

## Prof. MURAT YÜCEL

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: F-6632-2011

ScopusID: 36451473900

Yoksis Researcher ID: 47768

### Education Information

Doctorate, Gazi University, Bilişim Enstitüsü, Elektronik Ve Bilgisayar Eğitimi Anabilim Dalı (Disiplinlerarası), Turkey 2003 - 2008

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Elektronik Bilgisayar Eğitimi (YI) (Tezli), Turkey 2000 - 2003

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Elektronik Ve Bilgisayar Eğitimi Bölümü, Turkey 1996 - 2000

### Dissertations

Doctorate, Kazancı düzleştirilmiş geniş bantlı fiber yükselteçlerin tasarımı, Gazi University, Bilişim Enstitüsü, Elektronik Ve Bilgisayar Eğitimi Anabilim Dalı (Disiplinlerarası), 2008

Postgraduate, Erbiyum katkılı fiber yükselteç analizi, Gazi University, Fen Bilimleri Enstitüsü, Elektronik Bilgisayar Eğitimi (YI) (Tezli), 2003

### Research Areas

Optical Communication, bioPhotonic, Electrical and Electronics Engineering, Sensing Devices and Transducers, Electronic Circuits, Optics and Photonics, Lasers and Masers, Optoelectronic Materials and Devices

### Academic Titles / Tasks

Professor, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2019 - Continues

Associate Professor, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2013 - 2019

Assistant Professor, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2012 - 2013

Research Assistant, Gazi University, Teknik Eğitim Fakültesi, Elektronik ve Bilgisayar Eğitimi, 2002 - 2009

## Academic and Administrative Experience

Gazi University, Teknoloji Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2019 - 2020

## Courses

Elektronik 2, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Elektronik Lab. 2, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

MEZUNİYET PROJESİ , Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Fiber Optik İletişim Teknikleri, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Fiber Optik İletişim Teknikleri, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Mühendislik Tasarım, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Fiber Optik İletişim Sistemleri, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Electronic 1, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

İşyeri Eğitimi, Undergraduate, 2022 - 2023

Elektronik Lab. 1, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

OPTİK YÜKSELTEÇLER VE TEMEL UYG. , Postgraduate, 2021 - 2022, 2020 - 2021

Fiber Optik Algılama Teknikleri, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Optik Haberleşme Sistemleri, Undergraduate, 2017 - 2018, 2016 - 2017

Haberleşme Sistemleri 2, Undergraduate, 2016 - 2017

Haberleşme Sistemleri 1, Undergraduate, 2016 - 2017

## Advising Theses

Yücel M., Fiber optik sistemlerde doğrusal olmayan raman saçılmasının ikili arama denklemleriyle adaptif yapay arı kolonisi algoritması ile optimizasyonu, Doctorate, V.YOLCU(Student), 2023

Yücel M., Fiber optik uygulamaları için gerçek zamanlı izleme yazılımı, tasarımı ve geliştirilmesi, Doctorate, Z.ASLAN(Student), 2023

Yücel M., Power amplifier design for RF energy harvesting circuits, Postgraduate, O.ERTAŞ(Student), 2022

Yücel M., MONITORING AND OPTIMIZATION OF VENDOR AGNOSTIC PRE-ACTIVE ALARMS FOR WDM NETWORKS, Doctorate, M.Serdar(Student), 2022

Yücel M., IMPROVING NOISE FACTOR IN RING TYPE ERBIUM DOPED FIBER LASERS, Postgraduate, B.ÜNALAN(Student), 2022

YÜCEL M., Design And Simulation Of The Tilted Fiber Bragg Sensor Capable Of Simultaneously Detecting Temperature And Strain, Postgraduate, S.ECE(Student), 2020

YÜCEL M., Software Based Gain Control In Erbium-Doped Fiber Amplifier, Postgraduate, Ö.AKÇEŞME(Student), 2020

YÜCEL M., Analysing Of Characteristics Of Praseodymium Doped Fiber Amplifier, Postgraduate, H.CİHANGİR(Student), 2019

YÜCEL M., Tulyum katkılı fiber yükseltecin karakteristiğinin incelenmesi, Postgraduate, A.DİNCER(Student), 2019

YÜCEL M., Fiber Optical Sensor Design For Railway Safety, Doctorate, N.FERHAT(Student), 2018

YÜCEL M., Passive Edge Filter Design Using Erbium-Doped Fiber, Postgraduate, O.KOYUNCU(Student), 2018

YÜCEL M., Design And Implementation Of Brillouin Scattering Based Fiber Optic Sensor, Doctorate, M.YÜCEL(Student), 2018

YÜCEL M., Analysis of the dispersion compensation techniques for long distance fiber optic communication systems, Postgraduate, H.GEÇE(Student), 2017

YÜCEL M., The Analysis And Interpretation Of The Scattering In The Fiber Optic Cable, Postgraduate, S.Boydak(Student), 2016

