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Ricercatrice
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Titoli di Studio

Politecnico di Bari - Bari
Dottorato in Ingegneria Elettronica, Maggio 2006 - Giugno 2009
Tesi: "Optical Nanosensors: from periodic structures to plasmonic devices"
Relatori: Prof. A. D'Orazio (Politecnico di Bari), Dr. Michael Scalora (US Army)

Politecnico di Bari - Bari
***Laurea* in Ingegneria Elettronica,** Settembre 2001 – Dicembre 2005
Voto: 110/110 e lode
Tesi: "Re-multiplexer for MPEG2/ASI numeric data for DVB applications"
Relatori: Prof. A. D'Orazio (Politecnico di Bari), Marco Fiore (Elettronika S.R.L.)

Esperienze Professionali

Ricercatore, Marzo 2017 – in corso
Dipartimento di Ingegneria dell'Informazione - Università di Brescia
Via Branze 38, 25123 Brescia

Research Scientist, Agosto 2016 – Marzo 2017
AEgis Technologies Inc. – Huntsville, AL - USA

Research Associate, Novembre 2012 – Febbraio 2017
The National Academies – National Research Council at US ARMY – AMRDEC

Research Scientist, Ottobre 2009 – Ottobre 2012
AEgis Technologies Inc. – Huntsville, AL - USA

Assistente di Ricerca, Luglio 2009 – Settembre 2009
Politecninco di Bari, Via Orabona 4, 70125 – Bari

Research Fellow, March 2007 – September 2009
US ARMY - Charles M. Bowden Laboratory – Redstone Arsenal, AL - USA

Ingegnere Elettronico, Luglio 2005 – Luglio 2006
Elettronika S.R.L., s.s. 96 Km 113 Z.I. – 70027 Palo del Colle (BA)

Parametri Bibliometrici e Pubblicazioni

- **Citazioni** 1268; **h-index** 23 (Google Scholar aggiornato al 30 Maggio 2017)
- **153 Articoli** in riviste e conferenze internazionali peer-reviewed
- **3 Capitoli di Libro**
- **1 Brevetto USA**

Premi e Fellowships

- Vincitrice del Programma per Giovani Ricercatori "Rita Levi Montalcini" (bando anno 2014) con il progetto: *"Linear and Nonlinear Dynamics of plasma resonant materials"*

- Vincitrice della fellowship del National Research Council of the National Academy of Sciences (2012 – 2017) con il progetto:
  "Linear and nonlinear electrodynamics in epsilon-near-zero metamaterials"

- Vincitrice di due premi AEgis Technologies IR&D:

  All-optical wideband plasmonic beam steering (2011, Internal R&D award)

  Hydrogen sensor (2011, Internal R&D award)

- Vincitrice di cinque contratti finanziati dall' US Department of Defense (DoD) con AEgis Technologies:

  Defense Advanced Research Projects Agency (DARPA) (2009, Contract no. W31P4Q-11-C-0237 phase I, II and second phase II): *Photonic Band Gap Structures for Solar Energy Generation*

  US Air Force (2010, Contract no. FA8650-11-M-5150): *Plasmonic beamsteering*

  US Army (2016, A2-6238 Topic: A090A-T002 Awarded, Second phase II, a*waiting contract*): *Nonlinear plasmonics*

US Army (2016, A2-6252 Topic: SB092-002 Awarded, Second phase II, a*waiting contract*): *Photonic Band Gap Structures for Solar Energy Generation*

- Vincitrice di quattro contratti per ricerca di base finanziati dall' US ARMY - ITCA

  US Army ITCA Grant for Research Activity (2008, Contract no. *W911NF-09-1-0077*): *Harmonic Generation from Metallic Substrates with Sub-wavelength Apertures: Symmetric Propagator and Calculation of Energy Conversion Efficiencies by Means of 2D-FDTD*

  US Army ITCA Grant for Research Activity (2008, Contract no. W911NF-08-1-0085): *Loss Compensation in metallo-dielectric structures in negative refraction and super-resolving regimes*

  US Army ITCA Grant for Research Activity (2007, Contract no. W911NF-07-1-0567): *Analysis and Design of a Palladium based Hydrogen Leak Detection Sensor*

  US Army ITCA Grant for Research Activity (2007, Contract no. N62558-07-P-0065): *Experimental and theoretical investigations on linear and nonlinear interactions in transparent metals, for applications to super-resolution and super-guiding*

- Vincitrice del "Bando borse di ricerca all'estero finanziate dalla Regione Puglia" (2008): *Metal-Dielectric Structure and Super-resolution regime, a path to loss compensation*

- Vincitrice della borsa di studio per il dottorato di ricerca in Ingegneria Elettronica - XXI ciclo (2006)

Qualifiche, Affiliazioni e Attività Professionali

- Correlatrice per undici studenti di laurea quinquennale (vecchio ordinamento) e laurea magistrale in Ingegneria Elettronica presso il Politecnico di Bari.
- Correlatrice per due studenti di laurea triennale in Ingegneria Elettronica presso il Politecnico di Bari.
- Esercitatrice per i corsi di Campi Elettromagnetici e Microonde presso il Politecnico di Bari
- Membro della Optical Society of America, Sigma Xi, SPIE e IEEE
- Revisore per le seguenti riviste internazionali: Optics Letters, Optics Express, Journal of Optical Society of America B, Applied Optics, Journal of European Optical Society, Progress in electromagnetic research, Optics

Communications, Journal of Optics, ACS Applied Materials and Interfaces, Journal of Applied Physics, ACS Photonics, Scientific Reports

- Membro del comitato organizzatore per il workshop: "Linear and Nonlinear Optical Interactions in Metamaterials and Plasmonic Nanostructures", Huntsville – AL, June 21-22 (2012)
- Membro del comitato tecnico per la conferenza CLEO/QELS 2014, sessione "Fundamental Science 03 Metamaterials and Complex Media", San Jose, CA – June 8-13 (2014)

Altri Titoli di Studio

Sustainable Energy Conversion and Storage Certificate
Luglio 2011- Dicembre 2011
Stanford University – Stanford Center for Professional Development
Photovoltaics; Energy Storage; Hydrogen Economy; Fuel Cells – Hydrogen utilization

Winter College on Optics in Environmental Science, Febbraio 2009
Abdus Salam International Centre for Theoretical Physics – Trieste, Italy

Distributed European Doctoral School on Metamaterials, Ottobre 2007
Universita' di Roma Tre – Rome, Italy

V SIEM PhD School on Ultra Wide Band Systems, Settembre 2006
Universita' degli Studi di Genova, Italy

RF Power Amplifiers: linear and nonlinear design techniques, Giugno 2006
ST Microelectronics e Politecnico di Bari – Bari, Italy

Telecom services based on wireless networks, Giugno 2006
MAC&NIL S.r.l e Politecnico di Bari – Bari, Italy

Remote Sensing: technologies for earth observation, Giugno 2006
Planetek Italia S.r.l e Politecnico di Bari – Bari, Italy

