Técnico, Lisbon, Portugal, July 2019
18. CiViQ; Bringing continuous-variable QKD technology into emerging optical telecommunication networks, V. Pruneri, EPIC World Industrial Quantum Photonics Technology Barcelona, Spain, June 2019
19. Photonic integration of quantum entropy sources, C. Abellan, W. Amaya, M. Rudé, D. Tulli, M. W. Mitchell, V. Pruneri, European Conference On Integrated Optics, Ghent University, Ghent, Belgium, April 2019
20. Integrated nanophotonic biosensors for point-of care diagnostics and bioanalytical applications, F. Yesilkoy, A. Belushkin, Y. Jahani, R. Terborg, X. Li, V. Pruneri, H. Altug, Optical Fiber Communication Conference, San Diego, United States, March 2019
21. Continuous variable quantum communications, V. Pruneri, Europena Quantum Technology Conference, Grenoble, France, February 2019
22. Large-field-of-view CMOS based sensing of particulates, micro-organisms and biomarkers, V. Pruneri, LANE 2018, 10th CIRP Conference on Photonic Technologies, Fürth, Germany, September 2018Invited Keynote Talk
23. Integrated quantum entropy sources, C. Abellan, W. Amaya, D. Tulli, M. W. Mitchell, V. Pruneri, SPIE Nanoscience + Engineering, San Diego, United States, August 2018
24. Photonic metasurfaces for next-generation biosensors, H. Altug, F. Yesilkoy, X. Li, M. Soler, A. Belushkin, Y. Jahani, R. Terborg, J. Pello, V. Pruneri, OSA Integrated Photonics Research, Silicon and Nanophotonics, Zürich, Switzerland, July 2018