YÜCEL M., Characterization And Comparison Of Different Erbium Doped Fiber Amplifiers Types, Postgraduate, Y.ABBAS(Student), 2016  
YÜCEL M., Fiber optik kabloda meydana gelen saçılmaların analizi ve anlamlandırılması, Postgraduate, S.BOYDAK(Student), 2016  
Yücel M., The Transmission Of Radio Frequency Signals Over Optical Fiber Cable, Postgraduate, N.YILDIZ(Student), 2016  
YÜCEL M., The optical gain control of the erbium doped fiber amplifiers, Postgraduate, G.YENİLMEZ(Student), 2014  
YÜCEL M., Reduction of the noise figure at the double-pass erbium doped fiber amplifiers, Postgraduate, Z.ASLAN(Student), 2013  
YÜCEL M., The optimization with genetic algorithm of temperature dependence length of L band EDFA, Postgraduate, D.ADNAN(Student), 2011  
YÜCEL M., The optimization with genetic algorithm of temperature dependence length of L band EDFA, Postgraduate, D.Adnan(Student), 2011

## **Published journal articles indexed by SCI, SSCI, and AHCI**

- I. **Optimization of gain flattened fiber Raman amplifier model with binary search equation based adaptive artificial bee colony (BSEAABC) algorithm**  
Yolcu V., Yücel M., Aydın D.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.39, no.1, pp.29-38, 2024 (SCI-Expanded)
- II. **Remote accessible/fully controllable fiber optic systems laboratory design and implementation**  
Aslan Akyol Z., YÜCEL M.  
Computer Applications in Engineering Education, vol.32, no.1, 2024 (SCI-Expanded)
- III. **Two novel tunable ring cavity EDFL designs with pre coupler and NALM for improving OSNR**  
Unalan B., Yücel M.  
OPTICAL AND QUANTUM ELECTRONICS, vol.55, no.1185, pp.1-20, 2023 (SCI-Expanded)
- IV. **The effect of pump wavelength, power and direction on gain and noise figure in double-pass/stage TDFAs**  
YÜCEL M., Dincer A.  
Optoelectronics and Advanced Materials, Rapid Communications, vol.17, no.7-8, pp.301-310, 2023 (SCI-Expanded)
- V. **Optical Communication Infrastructure in New Generation Mobile Networks**  
Yücel M., Açikgöz M.  
FIBER AND INTEGRATED OPTICS, vol.42, no.2, pp.53-92, 2023 (SCI-Expanded)
- VI. **Solution of fiber Raman amplifier model using binary search equation-based adaptive artificial bee colony algorithm**  
Yolcu V., YÜCEL M., Aydın D.  
Optical Engineering, vol.62, no.2, 2023 (SCI-Expanded)
- VII. **The gain and noise figure comparison of single-pass, double-pass, and dual-stage triple-pass thulium-doped fiber amplifiers in S-band with thulium-doped fiber optimization**  
YÜCEL M., Dincer A.  
Microwave and Optical Technology Letters, vol.64, no.10, pp.1863-1870, 2022 (SCI-Expanded)
- VIII. **An efficient wide flatness gain bandwidth with parallel hybrid fiber amplifier**  
GÜRKAYNAK İ. A., Al-Mashhadani T. F., Al-Mashhadani M. K. S., Ali M. H., GÜNDÜZ A. E., YÜCEL M., Goktas H. H., Zidan K. A.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.64, no.2, pp.251-258, 2022 (SCI-Expanded)
- IX. **The measurement of strain of a prototype pulley system using a Brillouin optical time domain analysis**  
YÜCEL M., Yuce M.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.64, no.1, pp.190-198, 2022 (SCI-Expanded)
- X. **Three-stage six-pass EDFA preamplifier design and EDFA parameters' optimization**

Yigit E., YÜCEL M.

OPTICAL AND QUANTUM ELECTRONICS, vol.54, no.1, 2022 (SCI-Expanded)