Lista delle pubblicazioni

Articoli in riviste internazionali peer-reviewed

[J64] H. Chen, V. Corboliou, A. S. Solntsev, D.-Y. Choi, M. A Vincenti, D. de Ceglia, C. de Angelis, Y. Lu and D. N. Neshev, "Enhanced second-harmonic generation from two-dimensional MoSe2 on a silicon waveguide," Light: Science and Applications 6, e17060 (2017).
[J63] M. A. Vincenti, D. de Ceglia, C. De Angelis, and M. Scalora, "Surface-plasmon excitation of second-harmonic light: emission and absorption," J. Opt. Soc. Am. B 34, 633-641 (2017).
[J62] D. de Ceglia, M. A. Vincenti, N. Akozbek, M. J. Bloemer, and M. Scalora, "Nested plasmonic resonances: extraordinary enhancement of linear and nonlinear interactions", Optics Express 25, 3980-3990 (2017).
[J61] D. de Ceglia, M. A. Vincenti and M. Scalora, "On the origin of third harmonic light from hybrid metal-dielectric nanoantennas", Journal of Optics 18, 115002 (2016).
[J60] M. Grande, G. V. Bianco, M. A. Vincenti, D. de Ceglia, P. Capezzuto, V. Petruzzelli, M. Scalora, G. Bruno, and A. D'Orazio, "Optically transparent microwave screens based on engineered graphene layers", Optics Express 24, 22788-22795 (2016).
[J59] M. A. Vincenti, D. de Ceglia, M. Scalora, "Anomalous nonlinear absorption in epsilon-near-zero materials: Optical limiting and all-optical control", Optics Letters 41, 3611-3614 (2016).
[J58] D. de Ceglia, M. A. Vincenti, M. Grande, G. V. Bianco, G. Bruno, A. D'Orazio, M. Scalora, "Tuning infrared guided-mode resonances with graphene", J. Opt. Soc. Am. B 33, 426-433 (2016).
[J57] M. Grande, G. V. Bianco, M. A. Vincenti, D. de Ceglia, P. Capezzuto, M. Scalora, A. D'Orazio, G. Bruno, ''Optically transparent microwave polarizer based on quasi-metallic graphene", Scientific Reports 5, 17083 (2015).
[J56] M. Scalora, M. A. Vincenti, D. de Ceglia, C. M. Cojocaru, M. Grande, and J. W. Haus, "Nonlinear Duffing oscillator model for third harmonic generation", J. Opt. Soc. Am. B 32, 2129-2138 (2015) .
[J55] M. Grande, M.A. Vincenti, T. Stomeo, G. V. Bianco, D. de Ceglia, N. Aközbek, V. Petruzzelli, G. Bruno, M. De Vittorio, M. Scalora, A. D'Orazio, "Graphene-based perfect optical absorbers harnessing guided mode resonances", Optics Express 23, 1032-21042 (2015).
[J54] T. S. Luk, D. de Ceglia, S. Liu, G. A. Keeler, R. P. Prasankumar, M. A. Vincenti, M. Scalora, M. B. Sinclair and S. Campione, "Enhanced third harmonic generation from the epsilon-near-zero modes of ultrathin films," Applied Physics Letters 106, 151103 (2015).
[J53] D. de Ceglia, M. A. Vincenti, C. De Angelis, A. Locatelli, J.W. Haus, M. Scalora,"Role of antenna modes and field enhancement in second harmonic generation from dipole nanoantennas," Opt. Express 23, 1715-1729 (2015).
[J52] M. Grande, M.A. Vincenti, T. Stomeo, G. V. Bianco, D. de Ceglia, N. Aközbek, V. Petruzzelli, G. Bruno, M. De Vittorio, M. Scalora, A. D'Orazio, "Graphene-based absorber exploiting guided mode resonances in one-dimensional gratings", Optics Express 22, 31511 (2014).

[J51] S. Campione, D. de Ceglia, C. Guclu. M.A. Vincenti, M. Scalora, and F. Capolino, "Fano collective resonance as complex mode in a two-dimensional planar metasurface of plasmonic nanoparticles," Appl. Phys. Lett., 105, 191107 (2014).
[J50] M. Scalora, M. A. Vincenti, D. de Ceglia, J. W. Haus, "Nonlocal and quantum-tunneling contributions to harmonic generation in nanostructures: Electron-cloud-screening effects," Phys. Rev. A 90, 013831 (2014).
[J49] M. A. Vincenti, D. de Ceglia, M. Grande, A. D'Orazio, and M. Scalora, "Third-harmonic generation in one-dimensional photonic crystal with graphene-based defect," Phys. Rev. B 89, 165139 (2014).
[J48] Y. Wu, N. Dong, S. Fu, J. D. Fowlkes, L. Kondic, M. A. Vincenti , D. de Ceglia , and P. D. Rack, "Directed Liquid Phase Assembly of Highly Ordered Metallic Nanoparticle Arrays", ACS Appl. Mater. Interfaces 6 (8), 5835-5843 (2014).
[J47] J. W. Haus, D. de Ceglia, M. A. Vincenti, M. Scalora, "Nonlinear quantum tunneling effects in nanoplasmonic environments: two-photon absorption and harmonic generation", Journal of Optical Society of America B 31, A13-A19 (2014).
[J46] D. de Ceglia, M. A. Vincenti, S. Campione, F. Capolino, J. W. Haus, M. Scalora, "Second-harmonic double-resonance cones in dispersive hyperbolic metamaterials", Physical Review B 89, 075123 (2014).
[J45] J. W. Haus, D. de Ceglia, M. A. Vincenti, M. Scalora, "Quantum conductivity for metal–insulator–metal nanostructures", Journal of Optical Society of America B 31, 259-269 (2014).
[J44] M. A. Vincenti, D. de Ceglia, M. Scalora, "Nonlinear Dynamics in Low Permittivity Media: The Impact of Losses", Optics Express 21, 29949-29954 (2013).
[J43] M. A. Vincenti, D. de Ceglia, J. W. Haus, M. Scalora, "Harmonic generation in multiresonant plasma films", Physical Review A 88, 043812 (2013).
[J42] M. Scalora, M. A. Vincenti, D. de Ceglia, M. Grande, J. W. Haus, "Spontaneous and stimulated Raman scattering near metal nanostructures in the ultrafast, high-intensity regime", Journal of Optical Society of America B 30, 2634-2639 (2013).
[J41] M. A. Vincenti, D. de Ceglia, M. Grande, A. D'Orazio, and M. Scalora, "Nonlinear control of absorption in one-dimensional photonic crystal with graphene-based defect," Optics Letters 38, 3550-3553 (2013).
[J40] M. Grande, T. Stomeo, G. V. Bianco, M. Vincenti, D. de Ceglia, V. Petruzzelli, G. Bruno, M. De Vittorio, M. Scalora, A. D'Orazio, "Fabrication of doubly resonant plasmonic nanopatch arrays on graphene", Applied Physics Letters 102, 231111 (2013).
[J39] M. Vincenti, D. de Ceglia, M. Grande, A. D'Orazio, M. Scalora, "Tailoring absorption in metal gratings with ultra-thin bridges", Plasmonics 8, 1445-1456 (2013).
[J38] M. Grande, G. V. Bianco, M. A. Vincenti, D. de Ceglia, V. Petruzzelli, M. Scalora, G. Bruno, A. D'Orazio, M. De Vittorio, T. Stomeo, "2D Plasmonic gold nano-patches for linear and nonlinear applications," Microelectronic Engineering 111, 234-237 (2013).
[J37] D. de Ceglia, S. Campione, M. A. Vincenti, F. Capolino, M. Scalora, "Low-damping epsilon-near-zero slabs: Nonlinear and nonlocal optical properties," Physical Review B 87, 155140 (2013).
[J36] S. Campione, D. de Ceglia, M. A. Vincenti, M. Scalora, F. Capolino, "Electric field enhancement in ε-near-zero slabs under TM-polarized oblique incidence," Physical Review B 87, 035120 (2013).