25. Integrated quantum entropy sources, C. Abellan, W. Amaya, D. Tulli, M. W. Mitchell, V. Pruneri, OSA Integrated Photonics Research, Silicon and Nanophotonics, Zürich, Switzerland, July 2018
26. Transparent and conductive backside coating of EUV lithography masks for ultra short pulse laser correction, R. A. Maniyara, D. Sundar Ghosh, V. Pruneri, 34th European Mask and Lithography conference, EMLC 2018, MINATEC conference center, Grenoble, France, June 2018
27. Advanced micro-nano-structured optical surfaces for display and sensing, D. Rodrigo, V. Pruneri, The 3rd Australian New Zealand Conference on Optics (ANZCOP), Queenstown, New Zeland, December 2017
28. Nano-structured optical surfaces incorporating ultrathin materials for industrial applications, V. Pruneri, 9th Mediterranean Conference on Nano-Photonics, Amalfi, Italy, September 2017Plenary talk
29. Graphene for transparent conductors and infrared sensing, K. K. Gopalan, M. Marchena, J. Rombaut, I. Gris, D. Rodrigo, V. Pruneri, CLEO-PR, OECC & PGC, Singapore, July-August, 2017Paper Number: s2474
30. Large-field-of-view cytometer and differential interference contrast microscope using CMOS image sensor arrays, J. M. Pérez, R.A. Terborg, T. Coll, P. Martínez, W. Amaya, C. Hurth, J. Pello, M. Jofre, V. Pruneri, NyNA 2017, Barcelona, Spain, July 2017
31. CMOS-based cytometer and differential interference contrast sensing, R. A. Terborg, J. M. Pérez, T. Coll, P. Martínez, W. Amaya, C. Hurth, J. Pello, M. Jofre, V. Pruneri, Imaging & Applied Optics Congress, San Francisco, California, June 2017
32. Tunable micro- and nano-structured optical devices using phase-change materials, V. Mkhitaryan, M. Rude, V. Pruneri, MRS Spring meeting & Exhibition, Phoenix, Arizona, April 2017
33. Quantum random numbers and optical switching in small structures, V. Pruneri, Photonic Integration Week PIW2017, Valencia, Spain, January 2017
34. Multifunctional nano-structured optical surfaces for industrial applications, M. A. Noyan, K. K. Gopalan, R. A. Maniyara, M. M. Martin-Frances, V. Mkhitaryan, J. Rombaut Segarra, M. Rude, R. Sibilo, I. Mannelli, J. Canet Ferrer, V. Pruneri, Nanometa 2017, Seefeld, Austria, January 2017
35. Transparent electrodes containing ultrathin metal with >98 % optical transmission and <6 Ω/sq. electrical sheet resistance, R. A. Maniyara, V. K. Mkhitaryan, T. L. Chen, D. S. Ghosh, V. Pruneri, EMN Meeting on Transparent Electrodes, Orlando, USA, December 2016
36. Multifunctional optical surfaces for industrial applications using ultrathin materials and nano-structuring, V. Pruneri, Quantum and Topological Nanophotonics, Singapore, December 2016
37. Sensing of particles, micro-organisms and biomarkers using the camera of a mobile phone, M. Jofre, R. A. Terborg, J. M. Pérez, T. Coll, P. Martínez, W. Amaya, J. Pello, V. Pruneri, nanoBioMed2016, Barcelona, Spain, November 2016
38. Graphene for transparent electrodes and sensing applications, V. Pruneri, European Graphene Forum 2016 Conference and Exhibition, Paris, France, June 2016
39. The quest for super-nonwetting, anti-reflection, mechanically durable optical surface, P. Mazumder, W. Senaratne, V. Pruneri, Nanotech2016, Washington DC, USA, from May 22-25, May 2016
40. 2-D materials for transparent electrodes and mid-IR sensing, V. Pruneri, Graphene-based Photonics Technology: Transitioning from Research to Commercialisation, Brussels, Belgium, April 2016
41. Small form factor CMOS based sensors for fast detection of microorganisms and bio markers, V. Pruneri, Point-of-Care Diagnostics, Madrid, Spain, March 2016
42. Integrated devices for reconfigurable networks and quantum technologies, V. Pruneri, MNP 2015: Micro Nano Photonics, Besançon, France, December 2015
43. Small form factor lens free microscopy for detection of particles, micro-organisms and proteins, V. Pruneri, Micro Photonics International Congress Expo, Berlin, Germany, November 2015
44. Graphene directly deposited on dielectrics for transparent electrodes, M. Marchena, T. L. Chen, V. Pruneri, Graphene World Summit 2015, Barcelona, Spain, November 2015
45. Nanostructured transparent electrodes for organic optoelectronic, V. Pruneri, XIV MRS Meeting, Rio de Janeiro, Brasil, September-October 2015
46. Optics on nano-structured surfaces, V. Pruneri, 3rd International Conference and Exhibition on Lasers, Optics & Photonics, September 2015, Valencia, Spain
47. New designs of CMOS based lens-free microscopy for particles and cells analysis, M. Jofre, J. M. Pérez Rosas, R. Terborg del Rosal, J. Pello, P. Martinez, V. Pruneri, 4th European Optical Society Topical Meeting on Blue Photonics® - Optics in the Sea, Barcelona, Spain, May 2015
48. Ultrathin materials and nano-structuring for multifunctional transparent surfaces, D. Janner, M. Marchena, D.S. Ghosh, T.L. Chen, I. Mannelli, M. Rude, V. Mkhitaryan, A. Carrilero and V. Pruneri, 39th International Conference and Expo on Advanced Ceramics and Composites, Daytona, Florida, USA, January-February, 2015