- XI. **The design and implementation of a software based gain control for EDFAs used in long-haul optical networks**  
AKÇEŞME Ö., YÜCEL M., BURUNKAYA M.  
Optik, vol.239, 2021 (SCI-Expanded)
- XII. **Widely flatness gain bandwidth with double pass parallel hybrid fiber amplifier**  
GÜRKAYNAK İ. A., Al-Mashhadani M. K. S., Ali M. H., Al-Mashhadani T. F., GÜNDÜZ A. E., YÜCEL M., Goktas H. H.  
OPTICAL AND QUANTUM ELECTRONICS, vol.53, no.7, 2021 (SCI-Expanded)
- XIII. **Tilted fiber Bragg grating design for a simultaneous measurement of temperature and strain**  
Kipriksiz S. E., YÜCEL M.  
OPTICAL AND QUANTUM ELECTRONICS, vol.53, no.1, 2021 (SCI-Expanded)
- XIV. **Measurement and Control of an Incubator Temperature by Using Conventional Methods and Fiber Bragg Grating (FBG) Based Temperature Sensors**  
Burunkaya M., Yücel M.  
JOURNAL OF MEDICAL SYSTEMS, vol.44, 2020 (SCI-Expanded)
- XV. **Widely triple Brillouin frequency shift multiwavelength Brillouin erbium fiber laser**  
Al-Mashhadani T. F., Al-Mashhadani M. K. S., Goktas H. H., YÜCEL M., Celebi F. V.  
OPTICAL AND QUANTUM ELECTRONICS, vol.52, no.4, 2020 (SCI-Expanded)
- XVI. **Classification of the temperature -dependent gain of an erbium-doped fiber amplifier by using data mining methods**  
Yücel M., Aslan Z., Burunkaya M.  
OPTIK, vol.208, 2020 (SCI-Expanded)
- XVII. **Design and implementation of a passive edge filter with high bandwidth and slope**  
YÜCEL M., Koyuncu O.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.61, no.11, pp.2572-2578, 2019 (SCI-Expanded)
- XVIII. **Determination of the temperature independent quiescent regions for different types of erbium-doped fibers**  
Yücel M., Ozoglu Y. A., Gunduz A. E., Goktas H. H., Burunkaya M.  
OPTIK, vol.183, pp.619-628, 2019 (SCI-Expanded)
- XIX. **Influence of bidirectional cavity structure on the Brillouin Stokes signal characteristics in ring BFL**  
Al-Mashhadani T. F., Al-Mashhadani M. K. S., YÜCEL M., Goktas H. H.  
OPTIK, vol.185, pp.359-363, 2019 (SCI-Expanded)
- XX. **Simplified fiber Bragg grating-based temperature measurement system design with enhanced high signal-to-noise ratio**  
YÜCEL M., Torun M.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.60, no.4, pp.965-969, 2018 (SCI-Expanded)
- XXI. **Real-time monitoring of railroad track tension using a fiber Bragg grating-based strain sensor**  
YÜCEL M., Ozturk N. F.  
INSTRUMENTATION SCIENCE & TECHNOLOGY, vol.46, no.5, pp.519-533, 2018 (SCI-Expanded)
- XXII. **Design and application of a fiber Bragg grating array based temperature measurement system**  
YÜCEL M., Ozturk N. F., Torun M., YÜCEL M.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.32, no.3, pp.957-964, 2017 (SCI-Expanded)
- XXIII. **Adaptive Neuro-Fuzzy Based Gain Controller for Erbium-Doped Fiber Amplifiers**  
YÜCEL M., ÇELEBİ F. V., Torun M., GÖKTAŞ H. H.  
ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, vol.17, no.1, pp.15-20, 2017 (SCI-Expanded)
- XXIV. **Experimental analysis of the temperature dependence of the Brillouin gain spectrum in short-length single-mode fiber**  
YÜCEL M., Goktas H. H., YÜCEL M., Ozturk N. F., Gunduz A. E.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.25, no.5, pp.3881-3891, 2017

