

Konstantinos Moutzouris

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Education

- 1999–2003 **University of St Andrews: Physics & Astronomy; UK**
PhD in Photonics & Nonlinear Optics^{1a}
- 1998–1999 **University of St Andrews: Physics & Astronomy; UK**
MSc in Optoelectronics & Laser Devices
- 1992–1998 **National & Kapodistrian University of Athens: Physics; GR**
BSc in Physics

Academic History

- 2006 **Swiss Federal Institute of Technology (ETH Zür): Physics; CH**
Postdoctoral Fellow, Ultrafast Laser Physics Group^{1b}
- 2004–2005 **University of Konstanz: Physics; DE**
Postdoctoral Fellow, Ultrafast Phenomena & Photonics Group^{1c}

Short Research Stays

- Sept-Dec 2003 **Technical University of Munich: Physics, DE**
Research Visitor, Laser & X-ray Physics Group^{1d}
- Jun-Aug 1999 **Rutherford Appleton Laboratory, Oxford, UK**
Research Visitor, Central Laser Facility^{1e}

Current Affiliation

- 2008–present **University of West Attica: Electrical & Electronic Eng.², GR**
Full Professor (since 2020); Assoc. Prof. (2015-2020); Ass. Prof. (2010-2014); Adj. Lect. (2008-2009).

Academic Services & Responsibility

- Leading Positions** Director of the **Electronic Devices and Materials Lab** (2019-present).
Director of the Division of Electronics and Materials (2021-present).
Deputy Director of the MSC in Electrical and Electronic Sciences by Research (2018-present).
Deputy Director of the Division of Electronics and Materials (2018-2019).
- Expert Evaluations** European Commission, Directorate General For Research & Innovation, HORIZON 2020.
Italian Ministry of Education, Universities & Research, Linea Principale 2018.
Greek General Secretariat for Research & Technology, ESPA 2014-2020.
Research Promotion Foundation of Cyprus, Restart 2016-2020.
- Review for Journals** Optics Letters. Optics Express. Applied Optics. IEEE Photonics Journal. Journal of Phys Chem B. Journal of Biomedical Optics. Optics Communications. Optical Materials. Materials Letters. Solid State Electronics. Journal of Phys & Chem of Solids. Phase Transit.
- Administrative duties** Member of 4 Electoral Bodies for the election of faculty staff and 35 ad-hoc Institutional Committees authorized to oversee various administrative, educational and financial processes.
Program Committee Member, 7th Intl. Conference on Bioimaging, Malta, 24-26 Feb. 2020.

¹Working with: ^aMajid Ebrahim-Zadeh; ^bUrsula Keller, ^cAlfred Leitenstorfer; Invited by: ^dAlfred Laubereau, ^eIan N. Ross

²Formerly known as: Technological Educational Institute (TEI) of Athens: Department of Electronic Engineering

Teaching

- Undergrad Courses Introduction to Quantum Physics; Quantum Electronic Devices; Optoelectronics; Photonic Technologies; Electromagnetism; Optoelectronics & Medical Lasers; Electric Circuits; Analogue Electronics II & III; Electronic Physics
- Postgrad Courses Special Topics in Modern Physics; Integrated & Quantum Electronics; Laser Ranging; Electrical & Optical Characterization of Materials & Devices.
- Supervision Three Postdoc projects; Two PhD projects; Four postgrad and thirteen undergrad thesis.

