

INFORMAZIONI PERSONALI

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Data di nascita: 24/08/1986

Nazionalità: Italiano

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ISTRUZIONE

- 11/2011 – 06/2015** **PhD** a Institut des Nanotechnologies de Lyon, Ecole Centrale de Lyon, Francia
Giudizio: très honorable avec félicitations du jury
Supervisore: Dr. X. Letartre (Institut des Nanotechnologies de Lyon)
Titolo: “Fotonica integrate non lineare su piattaforme compatibili con tecnologia CMOS per applicazioni dal vicino al medio infrarosso” (titolo originale: “Photonique intégrée nonlinéaire sur plate-formes CMOS compatibles pour applications du proche au moyen infrarouge”)
Argomenti di ricerca: ottica integrata, cristalli fotonici, fotonica su silicio, ottica non lineare, elaborazione ottica del segnale, fotonica nel medio infrarosso, modelli numerici per lo studio delle proprietà ottiche di guide d’onda e cavità
- 09/2008 – 10/2011** **European program for double degree (T.I.M.E.)**
- 09/2009 – 10/2011** **Master of Science** in Physics and Nanotechnology, Technical University of Denmark (DTU), Denmark
Argomenti: comunicazioni ottiche, nanofotonica, ottica, ottica quantistica, modelli numerici per elettromagnetismo
- 09/2008 – 09/2009** **Laurea Magistrale** in Ingegneria delle Telecomunicazioni, Università degli Studi di Padova, Italia
Argomenti: reti di telecomunicazione, elaborazione dei segnali
- 09/2005 – 07/2008** **Laurea Triennale** in Ingegneria dell’Informazione, Università degli Studi di Padova, Italia
Argomenti: informatica, telecomunicazioni, elettronica, automazione

POSIZIONE ATTUALE (dal 06/2018)

Assegnista di Ricerca, Dipartimento di Ingegneria dell’Informazione, Università degli Studi di Padova, Italia

Argomenti di ricerca: investigazione delle proprietà ottiche di nano risonatori e metasuperfici realizzati con materiali dielettrici, semiconduttori e metalli operanti nel range di frequenze dal visibile al vicino infrarosso

POSIZIONI ED ESPERIENZE PRECEDENTI

- 11/2014 – 05/2018** **Assegnista di Ricerca**, Dipartimento di Ingegneria dell’Informazione, Università degli Studi di Brescia, Italia
Argomenti di ricerca: investigazione delle proprietà ottiche di nano risonatori e metasuperfici realizzati con materiali dielettrici, semiconduttori e metalli operanti nel range di frequenze dal visibile al vicino infrarosso
- 01/2011 – 06/2011** **Research Assistant**, Department of Photonics, Technical University of Denmark (DTU), Lyngby, Denmark
Argomenti di ricerca: sviluppo di modelli numerici per analizzare le proprietà termiche di un laser basato su semiconduttore

FELLOWSHIPS

- 06/2018-06/2020** **STARS Starting Grant** (Università degli Studi di Padova, Italia, Progetto: PULSAR), Dipartimento di Ingegneria dell’Informazione, Università degli Studi di Padova, Italia
- 11/2017-05/2018** **Erasmus-Mundus Individual Fellowship**, Nonlinear Physics Center, Australian National University, Australia

09/2008-09/2011 **Top Industrial Managers for Europe (T.I.M.E.)**. Programma di doppia laurea con una borsa di studio finanziata dal programma Erasmus e dall'Università degli Studi di Padova che mi ha permesso di conseguire due Lauree Magistrali (alla Technical University of Denmark e all' dall'Università degli Studi di Padova) in tre anni accademici anziché quattro

SUPERVISIONE DI STUDENTI DI DOTTORATO

2015-2018 Supervisione di 2 studenti di dottorato presso il Dipartimento di Ingegneria dell'Informazione, Università degli Studi di Brescia, Italia

ATTIVITÀ DI INSEGNAMENTO

09/2019 – Oggi **Docente a contratto** per il corso “Nanophotonics”, Dipartimento di Ingegneria dell'Informazione, Università degli Studi di Padova, Italia

