

MATTEO CLERICI - CURRICULUM VITAE**PERSONAL INFORMATION**

Name: Matteo Clerici
Date of birth: 20/04/1981
Nationalities: Italian and British
Residence: Italy
ORCID: 0000-0002-9100-8539
h-index: 34 (Google Scholar, 15/01/2024)
citations: >5240 (Google Scholar, 15/01/2024)
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SCIENTIFIC SUMMARY

Dr Clerici is Associate Professor at the University of Insubria (Como, Italy). He was a Professor of Photonics at the University of Glasgow until September 2023 (and currently affiliated), where he led the Ultrafast Nonlinear Optics group, composed of four PhD students. Dr Clerici's research mainly focuses on quantum optics in the visible and infrared spectral region, THz photonics and epsilon-near-zero physics. Dr Clerici is the author of >70 publications in peer-reviewed journals, including 3 Nature Communications, 3 Science Advances, 2 *Laser & Photonics Reviews*, 9 Physical Review Letters and 3 Optica. Dr Clerici is an inventor of 3 granted patents, author of 58 invited talks at international conferences, including 3 keynotes, and author of >130 conference contributions, including 3 post-deadline papers. Clerici received the 2014 Sergio Panizza Award from the Italian Physical Society for his contribution to THz photonics.

PRESENT APPOINTMENT

01/10/2023-now Associate Professor, Dipartimento di Scienza e Alta Tecnologia, Università degli Studi dell'Insubria, Como, Italy.
01/08/2022-30/09/2023 Professor of Photonics at the James Watt School of Engineering, University of Glasgow, UK. PI of the research group: Ultrafast Nonlinear Optics (UNO)

PREVIOUS EMPLOYMENT HISTORY

08/19-08/22 Senior Lecturer at the James Watt School of Engineering, University of Glasgow, UK. PI of the research group: Ultrafast Nonlinear Optics (UNO)
10/15-07/19 Lecturer B at the School of Engineering, University of Glasgow, UK. PI of the research group: Ultrafast Nonlinear Optics (UNO)
2014-2015 Research associate (Marie-Curie fellow), Heriot-Watt University, Edinburgh, UK
2011-2014 Postdoc at INRS-EMT, Canada (PBEE and Marie-Curie fellow)
2009-2010 Postdoc (CNISM fellow) at Insubria University, Italy

ACADEMIC QUALIFICATIONS

2006-2010 Research Doctorate in Physics (Viva 08/02/2010), Università dell'Insubria, Italy
2003-2006 Magistral Laurea in Physics, 110/110 cum laude. Università dell'Insubria, Italy
2000-2003 Laurea in Physics, 110/110, Università dell'Insubria, Italy

ESTEEM INDICATORS**Honors and Awards**

- 2023 Habilitation to Full Professor, Ministero dell'Istruzione dell'Università e della Ricerca, Italy (bando d.d. 553/2021, settore concorsuale 02/b1).
- 2022 Selected for the Interview for ERC, Consolidator Grant, PE2
- 2020 Finalist stage in the Zeiss Quantum challenge
- 2020 National Foreign Expert Projects Scholarship, the Ministry of Science and Technology, China.
- 2019 Top 20% EPSRC – UK Reviewers
- 2017 Interviewed for “100 Young Italian Scientists per Cartaditalia” (Italian Cultural Institute, Brussels, 2017)
- 2017 Selected for the Interview for ERC, Starting Grant, PE2
- 2016 Habilitation to Associate Professor, Ministero dell'Istruzione dell'Università e Ricerca, Italy
- 2014 Sergio Panizza award from the Italian Physical Society, given every 2 years to a <35 years old researcher for relevant contributions to photonics
- 2013 Habilitation at “Maître de conférences” (Lecturer equivalent). Qualification n. 13230248856. Section: 30-Optics. Awarding body: Ministre de l'éducation nationale, de l'enseignement supérieur et de la recherche, France
- 2013 Poster Award at the International Workshop on Optical Terahertz Science and Technology (OTST), April 1-5, 2013, Kyoto, Japan
- 2007 Marie Curie ITN, ATLAS (International Training Network) scholarship

Professional Memberships

- 2020 – now Elected Senior Member of the International Union of Radio Science (URSI)
- 2016 – 2018 Member of the Institute of Physics (IOP)
- 2016 – now Member of the European Physical Society (EPS)
- 2010 – now Member of the Italian Physical Society (SIF)
- 2009 – now Member of the Optical Society (OSA, now Optica)

TEACHING & RELATED ADMINISTRATION

Teaching

- 2021 – now Lecturer for “Engineering Mathematics 2” (2nd year), School of Engineering, UofG, UK
- 2015 – now Lecturer and Convener for “Electromagnetics 2” (2nd year), School of Engineering, UofG, UK
- 2017 – now Coordinator for “Design Special Topic 5” (5th year), School of Engineering, UofG, UK
- 2016 – 2018 Lecturer for “Microwave & Optical Communications” (4th year), School of Engineering, UofG, UK
- 2014 Lab demonstrator, Engineering and Physical Sciences, Herriot-Watt University, UK
- 2012 Ultrafast photonics & high-intensity light-matter interaction. Course for Masters and PhD students, INRS-EMT, Canada
- 2007 – 2009 Assistant for the “Laboratory course II” at the School of Physics, Università degli Studi dell' Insubira, Italy
- 2007 Assistant for the “Laboratory course IV” at the School of Physics, Università degli Studi dell' Insubira, Italy

Supervision

Master of Science (MSc)

Supervisor

- 2022 – 2023 Zihao Wang (EEE)

- Ziyi Zhang (Computer System Engineering)
 Chung Chun Kao (Computer System Engineering)
 Jingzheng Ren (Computer System Engineering)
 Huize Xing (Computer System Engineering)
 Xintong Lin (Computer System Engineering)
- 2021 – 2022 Adil Shakeel (EEE)
 Jiashun Li (EEE)
 Jingyu Wu (EEE)
 Liran Want (EEE)
 Naveen Kuthaganahalli Mahadev
 Yan Zhang (EEE)
 Yandan Lai (EEE)
- 2020 – 2021 Chenyu Fang (EEE)
 Chuyang Tao (EEE)
 Jialuo Xu (EEE)
 Shuang Gao (EEE)
 Yuanlin Chen (EEE)
 Lei Jin (EEE)
- 2019 – 2020 Xinyu Chen (EEE)
 Yiming Dong (EEE)
 Peike Lan (EEE)
 Xian Li (EEE)
 Teodor Docan (Quantum Technology – Physics)
- 2018 – 2019 Yunyi Xu (Computer Systems Eng.)
 Yunchi Wang (Electronics & Electrical Eng.)
- 2017 – 2018 Yuhe Huang (EEE)
- 2011 – 2012 Marco Cassataro (EEE, INRS-EMT Canada and DIEET Palermo)
- Co-supervisor*
- 2020 – 2021 Karan Rajashekar (EEE)
 Dongyu Wang (Computer System Eng.)
 Khin Pyae Sone Win (EEE & Mgt.)
 Zhaoan Ye (EEE)
- 2019 – 2020 Kai Gao (EEE & Mgt.)
 Daniels Vasijevs (Computer Systems Eng.)
- 2018 – 2019 Qinwen Guo (EEE & Mgt.)
 Shengyong Yu (EEE)
- 2007 – 2008 Eleonora Rubino, Laurea in Physics (Insubria, Italy)
- Master of Engineering (MEng)**
- Supervisor*
- 2019 – 2020 Dionysis Adamou (EEE)
 2017 – 2018 Abu Bakar Inayat (EEE)
- Co-supervisor*
- 2020 – 2021 Sramek Radovan (EEE)
 2018 – 2019 Alastair Tibbs (Product Design Eng.)
 2017 – 2018 Anna Campbell (Product Design Eng.)
 William Shillabeer (Product Design Eng.)
- Academic supervisor/co-supervisor for industrial placements*