Research

- Topics of Expertise **Optical Materials & Measurements:** Refractometry of transparent and attenuating media; Optical properties of dielectrics, semiconductors, ionic liquids & organic solvents.
- Ultrafast lasers & Nonlinear Optics:** Mode-locking & femtosecond lasers; Optical parametric oscillators; Resonator designs; Second order nonlinear optics & phase-matching.
- Tissue Optics:** Refraction, absorption and scattering of coherent radiation in human tissues and biofluids; Optical markers for diseases of the gastrointestinal tract and the breast.
- EU Projects External Researcher in: Collective awareness platform for outdoor air pollution, **HackAir**¹; Building the Future Optical Network in Europe, **Bone**²; Agile Photonic Integrated Systems-on-Chip enabling WDM Terabit Networks, **Apache**³; Pan-European Photonics Task Force, **EuroFos**⁴; Optical frequency conversion in semiconductor heterostructures ii, **Ofcourse ii**⁵.
- National & Internal Projects External Researcher in: Environmental monitoring integrated system using an IoT network, **Emission**⁶; Research & development of novel multifunctional polymer nanocomposites, **MPN**⁷; Development & assessment of innovative experimental techniques for the study of the mechanical behavior of natural building stones, **Intermonu**⁸. Principal Investigator in: Refractometry: Extending scope & applicability, **Refract**⁹.
- Invited Research Seminars Delivered several lectures at Colloquia [University of Bonn, 2003; University of Paderbord, 2003; Technical University of Munich, 2003; ETH Zür, 2005; National Hellenic Research Foundation, 2007] and Summer Schools [Optoelectronics, Lasers & Applications, Crete, 2008].
- Selected Works **OPTICS LETTERS** 32, 1138 (2007)
Featured at the **RESEARCH HIGHLIGHTS SECTION OF NATURE PHOTONICS** 1, 202 (2007).
Has received 150⁺ non-self citations.
- OPTICS EXPRESS** 12, 5872 (2004)
Has received 100⁺ non-self citations.
- OPTICS LETTERS** 31, 1148 (2006)
Featured at **LASER FOCUS WORD**, S17 MAY (2006).
Featured at **PHOTONICS SPECTRA**, S107 JUNE (2006).
- SCIENTIFIC REPORTS** 6, 27910 (2016)
Won Best Article Award at the 30th Panhellenic Congress of Surgery & Intl. Surgical Forum 2016.
- Links & Metrics Orcid ID 0000-0003-3486-5865; Researcher Id I-6393-2012;
Scopus Author ID: 6602543169; Google Scholar.

¹ID 688363; 2.406M€; Horizon2020; Action: ICT Research & Innovation action; 1 Jan 2016 - 31 Dec 2018.

²ID 216863; 4.752M€; FP7; Action: ICT Network of Excellence; 1 Jan 2008 - 28 Feb 2011.

³ID 224326; 3.943M€; FP7; Action: ICT Collaborative Project; 1 Apr 2008 - 30 Sep 2011.

⁴ID 224402; 5.059M€; FP7; Action: ICT Network of Excellence; 1 May 2008 - 30 Apr 2012.

⁵ID 028202; 1.238M€; FP4; Action: ESPRIT Cost Sharing Contracts; 1 Feb 1999 - 31 Jul 2001.

⁶MIS N/A; 821K€; EPAnEK 2014-2020 Programme of GSRT; Action: Research-Create-Innovate; 3 Jul 2018 - 31 Jan 2021.

⁷MIS 379346; 600K€; Thales Programme funded by ESF/NSRF; 1 Jan 2012 - 31 Dec 2015.

⁸MIS 380147; 600K€; Thales Programme funded by ESF/NSRF; 1 Jan 2012 - 31 Sept 2015.

⁹ID 80228; 5K€; Internal Support of Researchers Programme; TEI of Athens Research Committee; 8 Oct 2015 - 31 Mar 2017.

