

Prof. İBRAHİM TUNA ÖZDÜR

Personal Information

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Education Information

Doctorate, University of Central Florida, Optik Ve Fotonik Fakültesi, Optik, United States Of America 2005 - 2011

Undergraduate, Middle East Technical University, Fen Edebiyat Fakültesi, Fizik, Turkey 1997 - 2002

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, LOW NOISE, NARROW OPTICAL LINEWIDTH SEMICONDUCTOR-BASED OPTICAL COMB SOURCE AND LOW NOISE RF SIGNAL GENERATION, University Of Central Florida, Optik Fotonik Fakültesi, Optik, 2011

Research Areas

Electrical and Electronics Engineering, Electromagnetic, Electromagnetic Waves, Antennas and Propagation, MEMS, Lasers and Masers, Optoelectronic Materials and Devices, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Abdullah Gul University, Mühendislik Fakültesi, Elektrik Elektronik Mühendisliği, 2014 - Continues

Assistant Professor, Abdullah Gul University, Mühendislik Fakültesi, Elektrik Elektronik Mühendisliği, 2013 - 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Study of helical antenna endowing short wire length and compact structure for high-frequency operations and its exclusive manufacturing process**
Aslan M., Şik K., Güzelkara I., Özdür I. T., Kiliç V. T.
Turkish Journal of Electrical Engineering and Computer Sciences, vol.31, no.2, pp.396-411, 2023 (SCI-Expanded)
- II. **Optical detection of microplastics in water**
Iri A. H., Shahrah M. H. A., Ali A. M., Qadri S. A., ERDEM T., ÖZDÜR İ. T., İÇÖZ K.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.28, no.45, pp.63860-63866, 2021 (SCI-Expanded)
- III. **Use of laser-induced bubbles in intraocular pressure measurement: a preliminary study**
ALTINDIŞ F., ÖZDÜR İ. T., Mutlu S. N., YILMAZ B.
LASER PHYSICS LETTERS, vol.16, no.1, 2019 (SCI-Expanded)