[J35] M. Grande, M. A. Vincenti, T. Stomeo, G. V. Bianco, D. de Ceglia, G. Morea, R. Marani, V. Marrocco, V. Petruzzelli, M. De Vittorio, G. Bruno, M. Scalora, A. D'Orazio, "Novel plasmonic bio-sensing system based on two-dimensional gold patch arrays for linear and nonlinear regimes," Advances in Science and Technology 81, 15-19 (2013).
[J34] M. A. Vincenti, M. Grande, G. V. Bianco, D. de Ceglia, T. Stomeo, M. De Vittorio, V. Petruzzelli, G. Bruno, A. D'Orazio, M. Scalora, "Surface-enhanced Raman scattering at the plasmonic band edge of finite arrays of gold nano-patches", Journal of Applied Physics 113, 013103 (2013).
[J33] M. A. Vincenti, S. Campione, D. de Ceglia, F. Capolino, M. Scalora, "Gain assisted harmonic generation in near-zero permittivity metamaterials made of plasmonic nanoshells", New Journal of Physics 14, 103016 (2012).
[J32] M. Grande, G. V. Bianco, M. A. Vincenti, T. Stomeo, D. de Ceglia, M. De Vittorio, V. Petruzzelli, M. Scalora, G. Bruno, A. D'Orazio, "Experimental Surface-Enhanced Raman Scattering response of two-dimensional finite arrays of gold nanopatches", Applied Physics Letters 101, 111606 (2012).
[J31] V. Roppo, M. A. Vincenti, D. de Ceglia, M. Scalora, "Deep-subwavelength waveguiding via inhomogeneous second-harmonic generation", Optics Letters 37, 3093-3095 (2012).
[J30] M. Scalora, M. A. Vincenti, D. de Ceglia, M. Grande, J. W. Haus, "Raman scattering near metal nanostructures", Journal of Optical Society of America B 29, 2035-2045 (2012).
[J29] N. Akozbek, N. Mattiucci, D. de Ceglia, R. Trimm, A. Alu', G. D'Aguanno, M. A. Vincenti, M. Scalora, and M. J. Bloemer, "Experimental demonstration of plasmonic Brewster angle extraordinary transmission through extreme subwavelength slit arrays in the microwave", Physical Review B 85, 205430 (2012).
[J28] M. Scalora, M. A. Vincenti, D. de Ceglia, N. Akozbek, V. Roppo, M. J. Bloemer, J. H. Haus, "Dynamical Model of harmonic generation in centrosymmetric semiconductors at visible and UV wavelengths", Physical Review A 85, 053809 (2012).
[J27] M. A. Vincenti, M. Grande, D. de Ceglia, T. Stomeo, V. Petruzzelli, M. De Vittorio, M. Scalora, and A. D'Orazio, "Color control through plasmonic metal grating", Applied Physics Letters 100, 201107 (2012).
[J26] D. de Ceglia, M.A. Vincenti and M. Scalora, "Wideband Plasmonic Beam Steering in Metal Gratings", Optics Letters 37, 271 (2012).
[J25] M.A. Vincenti, D. de Ceglia, A. Ciattoni and M. Scalora, "Singularity-driven second and third harmonic generation at epsilon -near-zero crossing points", Physical Review A 84, 063826 (2011).
[J24] M. A. Vincenti, D. de Ceglia and M. Scalora, "Nonlinear response of GaAs gratings in the extraordinary transmission regime", Optics Letters 36, 4674 (2011).
[J23] V. Roppo, N. Akozbek, D. De Ceglia, M. A. Vincenti, and M. Scalora, "Harmonic generation and energy transport in dielectric and semiconductors at visible and UV wavelengths: the case of GaP", Journal of Optical Society of America B 28, 2888 (2011).
[J22] M. Grande, R. Marani, F. Portincasa, G. Morea, V. Petruzzelli, A. D'Orazio, V. Marrocco, D. de Ceglia, M.A. Vincenti, "Asymmetric plasmonic grating for optical sensing of thin layers of organic materials," Sensors and Actuators B: Chemical 160, 1056 (2011).

[J21] M. Grande, M. A. Vincenti, T. Stomeo, G. Morea, R. Marani, V. Marrocco, V. Petruzzelli, A. D'Orazio, R. Cingolani, M. De Vittorio, D. de Ceglia, and M. Scalora, "Experimental demonstration of a novel bio sensing platform via plasmonic band gap formation in gold nano patch arrays," Opt. Express 19, 21385-21395 (2011). Paper selected also for Virtual Journal for Biomedical Optics (2011).

[J20] D. de Ceglia, M. A. Vincenti, M. Scalora, N. Akozbek, and M. J. Bloemer, "Plasmonic band edge effects on the transmission properties of metal gratings", AIP Advances 1, 032151 (2011).

[J19] V. Roppo, J. Foreman, N. Akozbek, M.A. Vincenti, and M. Scalora, "Third Harmonic Generation at 223nm in the Metallic Regime of GaP", Applied Physics Letters 98, 111105 (2011).

[J18] R. Marani, M. Grande, V. Marrocco, A. D'Orazio, V. Petruzzelli, M. A. Vincenti, and D. de Ceglia, "Plasmonic Band Gap formation in two-dimensional periodic arrangements of gold patches with sub-wavelength gaps", Optics Letters 36, 903 (2011).

[J17] D. de Ceglia, G. D'Aguanno, N. Mattiucci, M. A. Vincenti, and M. Scalora, "Enhanced Second Harmonic generation from resonant GaAs gratings", Optics Letters 36, 704 (2011)

[J16] M. A. Vincenti, D. de Ceglia, V. Roppo, and M. Scalora, "Harmonic generation in metallic, GaAs-filled nanocavities in the enhanced transmission regime at visible and UV wavelengths", Optics Express 19, 2064 (2011).

[J15] G.. D'Aguanno, N. Mattiucci, M. J. Bloemer, M. A. Vincenti, D. de Ceglia, A. Alu', Transmission Resonances in Plasmonic Metallic Gratings, Journal of Optical Society of America B 28, 253 (2011).

[J14] M. Scalora, M. A. Vincenti, D. de Ceglia, V. Roppo, M. Centini, N. Akozbek, M. J. Bloemer, Second and Third Harmonic Generation in Metal-Based Nanostructures, Physical Review A 82, 043828 (2010).

[J13] V.Marrocco, M. A. Vincenti, M. Grande, G. Calo', V. Petruzzelli, F. Prudenzano, A. D'Orazio, "Field localization in Bragg waveguide assisted by metal layers", Journal of Optical Society of America B 27, no.4 pp. 703-707 (2010).

[J12] M. A. Vincenti, D. de Ceglia, M. Buncick, N. Akozbek, M. J. Bloemer, and M. Scalora, "Extraordinary transmission in the ultraviolet range from subwavelength slits on semiconductors", Journal of Applied Physics 107, 053101 (2010).

[J11] M. A. Vincenti, D. de Ceglia, V. Rondinone, A. Ladisa, A. D'Orazio, M. J. Bloemer, M. Scalora, "Loss compensation in Metal-Dielectric structures in negative refraction and super-resolving regimes", Physical Review A 80, 053807, (2009).

[J10] M.A. Vincenti, A. D'Orazio, M. G. Cappeddu, N. Akozbek, M.J. Bloemer, M. Scalora, "Semiconductor-based superlens for subwavelength resolution below the diffraction limit at extreme ultraviolet frequencies", Journal of Applied Physics 105, no.9 103103 (2009).

