

# Prof. İBRAHİM TUNA ÖZDÜR

## Personal Information

**Email:** ibrahim.ozdur@agu.edu.tr

**Web:** <https://avesis.agu.edu.tr/ibrahim.ozdur>

## Education Information

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

Under Graduate, Orta Doğu Teknik Üniversitesi, 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 Gül Üniversitesi, Mühendislik Fakültesi, Elektrik Elektronik Mühendisliği, 2014 - Continues

Assistant Professor, Abdullah Gül Üniversitesi, Mühendislik Fakültesi, Elektrik Elektronik Mühendisliği, 2013 - 2014

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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, 2021 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)

- V. **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 (Journal Indexed in SCI)
- VI. **Advanced Ultrafast Technologies Based on Optical Frequency Combs**  
Delfyett P. J. , ÖZDÜR İ. T. , Hoghooghi N., Akbulut M., Davila-Rodriguez J., Bhoopapur S.  
IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS, vol.18, no.1, pp.258-274, 2012 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)
- XII. **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 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI)
- XIV. **Direct Demodulation and Channel Filtering of Phase-Modulated Signals Using an Injection-Locked VCSEL**  
Hoghooghi N., ÖZDÜR İ. T. , Bhoopapur S., Delfyett P. J.  
IEEE PHOTONICS TECHNOLOGY LETTERS, vol.22, no.20, pp.1509-1511, 2010 (Journal Indexed in SCI)
- XV. **Dynamic line-by-line pulse shaping with GHz update rate**  
Akbulut M., Bhoopapur S., ÖZDÜR İ. T. , Davila-Rodriguez J., Delfyett P. J.  
OPTICS EXPRESS, vol.18, no.17, pp.18284-18291, 2010 (Journal Indexed in SCI)
- XVI. **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 (Journal Indexed in SCI)
- XVII. **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 (Journal Indexed in SCI)
- XVIII. **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 (Journal Indexed in SCI)
- XIX. **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 (Journal Indexed in SCI)
- XX. **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 (Journal Indexed in SCI)
- XXI. **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 (Journal Indexed in SCI)
- XXII. **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 (Journal Indexed in SCI)
- XXIII. **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 (Journal Indexed in SCI)
- XXIV. **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 (Journal Indexed in SCI)
- XXV. **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 (Journal Indexed in SCI)
- XXVI. **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 (Journal Indexed in SCI)
- XXVII. **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 (Journal Indexed in SCI)
- XXVIII. **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 (Journal Indexed in SCI)

## 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 (Refereed Journals of Other Institutions)

## 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.  
FOTONİK 2016 | 18. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Ankara, Turkey, 23 September 2016, vol.707, pp.12032

## **Supported Projects**

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

## **Citations**

Total Citations (WOS):527

h-index (WOS):12

## **Non Academic Experience**

Business Organization (private), Applied Communication Sciences