

Curriculum vitae

Dati personali

Nome	Luigi
Cognome	Zeni
Data di nascita	Dicembre 02, 1962
Luogo di nascita	Pozzuoli (Napoli) - Italia
Indirizzo ufficio	Dipartimento di Ingegneria - Università della Campania <i>Luigi Vanvitelli</i> Via Roma, 29 81031 Aversa
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Esperienze lavorative

1993-1998	Ricercatore di Elettronica presso il Dipartimento di Ingegneria Elettronica - Università di Napoli Federico II
1994	Visiting scientist presso il DIMES (Delft Institute of Microelectronics and Submicrontechnology) Technical University of Delft -The Netherlands (con borsa di studio CNR)
1998-2006	Professore Associato di Elettronica presso il Dipartimento di Ingegneria dell'Informazione - Seconda Università di Napoli
2006- pres.	Professore Ordinario di Elettronica presso il Dipartimento di Ingegneria - Università della Campania <i>Luigi Vanvitelli</i>
2010-pres.	Associato di Ricerca presso l'Istituto per il Rilevamento Elettromagnetico dell'Ambiente del CNR - Napoli
2015	Visiting Professor presso l'Università di Cluj-Napoca (Romania)

Attività di Gestione

2000-2012	Vice-Direttore del Dipartimento di Ingegneria dell'Informazione - Seconda Università di Napoli
2008-pres.	Presidente e membro del comitato direttivo del Consorzio di Ricerca su Sistemi di Telesensori Avanzati- CO.RI.S.T.A. (www.corista.eu) – Napoli
2006-2010	Membro del Management Committee dell'azione COST 299 “Optical fibers for new challenges facing the information society” dell'Unione Europea e responsabile del gruppo “Linear and nonlinear distributed measurement”
2010-2014	Membro del Management Committee dell'azione COST TD1001 “Novel and Reliable Optical Fibre Sensor Systems for Future Security and Safety Applications” dell'Unione Europea
2013-pres.	Membro del Consiglio di Amministrazione della Università della Campania <i>Luigi Vanvitelli</i>
2017-pres.	Delegato del Rettore per l'Area Ricerca e Valutazione per le attività di Trasferimento Tecnologico e Consorzi - Università della Campania <i>Luigi Vanvitelli</i>

2018-pres. Coordinatore per l'Area di Ricerca Optoelettronica e Fotonica della Società Italiana di Elettronica (SIE - www.associazione-sie.it)

Studi

Febbraio 1988 Laurea con lode in Ingegneria Elettronica presso l'Università di Napoli Federico II

Settembre 1992 Dottorato di Ricerca in Ingegneria Elettronica e Informatica - Ministero dell'Università e della Ricerca Scientifica

Novembre 1988 Abilitazione all'esercizio della professione di Ingegnere presso Università di Napoli Federico II

Premi

1995 Premio del Consiglio Nazionale delle Ricerche per attività svolte presso la Technical University of Delft – The Netherlands

2003 Best Poster Award - AISEM - Italian Association for Sensors and Microsystems per il contributo “ARROW structures for sensing applications”

2007 Best Poster Award - AISEM - Italian Association for Sensors and Microsystems per il contributo “Characterization of a silicon integrated Micro- flow cytometer”

Attività di servizio

1996-2016 Membro del Collegio dei Docenti del Dottorato in Ingegneria Elettronica e Informatica - Seconda Università di Napoli

2001-pres. Coordinatore del Laboratorio di Optoelettronica - Seconda Università di Napoli

1996-2006 Delegato per il programma Erasmus/Socrates dell'Unione Europea presso la Seconda Università di Napoli

1998-pres. Supervisore di 15 studenti di dottorato presso la Seconda Università di Napoli

2002-2004 Membro di commissioni di concorso per ricercatore universitario e professore associato presso università italiane

2004 Membro della commissione esaminatrice per l'attribuzione del Dottorato di Ricerca presso la Technical University of Delft – The Netherlands

2007 Membro della commissione tecnica per l'acquisto di arredi per uffici e aule presso la Seconda Università di Napoli

2008 Membro della commissione esaminatrice per l'attribuzione del Dottorato di Ricerca presso la Faculté Polytechnique de Mons - Belgium