- 2021 – 2022 Arric Hamilton (EEE)
- 2020 – 2021 Miklas Riechmann (Electronics and Software Eng.)
- 2017 – 2018 Amber Ruddy (EEE)
- 2016 – 2017 Oliver Sharp (EEE)
- Tristan Robinson (Electronics with Music)

Bachelor of Engineering (BEng)

Supervisor

- 2016 – 2017 Peihong Tang (EEE)
- Junsong Huang (EEE with Information)

Co-supervisor

- 2020 – 2021 Chenrui Hu
- Xiang Shi (
- 2019 – 2020 Theerat Leelasithorn (EEE)
- Sara Camposarcone (Aeronautical Eng.)
- Qingshu Zhang (EEE & Communications)
- Jonathan Zheng Bing Sheng (Aeronautical Eng, SIT)
- Tay Jerold (Mechanical Design Eng., SIT)
- Bryan Wong Liang Chern (Mechanical Design, SIT)
- Lee Zhi Wei Gordon (Mechatronics, SIT)
- 2018 – 2019 Ng Jun Wei (Mechanical Design Eng., SIT)
- Teo Dong Peng (Mechanical Design Eng., SIT)
- 2017 – 2018 Kai Ching Wong (Mechatronics)
- Mohamed Al-Qabtan (EEE)
- Varnica Jain (Mechatronics, SIT)
- Eric Yuen QiHong (Mechatronics, SIT)
- Melvin Tan Siew Yi (Mechatronics, SIT)
- Wan Kin Keong Glenn (Mechatronics, SIT)
- 2016 – 2017 Noor Hanis Bin Mohamed Yunos (Mechatronics, SIT)
- Ahmad Jaliani (Mechatronics, SIT)
- Hui Fang Lean (Mechatronics, SIT)
- P Thanaraj (Mechatronics, SIT).

Advisory

- 2022 – 2023 Advisor of studies for the Computer System Engineering MSc.
- 2021 – 2022 Advisor of studies for the EEE MSc.
- 2020 – 2021 Advisor of studies for the EEE MSc.
- 2019 – 2020 Advisor of studies for MSc courses Sustainable Energy and Mechatronics.
- 2018 – 2019 Advisor of studies for Sustainable Energy and Nanoscience and Nanotechnologies MSc.
- 2017– 2018 Advisor of studies for Sustainable Energy MSc and for Nanoscience and Nanotechnologies MSc.

Teaching administration

- 2022 Independent Academic panel member for the validation of the MSc Quantum Technology course in the School of Life Sciences, University of Sussex.

RESEARCH & RELATED ADMINISTRATION

Supervision

Postdoctoral Researchers

2022 – 2023 Seunjin Yoon
 2019 – 2021 Adetunmise Dada
 2018 – 2020 Shashi Prabhakar

PhD Students (1st supervisor)

2022 Yu Lijun
 2021 Ivi Afxenti
 2021 Dionysis Adamou
 2020 Lenny Hirsch
 2019 Ruaridh Smith (academic supervisor for the EngD)
 2018 Mehdi Ebrahim
 2018 Sophie Law (retired)
 2017 Taylor Shield
 2017 Damian Powell (retired)

PhD (2nd supervisor)

2021 Raul Alvarez Mendoza
 2021 George Magdy Dawood Botros
 2021 Natale Giovanni Pruriti
 2020 Ultan Daly
 2018 Conor Coughlan
 2018 Gabriella Musarra
 2018 Christy Cameron Simpson
 2016 Ugne Griskeviciute
 2012 Sze-Ping Ho (INRS-EMT, Canada)

PhD examiner

09/2021 PhD external examiner (Queen's University Belfast, Northern Ireland) for Steffan Gwyn
 02/2020 PhD internal examiner (School of Physics & Astronomy, UoG) for Sara Restuccia
 10/2019 PhD convener (School of Engineering, UoG) for Manuel Reza
 03/2019 PhD internal examiner (School of Engineering, UoG) for Kleantlis Erotokritou
 02/2019 PhD convener (School of Engineering, UoG) for Jaroslaw Kirdoda
 01/2019 PhD external examiner (French Atomic Energy Commission, France) for Mille Alis e Nguyen
 12/2018 PhD internal examiner (School of Physics & Astronomy, UoG) for Peter Morris
 02/2018 PhD external examiner (University of Insubria, Italy) for Sanjeev Kumar
 12/2017 PhD convener (School of Engineering, UoG) for Charalambos Klitis
 11/2017 PhD internal examiner (School of Engineering, UoG) for Andrea Pizzone
 08/2017 PhD internal examiner (School of Engineering, UoG) for Monageng Kgwadi
 03/2017 PhD internal examiner (School of Engineering, UoG) for Chengzhi Xie
 12/2016 PhD internal examiner (School of Engineering, UoG) for Ross Millar
 11/2016 PhD internal examiner (School of Physics & Astronomy, UoG) for Rair Macedo

RESEARCH GRANTS AND COLLABORATIONS

Grants

2024 – 2027 UKRI-EPSC Standard Grant, co-I, ~£280k (owned portion - ~£1M total). Silicon Core Fibres: extending the reach of nonlinear fibre systems

- 2023 – 2025 Canada UK Commercialising Quantum Technology Programme: CR&D, ~£280k, PI. Broadband Quantum Synthesizer.
- 2023 – 2023 EPSRC Glasgow University Impact Acceleration Account, ~£37k, PI. Charge-amplifier-based high-quantum-efficiency detectors.
- 2022 – 2024 Innovate UK, ~£250k, co-I. A packaged source of multiplexed entangled photons (PADME/10031438).
- 2022 – 2023 Proof of Concept, QuantIC, £57k, PI. Visible entangled photons sources.
- 2021 – 2023 Innovate UK, £237k, PI. High Quantum Efficiency Detectors (PN 10001572).
- 2021 – 2023 Accelerated Development Fund, QuantIC. £234k, co-I. Quantum-enhanced multiphoton fluorescence microscopy
- 2020 – 2022 Royal Society of London Research Grant, £20k, PI. Few-cycle pulses for air-plasma physics (RGS\R1\201365)
- 2019 – 2023 DSTL Quantum PhD Scholarship, £157k, PI. Quantum-enhanced atmospheric sensor for airborne bio-hazard (DSTLXR1000141936)
- 2018 – 2021 UKRI Innovation Fellowship, £843k, PI. Infrared time-domain quantum optics: In-Tempo (EP/S001573/1)
- 2018 – 2019 Innovate UK, £180k, PI for the academic partner. Entangled Photon Emitter (EP/R043299/1)
- 2017 – 2019 EPSRC First Grant, £125k, PI. Quantum-enhanced THz spectroscopy and imaging (EP/P009697/1)
- 2017 – 2018 EPSRC Glasgow University Impact Acceleration Account, £32k, PI. An alternative approach to quantum-enhanced THz generation
- 2016 – 2017 Royal Society of London Research Grant, £13k, PI. High resolution dynamical coherent imaging (RG160355)
- 2012 – 2015 Marie-Curie International Outgoing Fellowship, £270k, PI. Kerr-based OPA for high energy infrared pulse generation. EU-FP7 (GN 299522)
- 2011 – 2012 PBEEE Fellowship, 1st ranked in the national competition. £30k, PI. FQRNT through MELS, Canada. (GN 149187)
- 2009 – 2010 Research Fellowship (Assegnista di ricerca), £25k, PI. Consorzio Nazionale Interuniversitario per le Scienze Fisiche della Materia (CNISM)

