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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAH-5448-2021

ScopusID: 55747963900

Yoksis Researcher ID: 207232

Education Information

Doctorate, Bursa Uludağ University, Fen Bilimleri Enstitüsü, Fen Bilimleri Enstitüsü, Turkey 2010 - 2016

Postgraduate, Bursa Uludağ University, Fen Bilimleri Enstitüsü, Fen Bilimleri Enstitüsü, Turkey 2004 - 2007

Undergraduate, Bursa Uludağ University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, Turkey 1992 - 1998

Foreign Languages

Italian, B1 Intermediate

German, B1 Intermediate

English, C1 Advanced

Certificates, Courses and Trainings

Education Management and Planning, EĞİTİMDE İNOVASYON VE ETKİLEŞİM, BURSA ULUDAĞ UNIVERSITY, 2020

Dissertations

Doctorate, ANALYSIS AND MODELLING OF THE THERMAL EFFECTS IN OPTICAL FIBER DISTRIBUTED SENSING SYSTEMS , Bursa Uludağ University, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği (Dr), 2016

Postgraduate, Sensing simulations of the temperatures and strains occurred on power cable by the optical fiber sensors, Bursa Uludağ University, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği (YI) (Tezli), 2007

Research Areas

Electrical and Electronics Engineering, Sensing Devices and Transducers, Optics and Photonics, Optical Materials and Devices, Engineering and Technology

Academic Titles / Tasks

Courses

Lidar and Radar Systems in Hybrid Electric Vehicles, Postgraduate, 2021 - 2022

Photonic and Optical Switching Methods, Postgraduate, 2021 - 2022

Optical Fiber Sensor Applications in Hybrid Electric Vehicles, Postgraduate, 2021 - 2022

Optoelectronic Circuits, Postgraduate, 2021 - 2022

OCCUPATIONAL HEALTH AND SAFETY, Undergraduate, 2020 - 2021

OPTOELECTRONICS, Undergraduate, 2021 - 2022

PHOTONICS CIRCUIT COMPONENTS, Undergraduate, 2020 - 2021

COMMUNICATION ELECTRONICS, Undergraduate, 2020 - 2021

ELECTRICAL MATERIALS, Undergraduate, 2020 - 2021

Operational Amplifier and their Applications, Undergraduate, 2020 - 2021

Integrated Communication Networks, Undergraduate, 2020 - 2021

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Bursa Uludağ University, February, 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Influence of temperature on detectable minimum rotation rate in i-FOGs using Er-doped SFSs**
Sag E., GÜNDAY A., YILMAZ G.
JOURNAL OF ELECTRICAL ENGINEERING-ELEKTROTECHNICKY CASOPIS, vol.73, no.2, pp.146-151, 2022 (Peer-Reviewed Journal)
- II. **A method for distributed sensing of temperature, strain and weight formations employing the acoustic velocity and Bulk modulus of fused silica**
GÜNDAY A.
Optik, vol.252, 2022 (Peer-Reviewed Journal)
- III. **Computational analysis of the core refractive index dependencies of Brillouin frequency shift and Brillouin power change in Brillouin coherent detection based distributed sensing systems**
GÜNDAY A.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.12, pp.502-511, 2018 (Peer-Reviewed Journal)
- IV. **Analysis of effects of Young modulus variations on Brillouin power and Brillouin frequency shift changes in optical fibers**
GÜNDAY A., KARLIK S. E., YILMAZ G.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.18, pp.1000-1006, 2016 (Peer-Reviewed Journal)
- V. **THE IMPACT OF TEMPERATURE AND STRAIN FORMATIONS ON YOUNG AND SHEAR MODULI IN USAGE OF OPTICAL FIBER DISTRIBUTED SENSING FOR POWER CABLES**
GÜNDAY A., KARLIK S. E., YILMAZ G.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.29, no.3, pp.517-525, 2014 (Peer-Reviewed Journal)