Publication List

PEER REVIEW JOURNALS

- ³⁶ S. Koutsoumpos, P. Giannios, K. Moutzouris. *Determining the complex refractive index from two discrete angles in the specular reflectance profile of p polarised light.* [MEASUREMENT SCIENCE & TECHNOLOGY ONLINE FIRST](#) (2022).
- ³⁵ S. Koutsoumpos, P. Giannios, K. Moutzouris. *Two prism critical angle refractometry with attenuating media.* [INSTRUMENTS](#) 6, 21 (2022).
- ³⁴ S. Kriptou, G. Tsonos, A. Mezzetta, A. Mero, L. Guazzelli, K. Moutzouris, I. Stavrakas, C. Tsonos. *Dielectric study of tetraalkylammonium and tetraalkylphosphonium levulinate ionic liquids.* [INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES](#) 23, 5642 (2022).
- ³³ A. Mero, L. Guglielmo, F. D'Andrea, C.S Pomelli, L. Guazzelli, S. Koutsoumpos, G. Tsonos, I. Stavrakas, K. Moutzouris, A. Mezzetta. *Influence of the cation partner on levulinate ionic liquids properties.* [JOURNAL OF MOLECULAR LIQUIDS](#) 354, 118850 (2022).
- ³² S. Koutsoumpos, P. Giannios, K. Moutzouris. *Critical angle refractometry with optically isotropic attenuating media.* [APPLIED PHYSICS B: LASERS & OPTICS](#) 128, 91 (2022).
- ³¹ M. Matiatou, P. Giannios, S. Koutsoumpos, N.V Michalopoulos, K.G Toutouzas, G.C Zografos, K. Moutzouris. *Complex refractive index of freshly excised human breast tissue as a marker of disease.* [LASERS IN MEDICAL SCIENCES](#) 1-8 (2022).
- ³⁰ S. Koutsoumpos, P. Giannios, K. Moutzouris. *Critical angle refractometry for lossy media with a priori known extinction coefficient.* [PHYSICS](#) 3, 569 (2021).
- ²⁹ S. Koutsoumpos, P. Giannios, K. Moutzouris. *Extended derivative method of critical-angle refractometry for attenuating media: Error analysis.* [MEASUREMENT SCIENCE & TECHNOLOGY](#) 32, 105007 (2021).
- ²⁸ M. Matiatou, P. Giannios, S. Koutsoumpos, K.G Toutouzas, G.C Zografos, K. Moutzouris. *Data on the refractive index of freshly-excised human tissues in the visible and near-infrared spectral range.* [RESULTS IN PHYSICS](#) 22, 103833 (2021).
- ²⁷ S. Koutsoumpos, P. Giannios, I. Stavrakas, K. Moutzouris. *The derivative method of critical-angle refractometry for attenuating media.* [JOURNAL OF OPTICS](#) 22, 075601 (2020).
- ²⁶ S. Koutsoumpos, P. Giannios, D. Triantis, K. Moutzouris. *Critical-angle differential refractometry of lossy media: a theoretical study and practical design issues.* [INSTRUMENTS](#) 3, 36 (2019).
- ²⁵ J. Oelhafen, T. Mayr, F. Dorner, K. Moutzouris, J. Roths, K. Drechsler. *Fiber optic measurement system for Fresnel reflection sensing: Calibration, uncertainty, and exemplary application in temperature-modulated isothermal polymer curing.* [JOURNAL OF LIGHTWAVE TECHNOLOGY](#) 36, 939 (2018).
- ²⁴ P. Giannios, S. Koutsoumpos, K.G Toutouzas, M. Matiatou, G.C Zografos, K. Moutzouris. *Complex refractive index of normal and malignant human colorectal tissue in the visible and near-infrared.* [JOURNAL OF BIOPHOTONICS](#) 10, 303 (2017).
- ²³ C. Chiappe, P. Margari, A. Mezzetta, C.S Pomelli, S. Koutsoumpos, M. Papamichael, P. Giannios, K. Moutzouris. *Temperature effects on the viscosity and the wavelength-dependent refractive index of imidazolium-based ionic liquids with a phosphorus-containing anion.* [PHYS CHEM CHEM PHYS](#) 19, 8201 (2017).
- ²² P. Giannios, K.G Toutouzas, M. Matiatou, K. Stasinou, M.M Konstadoulakis, G.C Zografos, K. Moutzouris. *Visible to near-infrared refractive properties of freshly-excised human-liver tissues: marking hepatic malignancies.* [SCIENTIFIC REPORTS](#) 6, 27910 (2016).
- ²¹ K. Moutzouris, M. Papamichael, S.C Betsis, I. Stavrakas, G. Hloupis, D. Triantis. *Refractive, dispersive and thermo-optic properties of twelve organic solvents in the visible and near-infrared.* [APPLIED PHYSICS B: LASERS & OPTICS](#) 116, 617 (2014).
- ²⁰ I. Stavrakas, D. Triantis, G. Hloupis, K. Moutzouris. *Electrical characterization of polymer matrix-TiO₂ filler composites through isothermal polarization/depolarization currents & I-V tests.* [OPEN PHYSICS](#) 12, 286 (2014).
- ¹⁹ E. Stoumbou, I. Stavrakas, G. Hloupis, A. Alexandridis, D. Triantis, K. Moutzouris. *A comparative study on the use of the extended-Cauchy dispersion equation for fitting refractive index data in crystals.* [OPTICAL & QUANTUM ELECTRONICS](#) 45, 837 (2013).

