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Education Information

Doctorate, Middle East Technical University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 1997 - 2007

Undergraduate, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Turkey 1988 - 1992

Dissertations

Doctorate, Numerical simulations on stimulated raman scattering for fiber raman amplifiers and lasers using spectral methods, Middle East Technical University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2007

Academic Titles / Tasks

Associate Professor, Ankara Haci Bayram Veli University, Polatlı Faculty of Arts and Sciences, Department of Physics, 2020 - Continues

Courses

GENEL FİZİK 1, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Plazma Fiziği, Undergraduate, 2014 - 2015

ÖLÇME VE ENSTRÜMANTASYON, Undergraduate, 2014 - 2015

Lazer Fiziği, Undergraduate, 2013 - 2014

Optoelektronik, Undergraduate, 2013 - 2014

Titreşim ve Dalgalar, Undergraduate, 2013 - 2014

Advising Theses

BERBEROĞLU H., Development of hand-held laser-induced breakdown spectroscopy(LIBS) device, Postgraduate, M.AKTEPE(Student), 2021

BERBEROĞLU H., Helyum-neon lazerlerde kullanılan alüminyum elektrotlar üzerinde oksit tabakası birikimi ve karakterizasyonu, Postgraduate, A.İLHAN(Student), 2019

BERBEROĞLU H., Fiber-integrated terahertz spectrometer driven by ultrafast ytterbium doped fiber laser, Postgraduate, H.KESKİN(Student), 2013

BERBEROĞLU H., Development of a picosecond pulsed mode-locked fiber laser, Postgraduate, M.EMRE(Student), 2013

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Performance evaluation of laser induced breakdown spectroscopy in the measurement of liquid and solid samples**
Bilge G., Sezer B., BOYACI İ. H., ESELLER K. E., Berberoglu H.
SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY, vol.145, pp.115-121, 2018 (SCI-Expanded)
- II. **Determination of whey adulteration in milk powder by using laser induced breakdown spectroscopy**
Bilge G., Sezer B., ESELLER K. E., Berberoglu H., TOPCU A., BOYACI İ. H.
FOOD CHEMISTRY, vol.212, pp.183-188, 2016 (SCI-Expanded)
- III. **Determination of Ca addition to the wheat flour by using laser-induced breakdown spectroscopy (LIBS)**
Bilge G., Sezer B., ESELLER K. E., Berberoglu H., Koksel H., BOYACI İ. H.
EUROPEAN FOOD RESEARCH AND TECHNOLOGY, vol.242, no.10, pp.1685-1692, 2016 (SCI-Expanded)
- IV. **Ash analysis of flour sample by using laser-induced breakdown spectroscopy**
Bilge G., Sezer B., ESELLER K. E., Berberoglu H., Koksel H., BOYACI İ. H.
SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY, vol.124, pp.74-78, 2016 (SCI-Expanded)
- V. **A simple single-mode fiber loss measurement scheme in the C-band based on fiber loop-cavity ringdown spectroscopy**
Berberoglu H., ALTAN H.
OPTICS COMMUNICATIONS, vol.317, pp.29-33, 2014 (SCI-Expanded)
- VI. **The numerical study of pumping configurations on the lasing efficiency in photonic crystal fiber Raman laser**
Berberoglu H., TARMAN I. H.
OPTIK, vol.124, no.6, pp.522-525, 2013 (SCI-Expanded)
- VII. **Variational Approach to Power Evolution in Cascaded Fiber Raman Laser**
TARMAN I. H., Berberoglu H.
JOURNAL OF LIGHTWAVE TECHNOLOGY, vol.28, no.21, pp.3136-3141, 2010 (SCI-Expanded)
- VIII. **Efficient Numerical Algorithm for Cascaded Raman Fiber Lasers Using a Spectral Method**
TARMAN I. H., Berberoglu H.
JOURNAL OF LIGHTWAVE TECHNOLOGY, vol.27, no.13, pp.2289-2295, 2009 (SCI-Expanded)
- IX. **A spectral collocation algorithm for two-point boundary value problem in fiber Raman amplifier equations**
TARMAN I. H., Berberoglu H.
OPTICS COMMUNICATIONS, vol.282, no.8, pp.1551-1556, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Determination of balance degree of spinning gyro disk by using optical feedback interferometry**
Candan C., TİKEN M., ORHAN E., BERBEROĞLU H.
Proceedings of SPIE, vol.10695, 2018 (Scopus)
- II. **Re construction of a Target Motion Shape with Self Mixing Laser Diode System**
Tiken M., Candan C., BERBEROĞLU H.
Savunma Bilimleri Dergisi, vol.15, no.1, pp.179-199, 2016 (Peer-Reviewed Journal)