09/2017 – Oggi **Docente a contratto** per il corso “Campi elettromagnetici”, Dipartimento di Ingegneria dell'Informazione, Università degli Studi di Brescia, Italia

02/2016 – 11/2016 **Docente a contratto** per il corso “Reti di Telecomunicazioni”, Department of Management, Information and Production Engineering, Università degli Studi di Bergamo, Italia

11/2011 – 11/2014 **Docente a contratto** per attività di laboratorio nei corsi “Physique-chimie de la matière” e “Nano-Optics and Biophotonics”, Dipartimento di Science et Techniques des Matériaux et des Surfaces, Ecole Centrale de Lyon, Francia

INCARICHI

2019 **Reviewer Board** per le riviste Photonics (ISSN 2304-6732; CODEN: PHOTC5) e Applied Sciences (ISSN 2076-3417; CODEN: ASPCC7; IF=2.217)

Esperto scientifico per progetti dell'Agence Nationale de la Recherche (ANR) Generic Call 2019

9/2017 – 11/2017 **Attività in conto terzi**, Dipartimento di Ingegneria dell'Informazione, Università degli Studi di Brescia, Brescia, Italia

Caratterizzazione di un sistema di lettura RFID nell'ambito di un contratto conto terzi conforme ai regolamenti dell'Università degli Studi di Brescia.

PREMI E RICONOSCIMENTI

2019 **Premio come migliore presentazione**, “Riunione congiunta GTTI-SIEm”.

2018 **Abilitazione Scientifica Nazionale (ASN)**, Professore di II Fascia, sezioni 09/F1 e 02/B1.

Riconoscimento OSA per attività di revisore (più di 5 revisioni nel 2017/2018)

2017 **Qualificazione alle funzioni di Maître de Conférences (Francia)**, sezioni 63 e 30

PRODUZIONE SCIENTIFICA

Nel corso della mia attività di ricerca ho ottenuto più di 30 pubblicazioni in riviste scientifiche internazionali con revisione tra pari (peer-review) e più di 45 pubblicazioni in conferenze nazionali ed internazionali. H-index: 12. Numero totale di citazioni: 770. Fonte: Scopus database (Elsevier).

Elenco delle pubblicazioni

Articoli in riviste con sistema di revisione tra pari (peer-review):

1. D. Rocco, C. De Angelis, D. de Ceglia, L. Carletti, M. Scalora, and M. A. Vincenti, "Dielectric nanoantennas on epsilon-near-zero substrates: Impact of losses on second order nonlinear processes," Opt. Commun. **456**, 124570 (2020).
2. L. Carletti, S. S. Kruk, A. A. Bogdanov, C. De Angelis, and Y. Kivshar, "High-harmonic generation at the nanoscale boosted by bound states in the continuum," Phys. Rev. Res. **1**, 023016 (2019).