- ¹⁸ A. Alexandridis, E. Chondrodima, K. Moutzouris, D. Triantis. *A neural network approach for the prediction of the refractive index based on experimental data.* [JOURNAL OF MATERIALS SCIENCE](#) 47, 883 (2012).
- ¹⁷ K. Moutzouris, G. Hloupis, I. Stavrakas, D. Triantis, M.H Chou. *Temperature-dependent visible to near-infrared optical properties of 8 mol% Mg-doped lithium tantalate.* [OPTICAL MATERIALS EXPRESS](#) 1, 458 (2011).
- ¹⁶ K. Moutzouris, I. Stavrakas, D. Triantis, M. Enculescu. *Temperature-dependent refractive index of potassium acid phthalate (KAP) in the visible and near-infrared.* [OPTICAL MATERIALS](#) 33, 812 (2011).
- ¹⁵ A. Esteban-Martin, O. Kokabee, K. Moutzouris, M. Ebrahim-Zadeh. *High-harmonic-repetition-rate, 1 GHz femtosecond optical parametric oscillator pumped by a 76 MHz Ti:sapphire laser.* [OPTICS LETTERS](#) 34, 428 (2009).
- ¹⁴ D. Träutlein, F. Adler, K. Moutzouris, A. Jeromin, A. Leitenstorfer, E. Ferrando-May. *Highly versatile confocal microscopy system based on a tunable femtosecond Er: fiber source.* [JOURNAL OF BIOPHOTONICS](#) 1, 53 (2008).
- ¹³ K. Moutzouris, F. Sotier, F. Adler, A. Leitenstorfer. *Sum frequency generation of continuously tunable blue pulses from a two-branch femtosecond fiber source.* [OPTICS COMMUNICATIONS](#) 274, 417 (2007).
- ¹² C. Erny, K. Moutzouris, J. Biegert, D. Kühlke, F. Adler, A. Leitenstorfer, U. Keller. *Mid-infrared difference-frequency generation of ultrashort pulses tunable between 3.2 and 4.8 μm from a compact fiber source.* [OPTICS LETTERS](#) 32, 1138 (2007).
- ¹¹ K. Moutzouris, F. Adler, F. Sotier, D. Träutlein, A. Leitenstorfer. *Multimilliwatt ultrashort pulses continuously tunable in the visible from a compact fiber source.* [OPTICS LETTERS](#) 31, 1148 (2006).
- ¹⁰ K. Moutzouris, F. Sotier, F. Adler, A. Leitenstorfer. *Highly efficient second, third and fourth harmonic generation from a two-branch femtosecond erbium fiber source.* [OPTICS EXPRESS](#) 14, 1905 (2006).
- ⁹ F. Adler, K. Moutzouris, A. Leitenstorfer, H. Schnatz, B. Lipphardt, G. Grosche, F. Tausser. *Phase-locked two-branch erbium-doped fiber laser system for long-term precision measurements of optical frequencies.* [OPTICS EXPRESS](#) 12, 5872 (2004).