- IV. **Free-space to single-mode collection efficiency enhancement using photonic lanterns**
ÖZDÜR İ. T., Toliver P., Agarwal A., Woodward T.
OPTICS LETTERS, vol.38, no.18, pp.3554-3557, 2013 (SCI-Expanded)
- V. **Ultralow Noise, Etalon Stabilized, 10-GHz Optical Frequency Comb Based on an SCOW Amplifier**
Davila-Rodriguez J., ÖZDÜR İ. T., Bagnell M., Delfyett P. J., Plant J. J., Juodawlkis P. W.
IEEE PHOTONICS TECHNOLOGY LETTERS, vol.24, no.23, pp.2159-2162, 2012 (SCI-Expanded)
- VI. **Think Outside the Fiber: Imaging Amplifier for Space-Multiplexed Optical Transmission**
ÖZDÜR İ. T., Shu H., Bass M., Li G.
IEEE PHOTONICS JOURNAL, vol.4, no.5, pp.1316-1324, 2012 (SCI-Expanded)
- VII. **Advanced Ultrafast Technologies Based on Optical Frequency Combs**
Delfyett P. J., ÖZDÜR İ. T., Hoghooghi N., Akbulut M., Davila-Rodriguez J., Bhooplapur S.
IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS, vol.18, no.1, pp.258-274, 2012 (SCI-Expanded)
- VIII. **Measurement of carrier envelope offset frequency for a 10 GHz etalon-stabilized semiconductor optical frequency comb**
Akbulut M., Davila-Rodriguez J., ÖZDÜR İ. T., Quinlan F., Ozharar S., Hoghooghi N., Delfyett P. J.
OPTICS EXPRESS, vol.19, no.18, pp.16851-16865, 2011 (SCI-Expanded)
- IX. **Supermodes for optical transmission**
Xia C., Bai N., ÖZDÜR İ. T., Zhou X., Li G.
OPTICS EXPRESS, vol.19, no.17, pp.16653-16664, 2011 (SCI-Expanded)
- X. **Simultaneous ranging and velocimetry of fast moving targets using oppositely chirped pulses from a mode-locked laser**
Piracha M. U., Dat Nguyen D. N., ÖZDÜR İ. T., Delfyett P. J.
OPTICS EXPRESS, vol.19, no.12, pp.11213-11219, 2011 (SCI-Expanded)
- XI. **Low noise chirped pulse mode-locked laser using an intra-cavity Fabry-Perot etalon**
Mandridis D., Williams C., ÖZDÜR İ. T., Delfyett P. J.
OPTICS EXPRESS, vol.19, no.10, pp.8994-8999, 2011 (SCI-Expanded)
- XII. **Optical Frequency Stability Measurement Using an Etalon-Based Optoelectronic Oscillator**
ÖZDÜR İ. T., Mandridis D., Piracha M. U., Akbulut M., Hoghooghi N., Delfyett P. J.
IEEE PHOTONICS TECHNOLOGY LETTERS, vol.23, no.4, pp.263-265, 2011 (SCI-Expanded)
- XIII. **A semiconductor-based, frequency-stabilized mode-locked laser using a phase modulator and an intracavity etalon**
Davila-Rodriguez J., ÖZDÜR İ. T., Williams C., Delfyett P. J.
OPTICS LETTERS, vol.35, no.24, pp.4130-4132, 2010 (SCI-Expanded)
- XIV. **Low Noise Optically Tunable Opto-Electronic Oscillator With Fabry-Perot Etalon**
ÖZDÜR İ. T., Mandridis D., Hoghooghi N., Delfyett P. J.
JOURNAL OF LIGHTWAVE TECHNOLOGY, vol.28, no.21, pp.3100-3106, 2010 (SCI-Expanded)
- XV. **Direct Demodulation and Channel Filtering of Phase-Modulated Signals Using an Injection-Locked VCSEL**
Hoghooghi N., ÖZDÜR İ. T., Bhooplapur S., Delfyett P. J.
IEEE PHOTONICS TECHNOLOGY LETTERS, vol.22, no.20, pp.1509-1511, 2010 (SCI-Expanded)
- XVI. **Dynamic line-by-line pulse shaping with GHz update rate**
Akbulut M., Bhooplapur S., ÖZDÜR İ. T., Davila-Rodriguez J., Delfyett P. J.
OPTICS EXPRESS, vol.18, no.17, pp.18284-18291, 2010 (SCI-Expanded)
- XVII. **A Photonic Method for Measuring the AM Noise of Periodic Electrical Signals**
Mandridis D., ÖZDÜR İ. T., Akbulut M., Delfyett P. J.
IEEE PHOTONICS TECHNOLOGY LETTERS, vol.22, no.11, pp.790-792, 2010 (SCI-Expanded)
- XVIII. **Free spectral range measurement of a fiberized Fabry-Perot etalon with sub-Hz accuracy**
Mandridis D., ÖZDÜR İ. T., Bagnell M., Delfyett P. J.
OPTICS EXPRESS, vol.18, no.11, pp.11264-11269, 2010 (SCI-Expanded)
- XIX. **Low-noise, low repetition rate, semiconductor-based mode-locked laser source suitable for high bandwidth photonic analog-digital conversion**