3. L. Carletti, D. de Ceglia, M. A. Vincenti, and C. De Angelis, "Self-tuning of second-harmonic generation in GaAs nanowires enabled by nonlinear absorption," *Opt. Express* **27**, 32480–32489 (2019).
4. L. Carletti, C. Li, J. Sautter, I. Staude, C. De Angelis, T. Li, and D. N. Neshev, "Second harmonic generation in monolithic lithium niobate metasurfaces," *Opt. Express* **27**, 33391 (2019).
5. M. Celebrano, A. Locatelli, L. Ghirardini, G. Pellegrini, P. Biagioni, A. Zilli, X. Wu, S. Grossmann, L. Carletti, C. De Angelis, L. Duò, B. Hecht, and M. Finazzi, "Evidence of Cascaded Third-Harmonic Generation in Noncentrosymmetric Gold Nanoantennas," *Nano Lett.* **19**, 7013–7020 (2019).
6. M. Scalora, J. Trull, C. Cojocar, M. A. Vincenti, L. Carletti, D. de Ceglia, N. Akozbek, and C. De Angelis, "Resonant, broadband, and highly efficient optical frequency conversion in semiconductor nanowire gratings at visible and UV wavelengths," *J. Opt. Soc. Am. B* **36**, 2346 (2019).
7. B. Reineke, B. Sain, R. Zhao, L. Carletti, B. Liu, L. Huang, C. De Angelis, and T. Zentgraf, "Silicon Metasurfaces for Third Harmonic Geometric Phase Manipulation and Multiplexed Holography," *Nano Lett.* **19**, 6585–6591 (2019).
8. D. de Ceglia, L. Carletti, M. A. Vincenti, C. De Angelis, and M. Scalora, "Second-Harmonic Generation in Mie-Resonant GaAs Nanowires," *Appl. Sci.* **9**, 3381 (2019).
9. G. Marino, A. S. Solntsev, L. Xu, V. F. Gili, L. Carletti, A. N. Poddubny, M. Rahmani, D. A. Smirnova, H. Chen, A. Lemaître, G. Zhang, A. V. Zayats, C. De Angelis, G. Leo, A. A. Sukhorukov, and D. N. Neshev, "Spontaneous photon-pair generation from a dielectric nanoantenna," *Optica* **6**, 1416 (2019).
10. L. Carletti, K. Koshelev, C. De Angelis, and Y. Kivshar, "Giant Nonlinear Response at the Nanoscale Driven by Bound States in the Continuum," *Phys. Rev. Lett.* **121**, 033903 (2018).
11. L. Carletti, G. Marino, L. Ghirardini, V. F. Gili, D. Rocco, I. Favero, A. Locatelli, A. V. Zayats, M. Celebrano, M. Finazzi, G. Leo, C. De Angelis, and D. N. Neshev, "Nonlinear Goniometry by Second-Harmonic Generation in AlGaAs Nanoantennas," *ACS Photonics* **5**, 4386–4392 (2018).
12. V. F. Gili, L. Ghirardini, D. Rocco, G. Marino, I. Favero, I. Roland, G. Pellegrini, L. Duò, M. Finazzi, L. Carletti, A. Locatelli, A. Lemaître, D. Neshev, C. De Angelis, G. Leo, and M. Celebrano, "Metal-dielectric hybrid nanoantennas for efficient frequency conversion at the anapole mode," *Beilstein J. Nanotechnol.* **9**, 2306–2314 (2018).
13. C. P. T. McPolin, G. Marino, A. V. Krasavin, V. Gili, L. Carletti, C. De Angelis, G. Leo, and A. V. Zayats, "Imaging Electric and Magnetic Modes and Their Hybridization in Single and Dimer AlGaAs Nanoantennas," *Adv. Opt. Mater.* **6**, 1800664 (2018).
14. S. Danesi, M. Gandolfi, L. Carletti, N. Bontempi, C. De Angelis, F. Banfi, and I. Alessandri, "Photo-induced heat generation in non-plasmonic nanoantennas," *Phys. Chem. Chem. Phys.* **20**, 15307–15315 (2018).
15. D. Rocco, V. F. Gili, L. Ghirardini, L. Carletti, I. Favero, A. Locatelli, G. Marino, D. N. Neshev, M. Celebrano, M. Finazzi, G. Leo, and C. De Angelis, "Tuning the second-harmonic generation in AlGaAs nanodimers via non-radiative state optimization [Invited]," *Photonics Res.* **6**, B6 (2018).
16. L. Ghirardini, G. Marino, V. F. Gili, I. Favero, D. Rocco, L. Carletti, A. Locatelli, C. De Angelis, M. Finazzi, M. Celebrano, D. N. Neshev, and G. Leo, "Shaping the Nonlinear Emission Pattern of a Dielectric Nanoantenna by Integrated Holographic Gratings," *Nano Lett.* **18**, 6750–6755 (2018).
17. L. Carletti, D. Rocco, A. Locatelli, C. De Angelis, V. F. Gili, M. Ravaro, I. Favero, G. Leo, M. Finazzi, L. Ghirardini, M. Celebrano, G. Marino, and A. V. Zayats, "Controlling second-harmonic generation at the nanoscale with monolithic AlGaAs-on-AlOx antennas," *Nanotechnology* **28**, 114005 (2017).
18. L. Ghirardini, L. Carletti, V. Gili, G. Pellegrini, L. Duò, M. Finazzi, D. Rocco, A. Locatelli, C. De Angelis, I. Favero, M. Ravaro, G. Leo, A. Lemaître, and M. Celebrano, "Polarization properties of second-harmonic generation in AlGaAs optical nanoantennas," *Opt. Lett.* **42**, 559 (2017).
19. M. Guasoni, L. Carletti, D. Neshev, and C. De Angelis, "Theoretical Model for Pattern Engineering of Harmonic Generation in All-Dielectric Nanoantennas," *IEEE J. Quantum Electron.* **53**, 6100205 (2017).
20. V. F. Gili, L. Carletti, F. Chouchane, G. Wang, C. Ricolleau, D. Rocco, A. Lemaître, I. Favero, L. Ghirardini, M. Finazzi, M. Celebrano, C. De Angelis, and G. Leo, "Role of the substrate in monolithic AlGaAs nonlinear nanoantennas," *Nanophotonics* **0**, 3–7 (2017).
21. M. Baselli, A. L. Baudrion, L. Ghirardini, G. Pellegrini, E. Sakat, L. Carletti, A. Locatelli, C. De Angelis, P. Biagioni, L. Duò, M. Finazzi, P. M. Adam, and M. Celebrano, "Plasmon-Enhanced Second Harmonic Generation: from Individual Antennas to Extended Arrays," *Plasmonics* **12**, 1595–1600 (2017).
22. D. Rocco, L. Carletti, A. Locatelli, and C. De Angelis, "Controlling the directivity of all-dielectric nanoantennas excited by integrated quantum emitters," *J. Opt. Soc. Am. B* **34**, 1918 (2017).