- (SCI-Expanded)
- XXV. **Effect of burnishing parameters on surface roughness and hardness**  
BAŞAK H., YÜCEL M.  
MATERIALS TESTING, vol.59, no.1, pp.57-63, 2017 (SCI-Expanded)
- XXVI. **Optimization with genetic algorithm of temperature-dependent fiber length of L-band EDFA gain**  
YÜCEL M., Adnan Mustafa Mustafa D.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.3, pp.1034-1043, 2016 (SCI-Expanded)
- XXVII. **The comparison of the gain flattening techniques EDFA configurations in the C/L band**  
YÜCEL M., Yenilmez G.  
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.17, pp.1450-1457, 2015 (SCI-Expanded)
- XXVIII. **Design and implementation of fuzzy logic based automatic gain controller for EDFAs**  
YÜCEL M., GÖKTAŞ H. H., Celebi F. V.  
OPTIK, vol.125, no.18, pp.5450-5453, 2014 (SCI-Expanded)
- XXIX. **The noise figure and gain improvement of double-pass C-band EDFA**  
YÜCEL M., Aslan Z.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.55, no.11, pp.2525-2528, 2013 (SCI-Expanded)
- XXX. **Intelligent modelling of alpha (alpha) parameter; comparison of ANN and ANFIS cases**  
Celebi F. V., YÜCEL M., Goktas H. H., Danisman K.  
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.7, pp.470-474, 2013 (SCI-Expanded)
- XXXI. **Simple and efficient ANN model proposed for the temperature dependence of EDFA gain based on experimental results**  
YÜCEL M., Celebi F. V., GÖKTAŞ H. H.  
OPTICS AND LASER TECHNOLOGY, vol.45, pp.488-494, 2013 (SCI-Expanded)
- XXXII. **EXAMINATION OF TEMPERATURE DEPENDENCE OF DOUBLE PASS L BAND ERBIUM DOPED FIBER AMPLIFIER**  
YÜCEL M., GÖKTAŞ H. H.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.27, no.2, pp.237-243, 2012 (SCI-Expanded)
- XXXIII. **Fuzzy logic based device to implement a single CAD model for a laser diode based on characteristic quantities**  
Celebi F. V., YÜCEL M., GÖKTAŞ H. H.  
OPTIK, vol.123, no.6, pp.471-474, 2012 (SCI-Expanded)
- XXXIV. **FUZZY LOGIC-BASED AUTOMATIC GAIN CONTROLLER FOR EDFA**  
YÜCEL M.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.53, no.11, pp.2703-2705, 2011 (SCI-Expanded)
- XXXV. **Temperature independent length optimization of L-band EDFAs providing flat gain**  
YÜCEL M., Goktas H. H., Celebi F. V.  
OPTIK, vol.122, no.10, pp.872-876, 2011 (SCI-Expanded)
- XXXVI. **TEMPERATURE DEPENDENCE OF NOISE FIGURE IN THE ERBIUM DOPED FIBER AMPLIFIER**  
YÜCEL M., Goktas H. H., Ozkaraca O.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.25, no.3, pp.635-641, 2010 (SCI-Expanded)
- XXXVII. **A fuzzy logic based device for the determination of temperature dependence of EDFAs**  
Goktas H. H., YÜCEL M.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.50, no.9, pp.2331-2334, 2008 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Machine learning algorithm estimation and comparison of live network values of the inputs which have the most effect on the FEC parameter in DWDM systems**  
YÜCEL M., Osmanca M. S., Mercimek I. F.  
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.27, pp.133-138, 2024 (ESCI)
- II. **Optik Spektrum Analizörü Kontrolü ve Ölçüm Doğruluğunun Artırılması**  
Yücel M., Aslan Z.  
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.11, no.3, pp.1318-1326, 2023 (Peer-Reviewed Journal)
- III. **Düzgün Olmayan Yapılarda Fiber Bragg Izgara Sensör Tasarımı ve Uygulaması**  
Kipriksiz S. E., YÜCEL M.  
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.24, no.3, pp.843-851, 2021 (ESCI)
- IV. **Determination of Central Wavelength in FBG Sensing Systems by Gaussian Fitting Technique**  
YÜCEL M., Ozturk N. F.  
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.24, no.1, pp.63-68, 2021 (ESCI)
- V. **FBG Algılama Sistemlerinde Gaussian Uyarlama Yöntemi ile Merkez Dalgaboyunun Belirlenmesi**  
YÜCEL M., nail ferhat ö.  
Politeknik Dergisi, vol.24, pp.63-68, 2021 (ESCI)
- VI. **Tek ve İki Aşamalı Tulyum Katkılı Fiber Yükselteçlerin S- Bandındaki Kazanç ve Gürültü Analizi**  
Yücel M., Ayten D.  
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.8, no.3, pp.2062-2072, 2020 (Peer-Reviewed Journal)
- VII. **İki Aşamalı Üç Geçişli EKFY Tasarımı ve EKFY Parametrelerinin Optimizasyonu**  
YÜCEL M., YİĞİT E.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.8, no.2, pp.335-344, 2020 (Peer-Reviewed Journal)
- VIII. **DALGA BOYU BÖLMELİ OPTİK SİSTEMLERDE DOĞRUSAL OLMAYAN İLETİM BOZULMALARININ YAPAY ARI KOLONİSİ ALGORİTMASI İLE OPTİMİZASYONU**  
YOLCU V., YÜCEL M., AYDIN D., HIÇDURMAZ B.  
International Marmara Sciences Congress, pp.535-536, 2019 (Peer-Reviewed Journal)
- IX. **The Analysis of Raman Scattering in the Fiber Optic Cable**  
Boydak S., YÜCEL M.  
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.20, no.2, pp.257-265, 2017 (ESCI)
- X. **Fiber Optik Kabloda Meydana Gelen Raman Saçılmasının Analizi**  
Bodak S., YÜCEL M.  
Politeknik Dergisi, 2017 (Peer-Reviewed Journal)
- XI. **FTTH Ağlarda Performans Analizi**  
Hocaoğlu S., YÜCEL M.  
Bilişim Teknolojileri Dergisi, vol.10, no.1, pp.79-88, 2017 (Peer-Reviewed Journal)
- XII. **The effects of signal level of the microwave generator on the Brillouin gain spectrum in BOTDA and BOTDR**  
YÜCEL M., yücel m., öztürk n. f., GÖKTAŞ H. H., gemci c., ÇELEBİ F. V.  
WASET Int. J. of Electrical, Computer, Energetic, Electronic and Comm. Eng., vol.10, no.1, pp.23-27, 2016 (Peer-Reviewed Journal)
- XIII. **The Examination of the Performance Factors on NG-DWDM Systems with Roadm Structure**  
Ozduman Y., YÜCEL M.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.29, no.1, pp.1-8, 2016 (ESCI)
- XIV. **Haddeleme işleminin silindirik parçalarda uygulaması deney sonuçlarının yapay sinir ağları ile modellenmesi**  
BAŞAK H., YÜCEL M.  
DUMF Mühendislik Dergisi, vol.6, no.2, pp.111-120, 2015 (Peer-Reviewed Journal)
- XV. **Kazancı Düzleştirilmiş Çok Geniş Bantlı Hibrid Optik Yükselteç Tasarımı**  
YÜCEL M., GÖKTAŞ H. H.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZIUNIVERSITY, vol.22, no.4, pp.863-868,

## Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of Noise Factor Characteristics of Praseodymium Doped Fiber Amplifier**  
CİHANGİR H., YÜCEL M.  
EGE 9th INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, İzmir, Turkey, 22 - 24 September 2023
- II. **Comparison of the Performances of Bidirectional and Double-Pass Praseodymium Doped Fiber Amplifier Systems for Determined Optimum Parameters**  
CİHANGİR H., YÜCEL M.  
EGE 9th INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, İzmir, Turkey, 22 - 24 September 2023
- III. **A NOVEL COLLABORATIVE FILTERING-BASED RECOMMENDATION SYSTEM USING TWO-LEVEL SVD AND MATRIX COMPLETION**  
Mohammed M. J., YÜCEL M., HORASAN F.  
EGE 9th INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, İzmir, Turkey, 22 September 2023
- IV. **RoFSO COMMUNICATION SYSTEM AND PERFORMANCE ANALYSIS**  
Açıkgöz M., YÜCEL M.  
EGE 9th INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, İzmir, Turkey, 22 - 24 September 2023
- V. **Generation and Spectrum Analysis of C Band ASE Using Erbium-Doped Fibers with Different Properties**  
Akçeşme Ö., Yücel M.  
2023 10th International Conference on Electrical and Electronics Engineering, İstanbul, Turkey, 8 May - 10 October 2023
- VI. **EFFECT OF TDF LENGTHS ON GAIN AND NOISE FIGURE OF TRIPLE-PASS TDFA**  
Ayten D., YÜCEL M.  
7th International Conference on Innovative Studies of Contemporary Sciences April 21-23, 2023 / Tokyo, Japan, Tokyo, Japan, 21 April 2023
- VII. **A STUDY ON THE RAMAN AMPLIFIER MODEL- ABC ALGORITHM**  
YOLCU V., YÜCEL M., AYDIN D.  
5. ULUSLARARASI PALANDÖKEN BİLİMSEL ÇALIŞMALAR KONGRESİ, Van, Turkey, 18 March 2023
- VIII. **INVESTIGATION OF NEW GENERATION OPTICAL COMMUNICATIONS INFRASTRUCTURE**  
Açıkgöz M., YÜCEL M.  
EURO ASIA 10th. INTERNATIONAL CONGRESS ON APPLIED SCIENCES, Ankara, Turkey, 19 August 2022
- IX. **THE EFFECT OF THE SPLITTING RATIO OF THE COUPLER ON GAIN AND NOISE IN NEW DESIGN RING TYPE ERBIUM DOPED FIBER LASERS**  
ÜNALAN B., YÜCEL M.  
INTERNATIONAL ASIAN CONGRESS ON CONTEMPORARY SCIENCES-VI, Van, Turkey, 27 May 2022
- X. **THE EFFECT OF THE SPLITTING RATIO OF THE COUPLER ON GAIN AND NOISE IN NEW DESIGN RING TYPE ERBIUM DOPED FIBER LASERS**  
ÜNALAN B., YÜCEL M.  
INTERNATIONAL ASIAN CONGRESS ON CONTEMPORARY SCIENCES-VI, Van, Turkey, 27 May 2022
- XI. **ELECTRONIC VOTING APPLICATION WITH BLOCK CHAIN TECHNOLOGY**  
Türker S., YÜCEL M.  
2. INTERNATIONAL CAPPADOCIA SCIENTIFIC RESEARCH CONGRESS, Nevşehir, Turkey, 19 April 2022
- XII. **Circular Patch antenna operating 5.8 GHz for Energy Harvesting Systems**  
Ertaş O., YÜCEL M.  
10. European Conference on Renewable Energy Systems (ECRES 2022), İstanbul, Turkey, 09 May 2022
- XIII. **GEOGRAPHIC INFORMATION SYSTEM APPLICATIONS AND DEVELOPMENTS IN ELECTRICITY DISTRIBUTION NETWORKS**  
Karakaya Y. Y., YÜCEL M.

2. BASKENT International Conference on Multidisciplinary Studies, Ankara, Turkey, 24 February 2022
- XIV. **DIGITAL ASSISTANT DESIGN FOR INFORMATION TECHNOLOGIES SERVICE MANAGEMENT**  
Ülgen E., Yücel M.  
V-INTERNATIONAL EUROPEAN CONFERENCE ON INTERDISCIPLINARY SCIENTIFIC RESEARCH, Barcelona, Spain,  
28 January 2022
- XV. **AI-ASSISTED COMPARISON OF LIVE NETWORK MEASUREMENTS AND PERFORMANCE METRICS IN DWDM SYSTEMS**  
Osmanaca M. S., YÜCEL M.  
Latin American Conference on Natural and Applied Sciences, Mexico, 05 November 2021
- XVI. **VISIBLE LIGHT COMMUNICATIONS (VLC) AND APPLICATIONS**  
Açıkgöz M., YÜCEL M.  
Congress on Scientific Researches and Recent Trends-8, Philippines, 02 August 2021
- XVII. **5G AND BEYOND MOBILE COMMUNICATION TECHNOLOGIES**  
Açıkgöz M., YÜCEL M.  
EUROASIA SUMMIT Congress on Scientific Researches and Recent Trends-8, Philippines, 02 August 2021
- XVIII. **MATLAB Design Platforms and A Sample Application: Control Of Tunable Laser Source**  
ASLAN AKYOL Z., YÜCEL M.  
International Asian Congress on Contemporary Sciences-V, Azerbaijan, 01 June 2021
- XIX. **RF Energy Harvesting Design for Active Sensors**  
Ertaş O., YÜCEL M.  
International Asian Congress on Contemporary Sciences-V, Azerbaijan, 01 June 2021
- XX. **Efficiency Increasing Approaches and Priority Identification System Implementation in ITIL-Based Service Desk Systems**  
Sancaroglu M. S., YÜCEL M.  
International Asian Congress on Contemporary Sciences-V, Azerbaijan, 01 June 2021
- XXI. **Repeater Center Selection Algorithm for APC025**  
Bilgiç B., YÜCEL M.  
International Asian Congress on Contemporary Sciences-V, Azerbaijan, 01 June 2021
- XXII. **Broadly Flatness Gain Band with Double Pass-Serial Hybrid Optical Amplifier Utilizing Single Pump Unit**  
GÜRKAYNAK İ. A., AL MASHHADANI T. F., YÜCEL M., GÖKTAŞ H. H.  
8th International Conference on Electrical and Electronics Engineering, ICEEE 2021, 09 April 2021
- XXIII. **COMPARISON OF RZ AND NRZ MODULATION FORMATS IN WDM OPTICNETWORKS FOR 40 Gb/s SYSTEMS**  
Ayşe Seda İ., YÜCEL M.  
EUROASIA CONGRESS ON SCIENTIFIC RESEARCHES AND RECENT TRENDS-VII, Baku, Azerbaijan, 6 - 09 December 2020
- XXIV. **Connector Position Detection Simulation Using OTDR Analysis**  
GÜNDÜZ A. E., GÖKTAŞ H. H., YÜCEL M.  
International Marmara Sciences Congress (IMASCON-Spring 2020), 19 - 20 June 2020
- XXV. **Praseodimyum Katkılı Fiber Yükselteçlerde Pompa Lazer Güç ve Giriş Sinyali Güç Analizi**  
Hasan C., YÜCEL M.  
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- XXVI. **S-Band Tulyum Katkılı Fiber Yükseltecin Kazanç ve Gürültü Spektrumlarının İncelenmesi**  
Ayten D., YÜCEL M.  
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- XXVII. **Effect of Pump Power and Fiber Length on Amplifier Gain in Ytterbium Doped Fiber Optic Amplifiers**  
YÜCEL M.  
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- XXVIII. **Dalga Boyu Bölümlmeli Optik Sistemlerde Doğrusal Olmayan İletim Bozulmalarının Gelişmiş Yapay Arı Kolonisi Algoritması ile Optimizasyonu**