Collaborations

- Tie-Jun Wang, State Key Laboratory of High Field Laser Physics, Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences, China
- D. Faccio, M. Lavery, M. Sorel, R. Hadfield, University of Glasgow, UK
- L. Caspani, University of Strathclyde, UK
- M. Ferrera, F. Biancalana, and D. Ried, Herriot-Watt University, UK
- M. Peccianti and A. Pasquazi, Sussex University, UK
- R. Morandotti, L. Razzari, F. Légaré and F. Vidal, INRS-EMT, Montreal, Canada
- A. Couairon, École Polytechnique, Paris, France
- D. Christodoulides, CREOL, University of Central Florida, Orlando, USA
- J.-C. Diels, University of New Mexico, Albuquerque, NM, USA
- V. Shalaev and A. Boltasseva, Purdue University, IN, USA
- J. Moloney, M. Kolesik, University of Arizona, AZ, USA
- O. Jedrkiewicz and P. Di Trapani, University of Insubria, Italy

PROFESSIONAL ACTIVITIES BEYOND THE UNIVERSITY

Committees, Conference & Schools Organisation

- 2021 – 2022 General Chair for Integrated Photonics Research (OSA)

- 2020 – 2021 Program Chair for Integrated Photonics Research (OSA)
- 2020 Topic Co-Chair for the international conference Photon2020, IOP, UK
- 2019 Sub-committee Chair for Integrated Photonics Research (OSA)
- 2018 – 2019 Committee member for the international conference Integrated Photonics Research, Silicon, and Nano-Photonics (OSA)
- 2018 – 2019 Co-organizer for the Quantum Technology Summer School, University of Glasgow
- 2018 Committee member for the international conference CLEO Pacific Rim (OSA)
- 2017 – now Commission D Panel Representative for URSI-UK
- 2016 – 2017 Committee member for the international conference Nonlinear Optics and Novel Phenomena at CLEO/QELS-US (OSA)
- 2014 Committee member for the international conference Photonics North 2014, Montreal, Canada
- 2014 Scientific Secretary for the Enrico Fermi Summer School “Frontiers in Modern Optics” of the Italian Physics Society (July 2014 in Varenna, Italy)
- 2009 – 2011 Member (and co-founder) of a company (Light-in-Light s.r.l., Como, Italy, VAT 03181930136) promoting the diffusion of knowledge through the organisation of events and technology transfer actions.
- 2009 International school “STELLA 2009” at ICFO. Led an experimental course aimed at demonstrating the generation of mid-infrared, few-cycle pulses through four-wave mixing in hollow-core fibres.
- 2008 International school “STELLA 2008” at FORTH (Crete, Greece). Led an experimental course aimed at the investigation of third-harmonic generation processes mediated by laser filamentation in bulk media.
- 2007 International school “STELLA 2007”, VULCR and Vilnius Uni. Led an experimental course aimed at studying spatial solitons generated in a $\chi^{(2)}$ nonlinear crystal.

Review and Editorial Appointments

- Editorial Board member of Scientific Reports (Nature Publishing Journal), for the electronics, photonics and device physics category.
- Expert Reviewer for the European Community (2020, 2022, FET Open project). Reviewer for the European Research Council (ERC), Italian Ministry of Education, Universities and Research (MIUR); Latvian Council of Science, U.S. Army Research Office; MITACS Canada; Ontario Research Fund; Ministerio de Education, Gobierno de Chile. Reviewer and Full College Member of the Engineering and Physical Sciences Research Council (EPSRC).
- Reviewer for Science, Nature Publishing Group (including Nature Photonics and Nature Communications), American Physical Society (Phys. Rev. Lett. and others), Wiley, Optical Society of America (Optica, Optics Letters, Optics Express, and others), American Ceramic Society (ACS Photonics), Institute of Physics, Institute of Electrical and Electronics Engineers, Multidisciplinary Digital Publishing and Elsevier.

PUBLICATIONS**REFEREED PUBLICATIONS****2023**

- [A73] R. Löscher, V. Moreno, D. Adamou, D. K. Kesim, M.C. Schroeder, M. Clerici, J.-P. Wolf, C.J. Saraceno, "High-power sub-picosecond filamentation at 1.03 μm with high repetition rates between 10 and 100 kHz", *APL Photonics* 8, 111303 (2023).
- [A72] W. Jaffray, M. Clerici, B. Heijnen, A. Boltasseva, V. M. Shalaev, M. Ferrera, "Nonlinear Loss Engineering in Near-Zero-Index Bulk Materials", *Advanced Optical Materials*, 2301232 (2023).
- [A71] T.-J. Wang, M. H. Ebrahim, I. Afxenti, D. Adamou, A. C. Dada, R. Li, Y. Leng, J.-C. Diels, D. Faccio, A. Couairon, C. Milián, and **M. Clerici**, "Cumulative Effects in 100 kHz Repetition-Rate Laser-Induced Plasma Filaments in Air", *Advanced Photonics Research*, 2200338 (2023).

2022

- [A70] T. Shields, A. C. Dada, L. Hirsch, S. Yoon, J. M. R. Weaver, D. Faccio, L. Caspani, M. Peccianti, and **M. Clerici**, "Electro-Optical Sampling of Single-Cycle THz Fields with Single-Photon Detectors", *Sensors* 22, 9432 (2022).
- [A69] D. Shah, A. C. Dada, J. P. Grant, D. R. S. Cumming, C. Altuzarra, T. S. Nowack, A. Lyons, **M. Clerici**, D. Faccio, "An all-dielectric metasurface polarimeter", *ACS Photonics* 9, 3245 (2022).
- [A68] W. Jaffray, E. Carnemolla, C. Dobas, F. Belli, M. Mackenzie, J. Travers, A. K. Kar, **M. Clerici**, C. DeVault, V. M. Shalaev, A. Boltasseva, and M. Ferrera, "Near-zero-index ultra-fast pulse characterization", *Nature Communication* 13, 3536 (2022).

2021

- [A67] A. C. Dada, J. Kaniewski, C. Gawith, M. Lavery, R. H. Hadfield, D. Faccio, and **M. Clerici**, "Near-maximal two-photon entanglement for optical quantum communication at 2.1 μm ", *Physical Review Applied* 16, L051005 (2021).
- [A66] M. H. Ebrahim, A. Marini, V. Bruno, N. Kinsey, J. B. Khurgin, D. Faccio, and **M. Clerici**, "Temporal Dynamics of Strongly Coupled Epsilon Near-Zero Plasmonic Systems", *Applied Physics Letters* 119, 221101 (2021).
- [A65] E. G. Carnemolla, W. Jaffray, **M. Clerici**, L. Caspani, D. Faccio, F. Biancalana, C. Devault, V. M. Shalaev, A. Boltasseva, and M. Ferrera, Visible photon generation via four-wave mixing in near-infrared near-zero-index thin films, *Optics Letters* 46, 5433-5436 (2021).
- [A64] S. May, **M. Clerici**, and M. Sorel, "Supercontinuum generation in dispersion engineered AlGaAs-on-insulator waveguides", *Scientific Reports* 11, 2052 (2021).
- [A63] J. B. Khurgin, **M. Clerici**, and N. Kinsey, "Fast and Slow Nonlinearities in Epsilon-Near-Zero Materials", *Laser & Photonics Reviews* 15, 2000291 (2021).