Articles Published in Other Journals

- I. **Kılıfsız Optik Fiberlerde Bağlı Direnç Değişimi, Gage Faktörü ve Poisson Oranı\2019'nın Basınç Bağlılıkları**
GÜNDAY A.
SELCUK UNIVERSITY JOURNAL OF ENGINEERING, SCIENCE AND TECHNOLOGY, vol.10, no.3, pp.613-622, 2022
(Peer-Reviewed Journal)
- II. **Analysis of variation of Brillouin and Rayleigh scattering coefficients with thermal strain in Landau-Placzek ratio based optical fiber distributed sensing for XLPE insulated power cables**
GÜNDAY A., KARLIK S. E., YILMAZ G.
International Review of Electrical Engineering, vol.8, no.2, pp.920-929, 2013 (Peer-Reviewed Journal)
- III. **Optik Fiberli Dağılık Algılama Yöntemiyle Enerji Kablosunda Sıcaklık ve Gerginliğin Algılanması**
Temperature and Strain Sensing by the Method of Optical Fiber Distributed Sensing in Power Cable
GÜNDAY A., YILMAZ G., KARLIK S. E.
Uludağ Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi (Uludağ University Journal of The Faculty of Engineering and Architecture), vol.12, no.2, pp.43-52, 2007 (Peer-Reviewed Journal)
- IV. **OPTİK FİBERLİ DAĞINIK ALGILAMA YÖNTEMİYLE ENERJİ KABLOSUNDA SICAKLIK VE GERGINLİĞİN ALGILANMASI**
Günday A., Yılmaz G., Karlık S. E.
Uludağ Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.12, no.2, pp.43-52, 2007 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **MATLAB Grafik Kullanıcı Arayüzü (GUI) Tabanlı Optik Fiber Dağılık Algılamalı Sistem Simülatörü**
GÜNDAY A.
in: Mühendislik Alanında Teori ve Araştırmalar II, Doç. Dr. Mihriban KALKANCI, Editor, Gece Publishing/ Gece Yayınevi, Ankara, pp.445-456, 2020
- II. **Silika Optik Fiberin Bağlı Direnç Değişiminin Brillouin Frekans Kayması ve Güç Değişimi Üzerindeki Etkileri**
GÜNDAY A.
in: Mühendislik Alanında Araştırma ve Değerlendirmeler – 2019 / Haziran, Mahmut Turhan, Editor, Gece Publishing /Gece Akademi, Ankara, pp.171-181, 2019
- III. **Electronics Workbench ve Devre Uygulamaları**
GÜNDAY A.
Ekin Yayınevi, Bursa, 2015

Refereed Congress / Symposium Publications in Proceedings

- I. **Phase BOTDR based Distributed Acoustic Sensing**
BİLGİN M., GÜNDAY A.
ELECO - 13th INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING, Bursa, Turkey, 25 November 2021
- II. **Effects of Photon-Shot and Excess Noises on Detectable Minimum Rotation Rate in I-FOG Design for Autonomous Vehicles**
KILINÇARSLAN K., SAĞ E., GÜNDAY A.
The International Conference on Advanced Engineering, Technology and Applications (ICAETA-2021), İstanbul, Turkey, 09 July 2021
- III. **Basınç Oluşumlarının Optik Fiberin Bulk Modülü ve Akustik Hız Değişimi Üzerindeki Etkisi**
Günday A.

Erasmus International Academic Research Symposium, İzmir, Turkey, 5 - 06 April 2019, pp.86-87

IV. Optical Fiber Distributed Sensing of Temperature, Thermal Strain and Thermo-Mechanical Force Formations on OPGW Cables under Wind Effects

Günday A., Karlık S. E.

8th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2013, pp.462-467

V. Landau Placzek Oranını Temel Alan Optik Fiberli Dağılık Algılamada Brillouin ve Rayleigh Saçılma Katsayılarının Gerginlikle Değişiminin Analizi

Günday A., Karlık S. E. , Yılmaz G.

ELECO 2012 Elektrik-Elektronik ve Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 29 November - 01 December 2012, pp.678-684

VI. Landau Placzek Oranını Temel Alan Optik Fiberli Dağılık Algılamada Brillouin ve Rayleigh Saçılma Katsayılarının Sıcaklıkla Değişiminin Analizi

Günday A., Karlık S. E. , Yılmaz G.

ELECO 2012 Elektrik-Elektronik ve Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 29 November - 01 December 2012, pp.372-378

VII. Spontaneous Raman Power and Brillouin Frequency Shift Method Based Distributed Temperature and Strain Detection in Power Cables

Günday A., Yılmaz G., Karlık S. E.

ELECO 2007 Fifth International Conference on Electrical and Electronics Engineering, Bursa, Turkey, 5 - 09 December 2007, pp.326-330

Activities in Scientific Journals

International Journal of Sensors and Sensor Networks, Publication Committee Member, 2022 - Continues

Memberships / Tasks in Scientific Organizations

Chamber of Electrical Engineering, Bursa Branch, Member, 2000 - Continues, Turkey

Scientific Refereeing

Journal Of Optoelectronics And Advanced Materials, SCI Journal, June 2017

Scientific Consultations

Electrical-Electronics and Biomedical Engineering Conference, Scientific Consultancy, Bursa Uludağ University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, Turkey, 2022 - Continues

Metrics

Publication: 19

Citation (WoS): 9

Citation (Scopus): 25

H-Index (WoS): 2

H-Index (Scopus): 3

Non Academic Experience

Business Establishment Private, VENES Electric and Cable Systems Ltd. Co., Plant Manager

Business Establishment Private, FICOSA Automotive Inc. Co. , Advanced Logistic

Business Establishment Private, ISIŞAH Industrial Resistance and Heat Equipment Inc. Co., Planning and Logistic

Business Establishment Private, Yazaki Automotive Inc. Co., Engineering

Business Establishment Private, Türk Pirelli Cabo and Systems Inc. Co. , Technical Purchasing