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- XXIX. **LAZER DİYOTLAR İÇİN DÜŞÜK MALİYETLİ AKIM KONTROL DEVRESİ VETERMOELEKTRİK SOĞUTUCU KONTROL DEVRESİ TASARIMI**  
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- XXX. **ERBİYUM KATKILI FİBER YÜKSELTEÇLERDE DÜZ KAZANÇ SPEKTRUMU İÇİN ERBİYUM KATKILI FİBER BOYUNUN OPTİMİZASYONU**  
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- XXXI. **Tulyum Katkılı Fiber Yükselteçlerde Pompalama Yönü, Fiber Uzunluğu ve İyon Yoğunluğunun Kazanç ve Gürültüye Etkisi**  
YÜCEL M., Ayten D.  
International Black Sea Coastline Countries Symposium, 2 - 05 May 2019
- XXXII. **Farklı Pompalama Yönleri için Giriş Sinyal Gücünün Tulyum Katkılı Fiber Yükselteç Kazancına Etkisi ve Küçük Sinyal Kazancı Analizi**  
YÜCEL M., Ayten D.  
International Black Sea Coastline Countries Symposium, 2 - 05 May 2019
- XXXIII. **LAZER DİYOTLAR İÇİN DÜŞÜK MALİYETLİ AKIM KONTROL DEVRESİ VE TERMOELEKTRİK SOĞUTUCU KONTROL DEVRESİ TASARIMI**  
Özcan A., YÜCEL M.  
Uluslararası Marmara Fen ve Sosyal Bilimler Kongresi (Bahar) 2019, 26 - 28 April 2019
- XXXIV. **BULUT TEKNOLOJISİNDE VERİ MADENCİLİĞİ UYGULAMASI**  
Burak K., YÜCEL M.  
Uluslararası Marmara Fen ve Sosyal Bilimler Kongresi (Bahar) 2019, 26 - 28 April 2019
- XXXV. **THE EFFECT OF FIBER LENGTH AND ION DENSITY ON OUTPUT GAIN AND NOISE FIGURE IN PRASEODYMIUM DOPED FIBER AMPLIFIERS**  
Hasan C., YÜCEL M.  
Uluslararası Marmara Fen ve Sosyal Bilimler Kongresi (Bahar) 2019, 26 - 28 April 2019
- XXXVI. **ERBİYUM KATKILI FIBER YÜKSELTEÇLERDE DÜZ KAZANÇ SPEKTRUMU İÇİN ERBİYUM KATKILI FIBER BOYUNUN OPTİMİZASYONU**  
Özcan A., YÜCEL M.  
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- XXXVII. **IMPLEMENTATION AND DESIGN OF FIBER BRAGG GRATING BASED RAIL STRAIN MEASUREMENT SYSTEM**  
YÜCEL M., Ozturk N. F., YÜCEL M., Goktas H. H.  
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XXXVIII. **Design Of a Multiple Fiber Bragg Sensor Define of Temperature Parameters of the Fiber Bragg Gratings**  
YÜCEL M., Ozturk N. F., YÜCEL M., Goktas H. H.  
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XXXIX. **Analysis of Dispersion Compensation Techniques for Very Long Distance Fiber Optic Communication Systems**  
YÜCEL M., Geçe H.  
8th International Advanced Technologies Symposium (IATS'17), 19 - 22 October 2017
- XL. **Effect of EDFA Power on Brillouin Power Spectrum**  
YÜCEL M., YÜCEL M., GÜNDÜZ A. E., Ozturk N. F., Torun M., GÖKTAŞ H. H.  
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- XLI. Brillouin Scattering Based Fiber Optic Strain Sensor**  
YÜCEL M., Torun M., GÖKTAŞ H. H., Ozturk N. F.  
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- XLII. The Comparison of for Different Erbium Doped Fibers and Erbium Doped Fiber Amplifier Configurations**  
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4th International Conference on Electrical and Electronic Engineering (ICEEE), Ankara, Turkey, 8 - 10 April 2017, pp.272-275
- XLIII. Improvement of Signal to Noise Ratio in Fiber Bragg Grating Based Sensor Systems**  
YÜCEL M., Torun M., BURUNKAYA M.  
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XLIV. Passive Edge Filter Design Using Erbium-Doped Fiber**  
YÜCEL M., Koyuncu O.  
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XLV. Performance Measurement and Analysis in WDM Networks Effects on OSNR**  
YÜCEL M., Osmanca M. S., Alparslan H.  
4th International Conference on Electrical and Electronic Engineering (ICEEE), Ankara, Turkey, 8 - 10 April 2017, pp.276-280
- XLVI. The Effects of Signal Level of the Microwave Generator on the Brillouin Gain Spectrum in BOTDA and BOTDR**  
YÜCEL M., Yücel M., Nail Ferhat Ö., GÖKTAŞ H. H., Cemal G., ÇELEBİ F. V.  
18th International Conference on Optical Fiber Sensors, 7 - 08 January 2016
- XLVII. Using single-mode fiber as temperature sensor**  
YÜCEL M., YÜCEL M., GÜNDÜZ A. E., GÖKTAŞ H. H., Ozturk N. F.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.461-464
- XLVIII. Design of a Fiber Bragg Grating based temperature sensor**  
YÜCEL M., Ozturk N. F., YÜCEL M., GÖKTAŞ H. H., GÜNDÜZ A. E.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.669-672
- XLIX. Design of a Fiber Bragg Grating Multiple Temperature Sensor**  
YÜCEL M., Ozturk N. F., Gemci C.  
6th International Conference on Digital Information and Communication Technology and its Applications (DICTAP), Konya, Turkey, 21 - 23 July 2016, pp.6-11
- L. The Effect of Pump Laser Wavelength Change on The Temperature Dependence of EDFA**  
YÜCEL M., GÖKTAŞ H. H., ÇELEBİ F. V.  
Signal Processing and Communications Applications, Turkey, 20 - 22 April 2011
- LI. Dönel Parçalarda Bilyeli Haddeleme İşlemi Uygulaması Deney Sonuçlarının Bulanık Mantık İle Modellenmesi**  
BAŞAK H., YÜCEL M.  
2. Uluslar Arası Demir Çelik Sempozyumu (IISS'15), Karabük, Turkey, 1 - 03 April 2015, pp.768-772
- LII. DÖNEL PARÇALARDA BİLYELİ HADDELEME İŞLEMİ UYGULAMASI DENEY SONUÇLARININ BULANIK MANTIK İLE MODELLENMESİ**  
BAŞAK H., YÜCEL M.  
2nd International Iron and Steel Symposium, Karabük, Turkey, 1 - 03 April 2015, pp.768-772
- LIII. The analyzes of the Brillouin scattering for the different fiber types**  
YÜCEL M., Ozturk N. F., GÖKTAŞ H. H.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.632-635
- LIV. THE FIBER OPTICAL SENSING BASED ON BRILLOUIN SCATTERING**  
YÜCEL M., Goktas H. H., YÜCEL M., Ozturk N. F.