23. L. Carletti, A. Locatelli, D. Neshev, and C. De Angelis, "Shaping the Radiation Pattern of Second-Harmonic Generation from AlGaAs Dielectric Nanoantennas," *ACS Photonics* **3**, 1500–1507 (2016).
24. R. Camacho-Morales, M. Rahmani, S. Kruk, L. Wang, L. Xu, D. A. Smirnova, A. S. Solntsev, A. Miroshnichenko, H. H. Tan, F. Karouta, S. Naureen, K. Vora, L. Carletti, C. De Angelis, C. Jagadish, Y. S. Kivshar, and D. N. Neshev, "Nonlinear Generation of Vector Beams from AlGaAs Nanoantennas," *Nano Lett.* **16**, 7191–7197 (2016).
25. V. F. Gili, L. Carletti, A. Locatelli, D. Rocco, M. Finazzi, L. Ghirardini, I. Favero, C. Gomez, A. Lemaître, M. Celebrano, C. De Angelis, and G. Leo, "Monolithic AlGaAs second-harmonic nanoantennas," *Opt. Express* **24**, 15965–15971 (2016).
26. N. Bontempi, L. Carletti, C. De Angelis, and I. Alessandri, "Plasmon-free SERS detection of environmental CO₂ on TiO₂ surfaces," *Nanoscale* **8**, 3226–3231 (2016).
27. L. Carletti, P. Ma, Y. Yu, B. Luther-Davies, D. Hudson, C. Monat, R. Orobtcouk, S. Madden, D. J. Moss, M. Brun, S. Ortiz, P. Labeye, S. Nicoletti, and C. Grillet, "Nonlinear optical response of low loss silicon germanium waveguides in the mid-infrared," *Opt. Express* **23**, 8261 (2015).
28. L. Carletti, M. Sinobad, P. Ma, Y. Yu, D. Allieux, R. Orobtcouk, M. Brun, S. Ortiz, P. Labeye, J. M. Hartmann, S. Nicoletti, S. Madden, B. Luther-Davies, D. J. Moss, C. Monat, and C. Grillet, "Mid-infrared nonlinear optical response of Si-Ge waveguides with ultra-short optical pulses," *Opt. Express* **23**, 32202 (2015).
29. L. Carletti, A. Locatelli, O. Stepanenko, G. Leo, and C. De Angelis, "Enhanced second-harmonic generation from magnetic resonance in AlGaAs nanoantennas," *Opt. Express* **23**, 26544–26550 (2015).
30. C. Grillet, L. Carletti, C. Monat, P. Grosse, B. Ben Bakir, S. Menezo, J. M. Fedeli, and D. J. Moss, "Amorphous silicon nanowires combining high nonlinearity, FOM and optical stability.," *Opt. Express* **20**, 22609–15 (2012).
31. L. Carletti, R. Malureanu, J. Mørk, and I.-S. Chung, "High-index-contrast grating reflector with beam steering ability for the transmitted beam," *Opt. Express* **19**, 23567–23572 (2011).