2020

- [A62] J. S. Toterogongora, L. Peters, J. Tunesi, V. Cecconi, **M. Clerici**, A. Pasquazi, and M. Peccianti, "All-Optical Two-Color Terahertz Emission from Quasi-2D Nonlinear Surfaces", *Physical Review Letters* 125, 263901 (2020).
- [A61] S. Prabhakar, T. Shields, A. C. Dada, M. Ebrahim, G. G. Taylor, D. Morozov, K. Erotokritou, S. Miki, M. Yabuno, H. Terai, C. Gawith, M. Kues, L. Caspani, R. H. Hadfield and **M. Clerici**,

"Two-photon quantum interference and entanglement at 2.1 μm ", *Science Advances* 6, eaay5195 (2020).

- [A60] J. B. Khurgin, **M. Clerici**, V. Bruno, L. Caspani, C. DeVault, J. Kim, A. Shaltout, A. Boltasseva, V. M. Shalaev, M. Ferrera, D. Faccio, and N. Kinsey, "Adiabatic frequency shifting in epsilon-near-zero materials: the role of group velocity", *Optica* 7, 226 (2020).
- [A59] V. Bruno, S. Vezzoli, C. DeVault, E. Carnemolla, M. Ferrera, A. Boltasseva, V.M. Shalaev, D. Faccio and **M. Clerici**, "Broad Frequency Shift of Parametric Processes in Epsilon-Near-Zero Time-Varying Media", *Applied Science* 10, 1318 (2020).
- [A58] V. Bruno, C. DeVault, S. Vezzoli, Z. Kudyshev, T. Huq, S. Mignuzzi, A. Jacassi, S. Saha, Y. D. Shah, S. A. Maier, D. R. S. Cumming, A. Boltasseva, M. Ferrera, **M. Clerici**, D. Faccio, R. Sapienza, and V. M. Shalaev, "Negative Refraction in Time-Varying Strongly Coupled Plasmonic-Antenna-Epsilon-Near-Zero Systems", *Physical Review Letters* 124, 043902 (2020). *Highlighted as an Editors' Suggestion*.

2019

- [A57] **M. Clerici**, A. Bruhács, D. Faccio, M. Peccianti, M. Spanner, A. Markov, B. E. Schmidt, T. Ozaki, F. Légaré, F. Vidal, and R. Morandotti, "Terahertz control of air lasing", *Physical Review A* 99, 053802 (2019).
- [A56] S. May, M. Kues, **M. Clerici**, and M. Sorel, "Second-harmonic generation in AlGaAs-on-insulator waveguides", *Optics Letters* 44, 1339 (2019).

2018

- [A55] A. Tomasino, R. Piccoli, Y. Jestin, S. Delprat, M. Chaker, M. Peccianti, **M. Clerici**, A. Busacca, L. Razzari, and R. Morandotti, "Ultra-broadband terahertz coherent detection via a silicon nitride-based deep sub-wavelength metallic slit", *APL Photonics* 3, 110805 (2018).
- [A54] E. G. Carnemolla, L. Caspani, C. DeVault, **M. Clerici**, S. Vezzoli, V. Bruno, V. M. Shalaev, D. Faccio, A. Boltasseva, and M. Ferrera, "Degenerate optical nonlinear enhancement in epsilon-near-zero transparent conducting oxides", *Optical Materials Express* 8, 3392 (2018).
- [A53] A. Markov, A. Mazhorova, H. Breitenborn, A. Bruhacs, **M. Clerici**, D. Modotto, O. Jedrkiewicz, P. Di Trapani, A. Major, F. Vidal, and R. Morandotti, "Broadband and efficient adiabatic three-wave mixing in a temperature-controlled bulk crystal", *Optics Express* 26, 4448 (2018).
- [A52] S. Vezzoli, V. Bruno, C. DeVault, T. Roger, V.M. Shalaev, A. Boltasseva, M. Ferrera, **M. Clerici**, A. Dubietis, and D. Faccio, "Optical Time Reversal from Time-Dependent Epsilon-Near-Zero Media", *Physical Review Letters* 120, 043902 (2018).

2017

- [A51] A. Tomasino, A. Mazhorova, **M. Clerici**, M. Peccianti, S.-P. Ho, Y. Jestin, A. Pasquazi, A. Markov, X. Jin, R. Piccoli, S. Delprat, M. Chacker, A. Busacca, J. Ali, L. Razzari, and R. Morandotti, "Solid-state-biased coherent detection of ultra-broadband terahertz pulses", *Optica* 4, 1358 (2017).
- [A50] R. Naccache, A. Mazhorova, **M. Clerici**, R. Piccoli, L. K. Khorashad, A. O. Govorov, L. Razzari, F. Vetrone, and R. Morandotti, "Terahertz Thermometry: Combining Hyperspectral Imaging and Temperature Mapping at Terahertz Frequencies", *Laser & Photonics Reviews*, 1600342 (2017).
- [A49] B. E. Schmidt, P. Lassonde, G. Ernotte, **M. Clerici**, R. Morandotti, H. Ibrahim, and F. Légaré, "Decoupling Frequencies, Amplitudes and Phases in Nonlinear Optics", *Scientific Reports* 7, 7861 (2017).

- [A48] M. Peccianti, R. Fastampa, A. Mosca Conte, O. Pulci, C. Violante, J. Łojewska, **M. Clerici**, R. Morandotti, and M. Missori, "Terahertz absorption by cellulose: Application to ancient paper artifacts", *Physical Review Applied* 7, 064019 (2017).
- [A47] **M. Clerici**, N. Kinsey, C. DeVault, J. Kim, E. G. Carnemolla, L. Caspani, A. Shaltout, D. Faccio, V. Shalaev, A. Boltasseva, and M. Ferrera, "Controlling hybrid nonlinearities in transparent conducting oxides via two-colour excitation", *Nature Communications* 8, 15829 (2017).
- [A46] R. Warburton, C. Aniculaesei, **M. Clerici**, Y. Altmann, G. Gariepy, R. McCracken, D. Reid, S. McLaughlin, M. Petrovich, J. Hayes, R. Henderson, D. Faccio, and J. Leach, "Observation of laser pulse propagation in optical fibers with a SPAD camera", *Scientific Reports* 7, 43302 (2017).
- [A45] M. Petev, N. Westerberg, E. Rubino, D. Moss, A. Couairon, F. Légaré, R. Morandotti, D. Faccio, and **M. Clerici**, "Phase-Insensitive Scattering of Terahertz Radiation", *Photonics* 4, 7 (2017).