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**LV. Gain and Noise Figure Enhancements of both C and L Bands Double Pass Erbium Doped Fiber Amplifier**

YÜCEL M., Aslan Z., Celebi F. V., Goktas H. H.

8th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2013, pp.599-603

**LVI. Tip I Ve Tip II Kuantum kaskat Lazerlerdeki Optik Kazançların Uyarlamalı Sinirsel Bulanık Denetim Sistemi Kullanılarak Modellenmesi**

ÇELEBİ F. V., YÜCEL M., YİĞİT S.

Signal Processing and Communications Applications, Turkey, 18 - 20 April 2012

**LVII. C BAND ERBIUM DOPED FIBER AMPLIFIER AS A FLAT GAIN OPTICAL AMPLIFIER**

YÜCEL M., Goektas H. H.

IEEE 16th Signal Processing and Communications Applications Conference, Aydın, Turkey, 20 - 22 April 2008, pp.808-810

**LVIII. Gain flattening configurations at the L band Erbium doped fiber amplifiers**

YÜCEL M., Goektas H. H.

IEEE 15th Signal Processing and Communications Applications Conference, Eskişehir, Turkey, 11 - 13 June 2007, pp.165-168

## Supported Projects

Yücel M., TUBITAK Project, Yüksek Güçlü Lazerler İçin Akım ve Sıcaklık Sürücüsü Tasarımı ve Gerçekleştirilmesi, 2019 - 2021

Yücel M., Göktaş H. H., Al-Mashhadani T. F. A., TUBITAK Project, S,C,L Geniş Bantlı Seri-Paralel Hibrit Fiber Optik Yükselteç, 2019 - 2021

YÜCEL M., Project Supported by Higher Education Institutions, İterbiyum Katkılı Fiber Optik Yükselteçlerde Pompa Gücü ve Fiber Boyunun Yükselteç Kazancına Etkisi, 2019 - 2020

Yücel M., TUBITAK Project, Kompakt Erbiyum Katkılı Fiber Optik Yükselteç Tasarımı ve Geliştirilmesi, 2017 - 2019

YÜCEL M., Project Supported by Higher Education Institutions, Brillouin Saçılması Tabanlı Fiber Optik Algılama Sistemi, 2017 - 2018