- ⁸ S. Venugopal Rao, K. Moutzouris, M. Ebrahimzadeh. *Nonlinear frequency conversion in semiconductor optical waveguides using birefringent, modal and quasi-phase-matching techniques.* [JOURNAL OF OPTICS A: PURE & APPLIED OPTICS](#) 6, 569 (2004).
- ⁷ K. Moutzouris, S. Venugopal Rao, M. Ebrahimzadeh, A. De Rossi, M. Calligaro, V. Ortiz, V. Berger. *Second harmonic generation through optimized modal phase matching in semiconductor waveguides.* [APPLIED PHYSICS LETTERS](#) 83, 620 (2003).
- ⁶ K. Zeaiter, D.C Hutchings, R.M Gwilliam, K. Moutzouris, S. Venugopal Rao, M. Ebrahimzadeh. *Quasi-phase-matched second-harmonic generation in a GaAs/AlAs superlattice waveguide by ion-implantation-induced intermixing.* [OPTICS LETTERS](#) 28, 911 (2003).
- ⁵ S. Venugopal Rao, K. Moutzouris, M. Ebrahimzadeh, A. De Rossi, G. Gintz, M. Calligaro, V. Ortiz, V. Berger. *Influence of scattering and two-photon absorption on the optical loss in GaAs-Al₂O₃ nonlinear waveguides measured using femtosecond pulses.* [IEEE JOURNAL OF QUANTUM ELECTRONICS](#) 39, 478 (2003).
- ⁴ V. Loyo-Maldonado, H.K Lee, C.R Stanley, S. Venugopal Rao, K. Moutzouris, M. Ebrahimzadeh, J.S Aitchison. *Generation of ultrashort electrical pulses in semiconductor waveguides.* [IEEE PHOTONICS TECHNOLOGY LETTERS](#) 15, 428 (2003).
- ³ S. Venugopal Rao, K. Moutzouris, M. Ebrahimzadeh, A. De Rossi, G. Gintz, M. Calligaro, V. Ortiz, V. Berger. *Measurements of optical loss in GaAs/Al₂O₃ nonlinear waveguides in the infrared using femtosecond scattering technique.* [OPTICS COMMUNICATIONS](#) 213, 223 (2002).
- ² K. Moutzouris, S. Venugopal Rao, M. Ebrahimzadeh, A. De Rossi, V. Berger, M. Calligaro, V. Ortiz. *Efficient second-harmonic generation in birefringently phase-matched GaAs/Al₂O₃ waveguides.* [OPTICS LETTERS](#) 26, 1785 (2001).
- ¹ A.S. Helmy, D.C Hutchings, T.C Kleckner, J.H Marsh, A.C Bryce, J.M Arnold, C.R Stanley, J.S Aitchison, C.T.A Brown, K. Moutzouris, M. Ebrahimzadeh. *Quasi phase matching in GaAs-AlAs superlattice waveguides through bandgap tuning by use of quantum-well intermixing.* [OPTICS LETTERS](#) 25, 1370 (2000).