Contributi a convegni internazionali:

1. M. Scalera, J. Trull, C. Cojocar, M. A. Vincenti, L. Carletti, D. De Ceglia, and C. De Angelis, "Vertical Emission of Second and Third Harmonic Light from GaAs Nanowires below the Band Edge," in *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings* (2019).
2. M. Scalora, J. Trull, C. Cojocar, M. A. Vincenti, L. Carletti, D. De Ceglia, and C. De Angelis, "Vertical emission of second and third harmonic light from GaAs nanowires below the band edge," in *Optics InfoBase Conference Papers* (2019), Vol. Part F128-.
3. D. Rocco, C. De Angelis, D. De Ceglia, L. Carletti, and M. A. Vincenti, "Enhancing nonlinear processes from dielectric nanoantennas: The role of the substrate," in *Proceedings of SPIE - The International Society for Optical Engineering* (2019), Vol. 11026.
4. L. Carletti, C. Li, J. Sautter, I. Staude, C. De Angelis, T. Li, and D. N. Neshev, "Second-harmonic generation in monolithic lithium niobate metasurfaces," in *2019 Conference on Lasers and Electro-Optics Europe and European Quantum Electronics Conference, CLEO/Europe-EQEC 2019* (2019).
5. L. Carletti, P. Franceschini, A. Perri, F. Preda, D. Polli, A. Tognazzi, C. De Angelis, F. Banfi, S. Pagliara, G. Ferrini, S. V. Makarov, and C. Giannetti, "Ultrafast all-optical tuning of fano resonant halide perovskite nanoparticles," in *2019 Conference on Lasers and Electro-Optics Europe and European Quantum Electronics Conference, CLEO/Europe-EQEC 2019* (2019).
6. M. Celebrano, E. A. A. Pogna, L. Ghirardini, F. Rusconi, P. Biagioni, A. Mazzanti, G. D. Valle, L. Duò, L. Carletti, D. Rocco, G. Cerullo, and M. Finazzi, "All-optical ultrafast control of second harmonic generation in AlGaAs nanopillars," in *2019 Conference on Lasers and Electro-Optics Europe and European Quantum Electronics Conference, CLEO/Europe-EQEC 2019* (2019).
7. D. De Ceglia, L. Carletti, A. Galtarossa, M. A. Vincenti, C. De Angelis, and M. Scalora, "Harmonic generation in mie-resonant gaas nanowires," in *2019 Conference on Lasers and Electro-Optics Europe and European Quantum Electronics Conference, CLEO/Europe-EQEC 2019* (2019).
8. D. Rocco, V. F. Gili, L. Ghirardini, L. Carletti, I. Favero, A. Locatelli, G. Marino, D. N. Neshev, M. Celebrano, M. Finazzi, G. Leo, and C. De Angelis, "Non-radiating modes for tunable second harmonic generation in AlGaAs nanodimers," in *Optics InfoBase Conference Papers* (2018), Vol. Part F108-.
9. L. Carletti, K. Koshelev, C. De Angelis, and Y. Kivshar, "Nonlinear nanophotonics and bound states in the continuum," in *Optics InfoBase Conference Papers* (2018), Vol. Part F93-C.