2009-pres. Presidente del comitato di area in Ingegneria Industriale e dell'Informazione (CAR 09) per la valutazione delle attività di ricerca presso la Seconda Università di Napoli

2009 Membro della commissione esaminatrice per l'attribuzione del Dottorato di Ricerca presso la Scuola Superiore Sant'Anna - Pisa

2011 Membro della commissione esaminatrice per l'attribuzione del Dottorato di Ricerca presso l'Università Mediterranea di Reggio Calabria

2011	Presidente della commissione di collaudo della rete dati in fibra ottica presso la Seconda Università di Napoli
2011-pres.	Supervisore di studenti di dottorato provenienti da: Public University of Navarra - Pamplona –Spain, University of Cantabria - Spain, University of Aveiro - Portugal
2012	Membro della commissione esaminatrice per l'attribuzione del Dottorato di Ricerca presso l'Università di Napoli Federico II
2012	Presidente della commissione esami di stato per l'abilitazione all'esercizio della professione di ingegnere presso la Seconda Università di Napoli
2013	Membro della commissione esaminatrice per l'attribuzione del Dottorato di Ricerca presso la Scuola Superiore Sant'Anna - Pisa
2014	Membro della commissione esaminatrice per l'attribuzione del Dottorato di Ricerca presso la Vrije University of Amsterdam – The Netherlands
2014	Membro della commissione esaminatrice per l'attribuzione del Dottorato di Ricerca presso la Public University of Navarra - Pamplona –Spain
2014	Membro della commissione esaminatrice per l'assunzione di n. 1 unità di personale con il profilo di Ricercatore a Tempo Determinato – (art. 24, comma 3, lettera a - Legge 240/2010) presso l'Università del Sannio
2015	Supervisore di un Visiting Professor proveniente dall'Università di Cluj-Napoca (Romania)
2015-pres.	Supervisore di studenti ERASMUS provenienti dall'Università di Cluj-Napoca (Romania)
2016	Presidente della commissione di concorso per l'assunzione di n. 1 unità di personale con il profilo di Ricercatore a Tempo Determinato presso la Scuola Superiore Sant'Anna - Pisa
2016	Presidente della commissione di concorso per l'assunzione di n. 2 unità di personale con il profilo di Ricercatore, III livello professionale, da assegnare al Dipartimento Ingegneria, ICT e Tecnologie per l'Energia e i Trasporti del Consiglio Nazionale delle Ricerche
2016-pres.	Membro della commissione di conferma nel ruolo di professore ordinario per il settore scientifico-disciplinare ING-INF/01
2017	Membro della commissione esaminatrice per l'assunzione di n. 1 unità di personale con il profilo di Ricercatore a Tempo Determinato – (art. 24, comma 3, lettera b - Legge 240/2010) presso l'Università di Sassari
2017	Membro della commissione esaminatrice del concorso pubblico per la copertura di n. 1 posto a tempo indeterminato della figura professionale di Funzionario tecnico – indirizzo telecomunicazioni – presso la Provincia Autonoma di Trento

Servizi Editoriali

2005-pres.	Membro della Editorial Board di Sensors & Transducers Journal (ISSN 1726- 5479)
2005-pres.	Membro della Editorial Board di Sensors (ISSN 1424-8220)
2006	Membro dello Steering Committee: Bilateral China-Italy Workshop on Photonics for Communication and Sensing, Xi'an –China
2007	Guest Editor del numero speciale “Optical biosensors” per la rivista internazionale “Sensors”
2008	Membro del Comitato Scientifico della First Mediterranean Photonics Conference – Ischia – Italy

2011	Membro of Comitato Scientifico della Conferenza Nazionale Fotonica2011 – Genova
2012	Membro del Technical Program Committee della 2012 IEEE International Power Modulator and High Voltage Conference - San Diego CA - USA
2014	Membro of Comitato Esecutivo della Conferenza Nazionale Fotonica2014 – Napoli
2015	Membro del Comitato Scientifico della International Conference on Sensors Engineering and Electronics Instrumental Advances (SEIA' 2015)
2015-pres.	Membro del Technical Program Committee dell' European Workshop on Optical fiber Sensors (EWOFS)
2017	Co-Chair dell'Academic Committee del 6th International Forum on Opto-electronic Sensor-based Monitoring in Geo-engineering - November 3-5, 2017, Nanjing, China
2017	Guest Editor del numero speciale “Optical Biochemical Sensor Systems and Applications” della rivista “Sensors”