2016

- [A44] R. M. Kaipurath, M. Pietrzyk, L. Caspani, T. Roger, **M. Clerici**, C. Rizza, A. Ciattoni, A. Di Falco, and D. Faccio, "Optically induced metal-to-dielectric transition in Epsilon-Near-Zero metamaterials", *Scientific Reports* 6, 27700 (2016).
- [A43] L. Caspani, R. P. M. Kaipurath, **M. Clerici**, M. Ferrera, T. Roger, J. Kim, N. Kinsey, M. Pietrzyk, A. Di Falco, V. M. Shalaev, A. Boltasseva, and D. Faccio, "Enhanced nonlinear refractive index in epsilon-near-zero materials", *Physical Review Letters* 116, 233901 (2016).
- [A42] L. Caspani, C. Reimer, M. Kues, P. Roztocki, **M. Clerici**, B. Wetzels, Y. Jestin, M. Ferrera, M. Peccianti, A. Pasquazi, L. Razzari, B. E. Little, S. T. Chu, D. J. Moss, and R. Morandotti "Multifrequency sources of quantum correlated photon pairs on-chip: a path toward integrated Quantum Frequency Combs", *Nanophotonics* 5, 351(2016).
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2015

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Regular contributions

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- [C114] S. Prabhakar, T. Shields, A. Dada, M. Ebrahim, G. Taylor, D. Morozov, K. Erotokritou, S. Miki, M. Yabuno, H. Terai, C. Gawith, M. Kues, L. Caspani, R. H. Hadfield, M. Clerici, "Mid-Infrared Two-Photon Interference and Entanglement", 7th Annual Bristol Quantum Information Technologies Workshop, April 27-29, 2020 (poster).
- [C113] A. Dada, T. Shields, S. Prabhakar, M. Ebrahim, G. Taylor, D. Morozov, K. Erotokritou, S. Miki, M. Yabuno, H. Terai, C. Gawith, M. Kues, L. Caspani, R. H. Hadfield, M. Clerici, Mid-infrared Two-Photon Interference and Entanglement, 9th EPS-QEOD Europhoton Conference, 30 August-4 September 2020 (virtual).
- [C112] T. Shields, A. Dada, S. Prabhakar, M. Ebrahim, G. Taylor, D. Morozov, K. Erotokritou, S. Miki, M. Yabuno, H. Terai, C. Gawith, M. Kues, L. Caspani, R. H. Hadfield, M. Clerici, "Generation and detection of polarization entanglement at 2.1 micron", Quantum Technology International Conference, November 2-4, 2020 (virtual).

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- [C110] V. Bruno, S. Vezzoli, C. DeVault, V.M. Shalaev, A. Boltasseva, M. Clerici, M. Ferrera, D. Faccio, "Highly Efficient Frequency Shifting from Temporally Modulated Epsilon-Near-Zero Surfaces", CLEO/Europe-EQEC Conference, Munich, Germany, June 23-27, 2019 (oral).
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- [C093] A. Mazhorova, M. Clerici, M. Peccianti, S.-P. Ho, L. Razzari, Y. Jestin, A. Pasquazi, A. Tomasino, A. Markov, R. Piccoli, A. Busacca, J. Ali, and R. Morandotti, "Asymmetric Dual-Grating Micro-Slit Configuration for Broadband Solid State Coherent Detection of THz Pulses", CLEO: Science and Innovations, San José, US, June 5-10, 2016.
- [C092] A. Mazhorova, R. Naccache, M. Clerici, L. K. Khorashad, A. O. Govorov, L Razzari, F. Vetrone, and R. Morandotti, "'Teramometry" and Plasmonic Nanoparticle Imaging for Temperature-Sensing in the Terahertz Regime", CLEO: QELS Fundamental Science, San José, US, June 5-10, 2016.
- [C091] A. Markov, A. Mazhorova, O. Yaakobi, M. Clerici, D. Modotto, O. Jedrkiewicz, P. Di Trapani, A. Major, F. Vidal, and R. Morandotti, "Autoresonant Three-Wave-Mixing in Non-Uniform Second-Order Nonlinear Bulk Crystals", CLEO: Science and Innovations, San José, US, June 5-10, 2016.
- [C090] A.M. Shaltout, M. Clerici, N. Kinsey, R. Kaipurath, J. Kim, E. G. Carnemolla, D. Faccio, A. Boltasseva, V.M. Shalaev, and M. Ferrera, "Experimental Time-Varying Light Reflection in an Epsilon-Near-Zero Active Medium", 7th International Conference on Metamaterials, Photonic Crystals and Plasmonics (Meta'16), Malaga, Spain, July 25-28, 2016.
- [C089] C. DeVault, N. Kinsey, M. Clerici, J. Kim, E.G. Carnemolla, A. Shaltout, D. Faccio, V.M. Shalaev, M. Ferrera, and A. Boltasseva, "Simultaneous Contribution of Ultrafast Interband and Intraband Dynamics in Al:ZnO", 7th International Conference on Metamaterials, Photonic Crystals and Plasmonics (Meta'16), Malaga, Spain, July 25-28, 2016.
- [C088] L. Caspani, R. Kaipurath, M. Clerici, M. Ferrera, T. Roger, A. Di Falco, J. Kim, N. Kinsey, V. M. Shalaev, A. Boltasseva, D. Faccio, "Linear enhancement of the Kerr nonlinear index in the epsilon-near-zero regime", 7th International Conference on Metamaterials, Photonic Crystals and Plasmonics (Meta'16), Malaga, Spain, July 25-28, 2016.

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- [C087] D. Faccio, R. Kaipurath, M. Pietrzyk, L. Caspani, T. Roger, M. Clerici and, A. Di Falco, "Resonant Dielectric, Semiconductor and Metallic Nanostructures", ICMAT2015, Suntec Singapore, June 28 – July 3, 2015 (poster).
- [C086] C. Reimer, M. Kues, L. Caspani, B. Wetzels, P. Roztocki, M. Clerici, Y. Jestin, M. Ferrera, M. Peccianti, A. Pasquazi, B. E. Little, S. T. Chu, D. J. Moss, and R. Morandotti, "Integrated bi-chromatically pumped optical parametric oscillator for orthogonally polarized photon pair generation", Integrated Photonics Research, Silicon and Nano Photonics, Boston, US, June 27-July 1, 2015 (oral).
- [C085] M. Clerici, M. Petev, N. Westerberg, E. Rubino, D. Moss, A. Couairon, F. Légaré, R. Morandotti, and D. Faccio, "Stimulated Emission of Dispersive Waves", CLEO/Europe-EQEC, Munich, Germany, June 21-25, 2015 (oral).