[J9] M.A. Vincenti, A. D'Orazio, M. Buncick, N. Akozbek, M.J. Bloemer, M. Scalora, "Beam Steering from Resonant Subwavelength Slits Filled with a Nonlinear Material", Journal of Optical Society of America B 26, no.2 pp. 301-307 (2009).

[J8] M. A. Vincenti, V. Petruzzelli, A. D'Orazio, F. Prudenzano, M. J. Bloemer, N. Akozbek, and M. Scalora, "Second harmonic generation from nanoslits in metal substrates: applications to palladium-based H2 sensor", Journal of Nanophotonics 2, 021851 (2008) (INVITED PAPER).

[J7] M. A. Vincenti, A. D'Orazio, M. Scalora, "Correlated enhancement of linear and nonlinear optical response of nanoslits", SPIE Newsroom – Nanotechnology

Technical Papers, http://spie.org/x25043.xml?highlight=x2400, DOI: 10.1117/2.1200805.1145 (2008) (INVITED PAPER).
[J6] V. Roppo, M. Centini, D. de Ceglia, M.A. Vincenti, J.W. Haus, N. Akozbek, M.J. Bloemer, M. Scalora, “Anomalous Momentum States, Non-Specular Reflections and Negative Refraction of Phase-Locked, Second Harmonic Pulses”, Metamaterials 2, pp. 135-144 (2008) (INVITED PAPER).
[J5] D. de Ceglia, M.A. Vincenti, M.G. Cappeddu, M. Centini, N. Akozbek, A. DOrazio, J.W. Haus, M.J. Bloemer, M. Scalora, “Tailoring Metallodielectric Structures for Super Resolution and Superguiding Applications in the Visible and Near IR Ranges”, Physical Review A 77, no.3, 033848 (2008).
[J4] M.A. Vincenti, S. Trevisi, M. De Sario, V. Petruzzelli, A. D’Orazio, F. Prudenzano, N. Cioffi, D. de Ceglia, M. Scalora, “Theoretical Analysis of a Palladium-Based Metallo-Dielectric Photonic Band Gap Structure for Applications to H2 sensors”, Journal of Applied Physics 103, no. 6 064507 (2007). Paper selected also for Virtual Journal of Biological Physics Research 14, Issue 8 (2007).
[J3] M.A. Vincenti, A. D’Orazio, M. De Sario, V. Petruzzelli, F. Prudenzano, D. de Ceglia, M. Scalora, “Fabry-Perot Microcavity Sensor for H2-Breath-Test Analysis”, Journal of Applied Physics 102, no.7, 074501 (2007).
[J2] D. Biallo, M. De Sario, A. D’Orazio, V. Marrocco, V. Petruzzelli, M. A.Vincenti, F. Prudenzano, T. Stomeo, M.Grande, G. Visimberga, R.Cingolani, M. De Vittorio, “High sensitivity photonic crystal pressure sensor”, Journal of European Optical Society – RP 2, 07017 (2007).
[J1] D. de Ceglia, M. De Sario, A. D’Orazio, V. Petruzzelli, F. Prudenzano, M. Scalora, M.A. Vincenti, “Wide band optical field concentrator for low-index core propagation”, Journal of European Optical Society – RP 1, 06023 (2006).

Contributi a conferenze internazionali peer-reviewed

[C89] H. Chen, V. Corboliou, A. S. Solntsev, D. Choi, M. A. Vincenti, D. Ceglia, C. Angelis, Y. Lu, and D. N.Neshev, "Enhanced second-harmonic generation from two-dimensional MoSe2 by waveguide integration," in Conference on Lasers and Electro-Optics, OSA Technical Digest, paper FM2F.4, 2017.
[C88] M. A. Vincenti, D. de Ceglia, and M. Scalora, "Absorption of harmonic light in plasmonic nanostructures", Proceedings of SPIE Optics and Photonics - Paper 9921-2B, San Diego, CA August 28 - September 1 2016.
[C87] D. de Ceglia, M. A. Vincenti, M. Grande, G. V. Bianco, G. Bruno, A. D'Orazio, and M. Scalora, "Tuning Fano resonances of graphene-based gratings", Proceedings of SPIE Optics and Photonics - Paper 9921-2Y, San Diego, CA August 28 - September 1 2016.
[C86] M. Grande, G. V. Bianco, M. A. Vincenti, T. Stomeo, D. de Ceglia, P. Capezzuto, V. Petruzzelli,M. De Vittorio, M. Scalora, G. Bruno, A. D’Orazio, "Graphene-based absorbers: from microwave to visible frequencies", EMN Meeting on Photonics 2016, September 19-23, Barcelona (Spain) 2016. [INVITED]
[C85] M. Grande, A. Qualtieri, M. A. Vincenti, D. de Ceglia, V. Petruzzelli, M. Scalora, A. D’Orazio, M. De Vittorio and T. Stomeo, "Guided mode resonances in nano-imprinted dielectric pillars", Micro and Nano Engineering 2016, 19-23 September, Wien (Austria) 2016.

[C84] M. Grande, G. V. Bianco, M. A. Vincenti, D. de Ceglia, P. Capezzuto, V. Petruzzelli, M. Scalora, G. Bruno, A. D'Orazio, "Graphene-based devices: a platform for high frequency applications?", ICTON2016, July 10-14, Trento (Italy) 2016. [INVITED]

[C83] D. de Ceglia, M. A. Vincenti, M. Grande, G. Bianco, G. Bruno, A. D'Orazio, and M. Scalora, "Control of Fano resonances in graphene-based gratings at telecom wavelengths," Conference on Lasers and Electro-Optics OSA Technical Digest 2016, paper FF2D.5, San Jose - CA - USA, June 2016.

[C82] M. Grande, G. V. Bianco M. A. Vincenti, D. de Ceglia, P. Capezzuto, V. Petruzzelli, M. Scalora, G. Bruno, and A. D'Orazio, "Optically transparent microwave devices based on engineered graphene", Graphene 2016, Genova (Italy) - April 19-22, 2016.

[C81] D. de Ceglia, M. A. Vincenti, C. De Angelis, A. Locatelli, J. W. Haus, M. Scalora, "Harmonic generation from nanoantenna arrays", OSA Nonlinear Metamaterial Incubator, September 2015, Washington DC (USA). [INVITED]

[C81] M. Grande, A. D'Orazio, G. V. Bianco, G. Bruno, M. A. Vincenti, D. de Ceglia, M. Scalora, "Optically transparent graphene-based Salisbury screen microwave absorber," 2015 IEEE 15th Mediterranean Microwave Symposium (MMS), Nov. 30-Dec. 2 2015, Lecce (Italy).

[C80] M. Grande, M. A. Vincenti, T. Stomeo, G. V. Bianco, D. de Ceglia, N. Akozbek, V. Petruzzelli, G. Bruno, M. De Vittorio, M. Scalora, A. D'Orazio, "Graphene-based optical absorbers", ICTON2015, Budapest, Hungary, July 5-9 2015. [INVITED]

[C79] D. de Ceglia, M.A. Vincenti, M. Grande, A. D'Orazio, M. Scalora, "Enhanced Nonlinear Interactions in Graphene-based Photonic Structures", Progress In Electromagnetics Research Symposium (PIERS), July 2015, Prague (Czech Republic). [INVITED]

[C78] D. de Ceglia, M.A. Vincenti, S. Campione, F. Capolino, J.W. Haus, M. Scalora , "Harmonic Double-resonance Cones in Hyperbolic Metamaterials", Progress In Electromagnetics Research Symposium (PIERS), July 2015, Prague (Czech Republic). [INVITED]

[C77] M. Grande, M.A. Vincenti, T. Stomeo, G.V. Bianco, D. de Ceglia, N. Akozbek, V. Petruzzelli, G. Bruno, M. De Vittorio, M. Scalora, A. D'Orazio,"Harnessing guided mode resonances in a one-dimensional grating for graphene-based absorbers", Conference on Lasers and Electro-Optics/Europe and European Quantum Electronics Conference (CLEO/Europe-EQEC 2015), paper CK-1.6, June 2015, Munich (Germany).