49. Ultrathin metals and graphene for flexible optoelectronic devices, M. Marchena, T. L. Chen, K. Kalavoor, D. Janner, D. S. Gosh, V. Pruneri, Trends in Nanotechnology International Conference (TNT2014), Barcelona, Spain, October 2014
50. Nanostructured transparent electrodes, V. Pruneri, Forum LED Europe, Paris, France, October 2014
51. Ultrathin metals and graphene directly deposited on dielectric substrates and their applications to transparent electrodes, V. Pruneri, International Graphene Innovation Conference (GRAPCHINA 2014), Ningbo, China, September 2014
52. Multifunctional nano-structured optical surfaces, V. Pruneri, International Commission for Optics, Santiago de Compostela, Spain (2014)
53. The next generation CCD or CMOS lens-free microscopy for bio-medical and material processing analysis, M. Jofre, R. Terborg, A. Villar, P. Martínez. J. M. Pérez, D. Janner. I. Manneli. V. Pruneri, OSA Advanced Photonics Congress, Barcelona, Spain, July 2014
54. Integrated devices in ferroelectrics for optical modulations and sensing, D. Janner, V. Pruneri, Third Mediterranean Photonics Conference, Trani, Italy, May 2014
55. Graphene combined with ultrathin metals for low cost and mechanically flexible transparent electrodes, M. Marchena, T. Chen, V. Pruneri, NanoSpain Conference, Madrid, Spain, March 2014
56. Ultrathin metals and nano-structuring for photonic applications, V. Pruneri, SPIE-Photonics West, San Francisco, USA, February 2014
57. Low cost and integrated approaches to biological and environmental optical detection, V. Pruneri, Biosensors for a better environment, Caldes de Montbui, Spain, September 2013
58. Electro-optic engineering for microwave photonics applications, D. Janner, V. Pruneri, PIERS 2013, Stockholm, Sweden, August 2013
59. Entangled photon- and faint laser pulse sources for applications in space, F. Steinlechner, M. Jofre, W. Amaya, M. Mitchell, V. Pruneri, Winter School in Quantum Communications (QSNOW2013), Asiago, Italy, February 2013
60. Photonics devices and applications, V. Pruneri, Trends in Laser Development and Multidisciplinary Applications to Science and Industry, Trieste, Italy, February 2013
61. Micro-nanostructured photonic sensors for harsh environments, V. Finazzi, J. Villatoro, V. Pruneri, Chemistry and advanced photonics, XII Enric Casassas Conference, Barcelona, Spain, December 2012
62. Compact entangled-pair and low-number-of-photon sources for quantum communication in space, M. Jofre, F. Steinlechner, J. P. Torres, M. W. Mitchell, V. Pruneri, Photonics North, Montreal, Canada, June 2012
63. N. Formica, D. S. Ghosh, T. Chen, V. Pruneri, 'Highly stable ultrathin Ag-Ni films for flexible transparent electronics´, invited talk at ECS Integrated Optoelectronics Symposium. 221st ECS Meeting, Seattle, USA, May 2012.
64. J. Villatoro, V. Finazzi, V. Pruneri, 'Functional photonic crystal fiber sensing devices`, invited talk at Asia Communication & Photonics (APC2011), Shangai, China, November 2011.
65. M. Jofre, F. Steinlechner, G. Anzolin, M. Curty, J. P. Torres, M. W. Mitchell, V. Pruneri, 'Compact optical sources for quantum communications´, invited talk at 4th International Symposium on Applied Sciences in Biomedical and Communication Technologies (ISABEL 2011), Barcelona, Spain, October 2011.
66. D. Janner, V. Pruneri, 'Integrated electro-optic lithium niobate modulators: from low voltage to complex bits´, invited talk at 37th European Conference on Optical Communication-ECOC, Geneva, Switzerland, September 2011.
67. V. Finazzi, J. Villatoro, F. Favero, G. Cardenas, V. Pruneri, 'Temperature and refractive index sensors based on multimode PCF and embedded optical nanowires', invited talk at 14th International SAOT Workshop on Fiber Lasers, Sensors and Materials, Reichenschwand, Germany, July 2011.
68. J. Villatoro, V. Finazzi, G. Cardenas, F. Favero, V. Pruneri, 'Photonic crystal fibre and nanowire sensors', invited talk at 7th Workshop on Fibre Optics and Passive Components (WFOPC2011), Montreal, Canada, July 2011.
69. D.S. Ghosh, N. Formica, T.L. Chen, V. Pruneri, 'Metallic nano-films for display, lighting and photovoltaic devices', invited talk at National Physics Meeting 2011, Foz do Iguaçu, Brasil, June 2011.
70. M. Jofre, A. Gardelein, G. Anzolin, M. W. Mitchell, V. Pruneri , 'Theory and Realisation of Practical Quantum Key Distribution 2010, Institute for Quantum Computing – University of Waterloo, Canada, June 2010.
71. J. Villatoro, V. Finazzi, G.A. Cardenas-Sevilla, V. Pruneri, 'Photonic-crystal and optical nicro/nano fiber interferometric sensors', invited talk 2nd Workshop on Specialty Optical Fibers (WSOF-2010), Oaxaca, October 2010.
72. M. Joffre, A. Gardelein and V. Pruneri, 'Micro-optical sources for quantum communication in space´, invited paper at 'European Optical Society Annual Meeting 2010', Paris (France), 26-29 October 2010.
73. D. Barrera, V. Finazzi, G. Coviello, A. Bueno, S. Sales, V. Pruneri, 'Chemical composition gratings in germanium doped and boron-germanium', SPIE Photonics Europe 2010 - Optical Sensing and Detection, Brussels (Belgium), April 2010
74. D.S. Ghosh, T.L. Chen and V. Pruneri, 'Thermally stable transparent electrodes from ultra thin metal films for solar cell applications', invited paper at ´ Transparent Conducting Electrodes for Photovoltaics', Bern (Switzerland), 25 January 2010.