Ricerche finanziate

2000	Coordinatore Nazionale di un progetto PRIN finanziato dal Ministero dell'Università e della Ricerca
2001	Coordinatore scientifico di un progetto di ricerca finanziato dall' ENEA
2004	Coordinatore scientifico di un progetto di ricerca finanziato dalla società CITEL
2005	Coordinatore Nazionale di un progetto PRIN finanziato dal Ministero dell'Università e della Ricerca
2005	Coordinatore scientifico di un progetto di ricerca finanziato dalla Regione Campania L.R. 5
2006	Coordinatore scientifico di un progetto di ricerca finanziato dall' INGV
2007	Responsabile scientifico di due progetti di ricerca finanziati dalla Regione Campania L.R. 3.17
2009	Coordinatore scientifico di un progetto di ricerca (PRIST) finanziato dalla Seconda Università di Napoli
2010	Responsabile scientifico del progetto FP7 ACEM-Rail (GA n. 265954) finanziato dall'Unione Europea
2011	Responsabile scientifico di un progetto di ricerca (PON01_01525 - MONICA) finanziato dal Ministero dell'Università e della Ricerca
2012	Coordinatore scientifico di un progetto di ricerca finanziato dalla società DIMMS Control S.p.A. - Italia
2014	Coordinatore scientifico per la Seconda Università di Napoli del contratto di sviluppo SIRENA finanziato dal Ministero dello Sviluppo Economico
2014	Coordinatore scientifico per la Seconda Università di Napoli del contratto di programma WISCH finanziato dalla Regione Campania
2014	Responsabile scientifico di un progetto di ricerca (PON03_00767 - TOP-IN) finanziato dal Ministero dell'Università e della Ricerca
2014	Coordinatore scientifico di due contratti di ricerca finanziati da RSE - Milano
2014	Coordinatore scientifico di un contratto di ricerca finanziato dall'Istituto Nazionale di Astrofisica
2015	Coordinatore scientifico di un contratto di ricerca finanziato dalla RSE - Milano

- 2015 Coordinatore scientifico di un contratto di ricerca finanziato dalla MEDINOK - Italia
- 2015 Coordinatore scientifico di un contratto di ricerca finanziato dalla NetGroup – Italia
- 2017 Responsabile scientifico di un contratto di ricerca finanziato dalla società Copernico - Italia