[C76] D. de Ceglia, M. A. Vincenti, C. De Angelis, A. Locatelli, J. W. Haus, M. Scalora, "Second-harmonic light generated by dipole nanoantennas", Conference on Lasers and Electro-Optics/Europe and European Quantum Electronics Conference (CLEO/Europe-EQEC 2015), paper EH-7.4, June 2015, Munich (Germany).

[C75] M. Grande, T. Stomeo, M. A. Vincenti, G. V. Bianco, D. de Ceglia, V. Petruzzelli, G. Bruno, M. Scalora, M. De Vittorio, A. D'Orazio, "Excitation of guided mode resonances for graphene-based absorbers", FOTONICA 2015, May 5-8, Torino (Italy) 2015.

[C74] T.S. Luk, D. de Ceglia, G.A. Keeler, R.P. Prasankumar, M.A. Vincenti, S. Liu, M. Scalora, M.B. Sinclair, and S. Campione, "Third harmonic generation in ultrathin epsilon-near-zero media," CLEO, May 10-15, 2015, San Jose, CA, USA.

[C73] D. de Ceglia, M. A. Vincenti, C. De Angelis, A. Locatelli, J. W. Haus, M. Scalora, "Second Harmonic Light Scattering from Symmetric and Asymmetric Dipole Nanoantennas," Latin America Optics and Photonics Conference (LAOP) 2014, Cancun, Mexico, November 16-21, LTu2D.2 (2014).
[C72] M. A. Vincenti, D. de Ceglia, M. Grande, A. D'Orazio, and M. Scalora, "Nonlinear Processes in One-Dimensional Photonic Crystal with Graphene-based Defect," Frontiers in Optics 2014, Tucson - AZ, United States October 19-23, FW1B.6 (2014).
[C71] M. Grande, M. A. Vincenti, T. Stomeo, G. V. Bianco, D. de Ceglia, G. Magno, V. Petruzzelli, G. Bruno, M. De Vittorio, M. Scalora, and A. D'Orazio, "Graphene-Based Photonic Nanostructures for Linear and Nonlinear Devices", Proceedings of the International Conference on Transparent Optical Networks, Graz - Austria, July 6-10, We.B5.4 (2014). (INVITED)
[C70] M. Grande, V. Petruzzelli, A. D'Orazio, M.A. Vincenti, D. de Ceglia, G.V. Bianco, G. Bruno, M. Scalora, M. De Vittorio, T. Stomeo, "Graphene-based One-Dimensional Photonic Crystal as Tunable and Saturable Absorber", Proceedings of FOTONICA 2014, Naples - Italy, May 12-14 (2014).
[C69] M. Grande, M. A. Vincenti, T. Stomeo, G. V. Bianco, D. de Ceglia, V. Petruzzelli, G. Bruno, M. De Vittorio, M. Scalora and A. D'Orazio, "Absorption and losses in one-dimensional photonic crystal perfect absorber incorporating a monolayer graphene", Proceedings of the Third Mediterranean Photonics Conference, Trani - Italy, May 7-9 (2014).
[C68] J.W. Haus, D. de Ceglia, M.A. Vincenti, M. Scalora, "A quantum tunneling theory for nanophotonics", SPIE Photonics West - Paper 89941Q-10, San Francisco, CA February 1-6 (2014).
[C67] M.A. Vincenti, D. de Ceglia, J.W. Haus, M. Scalora, "Efficient harmonic generation in double-near-zero-permittivity slabs", SPIE Photonics West - Paper 89941U-6, San Francisco, CA February 1-6 (2014).
[C66] M. A. Vincenti, D. de Ceglia, M. Scalora,"Highly Efficient Second and Third Harmonic Generation in Thin Films with Near-Zero Permittivity," Frontiers in Optics, Orlando - FL, United States October 6-11, NTu2A.3 (2013).
[C65] M. A. Vincenti, M. Grande, D. de Ceglia, A. D'Orazio, M. Scalora,"Enhanced Third Harmonic Generation in 1D photonic crystals with a graphene layer defect," Frontiers in Optics 2013, Orlando - FL, United States October 6-11, FTu3A.4 (2013).
[C64] D. de Ceglia, M. A. Vincenti, S. Campione, F. Capolino, M. Scalora,"Leaky Modes in Low-Damping ϵ-Near-Zero Slabs," Frontiers in Optics, Orlando - FL, United States October 6-11, FTu2D.6 (2013).
[C63] M. Grande, G. V. Bianco, M. A. Vincenti, D. de Ceglia, V. Petruzzelli, G. Bruno, M. Scalora, A. D'Orazio, M. De Vittorio and T. Stomeo, "Graphene plasmonics for visible-NIR and THz applications", 39th International Conference on Micro and Nano Engineering. 587, London 16 – 19 September (2013).
[C62] D. Lo Forti, D. de Ceglia, M. A. Vincenti, M. Scalora, R. G. Lindquist, "Beaming and filtering at terahertz frequencies in liquid crystal filled metallic grating", Proceedings of SPIE Optics and Photonics 8828, 88281E (2013).
[C61] M. A. Vincenti, D. de Ceglia, M. Scalora, "Highly efficient second and third harmonic generation in thin films with near-zero permittivity," Nonlinear Optics 2013, Kohala Coast, Hawaii July 21-26, paper NTu2A.3 (2013).