10. G. Marino, A. S. Solntsev, L. Xu, V. F. Gili, L. Carletti, A. N. Poddubny, M. Rahmani, D. Smirnova, H. Chen, G. Zhang, A. A. Sukhorukov, and D. N. Neshev, "Sum-frequency- and photon-pair-generation in AlGaAs nano-disks," in *Optics InfoBase Conference Papers* (2018), Vol. Part F108-.
11. L. Ghirardini, A. Locatelli, L. Carletti, C. De Angelis, G. Pellegrini, P. Biagioni, L. Duo`, X. Wu, S. Grossmann, B. Hecht, M. Finazzi, and M. Celebrano, "Engineering nanoantennas for efficient nonlinear photon conversion at the nanoscale," in *Optics InfoBase Conference Papers* (2018), Vol. Part F108-.
12. L. Carletti, K. Koshelev, C. De Angelis, and Y. Kivshar, "Nonlinear nanophotonics and bound states in the continuum," in *2018 Conference on Lasers and Electro-Optics, CLEO 2018 - Proceedings* (2018).
13. L. Ghirardini, L. Carletti, V. Gili, G. Pellegrini, L. Duo`, M. Finazzi, D. Rocco, A. Locatelli, C. De Angelis, I. Favero, A. Lemaître, and M. Celebrano, "Optical switching of the second harmonic generation in AlGaAs nanoantennas," in *Optics InfoBase Conference Papers* (2018), Vol. Part F108-.
14. K. L. Koshelev, L. Carletti, C. De Angelis, and Y. S. Kivshar, "Giant Nonlinear Response of Subwavelength Dielectric Resonators Enhanced by Bound States in the Continuum," in *Progress in Electromagnetics Research Symposium* (2018), Vol. 2018-Augus, pp. 580–584.
15. G. Marino, A. S. Solntsev, L. Xu, V. Gili, L. Carletti, A. N. Poddubny, D. Smirnova, H. Chen, G. Zhang, A. Zayats, A. A. Sukhorukov, and D. N. Neshev, "Sum-frequency generation and photon-pair creation in algaas nano-scale resonators," in *Optics InfoBase Conference Papers* (2017), Vol. Part F42-C.
16. C. De Angelis, V. F. Gili, L. Carletti, D. Rocco, A. Locatelli, L. Ghirardini, I. Favero, C. Gomez, A. Lemaître, M. Finazzi, M. Celebrano, and G. Leo, "Second harmonic generation in AlGaAs nanoantennas," in *Proceedings of SPIE - The International Society for Optical Engineering* (2017), Vol. 10111.
17. G. Marino, A. S. Solntsev, L. Xu, V. Gili, L. Carletti, A. N. Poddubny, D. Smirnova, H. Chen, G. Zhang, A. V. Zayats, A. A. Sukhorukov, and D. N. Neshev, "Sum-frequency generation and photon-pair creation in AlGaAs nano-disks," in *Optics InfoBase Conference Papers* (2017), Vol. Part F82-C.
18. B. Luther-Davies, Y. Yu, N. Singh, M. Sinobad, L. Carletti, P. Ma, S. Madden, D. Choi, X. Gai, R. Wang, S. Palomba, and B. Eggleton, "Waveguides for nonlinear optics in the mid-infrared," in *Optics InfoBase Conference Papers* (2017), Vol. Part F52-I.
19. L. Carletti, L. Ghirardini, V. Gili, G. Pellegrini, L. Duo`, M. Finazzi, D. Rocco, A. Locatelli, C. de Angelis, I. Favero, A. Lemaître, and M. Celebrano, "polarization-resolved second harmonic generation measurements in AlGaAs monolithic nanoantennas," in *Optics InfoBase Conference Papers* (2017), Vol. Part F82-C.
20. M. Rahmani, S. Kruk, R. Camacho-Morales, L. Xu, L. Wang, A. E. Miroshnichenko, D. Smirnova, H. Tan, F. Karouta, S. Naureen, Y. S. Kivshar, and D. N. Neshev, "Giant enhancement and control of second-harmonic radiation from AlGaAs nanoantennas," in *Optics InfoBase Conference Papers* (2017), Vol. Part F122-.
21. G. Marino, A. S. Solntsev, L. Xu, V. Gili, L. Carletti, A. N. Poddubny, D. Smirnova, H. Chen, G. Zhang, A. Zayats, A. A. Sukhorukov, and D. N. Neshev, "Sum-frequency generation and photon-pair creation in AlGaAs nano-scale resonators," in *2017 Conference on Lasers and Electro-Optics, CLEO 2017 - Proceedings* (2017), Vol. 2017-Janua, pp. 1–2.
22. D. Rocco, L. Ghirardini, V. F. Gili, L. Carletti, I. Favero, A. Locatelli, M. Guasoni, M. Finazzi, G. Leo, M. Celebrano, M. Celebrano, and C. De Angelis, "Second harmonic generation at the nanoscale in isolated and coupled AlGaAs nanodisks," in *30th Annual Conference of the IEEE Photonics Society, IPC 2017* (2017), Vol. 2017-Janua, pp. 365–366.
23. G. Marino, C. McPollin, V. Gili, L. Carletti, C. de Angelis, G. Leo, and A. V. Zayats, "Cathodoluminescence imaging spectroscopy of single and dimer algaas nano-disks," in *Optics InfoBase Conference Papers* (2017), Vol. Part F82-C.
24. M. Rahmani, S. Kruk, R. Camacho-Morales, L. Xu, L. Wang, A. E. Miroshnichenko, D. Smirnova, H. Tan, F. Karouta, S. Naureen, Y. S. Kivshar, and D. N. Neshev, "Giant enhancement and control of second-harmonic radiation from algaas nanoantennas," in *2017 Conference on Lasers and Electro-Optics Pacific Rim, CLEO-PR 2017* (2017), Vol. 2017-Janua, pp. 1–3.
25. M. Guasoni, L. Carletti, D. Neshev, and C. De Angelis, "Switching from magnetic to electric dipole in second harmonic generation from all-dielectric nanoantennas," in *30th Annual Conference of the IEEE Photonics Society, IPC 2017* (2017), Vol. 2017-Janua, pp. 367–368.