Brevetti nazionali e internazionali

- 1991 A. Cutolo, S. Solimeno, L. Zeni, “Analizzatore di stabilità modale per laser pulsati” N. MI91A001822
- 1991 A. Cutolo, T. Isernia, R. Pierri, L. Zeni, “Analizzatore di modi trasversi per fasci laser” N.MI91A002056
- 2005 A. De Angelis, L. Zeni “Generatore di impulsi di tensione di durata e polarità variabile mediante la configurazione Blumlein” N. RM2005A000355
- 2006 R. Bernini, A, Minardo, L. Zeni, “Metodo di misura di profilo di shift Brillouin in fibra ottica basato sulla demodulazione ottica dei segnali, e relativo apparato” N. RM2006A000302
- 2007 R. Bernini, A, Minardo, L. Zeni, “Method for measuring the Brillouin shift distribution along optical fiber based on the optical demodulation of the signals, and relevant apparatus”, European Patent EP1865289
- 2008 R. Bernini, A, Minardo, L. Zeni, “Metodo di misura di deformazioni dinamiche in fibra ottica basato sullo scattering di Brillouin tra due impulsi ottici, e relativo apparato”, N. RM2008A626
- 2009 R. Bernini, A, Minardo, L. Zeni, “Method for measuring the Brillouin shift distribution along optical fiber based on the optical demodulation of the signals, and relevant apparatus”, US PATENT no. 7515273
- 2011 R. Bernini, A. Minardo, L. Zeni “Metodo di ricostruzione del profilo di shift Brillouin in fibra ottica a partire da misure di scattering di Brillouin eseguite nel dominio della frequenza”, N. RM2011A000525 Second University of Naples
- 2011 A. Buonanno, M. D'Urso, C. Falessi, M. G. Labate, G. Sorrentino, L. Zeni "Interruttore fotoconduttivo" N. RM2011A000410 SELEX SISTEMI INTEGRATI S.p.A.
- 2011 A. Buonanno, M. D'Urso, C. Falessi, M. G. Labate, G. Sorrentino, L. Zeni "Apparato di irradiazione di un impulso elettromagnetico nel dominio del tempo a relativo metodo di sintesi di un impulso elettromagnetico" N. RM2011A000412 SELEX SISTEMI INTEGRATI S.p.A.
- 2016 N. Cennamo, G. D'Agostino, A. Donà, P. Pallavicini, M. Pesavento, L. Zeni, "Sensore ottico per la rilevazione della concentrazione di almeno una sostanza esplosiva in una soluzione acquosa e metodo di rilevazione che utilizza tale sensore" N. 0001422644 del 03-06-2016 - Seconda Università di Napoli
- 2016 N. Cennamo, G. D'Agostino, L. De Maria, M. Pesavento, L. Zeni, "Metodo per la rilevazione in linea della concentrazione di almeno un composto furanico e/o di suoi derivati nell'olio di trasformatori" N. 0001422844 del 16-06-2016 - Ricerca sul Sistema Energetico SpA - Milano

Terza Missione

2013 Socio fondatore dello Spinoff accademico OPTOSENSING

Attività di revisione

Progetti di ricerca

1998-pres. Progetti del Ministero dell'Università e della Ricerca e del Ministero dello Sviluppo Economico
2011 Progetti della Israel Science Foundation (ISF)
2015 Progetti della Accademia delle Scienze Polacca
2015 Progetti dell'European Research Council

Riviste internazionali

1998-pres. Revisore per: Solid State Electronics, Optics Letters, Journal of the Electrochemical Society, IEEE-OSA Journal of Lightwave Technology, Smart Materials and Structures, IEEE Sensor Journal, Optics Express, Journal of the Optical Society of America, Optics Communications, Measurement Science and Technology, Analytical & Bioanalytical Chemistry, Bioelectromagnetics, Sensors and Actuators, Sensors, IEEE Photonic Technology Letters, IEEE Transactions on Dielectrics and Electrical Insulation, PlosOne, Geophysical Research Letters.

Comitati di Revisione

2002-pres. Membro dell'Albo dei Revisori del Ministero dell'Università e della Ricerca
2004-pres. Membro dell'Albo dei Revisori per i programmi quadro dell'Unione Europea

Attività di ricerca

1988-1995 Caratterizzazione di fasci laser
1992-2000 Caratterizzazione di materiali per l'elettronica e l'optoelettronica
2001-pres. Sensori distribuiti in fibra ottica
2001-pres. Dispositivi optoelettronici integrati e biosensori
2004-pres. Sensori in guida d'onda dielettrica planare
2005-pres. Generatori di impulsi elettrici ad alta tensione per applicazioni bio-elettriche
2010-pres. Sensori basati su risonanza plasmonica in fibre ottiche polimeriche

Attività di insegnamento

1993-1998 Elettronica analogica presso l'Università di Napoli Federico II
2003-2005 Elettronica digitale presso l'Università di Napoli Parthenope
1999-pres. Elettronica digitale e optoelettronica presso l'Università della Campania
Luigi Vanvitelli

Collaborazioni Internazionali

1994-pres.	Delft Institute for Microelectronics and Submicron technology (DIMES) – TU-Delft, The Netherlands
1998-1999	IMEC – Leuven – Belgium
2004-pres.	Ecole Polytechnique Fédérale de Lausanne, Switzerland
2007-pres.	Frank Reidy Research Center for Bioelectronics, Old Dominion University, Norfolk, Virginia, USA
2007-pres.	Tel-Aviv University, Tel-Aviv, Israel
2008-pres.	Wroclaw University of Technology, Poland
2009-pres.	University of Southern California, USA
2010-pres.	Military University, Warsaw, Poland
2010-pres.	Public University of Navarra – Pamplona - Spain
2010-pres.	Vrije University Amsterdam, The Netherlands
2012-pres.	University of Cluj-Napoca - Romania
2013-2015	Tufts University - Boston - USA
2013-pres.	INESCPORTO- Porto - Portugal
2014-pres.	University of Cantabria - Santander – Spain
2016-pres.	Nanjing University – Nanjing - P. R. China
2016-pres.	University of Aveiro – Aveiro - Portugal