[C60] D. de Ceglia, M. A. Vincenti, S. Campione, F. Capolino, M. Scalora, “Nonlocal Effects on second harmonic generation in low-damping epsilon-near-zero slabs,” Nonlinear Optics 2013, Kohala Coast, Hawaii July 21-26, paper NTu2A.4 (2013).
[C59] M. Grande, M. A. Vincenti, T. Stomeo, G. V. Bianco, D. de Ceglia, G. Magno, V. Petruzzelli, G. Bruno, M. De Vittorio, M. Scalora and A. D’Orazio, “Graphene Assisted Nanostructures”, Proceedings of the International Conference on Transparent Optical Networks, Cartagena - Spain June 23 – 27, We.B5.2 (2013) . (INVITED)
[C58] J. W. Haus, L. Li, N. Katte, C. Deng, M. Scalora, D. de Ceglia and M. A. Vincenti, “Nanowire Metal-Insulator-Metal Plasmonic Devices,” SPIE International Conference on Photonics Solutions 2013, Paper 8883-60, Pattaya City – Thailand, May 26-28 (2013).
[C57] T. Stomeo, M. De Vittorio, M. Grande, V. Petruzzelli, A. D’Orazio, M.A. Vincenti, D. De Ceglia, G.V. Bianco, G. Bruno, M. Scalora, "Fabrication of 2D Plasmonic Gold Nano-Patches", Proceedings of FOTONICA 2013, Milano - Italy, May 21-23 (2013).
[C56] M. Grande, T. Stomeo, M. A. Vincenti, G. V. Bianco, D. de Ceglia, V. Petruzzelli, G. Bruno, M. De Vittorio, A. D’Orazio, M. Scalora, “Fabrication of 2D plasmonic gold nanopatches on graphene”, Graphene Nanophotonics, Benasque (Spain), March 3-8 (2013).
[C55] D. de Ceglia, S. Campione, M. A. Vincenti, F. Capolino, M. Scalora, “Harmonic generation, optical multistability and nonlocal effects in near-zero permittivity metamaterial slabs near pseudo-brewster angle”, SPIE Photonics West - Paper 8632-65, San Francisco, CA February 2-7 (2013).
[C54] S. Campione, D. de Ceglia, M. A, Vincenti, M. Scalora, F. Capolino, “Conditions for electric field enhancement in ε-near-zero slabs under TM-polarized oblique incidence”, USNC–URSI National Radio Science Meeting, Boulder, CO – 9-12 January, B1-6 (2013).
[C53] V. Roppo, M. A. Vincenti, D. de Ceglia, C. Cojocaru, M. Scalora, "Inhomogenous Second Harmonic Waveguiding," NLO 50 International Symposium, Barcelona - Spain, 8-10 October, TP.VR2 (2012).
[C52] T. Stomeo, M. Grande, G. V. Bianco, M. A. Vincenti, D. de Ceglia, V. Petruzzelli, M. Scalora, G. Bruno, A. D’Orazio, M. De Vittorio, “2D plasmonic gold nano-patches for linear and nonlinear applications”, Proceeding of 38th International Conference in Micro and Nano Engineering, Toulose – France, 0343 (2012).
[C51] S. Campione, M. A. Vincenti, D. de Ceglia, M. Scalora, F. Capolino, “Field enhancement and harmonic generation in ε-near-zero substrates under oblique TM-polarized illumination”, Proceedings Metamaterials 2012, San Petersburg - Russia, (2012).
[C50] M. Grande, M. A. Vincenti, G. V. Bianco, T. Stomeo, D. de Ceglia, M. De Vittorio, V. Petruzzelli, G. Bruno, M. Scalora, A. D'Orazio, “Nonlinear response of 2D plasmonic gold patches for SERS applications”, Proceedings of SPIE Optics and Photonics 8457, 845727 (2012).
[C49] M. Scalora, M. A. Vincenti, D. de Ceglia, M. Grande, J. W. Haus, “Stimulated Raman scattering near metal nanostructures”, Proceedings of SPIE Optics and Photonics, in press (2012). (INVITED)

[C48] M. A. Vincenti, D. de Ceglia, M. Scalora, “Plasmonic-assisted absorption enhancement in thin-film semiconductors”, Proceedings of SPIE Optics and Photonics, in press (2012).
[C47] M. A. Vincenti, M. Grande, D. de Ceglia, T. Stomeo, M. De Vittorio, V. Petruzzelli, A. D'Orazio, M. Scalora, "Experimental demonstration of plasmonic-grating-assisted optical biosensor", Proceedings of SPIE Optics and Photonics 8457, 84573T (2012).
[C46] M. Grande, F. Dioguardi, R. Marani, A. D’Orazio, T. Stomeo, M. De Vittorio, G. V. Bianco, G. Bruno, M.A. Vincenti, D. de Ceglia, M. Scalora, “Optical properties of ordered plasmonic nanostructures in linear and nonlinear regimes”, Proceedings of the International Conference on Transparent Optical Networks, Coventry - UK July 2 – 5, Mo.C5.4 (2012) . (INVITED)
[C45] M. A. Vincenti, S. Campione, D. de Ceglia, M. Scalora and F. Capolino, “Second and Third Harmonic Generation at ε-Near-Zero Crossing Point in Arrays of Plasmonic Nanoshells”, Proceedings of CLEO 2012, San Jose, CA – USA, paper JW4A.38 (2012).
[C44] S. Campione, M. A. Vincenti, D. de Ceglia, and F. Capolino, “Loss-Compensation in 3D Periodic Arrays of Nanoshells through Quantum Dots, and ε-Near-Zero Metamaterials”, Proceedings of CLEO 2012, San Jose, CA – USA, paper QM2E.7 (2012).
[C43] M. Grande, M.A. Vincenti, T.Stomeo, G. Morea, R. Marani, V. Marrocco, V. Petruzzelli, A. D’Orazio, M. De Vittorio, D. de Ceglia, and M. Scalora, "Novel plasmonic bio-sensing system based on two-dimensional gold patch arrays for linear and nonlinear regimes", 4th International Conference on Smart Materials, Structures and Systems, Montecatini Terme - Italy, 12-14 Giugno, (2012).
[C42] M. Grande, M.A. Vincenti, T.Stomeo, G. V. Bianco, G. Morea, R. Marani, V. Marrocco, D. de Ceglia, V. Petruzzelli, M. De Vittorio, G. Bruno, M. Scalora and A. D’Orazio, "Two-dimensional plasmonic nano-structures for linear and nonlinear regimes", MINAP2012 - Micro- and nano-photonic materials and devices, Trento - Italy (2012).
[C41] M. Grande, M.A. Vincenti, T.Stomeo, G.Morea, R.Marani, V.Marrocco, V.Petruzzelli, A. D’Orazio R. Cingolani, M. De Vittorio, D. de Ceglia, G. V. Bianco, G. Bruno, and M.Scalora, "Two-dimensional plasmonic nanostructures for sensing applications", Proceedings of 4th Mediterranean Conference on Nano-Photonics, Rome – Italy (2011). (INVITED)
[C40] D. de Ceglia, G. D'Aguanno, N. Mattiucci, M. A. Vincenti, and M. Scalora, "Second Harmonic Generation (SHG) from Resonant GaAs Gratings," Proceedings of CLEO/Europe and EQEC 2011, Munich – Germany, paper EF2.5 (2011).
[C39] M. A. Vincenti, D. de Ceglia, V. Roppo and M. Scalora, " UV and Visible Harmonic Generation Through Enhanced Transmission from GaAs-filled Nanocavities," Metamaterials 2011, Barcelona – Spain, 784-786 (2011).
[C38] M. J. Bloemer, D. de Ceglia, M. A. Vincenti, M. Scalora, N. Akozbek, “Enhanced and suppressed transmission through metal gratings at the plasmonic band edges”, Proceedings of SPIE Optics and Photonics 8096, 80963-A (2011).
[C37] M. Scalora, V. Roppo, M. A. Vincenti, D. de Ceglia, N. Akozbek, Harmonic generation and energy transport in GaP At visible and UV wavelengths, Proc. of SPIE Optics and Photonics 8093 (2011) (INVITED).