26. L. Carletti, D. Rocco, A. Locatelli, V. Gili, G. Leo, and C. De Angelis, "Enhanced second-harmonic generation driven from magnetic dipole resonance in AlGaAs nanoantennas," in *Proceedings of SPIE - The International Society for Optical Engineering* (2016), Vol. 9884.
27. C. De Angelis, A. Locatelli, L. Carletti, D. Rocco, O. Stepanenko, G. Leo, I. Favero, A. Lemaitre, G. Marino, N. Olivier, N. Olivier, and A. V. Zayats, "Enhanced second-harmonic generation from magnetic resonance in AlGaAs nanoantennas," in *Proceedings of SPIE - The International Society for Optical Engineering* (2016), Vol. 9755.
28. D. Rocco, L. Carletti, A. Locatelli, C. De Angelis, V. F. Gili, and G. Leo, "Modelling and optimization of the second-harmonic radiation pattern in dielectric nanoantennas," in *Proceedings - 30th European Conference on Modelling and Simulation, ECMS 2016* (2016), pp. 453–459.
29. L. Carletti, A. Locatelli, D. Neshev, and C. De Angelis, "Shaping the second harmonic radiation pattern from AlGaAs dielectric nanoantennas," in *Optics InfoBase Conference Papers* (2016).
30. V. F. Gili, L. Carletti, D. Rocco, A. Locatelli, L. Ghirardini, I. Favero, C. Gomez, A. Lemaître, M. Finazzi, M. Celebrano, C. De Angelis, and G. Leo, "Second-harmonic generation in AlGaAs nanoantennas," in *Optics InfoBase Conference Papers* (2016).
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