- ³⁷ T. Migos, I. Christakis, K. Moutzouris and I. Stavrakas. *On the Evaluation of Low-Cost PM Sensors for Air Quality Estimation*. 8th International Conference on Modern Circuits and Systems Technologies; Thessaloniki; Greece; 13 May 2019 through 15 May 2019. [IEEE MOCASST CONFERENCE PROCEEDINGS](#), 1-4 (2019).
- ³⁶ M. Matiatou, P. Giannios, K. Moutzouris, N. Michalopoulos, S. Koutsoumpos, K. Toutouzas, G.C Zografos. *Correlation of tissue optical characteristics to breast pathology*. 16th St. Gallen International Breast Cancer Conference, BCC 2019; Vienna; Austria; 2 March 2019 through 23 March 2019. [THE BREAST](#) 44, S131 (2019).
- ³⁵ M. Matiatou, P. Giannios, K. Moutzouris, N. Michalopoulos, S. Koutsoumpos, K. Toutouzas, G.C Zografos. *Identifying a relation between refractive index and breast pathology using prism coupling refractometry*. 11th European Breast Cancer Congress, EBCC11; Barcelona; Spain; 21 March 2018 through 23 March 2018. [EUROPEAN JOURNAL OF CANCER](#) 92, S126 (2018).
- ³⁴ J. Oelhafen, T. Mayr, K. Moutzouris, J. Roths, K. Drechsler. *Calibration and uncertainty of a fibre optic measurement system for Fresnel reflectometer sensors*. 25th International Conference on Optical Fiber Sensors, OFS 2017; Jeju; South Korea; 24 April 2017 through 28 April 2017. [PROCEEDINGS OF SPIE](#) 10323, ARTICLE No 103235O, 1-4 (2017).
- ³³ D. Triantis, I. Stavrakas, C. Anastasiadis, K. Moutzouris. *Electrical conductivity of polyurethane (PU) based fibro-porous membranes*. International Conference Science in Technology; SCinTE-2015; Athens; Greece; 5 November 2015 through 7 Sept. 2015. [SCINTE CONFERENCE PROCEEDINGS](#) 2, 21-23 (2015).
- ³² S.K. Kourkoulis, E.D. Pasiou, I. Stavrakas, G. Hloupis, D. Triantis, K. Moutzouris. *An experimental study of the mechanical response of a typical epistyles' connection under pure shear*. 39th Solid Mechanics Conference; Zakopane; Poland; 1 Sept. 2014 through 5 Sept. 2014. [SOLMECH BOOK OF ABSTRACTS](#), 125-126 (2014).
- ³¹ I. Stavrakas, D. Triantis, G. Hloupis, K. Moutzouris, C. Anastasiadis. *Monitoring Spatial Damage Development Through Electrical Current and Acoustic Emission Detection when Marble Specimens are Subjected to Mechanical Loading*. 8th International Conference on Advanced Computational Engineering and Experimenting; ACEX2014; Paris; France; 30 June 2014 through 3 July 2014. [ACEX BOOK OF ABSTRACTS](#), 43-44 (2014).
- ³⁰ G. Hloupis, V. Bimpikas, I. Stavrakas, K. Moutzouris, C. Stergiopoulos, D. Triantis. *Developing open source dataloggers for inquiry learning*. 6th International Conference on Computer Supported Education, CSEDU 2014; Barcelona; Spain; 1 April 2014 through 3 April 2014. [CSEDU PROCEEDINGS](#) 1, 555-562 (2014).
- ²⁹ G. Hloupis, I. Stavrakas, D. Triantis, K. Moutzouris. *Electrical current and acoustic emissions when marble specimens are subjected to compressive mechanical loading*. 30th Danubia-Adria Symposium on Advances in Experimental Mechanics, DAS 2013; Primosten; Croatia; 25 September 2013 through 28 September 2013. [DAS PROCEEDINGS](#), 123-124 (2013).
- ²⁸ G. Hloupis, G.T Malliaros, I. Stavrakas, K. Moutzouris, D. Triantis. *Remote Lab experiments: Preliminary results from an introductory electronic engineering module*. 5th Intl. Conf. on Computer Supported Education, CSEDU 2013; Aachen; Germany; 6 May 2013 through 8 May 2013. [CSEDU PROCEEDINGS](#), 277-280 (2013).
- ²⁷ G. Hloupis, I. Stavrakas, K. Moutzouris, D. Triantis. *Low cost experimental devices for educational seismic networks*. 4th International Conference on Computer Supported Education, CSEDU 2012; Porto; Portugal; 16 April 2012 through 18 April 2012. [CSEDU PROCEEDINGS](#) 1, 356-359 (2012).
- ²⁶ G. Hloupis, I. Stavrakas, A. Alexandridis, K. Moutzouris, D. Triantis. *Can open source electronics platforms be beneficial for early warning systems?* European Geosciences Union General Assembly, EGU 2011; Vienna; Austria; 03 April 2011 through 8 April 2011. [GEOPHYSICAL RESEARCH ABSTRACTS](#) 13, EGU2011-13004 (2011).
- ²⁵ G. Hloupis, I. Stavrakas, K. Moutzouris, A. Alexandridis, D. Triantis. *WSN open source development platform: Application to green learning*. 25th Eurosensors Conference; Athens; Greece; 4 September 2011 through 7 September 2011. [PROCEDIA ENGINEERING](#) 25, 1049-1052 (2011).
- ²⁴ A. Leitenstorfer, A. Sell, D. Träutlein, F. Adler, K. Moutzouris, F. Sotier, M. Kahl, R. Bratschitsch, R. Huber, E. Ferrando-May. *Ultrabroadband Er:fiber Systems and Applications*. 16th International Conference on Ultrafast Phenomena, UP 2008; Stresa; Italy; 9 July 2008 through 13 July 2008. [SPRINGER SERIES IN CHEMICAL PHYSICS 92: ULTRAFAST PHENOMENA XVI](#), 735-737 (2010).