- [C084] M. Clerici, Y. Hu, P. Lassonde, C. Milian, A. Couairon, D. Christodoulides, Z. Chen, L. Razzari, F. Légaré, D. Faccio, Roberto Morandotti, "Guiding Discharges Around Obstacles", CLEO/Europe-EQEC, Munich, Germany, June 21-25, 2015 (oral).
- [C083] M. Clerici, S.-P. Ho, A. Mazhorova, M. Peccianti, A. Pasquazi, L. Razzari, J. Ali, and R. Morandotti, "Micro-Slit Assisted Coherent Broadband Terahertz Detection", CLEO/Europe-EQEC, Munich, Germany, June 21-25, 2015 (oral).
- [C082] M. Missori, J. Bagniuik, M. Clerici, J. Lojewska, M. Misiti, L. Peters, R. Morandotti, A. Mosca Conte, O. Pulci, L. Teodonio, C. Violante, and M. Peccianti, "Terahertz Waves for Ancient Manuscripts Conservation", CLEO/Europe-EQEC, Munich, Germany, June 21-25, 2015 (poster).
- [C081] A. Pasquazi, M. Peccianti, M. Clerici, C. Conti, and R. Morandotti, "Collapse Arrest in Instantaneous Kerr Media via Parametric Interactions", CLEO/Europe-EQEC, Munich, Germany, June 21-25, 2015 (oral).
- [C080] L. Caspani, C. Reimer, M. Clerici, M. Ferrera, M. Kues, M. Peccianti, A. Pasquazi, L. Razzari, B. E. Little, S. T. Chu, D. J. Moss, and R. Morandotti, "Wavelength-Multiplexed Heralded Single Photon Source on a Chip", CLEO/Europe-EQEC, Munich, Germany, June 21-25, 2015 (oral).
- [C079] L. Caspani, C. Reimer, M. Kues, B. Wetzel, P. Roztock, M. Clerici, Y. Jestin, M. Ferrera, M. Peccianti, A. Pasquazi, B. E. Little, S. T. Chu, D. J. Moss, and R. Morandotti, "Direct Generation of Cross-Polarized Photons on a Chip", CLEO/Europe-EQEC, Munich, Germany, June 21-25, 2015 (oral).
- [C078] R. K. Kaipurath, M. Pietrzyk, L. Caspani, T. Roger, M. Clerici, D. Faccio, and A. Di Falco, "Nonlinear Epsilon-Near-Zero Metamaterials", CLEO/Europe-EQEC, Munich, Germany, June 21-25, 2015 (oral).
- [C077] M. Pietrzyk, R. K. Kaipurath, L. Caspani, T. Roger, M. Clerici, D. Faccio, A. Di Falco, "Nonlinear properties of epsilon near zero metamaterials," EuroNanoForum 2015, Riga, Latvia 2015, June 10-12, 2015, (poster).
- [C076] M. Clerici, Y. Hu, P. Lassonde, C. Milian, A. Couairon, D. Christodoulides, Z. Chen, L. Razzari, F. Légaré, D. Faccio, Roberto Morandotti, "Laser Guided Curved Electric Discharges", CLEO, San José, US, May 10-15, 2015 (oral).
- [C075] D. Faccio, S. Rao, A. Lyons, T. Roger, M. Clerici, "Coherent control of negative refraction in graphene", NanoMeta 2015, Seefeld, Austria, January 5-8, 2015 (oral).

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- [C074] M. Missori, A. Mosca Conte, J. Bagniuik, M. Clerici, J. Łojewska, M. C. Misiti, R. Morandotti, M. Peccianti, O. Pulci, L. Teodonio, C. Violante "UV/Vis-IR-THz spectroscopy for conservation studies of ancient paper", International Workshop THz-ARTE, ENEA-Frascati, Italy, December 2-3 (2014).
- [C073] C. Reimer, L. Caspani, Y. Jestin, M. Clerici, M. Ferrera, M. Peccianti, A. Pasquazi, B. Little, S. Chu, D. Moss, R. Morandotti, "Direct Generation of Orthogonally Polarized Photon Pairs via Spontaneous Non-Degenerate FWM on a Chip", Frontiers in Modern Optics (FIO) 2014, Tucson, Arizona, US, October 19-23, 2014 (oral).
- [C072] S.-P. Ho, A. Mazhorova, M. Shalaby, M. Peccianti, M. Clerici, A. Pasquazi, Y. Ozturk, J. B. Ali, R. Morandotti, "Grating-patterned sub-wavelength terahertz beam characterization via an all-optical knife-edge technique," SPIE Photonics Asia, Beijing, China, October 9-11, 2014 (oral).

- [C071] D. Faccio, T. Roger, F. Biancalana, M. Petev, M. Clerici, R. Morandotti, F. Légaré, D. Majus, G. Tamosauskas, A. Dubietis, A. Couairon, P. Panagiotopoulos, M. Kolesik, and G. Genty, "Resonant Radiation Physics in Collapsing Light Pulses", Advanced Laser Technology, Cassis, France, October 6-10, 2014 (oral).
- [C070] C. Reimer, L. Caspani, Y. Jestin, M. Clerici, M. Ferrera, M. Peccianti, A. Pasquazi, B. E. Little, S. T. Chu, D. J. Moss, and R. Morandotti, "Direct generation of orthogonally polarized photon pairs on a chip via spontaneous non-degenerate FWM", Nonlinear Photonics, Barcelona, Spain, July 27-31, 2014 (oral).
- [C069] A. Pasquazi, M. Peccianti, M. Clerici, C. Conti, R. Morandotti, "Collapse Arrest in Instantaneous Kerr Media via Parametric Interactions", Nonlinear Photonics, Barcelona, Spain, July 27-31, 2014. (oral).
- [C068] M. Clerici, A. Mazhorova, S. P. Ho, M. Peccianti, A. Pasquazi, L. Razzari, J. Ali, R. Morandotti, "On Chip Broadband Terahertz Detection via Four-Wave Mixing in Electrically Biased Silica Micro-Slits", Nonlinear Photonics, Barcelona, Spain, July 27-31, 2014 (oral).
- [C067] C. Reimer, L. Caspani, M. Clerici, M. Ferrera, M. Kues, M. Peccianti, A. Pasquazi, L. Razzari, B. E. Little, S. T. Chu, D. J. Moss, and R. Morandotti, "Integrated source of multiplexed heralded photons", IEEE Summer Topicals, Montreal, July 14-16, Canada, 2014 (oral).
- [C066] O. Yaakobi, A. Mazhorova, M. Clerici, G. Dupras, D. Modotto, F. Vidal, and R. Morandotti, "Autoresonant Harmonic Generation in Nonuniform Crystals," CLEO, San José, US, June 8-13, 2014 (oral).
- [C065] A. Mazhorova, S.-P. Ho, M. Clerici, M. Peccianti, A. Pasquazi, L. Razzari, J. Ali, and R. Morandotti, "Terahertz Field Induced Second Harmonic Coherent Detection Scheme Based on a Biased Nonlinear Micro-slit," CLEO, San José, US, June 8-13, 2014 (oral).
- [C064] R. Naccache, A. Mazhorova, M. Clerici, L. Razzari, F. Vetrone, R. Morandotti, "Plasmonic Heating and Temperature-Sensing in the Terahertz Regime - Thermometry and Imaging," CLEO, San José, US, June 8-13, 2014 (oral).
- [C063] M. K. Mridha, A. Mazhorova, M. Clerici, I. Al-Naib, M. Daneau, X. Ropagnol, M. Peccianti, C. Reimer, M. Ferrera, L. Razzari, F. Vidal, and R. Morandotti, CLEO, San José, US, June 8-13, 2014 (poster).
- [C062] L. Caspani, C. Reimer, M. Clerici, M. Ferrera, M. Peccianti, A. Pasquazi, L. Razzari, B. E. Little, S. T. Chu, D. J. Moss, and R. Morandotti, "Integrated Source of Multiplexed Photon Pairs," CLEO, San José, US, June 8-13, 2014 (oral).
- [C061] C. Reimer, L. Caspani, Y. Jestin, M. Clerici, M. Ferrera, M. Peccianti, A. Pasquazi, B. E. Little, S. T. Chu, D. J. Moss, and R. Morandotti, "Orthogonally polarized correlated photon pair generation on a chip via self-pumped spontaneous non-degenerate FWM," CLEO, San José, US, June 8-13, 2014, (oral).
- [C060] M. Ferrera, C. Reimer, A. Pasquazi, M. Peccianti, M. Clerici, L. Caspani, B. E. Little, S. T. Chu, R. Morandotti, and D. J. Moss, "Characterization of ultra-high repetition rate mode-locked lasers with an integrated all-optical RF spectrum analyzer", CLEO, San José, US, June 8-13, 2014 (oral).
- [C059] S.-P. Ho, A. Mazhorova, M. Shalaby, M. Peccianti, M. Clerici, A. Pasquazi, Y. Ozturk, J. Ali, and R. Morandotti, "Rectangular-shaped sub-wavelength terahertz beam profiling via an all-optical knife-edge technique," CLEO, San José, US, June 8-13, 2014 (poster).