Collaborazioni Nazionali

2000-pres.	National Research Council – Institute for Electromagnetic Sensing of the Environment (CNR-IREA)
2005-pres.	University of Naples Federico II
2005-pres.	Scuola Superiore Sant’Anna – Pisa - Italy
2005-pres.	National Research Council - Institute for Protein Biochemistry (CNR-IBP)
2006-pres.	Istituto Nazionale di Geofisica e Vulcanologia - Italy
2009-pres.	CIRA - Centro Italiano di Ricerche Aerospaziali - Italy
2013-pres.	University of Pavia - Department of Chemistry

Pubblicazioni scientifiche

1988-pres.	146 articoli su riviste internazionali, 7 capitoli di libri internazionali, 6 articoli su riviste nazionali, 141 atti di conferenze internazionali, 40 atti di conferenze nazionali.
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Qualificazione scientifica (SCOPUS)

1988-pres.	H-Index: 29 Numero complessivo di citazioni: 2760; Numero complessivo di prodotti: 272
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Elenco delle pubblicazioni:

- Riviste Internazionali

- AI1** R. Bruzzese, V. Berardi, F. Cappiello, S. Solimeno, N. Spinelli, A. Cutolo, L. Zeni, «Experimental investigation of macropulse fluctuations in a picosecond neodymium-doped yttrium aluminium garnet laser», *JOURNAL OF PHYSICS D: APPLIED PHYSICS* **21**, 1710 (1988).
- AI2** A. Cutolo, L. Zeni, V. Berardi, R. Bruzzese, S. Solimeno, N. Spinelli, «Measurement of pulse lengthening with pulse energy increase in picosecond Nd:YAG laser pulses», *JOURNAL OF APPLIED PHYSICS* **65**, 2187 (1989).
- AI3** A. Cutolo, L. Zeni, V. Berardi, R. Bruzzese, S. Solimeno, N. Spinelli, «Mode size and time duration fluctuations in a picosecond Nd:YAG laser», *OPTICS LETTERS* **14**, 494 (1989).
- AI4** L. Zeni, A. Cutolo, S. Solimeno, «Second harmonic generation as a tool for measuring mode coupling, pulse length and mode size in short laser pulses», *JOURNAL OF MODERN OPTICS*, **37**, 2085 (1990).
- AI5** A. Cutolo, L. Zeni, «Self induced mismatching effects in harmonic generation with ultrashort laser pulses», *OPTICS AND LASER TECHNOLOGY*, **23**, 109 (1991).
- AI6** A. Cutolo, A. Esposito, T. Isernia, R. Pierri, L. Zeni, «Characterization of the transverse modes in a laser beam: Analysis and application to a Q-switched Nd:YAG laser», *APPLIED OPTICS*, **31**, 2722 (1992).
- AI7** A. Cutolo, L. Zeni, «Improvements to the diagnostics of beam quality in CW and pulsed laser systems», *OPTICS COMMUNICATIONS*, **89**, 223 (1992).
- AI8** A. Cutolo, F. Ferreri, T. Isernia, R. Pierri, L. Zeni, «Measurement of the waist and the power distribution across the transverse modes of a laser beam», *OPTICAL AND QUANTUM ELECTRONICS*, **24**, S963 (1992)
- AI9** S. Panachia, A. Cutolo, S. Solimeno, L. Zeni, «Background free autocorrelators by counter propagating surface plasmons», *OPTICS COMMUNICATIONS*, **100**, 215 (1993).
- AI10** G. Breglio, A. Cutolo, P. Spirito, L. Zeni, «Interferometric measurement of electron-hole pair recombination lifetime as a function of the injection level», *IEEE ELECTRON DEVICE LETTERS*, **14**, 487 (1993).
- AI11** G. Breglio, A. Cutolo, L. Zeni, F. Corsi, D. De Venuto, G. Portacci, «Gain switched laser diodes for the characterization of subnanosecond voltage pulses», *OPTICS COMMUNICATIONS*, **111**, 276 (1994).
- AI12** A. Cutolo, L. Zeni, «Electrically driven supergaussian mirrors», *PURE AND APPLIED OPTICS*, **3**, 467 (1994).
- AI13** S. D'Aliento, A. Sanseverino, P. Spirito, P.M. Sarro, L. Zeni, «Recombination centers identification in very thin silicon epitaxial layers via lifetime measurements», *IEEE ELECTRON DEVICE LETTERS* **17**, 148 (1996)
- AI14** A. Cutolo, T. Isernia, I. Izzo, R. Pierri, L. Zeni, «Transverse mode analysis of a laser beam by near and far field intensity measurements» *APPLIED OPTICS*, **34**, 7974 (1995)
- AI15** A. Irace, G. Breglio, A. Luciano, A. Cutolo, L. Zeni, «A novel configuration for a wide range high power fiber optic current sensor», *EUROPEAN TRANSACTIONS ON ELECTRICAL POWER ENGINEERING* **7**, 319 (1997)
- AI16** A. Cutolo, M. Della Noce, L. Zeni, «Real time measurement of transverse mode mixing effects in a Q-Switched Nd:YAG laser», *APPLIED OPTICS*, **35**, 2544 (1996)
- AI17** R. Bernini, A. Cutolo, A. Irace, P. Spirito, L. Zeni, «Contactless characterization of the recombination process in silicon wafers: separation between bulk and surface contributions», *SOLID STATE ELECTRONICS*, **39**, 1165 (1996)
- AI18** A. Cutolo, M. Iodice, P. Spirito, L. Zeni, «Silicon Electro-Optic Modulator Based on a Three Terminal Device Integrated in a Low-Loss Single-Mode SOI Waveguide», *IEEE JOURNAL OF LIGHTWAVE TECHNOLOGY*, **18**, 505-518 (1997)

