Prof.Dr. İBRAHİM TUNA ÖZDÜR

Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, University of Central Florida, Optik Ve Fotonik Fakültesi, Optik, Amerika Birleşik Devletleri 2005 - 2011
Lisans, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik, Türkiye 1997 - 2002

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, 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

Araştırma Alanları

Elektrik-Elektronik Mühendisliği, Elektromanyetik, Elektromanyetik Dalgalar, Antenler ve Propagasyon, MEMS, Lazerler ve Mazerler , Optoelektronik Malzeme ve Aygıtlar , Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Doç.Dr., Abdullah Gül Üniversitesi, Mühendislik Fakültesi, Elektrik Elektronik Mühendisliği, 2014 - Devam Ediyor
Yrd.Doç.Dr., Abdullah Gül Üniversitesi, Mühendislik Fakültesi, Elektrik Elektronik Mühendisliği, 2013 - 2014

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

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, cilt.31, sa.2, ss.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, cilt.28, sa.45, ss.63860-63866, 2021 (SCI-Expanded)

III. **Use of laser-induced bubbles in intraocular pressure measurement: a preliminary study**
ALTINDİŞ F., ÖZDÜR İ. T., Mutlu S. N., YILMAZ B.
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IV. **Free-space to single-mode collection efficiency enhancement using photonic lanterns**
ÖZDÜR İ. T., Toliver P., Agarwal A., Woodward T.
OPTICS LETTERS, cilt.38, sa.18, ss.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, cilt.24, sa.23, ss.2159-2162, 2012 (SCI-Expanded)

VI. **Think Outside the Fiber: Imaging Amplifi er for Space-Multiplexed Optical Transmission**
ÖZDÜR İ. T., Shu H., Bass M., Li G.
IEEE PHOTONICS JOURNAL, cilt.4, sa.5, ss.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, cilt.18, sa.1, ss.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, cilt.19, sa.18, ss.16851-16865, 2011 (SCI-Expanded)

IX. **Supermodes for optical transmission**
Xia C., Bai N., ÖZDÜR İ. T., Zhou X., Li G.
OPTICS EXPRESS, cilt.19, sa.17, ss.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, cilt.19, sa.12, ss.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, cilt.19, sa.10, ss.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, cilt.23, sa.4, ss.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, cilt.35, sa.24, ss.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, cilt.28, sa.21, ss.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, cilt.22, sa.20, ss.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, cilt.18, sa.17, ss.18284-18291, 2010 (SCI-Expanded)

XVII. **A Photonic Method for Measuring the AM Noise of Periodic Electrical Signals**
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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.
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XIX. **Low-noise, low repetition rate, semiconductor-based mode-locked laser source suitable for high bandwidth photonic analog-digital conversion**

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XX. **Resonant cavity linear interferometric intensity modulator**
Hoghooghi N., ÖZDÜR İ. T., Akbulut M., Davila-Rodriguez J., Delfyett P. J.
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XXI. **Range resolved lidar for long distance ranging with sub-millimeter resolution**
Piracha M. U., Nguyen D., Mandridis D., Yılmaz T., ÖZDÜR İ. T., Ozharar S., Delfyett P. J.
OPTICS EXPRESS, cilt.18, sa.7, ss.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, cilt.22, sa.6, ss.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.
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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, cilt.21, sa.17, ss.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, cilt.34, sa.5, ss.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, cilt.20, ss.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, cilt.44, sa.15, ss.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, cilt.20, ss.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, cilt.43, sa.5, ss.304-306, 2007 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

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

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

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, Türkiye, 14 Eylül 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, Türkiye, 23 Eylül 2016, cilt.707, ss.12032

Desteklenen Projeler

ÖZDÜR İ. T., Yükseköğretim Kurumları Destekli Proje, 40 GHz Fotonik Tabanlı Mikrodalga Sinyal Üretimi, 2015 - 2018

Metrikler

Yayın: 32
Atıf (WoS): 532
Atıf (Scopus): 671
H-İndeks (WoS): 12
H-İndeks (Scopus): 14

Akademi Dışı Deneyim

Ticari Kuruluş (özel), Applied Communication Sciences