- Mandridis D., ÖZDÜR İ. T., Quinlan F., Akbulut M., Plant J. J., Juodawlkis P. W., Delfyett P. J.
APPLIED OPTICS, vol.49, no.15, pp.2850-2857, 2010 (SCI-Expanded)
- XX. **Resonant cavity linear interferometric intensity modulator**
Hoghooghi N., ÖZDÜR İ. T., Akbulut M., Davila-Rodriguez J., Delfyett P. J.
OPTICS LETTERS, vol.35, no.8, pp.1218-1220, 2010 (SCI-Expanded)
- XXI. **Range resolved lidar for long distance ranging with sub-millimeter resolution**
Piracha M. U., Nguyen D., Mandridis D., Yilmaz T., ÖZDÜR İ. T., Ozharar S., Delfyett P. J.
OPTICS EXPRESS, vol.18, no.7, pp.7184-7189, 2010 (SCI-Expanded)
- XXII. **A Semiconductor-Based 10-GHz Optical Comb Source With Sub 3-fs Shot-Noise-Limited Timing Jitter and similar to 500-Hz Comb Linewidth**
ÖZDÜR İ. T., Akbulut M., Hoghooghi N., Mandridis D., Ozharar S., Quinlan F., Delfyett P. J.
IEEE PHOTONICS TECHNOLOGY LETTERS, vol.22, no.6, pp.431-433, 2010 (SCI-Expanded)
- XXIII. **Optoelectronic loop design with 1000 finesse Fabry-Perot etalon**
ÖZDÜR İ. T., Akbulut M., Hoghooghi N., Mandridis D., Piracha M. U., Delfyett P. J.
OPTICS LETTERS, vol.35, no.6, pp.799-801, 2010 (SCI-Expanded)
- XXIV. **An Electrooptic Feedforward System for Dynamic Control of a Quasi-Continuous-Wave Chirped Laser Source**
Mandridis D., ÖZDÜR İ. T., Delfyett P. J.
IEEE PHOTONICS TECHNOLOGY LETTERS, vol.21, no.17, pp.1226-1228, 2009 (SCI-Expanded)
- XXV. **Jitter reduction by intracavity active phase modulation in a mode-locked semiconductor laser**
Ozharar S., ÖZDÜR İ. T., Quinlan F., Delfyett P. J.
OPTICS LETTERS, vol.34, no.5, pp.677-679, 2009 (SCI-Expanded)
- XXVI. **An Interferometric Method for High Extinction Ratio Measurements With 60-dB Dynamic Range**
ÖZDÜR İ. T., Ozharar S., Quinlan F., Mandridis D., Delfyett P. J.
IEEE PHOTONICS TECHNOLOGY LETTERS, vol.20, pp.2075-2077, 2008 (SCI-Expanded)
- XXVII. **Modified Pound-Drever-Hall scheme for high-precision free spectral range measurement of Fabry-Perot etalon**
ÖZDÜR İ. T., Ozharar S., Quinlan F., Gee S., Delfyett P. J.
ELECTRONICS LETTERS, vol.44, no.15, pp.927-929, 2008 (SCI-Expanded)
- XXVIII. **Ultraflat optical comb generation by phase-only modulation of continuous-wave light**
Ozharar S., Quinlan F., ÖZDÜR İ. T., Gee S., Delfyett P. J.
IEEE PHOTONICS TECHNOLOGY LETTERS, vol.20, pp.36-38, 2008 (SCI-Expanded)
- XXIX. **Ultra-high spur-free dynamic range RF synthesis using optical homodyne serrodyne technique**
Ozharar S., Gee S., Quinlan F., ÖZDÜR İ. T., Delfyett P. J.
ELECTRONICS LETTERS, vol.43, no.5, pp.304-306, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **Three dimensional imaging in degraded visual field**
ORAN A., ÖZHARAR S., ÖZDÜR İ. T.
Journal of Physics: Conference Series, vol.707, pp.12032, 2016 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Yarıiletken kazanç temelli 18 GHz'de düşük faz gürültülü kip kilitlemeli lazer**
ORAN A., ÖZDÜR İ. T., ÖZHARAR S.
20. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Ankara, Turkey, 14 September 2018
- II. **Fotonik Fener Tabanlı Eş Fazlı Alıcı Performans Değerlendirmesi**
ORAN A., ÖZDÜR İ. T., ÖZBAY E.

Supported Projects

ÖZDÜR İ. T., Project Supported by Higher Education Institutions, 40 GHz Fotonik Tabanlı Mikrodalga Sinyal Üretimi, 2015 - 2018

Metrics

Publication: 32

Citation (WoS): 545

Citation (Scopus): 671

H-Index (WoS): 12

H-Index (Scopus): 14

Non Academic Experience

Business Organization (private), Applied Communication Sciences