- AI19** A. Cutolo, M. Iodice, A. Irace, P. Spirito and L. Zeni «An electrically controlled Bragg reflector integrated in a rib SOI waveguide», *APPLIED PHYSICS LETTERS*, July (1997)
- AI20** A. Cutolo, A. Irace, P. Spirito, L. Zeni, «Optical measurement of effective recombination lifetime in silicon epitaxial layers», *APPLIED PHYSICS LETTERS*, (1997)
- AI21** S. Daliento, A. Sanseverino, P. Spirito, L. Zeni, «Parametric description of the effect of electron irradiation on recombination lifetime in silicon layers: an experimental approach», *IEEE TRANSACTIONS ON POWER ELECTRONICS*, **14**, 117 (1999)
- AI22** A. Cutolo, S. Daliento, A. Sanseverino, G.F. Vitale, L. Zeni, «An optical technique to measure the bulk lifetime and the surface recombination velocity in silicon samples based on a laser diode probe system», *SOLID STATE ELECTRONICS*, **42**, 1035-1038 (1998)
- AI23** G. Breglio, A. Cutolo, A. Irace, P. Spirito, L. Zeni, M. Iodice, P.M. Sarro, «Two silicon optical modulators realizable with a fully compatible bipolar process», *IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS*, **4**, 1003 (1998)
- AI24** L. Zeni, R. Bernini, R. Pierri, «Reconstruction of doping profiles in semiconductor materials using optical tomography», *SOLID STATE ELECTRONICS*, **43**, 761-769 (1999)
- AI25** P. Spirito, S. Daliento, A. Sanseverino, L. Zeni, "Comment to: Temperature dependence of carrier recombination lifetime in Si wafers", *JOURNAL OF ELECTROCHEMICAL SOCIETY*, **146**, 1273 (1999)
- AI26** A. Irace, L. Sirleto, G.F. Vitale, A. Cutolo, L. Zeni, J. Horzel, J. Szlufcik, "Transverse probe optical lifetime measurement as a tool for in-line characterization of the fabrication process of a silicon solar cell", *SOLID STATE ELECTRONICS*, **45**, 2235-2242 (1999)
- AI27** G. Breglio, A. Cutolo, A. Irace, P. Spirito, L. Zeni, "New experimental results of optically activated BMFET switches with different cell design", *IEEE TRANSACTIONS ON POWER ELECTRONICS*, **14**, 877 (1999)
- AI28** L. Zeni, R. Bernini, R. Pierri, "Optical tomography for dielectric profiling in processing electronic and optoelectronic materials", *Chemical Engineering Journal*, **77**, 137-142 (2000).
- AI29** R. Bernini, R. Pierri, L. Zeni, "An iterative method for optical reconstruction of graded index profiles in planar dielectric waveguides", *IEEE/OSA Journal of Lightwave Technology*, **18**, 729-736 (2000)
- AI30** L. Zeni, S. Campopiano, A. Cutolo, G. D'Angelo, "Power semiconductor laser diode arrays characterization", *Optics and Lasers in Engineering*, **39**, 203-217 (2003)