- [C058] C. Reimer, L. Caspani, M. Clerici, M. Ferrera, M. Kues, M. Peccianti, A. Pasquazi, L. Razzari, B. E. Little, S. T. Chu, D. J. Moss, and R. Morandotti, "Multiplexed Photon-Pair Source on a Chip", Fotonica, Naples, May 12-14, Italy, 2014 (oral).

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- [C057] R. Naccache, M. Clerici, F. Vetrone, R. Morandotti, "Interaction of Terahertz Radiation with Plasmonic Nanostructures", Materials Science & Technology 2013, October 27-31, Montreal, Canada, 2013 (oral).
- [C056] M. Clerici, M. Peccianti, B. E. Schmidt, L. Caspani, M. Shalaby, M. Giguère, A. Lotti, A. Couairon, F. Légaré, T. Ozaki, D. Faccio, and R. Morandotti, "A Scaling Mechanism for Increasing the Terahertz Emission from Ionization of Air", CLEO, San José, US, June 9-14, 2013 (oral).
- [C055] S. P. Ho, M. Shalaby, M. Peccianti, M. Clerici, A. Pasquazi, Y. Ozturk, J. Ali, and R. Morandotti, "Terahertz Characterization via an All-Optical, Ultra-Thin-Knife-Edge Technique", CLEO, San José, US, June 9-14, 2013 (oral).
- [C054] M. K. Mridha, A. Mazhorova, M. Daneau, M. Clerici, M. Peccianti, P.-L. Lavertu, X. Ropagnol, F. Vidal, and R. Morandotti, "Low Dispersion Propagation of Broadband THz Pulses in a Two-Wire Waveguide", CLEO, San José, US, June 9-14, 2013 (oral).
- [C053] O. Yaakobi, L. Caspani, M. Clerici, F. Vidal, and R. Morandotti, "Complete Pump Depletion by Autoresonant Wave Mixing in Nonuniform Second Order Media", CLEO, San José, US, June 9-14, 2013 (poster).
- [C052] M. Clerici, L. Caspani, E. Rubino, M. Peccianti, M. Cassataro, A. Busacca, T. Ozaki, D. Faccio, and R. Morandotti, "Counter-Propagating Difference Frequency Mixing in Diamond with Terahertz Waves", CLEO, San José, US, June 9-14, 2013 (oral).
- [C051] A. Pasquazi, M. Peccianti, M. Clerici, C. Buscemi, A. Busacca, and R. Morandotti, "Observation of Collapse Arrest in Pure Kerr Media Sustained by a Parametric Interaction", CLEO, San José, US, June 9-14, 2013 (oral).
- [C050] H. P. Bazargani, J.-B. Quéléne, P. Dumais, A. Malacarne, M. Clerici, R. Morandotti, C. Callender, and J. Azaña, "On-chip single-shot and real-time self-referenced phase characterization of GHz-rate telecommunication signals", CLEO, San José, US, June 9-14, 2013 (oral).
- [C049] M. K. Mridha, M. Daneau, A. Mazhorova, M. Clerici, M. Peccianti, P.-L. Lavertu, X. Ropagnol, F. Vidal, R. Morandotti, "Two-Wire waveguides for Broadband, Low-Dispersion Propagation of Terahertz Pulses", Photonics North 2013, Ottawa, Canada, June 3-5, 2013 (oral).
- [C048] O. Yaakobi, L. Caspani, M. Clerici, F. Vidal, and R. Morandotti, "Autoresonant three-wave mixing in inhomogeneous media", Photonics North 2013, Ottawa, Canada, June 3-5, 2013 (oral).
- [C047] S. P. Ho, M. Shalaby, M. Peccianti, M. Clerici, A. Pasquazi, Y. Ozturk, J. Ali, and R. Morandotti, "An All-Optical, Zero-Thickness Knife-Edge For Terahertz Characterization", Photonics North 2013, Ottawa, Canada, June 3-5, 2013 (oral).
- [C046] M. Clerici, M. Peccianti, B. E. Schmidt, L. Caspani, M. Shalaby, M. Giguère, A. Lotti, A. Couairon, F. Légaré, T. Ozaki, D. Faccio and R. Morandotti, "Scaling of the Terahertz Emission From Laser Induced Plasma with Increasing Pump Wavelength", Photonics North 2013, Ottawa, Canada, June 3-5, 2013 (oral).

- [C045] M. Clerici, L. Caspani, E. Rubino, M. Peccianti, M. Cassataro, A. Busacca, T. Ozaki, D. Faccio, and R. Morandotti, "Counter-Propagating Four-Wave Mixing in Diamond with Terahertz Waves", Photonics North 2013, Ottawa, Canada, June 3-5, 2013 (oral).
- [C044] M. Clerici, L. Caspani, E. Rubino, M. Peccianti, M. Cassataro, A. Busacca, T. Ozaki, D. Faccio, R. Morandotti, "Electric-Field Induced Second-Harmonic FROG Characterization of Long-Wavelength, Few-Cycle Pulses", CLEO/Europe-IQEC, Munich, Germany, May 12-16, 2013 (oral).
- [C043] S. P. Ho, M. Peccianti, M. Clerici, A. Pasquazi, L. Caspani, F. Buccheri, J. Ali, A. Busacca, and R. Morandotti, "Exact Reconstruction of Sub-wavelength THz Source Profile via Combination of Knife-edge Technique and Time-domain Spectroscopy", International Workshop on Optical Terahertz Science and Technology (OTST), Kyoto, Japan, April 1-5, 2013 (poster).
- [C042] S. P. Ho, M. Shalaby, M. Peccianti, M. Clerici, A. Pasquazi, Y. Ozturk, J. Ali, and R. Morandotti, "A Novel Optical Approach for THz Radiation Features Characterization", International Workshop on Optical Terahertz Science and Technology (OTST), Kyoto, Japan, April 1-5, 2013 (oral).
- [C041] L. Razzari, A. Toma, M. Clerici, M. Shalaby, G. Das, C. Liberale, M. Chirumamilla, R. Proietti Zaccaria, F. De Angelis, M. Peccianti, R. Morandotti, and E. Di Fabrizio, "Resonant Nanoantennas for Terahertz Light", International Workshop on Optical Terahertz Science and Technology (OTST), Kyoto, Japan, April 1-5, 2013 (oral).
- [C040] M. Kumar Mridha, M. Daneau, A. Mazhorova, M. Clerici, M. Peccianti, P.-L. Lavertu, X. Ropagnol, F. Vidal, and R. Morandotti, "Low Dispersion, broadband propagation of THz pulses in a Two-Wire waveguide", International Workshop on Optical Terahertz Science and Technology (OTST), Kyoto, Japan, April 1-5, 2013 (poster).
- [C039] M. Clerici, M. Peccianti, B. E. Schmidt, L. Caspani, M. Shalaby, M. Giguère, A. Lotti, A. Couairon, F. Légaré, T. Ozaki, D. Faccio, and Roberto Morandotti, "Scaling of the Terahertz Field From Two-Color Driven Gas Ionization With Increasing Pump Wavelength", International Workshop on Optical Terahertz Science and Technology (OTST), Kyoto, Japan, April 1-5, 2013 (poster).
- [C038] M. Clerici, D. Faccio, L. Caspani, M. Shalaby, M. Peccianti, B. E. Schmidt, O. Yaakobi, F. Vidal, F. Légaré, T. Ozaki, and R. Morandotti, "THz-Optical Four-Wave Mixing in Air and Coherent N_2^+ Emission", International Workshop on Optical Terahertz Science and Technology (OTST), Kyoto, Japan, April 1-5, 2013 (oral).
- [C037] M. Clerici, L. Caspani, E. Rubino, M. Peccianti, M. Cassataro, A. Busacca, T. Ozaki, D. Faccio, and R. Morandotti, "Counter-Propagating Four-Wave Mixing in Diamond with Terahertz Waves", International Workshop on Optical Terahertz Science and Technology (OTST), Kyoto, Japan, April 1-5, 2013 (poster).
- [C036] M. Shalaby, M. Peccianti, Y. Ozturk, M. Clerici, I. Al-Naib, L. Razzari, A. Mazhorova, M. Skorobogatiy, and R. Morandotti, "Broadband THz Faraday Rotation in a Magnetic Liquid", International Workshop on Optical Terahertz Science and Technology (OTST), Kyoto, Japan, April 1-5, 2013 (poster).
- [C035] D. Faccio and Others, "Enhanced single cycle THz pulse generation and applications in nonlinear THz photonics", US-UK Workshop in Mid-IR to THz Technology and Applications, Royal Society of Edinburgh, 22-24 George Street, Edinburgh, UK, February 18-19, 2013 (oral).
- [C034] M. Clerici, M. Peccianti, B. E. Schmidt, L. Caspani, M. Shalaby, M. Giguère, O. Yaakobi, A. Lotti, F. Vidal, A. Couairon, F. Légaré, T. Ozaki, D. Faccio, and R. Morandotti, "Envelope and