[C36] V. Roppo, J. V. Foreman, N. Akozbek, M. A. Vincenti, M, Scalora, Experimental harmonic generation in the metallic regime of GaP, Proc. of SPIE Optics and Photonics 8093 (2011).
[C35] M. A. Vincenti, D. de Ceglia, M. Scalora, “Second and third harmonic generation at UV and soft x-ray wavelengths from semiconductor gratings”, Proceedings of SPIE Optics and Photonics 8093, 80932-C (2011).
[C34] D. de Ceglia, G. D'Aguanno, N. Mattiucci, M. A. Vincenti, M. J. Bloemer, M. Scalora, “Enhanced nonlinear optics in resonant GaAs gratings: harmonic generation and optical bistability”, Proceedings of SPIE Optics and Photonics 8093, 80932-D (2011).
[C33] V. Marrocco, R. Marani, G. Morea, M. Grande, V. Petruzzelli, A. D’Orazio, M.A. Vincenti, D. de Ceglia, “Anomalous Plasmonic Band Gap Formation in Two-dimensional Slit Arrays with Different Periods”, Proceedings of the International Conference on Transparent Optical Networks, Stockolm - Sweden June 26 – 30, Mo.B2.4 (2011) . (INVITED)
[C32] M. A. Vincenti, D. de Ceglia, M. Scalora, R. Marani, V. Marrocco, M. Grande, G. Morea, and A. D’Orazio, "Enhancement and Suppression of Transmission in 3-D Nanoslits Arrays with 1- and 2-D Periodicities”, Proceedings of SPIE 7946, 794625-1 (2011).
[C31] M. A. Vincenti, D. de Ceglia, N. Akozbek, and M. Scalora, “Linear and nonlinear resonant effects in metallic arrays of sub-wavelength channels filled with GaAs”, Proceedings of SPIE 7941, 79410Z (2011).
[C30] M. A. Vincenti, D. de Ceglia, M. C. Buncick, M. Scalora, and M. J. Bloemer, "Phase-locked Second Harmonic Generation In Gaas Nanocavities," in Nonlinear Photonics, OSA Technical Digest, paper NME19 (2010).
[C29] D. de Ceglia, M. A. Vincenti, N. Akozbek, M. Buncick, V. Roppo, M. J. Bloemer, and M. Scalora, "Nano-Channeling of Light via Phase-Locked Second Harmonic Generation," in Nonlinear Photonics, OSA Technical Digest, paper NME32 (2010).
[C28] M. A. Vincenti, D. de Ceglia, M. C. Buncick N. Akozbek, M. J. Bloemer, M. Scalora, “Extraordinary Transmission in the UV Range from Sub-wavelength Slits on Semiconductors”, OSA/CLEO/QELS 2010, JthE6 (2010).
[C27] V. Marrocco, M. Grande, M. A. Vincenti, G. Calò, V. Petruzzelli, and A. D'Orazio, “Efficient plasmonic nanostructures for thin film solar cells”, Proceedings of SPIE Photonics Europe 7725, 77250L (2010).
[C26] D. de Ceglia, M.A. Vincenti, V. Roppo, N. Akozbek, M.J. Bloemer, M. Scalora, “Phase-Locked Second Harmonic Generation in Sub-Wavelength Channels”, Proceedings of Contents Frontiers in Optics 2009 (FiO)/Laser Science XXV (LS)/Plasmonics and Metamaterials (META)/ Optical Fabrication and Testing (OF&T), FThW2 (2009).
[C25]M.A. Vincenti, A. D’Orazio, D. de Ceglia, M. Scalora, M.J. Bloemer, “Extraordinary Transmission and Nonlinear Response for Semiconductors in the UV Range”, Proceedings of Contents Frontiers in Optics 2009 (FiO)/Laser Science XXV (LS)/Plasmonics and Metamaterials (META)/ Optical Fabrication and Testing (OF&T), FWC6 (2009).
[C24] V. Marrocco, M. A. Vincenti, A. Mongiello, M. De Sario, V. Petruzzelli, F. Prudenzano, A. D'Orazio, “Gold nano-rod antennas in linearly modulated array”, Proceedings of Metamaterials 2009, pp. 752-754 (2009).

[C23] M. A. Vincenti, M. Scalora, A. D'Orazio, "Beam Deflection and Optical Switching from subwavelength Slits in Metallic Substrates", Proceedings of Metamaterials 2009, pp. 695-697 (2009).
[C22] A. D'Orazio, V. Marrocco, M.A. Vincenti, M. De Sario, V. Petruzzelli, F. Prudenzano, "Progetto di antenne ottiche nel regime del vicino infrarosso", Proceedings of XI Convegno Nazionale sulle tecniche fotoniche nelle telecomunicazioni, Pisa May 27-29, paper P-23 (2009).
[C21] M. A. Vincenti, M. Scalora, V. Roppo, D. de Ceglia, A. D'Orazio, M.J. Bloemer, "Enhanced Transmission Response from Subwavelength Slits in Semiconductors in the UV range", Proceedings of Metamaterials 2009, pp. 82-84 (2009).
[C20] V. Marrocco, M.A. Vincenti, G. Calò, M. De Sario, V. Petruzzelli, , F. Prudenzano, A. D'Orazio, "Field Enhancement in a photonic band gap cavity assisted by metal grooves", Proceedings of 11th International Conference on Transparent Optical Networks, Azores - Portugal June 28 – July 2, We.C1.1 (2009). (INVITED)
[C19] M.A. Vincenti, D. de Ceglia, M. Scalora, M. Buncick, A. D'Orazio, "Theoretical Analysis of Enhanced Transmission Response Through Nanoslits on Metallic Screens", Proceedings of 9th International Conference on Physics of Light-Matter Coupling in Nanostructures, Lecce 16-20 April 2009, pp.189-190 (2009).
[C18] M. Scalora, M. A. Vincenti, V. Roppo, J. V. Foreman, J. W. Haus, N. Akozbek and M. J. Bloemer, "New Propagation Effects in Semiconductors in the UV Range: Inhibition of Absorption, Negative Refraction, Anomalous Momentum States, Sub-Wavelength Imaging, and Non-Plasmonic Nanometer-size Guided Waves", Proceedings of IEEE Winter Topicals 2009, Innsbruck 12-14 January 2009, pp. 132-133 (2009). (INVITED)
[C17] M.C. Buncick, P R. Ashley, M. Scalora, N. Akozbek, M.A. Vincenti, M. Centini, J.D. Fowlkes, and Ilia N. Ivanov, "Development Of Surface Plasmons/Electro Optic Devices For Active Control Of Optical Characteristics," 26th Army Science Conference, Orlando, FL (2008).
[C16] M. Centini, A. Benedetti, C. Sibilia, M. Bertolotti, M.A. Vincenti, M. Scalora, "Second Harmonic Generation from Metallic Sub-wavelength Slits and Scatterers", Proceedings of Contents Frontiers in Optics 2008 (FiO)/Laser Science XXIV (LS)/Plasmonics and Metamaterials (META)/Optical Fabrication and Testing (OF&T), paper MWB8 (2008).
[C15] M. Scalora, V. Roppo, John V. Foreman, M. Centini, M.A. Vincenti, Neset Akozbek, M.J. Bloemer, "New Propagation Effects in Semiconductors in the UV Range: Inhibition of Absorption, Negative Refraction, Anomalous Momentum States, and Sub-Wavelength Imaging", Proceedings of Contents Frontiers in Optics 2008 (FiO)/Laser Science XXIV (LS)/Plasmonics and Metamaterials (META)/ Optical Fabrication and Testing (OF&T), paper MThB2 (2008).
[C14] M. Centini, Vito Roppo, E. Fazio, F. Pettazzi, C. Sibilia, J. W. Haus, M.A. Vincenti, J. V. Foreman, N. Akozbek, M. J. Bloemer, M. Scalora, "On the Inhibition of Linear Absorption in Opaque Materials", Proceedings of Metamaterials 2008 (2008).
[C13] M. A. Vincenti, V. Roppo, A. D'Orazio, N. Akozbek, M. Scalora, M.J. Bloemer, "Negative refraction and sub-wavelength resolution below the diffraction limit using a semiconductor-based superlens", Proceedings of Metamaterials 2008 (2008).
[C12] M. Scalora, V. Roppo, J. V. Foreman, M. Centini, M. A. Vincenti, N. Akozbek, M.J. Bloemer, "New propagation effects in semiconductors in the UV range:

inhibition of absorption, negative refraction, anomalous momentum states, and sub-wavelength imaging", Proceedings of Metamaterials 2008 (2008).
[C11] M. C. Buncick, P.R. Ashley, M. Scalora, N. Akozbek, M. A. Vincenti, M. Centini, J.D. Fowlkes, I.N. Ivanov, "Investigation on the interaction of Surface Plasmons (SP) with an Electro Optiic Polymer and Development of SP Optical Devices", IEEE Proceedings of 17th Biennal University/Government Industry Micro/Nano Symposium, pp. 128-131 (2008).
[C10] A. D'Orazio, M. De Sario, A. Ladisa, V. Marrocco, V. Petruzzelli,F. Prudenzano, V. Rondinone, M. Scalora, M. A. Vincenti, "Compensazione delle perdite in strutture Metallo-Dielettrico in Regime di Super-Focusing", Proceedings of "XVII RiNEm, paper #44 (2008). (INVITED)
[C9] G. Calò, A. D'Orazio, M. De Sario, V. Marrocco, L. Mescia, V. Petruzzelli, F. Prudenzano, M. A. Vincenti, "Effects of gain saturation in InP-photonic band gap active waveguide", Proceedings of International Conference on Transparent Optical Networks, pp. 161-164 (2008). (INVITED)
[C8] V. Marrocco, M.A. Vincenti, M. De Sario, V. Petruzzelli, F. Prudenzano, A. D'Orazio, "Theoretical investigation on the modification of the emission efficiency of a 2DPC cavitiy assisted by metal layers", Proceedings of XVII International Workshop on Optical Waveguide Theory and numerical modeling, PO-12 (2008).
[C7] M.A. Vincenti, D. de Ceglia, M. De Sario, V. Marrocco, V. Petruzzelli, F. Prudenzano, M. Scalora, A. D'Orazio, "Surface Plasmon Generation in a Subwavelength Slit in metal: a Palladium-Based H2 Leak Detection Sensor", Proceedings of 14th European Conference on Integrated Optics, paper ThP18 (2008).
[C6] M. A. Vincenti , M. De Sario, V. Petruzzelli, A. D'Orazio, F. Prudenzano, D. de Ceglia, N. Akozbek., M.J. Bloemer, P. Ashley, M. Scalora, "Enhanced transmission and second harmonic generation from subwavelength slits on metal substrates", Proceedings of SPIE 6987, 69870O (2008). (INVITED)
[C5] D. de Ceglia, A. D'Orazio, M. De Sario, V. Petruzzelli, M.A. Vincenti, F. Prudenzano, M.J. Bloemer, M. Scalora, "Photonic Crystal Assisted Polymeric Optical Field Concentrator", Proceedings of International Conference on Transparent Optical Networks, pp. 165-169 (2007). (INVITED)
[C4] D. Biallo, A. D'Orazio, M. De Sario, M. De Vittorio, M. Grande, V. Petruzzelli, F. Prudenzano, M. A. Vincenti, "Analisi Meccanica ed Elettromagnetica di un Sensore di Forza a Cristallo Fotonico", Proceedings of X Convegno Nazionale sulle tecniche fotoniche nelle telecomunicazioni, pp. 215-218 (2007).
[C3] D. de Ceglia, A. D'Orazio, M. De Sario, V. Petruzzelli, F. Prudenzano, M.A. Vincenti, M.G. Cappeddu, M.J. Bloemer, M. Scalora, "Competing quadratic and cubic nonlinear phenomena in metamaterials", Proceedings of XVI International Workshop on Optical Waveguide Theory and numerical modelling, PO-01.45 (2007).
[C2] M. A. Vincenti, S.Trevisi, D. de Ceglia, N.Cioffi, M. Scalora, M. De Sario, V. Petruzzelli, F. Prudenzano, A. D'Orazio, "Metallo-Dielectric Multilayer Sensor for Hydrogen Detection in Exhaled Breath", Proceedings of 13th European Conference on Integrated Optics, paper ThG12 (2007).
[C1] D. Biallo, A. D'Orazio, M. De Sario, V. Marrocco, V. Petruzzelli, M.A. Vincenti, F. Prudenzano, T. Stomeo, M. Grande, G. Visimberga, R. Cingolani, M. De Vittorio, "Design of a Photonic Crystal Microcavity Pressure Sensor", proceedings of EOS Topical Meeting on Nanophotonics, Metamaterials and Optical Microcavities (TOM 3), pp. 187-188 (2006).

Capitoli di Libro

[B3] D. de Ceglia, M.A. Vincenti, "Plasmonics", in Fundamentals and Applications of Nanophotonics , Editor: Joseph W. Haus, Elsevier (2016).

[B2] M.A. Vincenti, D. de Ceglia, "Effective medium theories", in Fundamentals and Applications of Nanophotonics, Editor: Joseph W. Haus, Elsevier (2016).

[B1] M.A. Vincenti, D. de Ceglia, V. Roppo, M. Scalora, "Nonlinear Optical Interactions in Epsilon-Near-Zero Materials: Second and Third Harmonic Generation", in Nonlinear, Tunable and Active Metamaterials, Springer (2015).

Brevetti

[P1] D. de Ceglia, M. A. Vincenti, M. Scalora, M. G. Cappeddu, US Patent No. 8,993,874 "Photonic Bandgap Solar Cells" (2015).

Altre presentazioni e seminari

[O7] M. A. Vincenti, “Nonlinear Optical Interactions in Plasma Resonant Materials”, OSA Incubator Meeting - Structured Light in Structured Media, Washington – DC, September 29 - October 1 2013 (INVITED).

[O6] M. A. Vincenti, “Light Control in Metallic Nanostructures: Beaming, Sensing and Raman Scattering”, Workshop on Linear and Nonlinear Optical Interactions in Metamaterials and Plasmonic Nanostructures, Huntsville – AL, June 21-22 2012.

[O5] M. A. Vincenti, “Linear and Nonlinear Resonant Effects in Metallic Arrays of Sub-Wavelength Channels filled with GaAs”, Workshop on Metamaterials and Plasmonics: Novel Materials, Designs, and Applications, Embassy Suites, Buffalo (USA) – May 2011(INVITED).

[O4]M. A. Vincenti, “Linear and Nonlinear Resonant Effects in Metallic Arrays of Sub-Wavelength Channels filled with GaAs”, HEOS Guest speaker Series, UAH Huntsville (USA) – February 2011 (INVITED).

[O3] V. Marrocco, M.A. Vincenti, M. De Sario, G. Calò, V. Petruzzelli, , F. Prudenzano, A. D’Orazio, “Plasmons on metal layers embedded in dielectric PBG cavity”, Proceedings of the COST MP0702 - Azores - Portugal June 28 – July 2, Th.B1.3 (2009).

[O2] M.A. Vincenti, V. Marrocco, M. De Sario, V. Petruzzelli , F. Prudenzano, M. Scalora, and A. D’Orazio, “Directional Beaming from Sub-Wavelength Slits Carved on Metal Substrates”, Proceedings of the COST MP0702 - Brastislava, pp. 37-38 (2008).

[O1] M.A. Vincenti, D. de Ceglia, M. De Sario, V. Petruzzelli, A. D'Orazio, F. Prudenzano, M. Scalora, "Enhancing Linear and Nonlinear Response of Subwavelength Slits on Metal Substrates", Proceedings of the COST MP0702, pp. 21-23 (2008).