- AI31** A. Irace, L. Sirleto, P. Spirito, G. F. Vitale, A. Cutolo, S. Campopiano and L. Zeni, "Optical Characterization of the Recombination Process in Silicon Wafers, Epilayers and Devices", *Optics and Lasers in Engineering*, **39**, 219-232 (2003).
- AI32** R. Bernini, S. Campopiano, L. Zeni, "Design and analysis of an integrated ARROW refractive index sensor ", *Applied Optics*, **41**, 70-73 (2002)
- AI33** L. Sirleto, A. Irace, G.F. Vitale, L. Zeni, A. Cutolo, "Separation of the bulk lifetime and surface recombination velocity obtained by transverse optical probing and multi-wavelength technique", *Optics and Lasers in Engineering*, **38**, 461-472 (2002)
- AI34** R. Bernini, L. Crocco, A. Minardo, F. Soldovieri, L. Zeni, "Frequency domain approach to distributed fiber-optic Brillouin sensing", *Optics Letters*, **27**, nr. 5, (2002)
- AI35** R. Bernini, S. Campopiano, L. Zeni, "Silicon micromachined hollow optical waveguides for sensing applications", *Journal of Selected Topics in Quantum Electronics*, **8**, 106-110 (2002)
- AI36** R. Bernini, A. Minardo, L. Zeni, "Reconstruction technique for stimulated Brillouin scattering distributed fiber optic sensors", *Optical Engineering*, **41**, nr.9, 2186-2194 (2002)
- AI37** R. Bernini, L. Crocco, A. Minardo, F. Soldovieri, L. Zeni "All frequency domain distributed fiber-optic Brillouin sensing", *IEEE Sensors Journal*, **3**, 36-43 (2003)
- AI38** L. Sirleto, A. Irace, G.F. Vitale, L. Zeni, A. Cutolo, "Separation of bulk lifetime and surface recombination velocity by multiwavelength technique", *Electronics Letters*, **38**, 1742-1743 (2002)
- AI39** L. Sirleto, A. Irace, G.F. Vitale, L. Zeni, A. Cutolo, "All optical multi-wavelength technique for the simultaneous measurement of bulk recombination lifetimes and front/rear surface

- recombination velocity in single crystal silicon samples”, *Journal of Applied Physics*, **93**, 3407-3413 (2003)
- AI40** G. Coppola, A. Irace, G. Breglio, M. Iodice, L. Zeni, A. Cutolo, P. M. Sarro, “Three terminal optoelectronics devices integrated into a silicon on silicon waveguide”, *Optics and Lasers in Engineering*, **39**, 317-332 (2003)
- AI41** R. Bernini, S. Campopiano, C. de Boer, P. M. Sarro, L. Zeni “Planar antiresonant reflecting optical waveguides as integrated optical refractometers”, *IEEE Sensors Journal*, **3**, 652-657 (2003)
- AI42** R. Bernini, A. Minardo, L. Zeni, “Accuracy enhancement in Brillouin distributed fiber-optic temperature sensors using signal processing techniques”, *IEEE Photonics Technology Letters*, **16**, 1143-1145 (2004)
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