- ²³ K. Moutzouris, I. Stavrakas, C. Anastasiadis, D. Triantis. *Theoretical Study of second harmonic generation in strontium and calcium tartrato-antimonates*. International Commission for Optics topical meeting: Emerging trends and novel materials in photonics, ICO 2009; Delphi; Greece; 7 October 2009 through 9 October 2009. [ICO PROCEEDINGS](#), 114 (2009).
- ²² O. Kokabee, A. Esteban Martin, K. Moutzouris, M. Ebrahim-Zadeh. *1-GHz femtosecond optical parametric oscillator pumped by a 76-MHz Ti:Sapphire laser*. Conference on Lasers and Electro-Optics, CLEO 2009; Baltimore, MD; United States; 31 May 2009 through 5 June 2009. [OSA TECHNICAL DIGEST SERIES](#), PAPER CWC5 (2009).
- ²¹ O. Kokabee, A. Esteban Martin, K. Moutzouris, M. Ebrahim-Zadeh. *Extended-cavity GHz-repetition-rate femtosecond optical parametric oscillator pumped at 76 MHz*. The European Conference on Lasers and Electro-Optics, CLEO/Europe 2009; Munich; Germany; 14 June 2009 through 19 June 2009. [CLEO/EUROPE CONFERENCE DIGEST](#), PAPER CD10-3 (2009).
- ²⁰ K. Moutzouris, F. Adler, A. Sell, A. Leitenstorfer. *Ultra-wide band wavelength converters*. 10th Anniversary International Conference on Transparent Optical Networks, ICTON; Athens; Greece; 22 June 2008 through 26 June 2008. [ICTON CONFERENCE PROCEEDINGS](#) 1, ARTICLE NO 4598406, 198-201 (2008).
- ¹⁹ C. Erny, K. Moutzouris, J. Biegert, U. Keller, D. Kühlke, F. Adler, A. Leitenstorfer. *Femtosecond mid-infrared difference-frequency-generation tunable between 3.2 μm and 4.8 μm from a compact fiber source*. Conference on Lasers and Electro-Optics, CLEO 2007; Baltimore, MD; United States; 6 May 2007 through 11 May 2007. [OSA TECHNICAL DIGEST SERIES](#), PAPER CThL4 (2007).
- ¹⁸ D. Träutlein, E. Ferrando-May, F. Adler, K. Moutzouris, A. Leitenstorfer, U. Camenisch, H. Nägeli, A. Jeromin. *Confocal microscopy and micromanipulation based on a femtosecond fiber laser with ultrawide tuning range*. The European Conference on Lasers and Electro-Optics, CLEO/Europe 2007; Munich; Germany; 17 June 2007 through 22 June 2007. [CLEO/EUROPE CONFERENCE DIGEST](#), PAPER CL2-3 (2007).
- ¹⁷ C. Erny, K. Moutzouris, J. Biegert, U. Keller, D. Kühlke, F. Adler, A. Leitenstorfer. *Femtosecond mid-infrared difference-frequency-generation tunable between 3.2 μm and 4.8 μm from a compact fiber source*. The European Conference on Lasers and Electro-Optics, CLEO/Europe 2007; Munich; Germany; 17 June 2007 through 22 June 2007. [CLEO/EUROPE CONFERENCE DIGEST](#), PAPER CA9-1 (2007).
- ¹⁶ K. Moutzouris, F. Adler, F. Sotier, D. Träutlein, A. Leitenstorfer. *Fiber-laser pumped MgO:LiNbO₃ based frequency doubler providing sub-picosecond pulses continuously tunable from 520 nm to 700 nm*. Conference on Lasers and Electro-Optics, CLEO 2006; Long Beach, CA; United States; 21 May 2006 through 26 May 2006. [OSA TECHNICAL DIGEST SERIES](#), PAPER JThC54 (2006).
- ¹⁵ F. Tauser, A. Zach, F. Lison, F. Adler, K. Moutzouris, A. Leitenstorfer. *Two alternative approaches to broadband visible light generation with mode-locked Erbium fiber lasers*. Conference on Lasers and Electro-Optics, CLEO 2006; Long Beach, CA; United States; 21 May 2006 through 26 May 2006. [OSA TECHNICAL DIGEST SERIES](#), PAPER JWB37 (2006).
- ¹⁴ F. Adler, K. Moutzouris, A. Leitenstorfer, H. Schnatz, B. Lipphardt, G. Grosche, F. Tauser. *Two-branch Er: fiber laser system for long-term optical frequency metrology*. Conference on Lasers and Electro-Optics, CLEO 2005; Baltimore, MD; United States; 22 May 2005 through 27 May 2005. [OSA TECHNICAL DIGEST SERIES](#), PAPER CThU4 (2005).
- ¹³ F. Tauser, A. Zach, F. Lison, F. Adler, K. Moutzouris, A. Leitenstorfer, H. Schnatz, B. Lipphardt. *Extending scope and applicability of femtosecond light pulses from erbium-doped fiber lasers*. Commercial and Biomedical Applications of Ultrafast Lasers V; San Jose, CA; United States; 24 January 2005 through 27 January 2005. [PROCEEDINGS OF SPIE](#) 5714, ARTICLE NO 01, 1-8 (2005).
- ¹² S. Venugopal Rao, K. Moutzouris, M. Ebrahimzadeh, A. De Rossi, M. Calligaro, V. Ortiz, V. Berger. *Modal phase matching in GaAs/AlGaAs waveguides: second harmonic generation with femtosecond pulses near 1.5 μm* . Conference on Lasers and Electro-Optics, CLEO 2003; Baltimore, MD; United States; 1 June 2003 through 6 June 2003. [OSA TECHNICAL DIGEST SERIES](#), PAPER CTuG1 (2003).

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