75. V. Finazzi, J. Villatoro, G. Coviello, N. Lou, R. Jha, V. Pruneri, ‘Photonic crystal fibre and nanowire based sensors’, invited paper at ‘International Commission for Optics Topical Meeting on Emerging Trends and Novel Materials in Photonics’, Delphi (Greece), 7-9 October 2009.

76. V. Pruneri et al., ‘Quantum transceiver for secure global communications’, invited paper at QuantumComm 2009, Naples (Italy), 26-30 October 2009.

77. D.S. Ghosh, L. Martinez and V. Pruneri, ‘Nickel electrodes transparent from UV to IR applications’, invited paper at ‘Microtechnologies for the new Millennium 2009’, Dresden, Germany, 4-6 May 2009.

78. V. Pruneri, ‘Integrated quantum transceiver for space applications’, invited paper at Topical Team meeting Space-QUEST (Quantum Entanglement for Space Experiments), Vienna (Austria), 2 Oct 2008.

79. L. Martinez, D.S. Ghosh, S. Giurgola, P. Vergani and V. Pruneri, ‘Ultrathin metal film: an emerging transparent electrode for the optoelectronics industry’, invited paper at ‘4th International Conference on Advanced Optoelectronics and Lasers (CAOL 2008)’, Alushta (Ukraine), 29 Sep-4 Oct 2008.

80. V. Finazzi, J. Villatoro and V. Pruneri, ‘Post-processed micro-structured optical fibre sensors’, invited paper at ‘1st workshop on Speciality Optical Fibres and their Applications (WSOF 2008)’, Sao Pedro (Brazil), 20-22 August 2008.

81. D. Janner, S. Longhi and V. Pruneri, ‘Spatial and spatio-temporal wave localization in periodic media’, invited paper at ‘Progress In Electromagnetics Research Symposium (PIERS 2008)’, Cambridge (USA), 2-6 July 2008.

82. D. Janner, D. Tulli, M. Belmonte and V. Pruneri, ‘Integrated electro-optic modulators in micro-structured LiNbO3’, for tailoring the electro-optic response of waveguide modulators’, invited paper at ’14th European Conference on Integrated Optics’, Eindhoven (The Netherlands), 11-13 June 2008.

83. D. Janner, D. Tulli, M. Belmonte and V. Pruneri, ‘Micro- and nano-engineered integrated electro-optic modulators’, invited paper at ‘Iberoamerican Conference on Optics (RIAO) and Latinamerican meeting on Optics, Lasers and Applications (OPTILAS)’, Campinas-SP (Brazil), 21-26 October 2007.

84. V. Pruneri et al., ‘Poled glass vs ferroelectric crystals for integrated electro-optics and all-optical frequency conversion’, invited paper at IEEE ‘Workshop on Fibres and Optical Fibres Components’, Mondello, Italy, 22-24 June 2005.

85. W. Margulis, N. Myren, J. Fage-Pedersen, M. Kristensen, V. Pruneri, M. Belmonte, P. Kazansky, C. Corbari, A. Canagasabey, O. Deparis, M. Ferraris, B. Poumellec, R. Blum, Q. Liu, S. Zhoa, B. Ortega, D. Pastor, G. Martinelli, A. Kudlinski and Y. Quiquempois, ‘Achievements of the Glamorous project on poling’, invited paper at 'OSA Bragg Gratings, Photosensitivity, Poling in Glass Waveguides and Fibres', Star City, Sydney, Australia, 4-9 July 2005.

86. M. Belmonte, S. Balsamo, S. Pensa, D. Pircalaboiu and V. Pruneri, ‘Advanced optical transmitter’, invited paper 5840-90 at ‘Microtechnologies for the new Millennium 2005’, Seville, Spain, 9-11 May 2005.

87. M. Belmonte and V. Pruneri, ‘Advanced optical transmitter’, invited at International workshop on optical networking, Padova, Italy, 7-8 April 2005.

88. V. Pruneri, ‘Integrated electro-optic components for optical telecommunication’, invited paper, Italian Physical Society meeting, Brescia, Italy, 20-25 September 2004.

89. V. Pruneri et al., ‘Applications and commercial perspectives of poled glass devices’, invited paper at ‘Roman Baths Summer School on Advanced Glass-Based Nano-Photonics’ POWAG 2004, July 2004, Bath (UK).

90. F. Lucchi, M. Belmonte, L. Trevisan, and V. Pruneri, ‘Domain engineered integrated electro-optic modulators’, to be presented at ‘Optical Diagnostic and Monitoring: from Advanced Components to novel Devices’, Capo Miseno, Italy, 21-26 March 2004.

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