YÜCEL M., Project Supported by Higher Education Institutions, Fiber Bragg Izgara Tabanlı Hassas Sıcaklık Ölçüm Sistemi, 2017 - 2018

YÜCEL M., Project Supported by Higher Education Institutions, Brillouin Saçılması Tabanlı Fiber Optik Algılama Sistemi, 2017 - 2018

Yücel M., TUBITAK Project, DESIGN AND IMPLEMENTATION OF SENSOR BASED FIBER BRAGG GRATING , 2016 - 2017

YÜCEL M., TUBITAK Project, Fiber Optik Algılama Sistemi Tasarımı ve Geliştirilmesi, 2014 - 2016

YÜCEL M., Project Supported by Higher Education Institutions, Çift geçişli L Band Erbiyum Katkılı Fiber Yükselteç Karakterizasyonu, 2013 - 2016

Yücel M., KOSGEB, Yeni nesil haberleşme sistemleri için optik yükselteç tasarımı, 2014 - 2015

YÜCEL M., Project Supported by Higher Education Institutions, Optik Haberleşme Sistemlerindeki Karakteristik Parametrelerin Tasarımına Yönelik Hızlı bir Yaklaşım, 2013 - 2015

YÜCEL M., Project Supported by Higher Education Institutions, Çift geçişli erbiyum katkılı fiber yükselteçlerde gürültü faktörünün azaltılması, 2012 - 2013

Yücel M., Project Supported by Higher Education Institutions, Erbiyum Katkılı Fiber Yükselteç için Bulanık Mantık Tabanlı Otomatik Kazanç Denetleyicisi Tasarımı, 2011 - 2012

Yücel M., Project Supported by Higher Education Institutions, Erbiyum Katkılı Fiber Yükselteçlerde Sıcaklığa Bağlı Gürültü Faktörünün Deneysel Olarak İncelenmesi, 2009 - 2010

Yücel M., Göktaş H. H., TUBITAK Project, Erbiyum Katkılı Fiber Yükseltecin EDFA Sıcaklık Bağımlılığının Deneysel Olarak İncelenmesi, 2008 - 2009

Yücel M., Gökteş H. H., Project Supported by Higher Education Institutions, L Band EDFA Kazancı Arttırmak için Çeşitli Konfigürasyonların Analizi, 2008 - 2009

Yücel M., Gökteş H. H., Project Supported by Higher Education Institutions, C Band Erbiyum Katkılı Fiber Yükselteçlerin Band Genişliklerinin Deneysel Olarak İncelenmesi, 2007 - 2008

## Activities in Scientific Journals

JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, Editor, 2017 - 2023

## Scientific Refereeing

OPTICAL AND QUANTUM ELECTRONICS, SCI Journal, June 2022

MEASUREMENT, SCI Journal, June 2022

ICT EXPRESS, SCI Journal, May 2022

Results in Optics, Other Indexed Journal, May 2022

FIBER AND INTEGRATED OPTICS, SCI Journal, April 2022

INSTRUMENTATION SCIENCE & TECHNOLOGY, SCI Journal, April 2022

Konya Mühendislik Bilimleri Dergisi, Other Indexed Journal, April 2022

JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY, SCI Journal, March 2022

OPTİK, SCI Journal, March 2022

The 30th IEEE Conference on Signal Processing and Communications Applications, Conference Paper (Full Text), March 2022

BİLİŞİM TEKNOLOJİLERİ DERGİSİ, National Scientific Refreed Journal, January 2022

MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, SCI Journal, September 2021

JOURNAL OF LIGHTWAVE TECHNOLOGY, SCI Journal, August 2021

MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, SCI Journal, August 2021

MICROELECTRONIC ENGINEERING, SCI Journal, July 2021

ELECTRONICS LETTERS, SCI Journal, June 2021

MEASUREMENT, SCI Journal, June 2021

DÜZCE ÜNİVERSİTESİ BİLİM VE TEKNOLOJİ DERGİSİ, National Scientific Refreed Journal, April 2021

MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, SCI Journal, December 2020

MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, SCI Journal, November 2020

MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, SCI Journal, October 2020

FUEL, SCI Journal, October 2020

Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, September 2020

OPTICAL AND QUANTUM ELECTRONICS, SCI Journal, September 2020

ELECTRONICS LETTERS, SCI Journal, August 2020

GAZİ ÜNİVERSİTESİ FEN BİLİMLERİ DERGİSİ PART: C TASARIM VE TEKNOLOJİ, National Scientific Refreed Journal, July 2020

Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, National Scientific Refreed Journal, May 2020

ELECTRONICS LETTERS, SCI Journal, February 2020

OPTİK, SCI Journal, January 2019

OPTICS EXPRESS, SCI Journal, July 2018

OPTICS COMMUNICATIONS, SCI Journal, May 2018

OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, National Scientific Refreed Journal, June 2017

IEEE PHOTONICS TECHNOLOGY LETTERS, SCI Journal, June 2016

## **Metrics**

Publication: 112

Citation (WoS): 315

Citation (Scopus): 377

H-Index (WoS): 11

H-Index (Scopus): 12

## **Awards**

Yücel M., Üçüncülük Ödülü, 3. Bilim Şenliği Proje Pazarı, June 2016

Yücel M., Teşvik Ödülü, 2. Bilim Şenliği Proje Pazarı, June 2015

## **Non Academic Experience**

Milli Eğitim Bakanlığı