Books & Book Chapters

I. Food science application

ESELLER K. E., BOYACI İ. H., Sezer B., BİLGE G., BERBEROĞLU H.

in: Laser-Induced Breakdown Spectroscopy, , Editor, Elsevier Science, pp.347-368, 2020

Refereed Congress / Symposium Publications in Proceedings

- I. Raman Amplifier Possibility of Optical Steganography for Secure Communication
BERBEROĞLU H., ORHAN E.
1st Workshop on TF-X Integrated Processing Unit Technologies, Turkey, 11 December 2018 - 13 January 2019
- II. Optik Geri Besleme Girişim Tekniği ile Mikron Ölçekte Titreşimlerin Mutlak Yerdeğiştirme Hareketinin Belirlenmesi
TİKEN M., CANDAN C., KUL E., ORHAN E., BERBEROĞLU H.
Fotonik 201719. Ulsal Optik, Elektro-Optik ve Fotonik Çalıştayı, Turkey, 29 September 2017
- III. Desing and Fabrication of Green Laser Designater Prototype
DEVELİ B., TİKEN M., BERBEROĞLU H., BİLGE OCAK S., ORHAN E.
Turkish Physical Society 33. International Congress, 6 - 10 September 2017
- IV. Rapid Elemental Analysis of Foods By Using Laser Induced Breakdown Spectroscopy
BİLGE G., Sezer B., ESELLER K. E., BOYACI İ. H., BERBEROĞLU H.
7th international symposium on recent advances in food analysis, Prague, Czech Republic, 3 - 06 November 2015
- V. Numerical Improvement of Terahertz Time-Domain Spectroscopic Measurements
Koseoglu D., BERBEROĞLU H., ALTAN H.
NATO Advanced Research Workshop on Terahertz and Mid Infrared Radiation - Basic Research and Practical Applications, Marmaris, Turkey, 3 - 06 November 2009, pp.85-90
- VI. Silika Tabanlı Fiberlerde Uyarılmış Raman Saçılımı
BERBEROĞLU H.
12. Yoğun Madde Fiziği, Turkey, 18 November 2005

Supported Projects

BERBEROĞLU H., TUBITAK Project, Terahertz Frekans Bandı Yüksek Veri Hızı Komünikasyon Sistemi Deneysel Alıcı Verici Yapılarının Kurulması Ve Geliştirilmesi, 2013 - 2019

BERBEROĞLU H., Project Supported by Other Official Institutions, Toprakta Azot Miktarının Ölçümlenmesine ve Gübre Önerisinde Kullanılmasına Yönelik Taşınabilir Lazerle Tespit Sistemi Tasarımı ve Yöntem Geliştirilmesi, 2015 - 2018

BERBEROĞLU H., Project Supported by Higher Education Institutions, Dinlemeyen Fiber Optik Ağların Kurulması, 2015 - 2018

BERBEROĞLU H., Industrial Thesis Project, ÇEŞİTLİ ÇAPTAKİ NAMLULARIN ÖLÇÜMÜNDE KULLANILICAK MASTER LAZER OPTİK SİSTEMLERİNİN TASARIMI, 2008 - 2011

Metrics

Publication: 18

Citation (WoS): 116

Citation (Scopus): 1

H-Index (WoS): 5

H-Index (Scopus): 1