field effects in the nonlinear interaction of broadband terahertz fields and optical pulses in air", San Francisco, CA, US, February 2-7, 2013 (oral).

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- [C033] M. Peccianti, A. Pasquazi, L. Caspani, L. Razzari, M. Ferrera, D. Duchesne, M. Clerici, B. Little, S. T. Chu, D. J. Moss, and R. Morandotti, "Parametric oscillation in CMOS-compatible microring resonators induced with a self-locking scheme", Latin America Optics & Photonics Conference (Laop), São Sebastião, Brazil, November 10-13, 2012 (poster).
- [C032] A. Pasquazi, M. Peccianti, L. Caspani, L. Razzari, M. Ferrera, D. Duchesne, M. Clerici, B. E. Little, S. T. Chu, D. J. Moss and R. Morandotti, "A self-locking scheme for robust parametric oscillation in CMOS-compatible microring resonators", FIO (Frontiers in Optics) 2012, Rochester, New York, US, October 14-18, 2012 (oral).
- [C031] A. Pasquazi, M. Peccianti, L. Caspani, L. Razzari, M. Ferrera, D. Duchesne, M. Clerici, B. E. Little, S. T. Chu, D. J. Moss, R. Morandotti, "Self-locked OPO in CMOS-compatible microring resonators", Nonlinear Photonics, Colorado Springs, US, June 17-21, 2012 (oral).
- [C030] M. Peccianti, M. Clerici, M. Shalaby, L. Caspani, A. Lotti, A. Couairon, D. Cooke, T. Ozaki, D. Faccio, R. Morandotti, "Terahertz Field Detection Boost by Nonlinear Collapse of Normally Dispersed Optical Pulses", Nonlinear Photonics, Colorado Springs, US, June 17-21, 2012 (poster).
- [C029] M. Shalaby, M. Peccianti, Y. Ozturk, M. Clerici, I. Al-Naib, L. Razzari, A. Mazhorova, M. Skorobogatiy, T. Ozaki, and R. Morandotti, "Broadband THz Faraday rotation in a magnetic liquid", Photonics North Conference, Montreal, Canada, June 6-8, 2012 (poster).
- [C028] Y. Ozturk, M. Shalaby, M. Clerici, J.-Y. Hwang, A. Pignolet, R. Morandotti, "Ultrafast laser-induced spin dynamics of cerium and bismuth co-modified iron garnet thin film", Photonics North Conference, Montreal, Canada, June 6-8, 2012 (oral).
- [C027] M. Clerici, D. Faccio, M. Shalaby, M. Giguère, B. E. Schmidt, M. Peccianti, L. Caspani, F. Légaré, T. Ozaki, and R. Morandotti, "Electric-field characterization of long wavelength, few-cycles pulses by electric field-induced second-harmonic FROG", Photonics North Conference, Montreal, Canada, June 6-8, 2012 (oral).
- [C026] M. Clerici, M. Peccianti, M. Shalaby, L. Caspani, A. Lotti, A. Couairon, D. Cooke, T. Ozaki, D. Faccio, and R. Morandotti, "Chirp enhanced Broadband THz detection in gas", Photonics North Conference, Montreal, Canada, June 6-8, 2012 (oral).
- [C025] M. Shalaby, M. Peccianti, Y. Ozturk, M. Clerici, I. Al-Naib, L. Razzari, A. Mazhorova, M. Skorobogatiy, T. Ozaki, and R. Morandotti, "Magnetic field induced switching of terahertz pulses in a liquid", Photonics North Conference, Montreal, Canada, June 6-8, 2012 (oral).
- [C024] P. Tannouri, M. Clerici, M. Peccianti, M.J. Strain, A. Pasquazi, S. P. Ho, K. A. Rutkowska, M. Sorel and R. Morandotti, "Notch Nonlinear Frequency Blue Shift and Observation of Second Harmonic Generation in AlGaAs Bragg Grating Waveguides", Photonics North Conference, Montreal, Canada, June 6-8, 2012 (oral).
- [C023] Y. Hu, M. Li, D. Bongiovanni, M. Clerici, Z. Chen, J. Azana, R. Morandotti, "High-intensity self-accelerating Airy pulses and controllable spectral shifting in nonlinear Kerr media", CLEO, San José, US, May 6-11, 2012 (oral).
- [C022] M. Clerici, D. Faccio, M. Shalaby, M. Giguère, B. E. Schmidt, M. Peccianti, F. Légaré, T. Ozaki, R. Morandotti, "Electric-Field Induced Second-Harmonic FROG Characterization of Long-Wavelength, Few-Cycle Pulses", CLEO, San José, US, May 6-11, 2012 (oral).

- [C021] M. Clerici, M. Peccianti, M. Shalaby, L. Caspani, A. Lotti, A. Couairon, D. G. Cooke, T. Ozaki, D. Faccio; R. Morandotti, "Enhanced Detection of Broadband Terahertz Fields via the Filamentation of Chirped Optical Pulses", CLEO, San José, US, May 6-11, 2012 (oral).
- [C020] L. Caspani, M. Peccianti, A. Pasquazi, M. Clerici, Luca Razzari, B. E. Little, S. T. Chu, D. J. Moss, R. Morandotti, "Self-locked low threshold OPO in a CMOS-compatible microring resonator", CLEO, San José, US, May 6-11, 2012 (oral).
- [C019] M. Shalaby, M. Peccianti, Y. Ozturk, L. Razzari, M. Clerici, A. Mazhorova, M. Skorobogatiy, T. Ozaki, R. Morandotti, "Polarization-sensitive Magnetic Field Induced Modulation of Broadband THz Pulses in Liquid", CLEO, San José, US, May 6-11, 2012 (oral).

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