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Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, Türkiye 1990 - 1998

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, Türkiye 1987 - 1990

Lisans, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, Türkiye 1981 - 1987

Araştırma Alanları

Fizik, Disiplinlerarası Fizik ve İlgili Bilim ve Teknoloji Alanları, Elektronik ve manyetik cihazlar, mikroelektronik, Malzeme Bilimi, Genel Fizik, Metroloji, ölçüm ve laboratuvar teknikleri, Yoğun Madde 2: Elektronik Yapı, Elektrik, Manyetik ve Optik Özellikler, Manyetik özellikler ve malzemeler, Optik özellikler, Yoğun madde spektroskopisi, Temel Bilimler

Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 2013 - Devam Ediyor

Doç. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 2009 - 2013

Yrd. Doç. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 2004 - 2009

Yrd. Doç. Dr., Oklahoma State University, Physics, 2002 - 2004

Öğretim Görevlisi Dr., Technische Universitaet Darmstadt, Materials Science, Mawi, 2001 - 2002

Uzman, Riso National Laboratory, Radiation Research, 1999 - 2001

Uzman, GSF Forschungszentrum (Helmholtz Zentrum-München), Institute für Strahlenschutz, ISAR, 1996 - 1999

Araştırma Görevlisi, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 1988 - 1996

Verdiği Dersler

Modern Fizik, Lisans, 2019 - 2020

Analog Electronics, Lisans, 2019 - 2020

Araştırma Altyapısı Bilgileri

Bulur E., Iflazoğlu S., Thermally and Optically Stimulated Luminescence Laboratory (TOSL), Ocak 2005

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayımlanan Makaleler

- I. **Structural, photo, optical and thermal luminescent properties of beta barium metaborate**
Iflazoglu S., Yilmaz A., Bulur E.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.829, 2020 (SCI-Expanded)
- II. **Afterglow, TL and OSL properties of Mn²⁺-doped ZnGa₂O₄ phosphor**
Luchechko A., Zhydachevskyy Y., Ubizskii S., Kravets O., Popov A. I., Rogulis U., Elsts E., BULUR E., Suchocki A.
SCIENTIFIC REPORTS, cilt.9, 2019 (SCI-Expanded)
- III. **Optically stimulated luminescence characteristics of BeO nanoparticles synthesized by sol-gel method**
ALTUNAL V., YEĞİNGİL Z., TÜKEN T., Depci T., ÖZDEMİR A. C., Guckan V., Nur N., Kurt K., BULUR E.
RADIATION MEASUREMENTS, cilt.118, ss.54-66, 2018 (SCI-Expanded)
- IV. **TL and OSL properties of Mn²⁺-doped MgGa₂O₄ phosphor**
LUCHECHKO A., ZHYDACHEVSKYY Y., MARABA D., BULUR E., UBIZSKII S., KRAVETS O.
OPTICAL MATERIALS, cilt.78, ss.502-507, 2018 (SCI-Expanded)
- V. **Design and construction of an automated OSL reader with open source software and hardware**
MARABA D., BULUR E.
RADIATION MEASUREMENTS, cilt.106, ss.632-637, 2017 (SCI-Expanded)
- VI. **Photo-transferred thermoluminescence of shallow traps in beta-irradiated BeO ceramics**
Isik M., BULUR E., Gasanly N.
JOURNAL OF LUMINESCENCE, cilt.187, ss.290-294, 2017 (SCI-Expanded)
- VII. **Time-resolved OSL studies of YAlO₃:Mn²⁺ crystals**
Zhydachevskii Y., LUCHECHKO A., MARABA D., MARTYNYUK N., GLOWACKI M., BULUR E., UBIZSKII S., BERKOWSKI M., SUCHOCKI A.
RADIATION MEASUREMENTS, cilt.94, ss.18-22, 2016 (SCI-Expanded)
- VIII. **Plasma Generation in a Gas Discharge System With Irradiated Porous Zeolite**
Ozturk S., Ozner M., BULUR E., Salamov B. G.
IEEE TRANSACTIONS ON PLASMA SCIENCE, cilt.43, sa.6, ss.1839-1844, 2015 (SCI-Expanded)
- IX. **Low temperature thermoluminescence of quaternary thallium sulfide Tl₄InGa₃S₈**
DELÍCE S., Isik M., BULUR E., Gasanly N.
INDIAN JOURNAL OF PHYSICS, cilt.89, sa.6, ss.571-576, 2015 (SCI-Expanded)
- X. **Thermoluminescence in gallium sulfide crystals: an unusual heating rate dependence**
DELÍCE S., BULUR E., Gasanly N.
PHILOSOPHICAL MAGAZINE, cilt.95, sa.9, ss.998-1006, 2015 (SCI-Expanded)
- XI. **Anomalous heating rate dependence of thermoluminescence in Tl₂GaInS₄ single crystals**
DELÍCE S., BULUR E., Gasanly N.
JOURNAL OF MATERIALS SCIENCE, cilt.49, sa.24, ss.8294-8300, 2014 (SCI-Expanded)
- XII. **More on the TR-OSL signal from BeO ceramics**
Bulur E.
RADIATION MEASUREMENTS, cilt.66, ss.12-20, 2014 (SCI-Expanded)
- XIII. **Time-resolved OSL of natural zircon: A preliminary study**
BULUR E., KARTAL E., Sarac B. E.
RADIATION MEASUREMENTS, cilt.60, ss.46-52, 2014 (SCI-Expanded)
- XIV. **TL and TSC studies on TlGaSe₂ layered single crystals**
Isik M., BULUR E., Gasanly N.
JOURNAL OF LUMINESCENCE, cilt.144, ss.163-168, 2013 (SCI-Expanded)
- XV. **Time-resolved OSL studies on BeO ceramics**
BULUR E., Sarac B. E.

- RADIATION MEASUREMENTS, cilt.59, ss.129-138, 2013 (SCI-Expanded)
- XVI. **Thermoluminescence properties of $Tl_2Ga_2S_3Se$ layered single crystals**
DELÍCE S., Isik M., BULUR E., Gasanly N.
JOURNAL OF APPLIED PHYSICS, cilt.113, sa.19, 2013 (SCI-Expanded)
- XVII. **Low-temperature thermoluminescence in $TlGaS_2$ layered single crystals**
Isik M., BULUR E., Gasanly N.
JOURNAL OF LUMINESCENCE, cilt.135, ss.60-65, 2013 (SCI-Expanded)
- XVIII. **Low-temperature thermoluminescence in layered structured $Ga_{0.75}In_{0.25}Se$ single crystals**
Isik M., BULUR E., Gasanly N.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.545, ss.153-156, 2012 (SCI-Expanded)
- XIX. **Optically stimulated luminescence from BeO ceramics: An LM-OSL study**
BULUR E., YELTİK A.
RADIATION MEASUREMENTS, cilt.45, sa.1, ss.29-34, 2010 (SCI-Expanded)
- XX. **PRELIMINARY OSL STUDIES ON BEIGE SEPIOLITES**
Bulur E.
RADIATION PROTECTION DOSIMETRY, cilt.131, sa.3, ss.390-393, 2008 (SCI-Expanded)
- XXI. **Photo-transferred luminescence from BeO ceramics**
Bulur E.
RADIATION MEASUREMENTS, cilt.42, sa.3, ss.334-340, 2007 (SCI-Expanded)
- XXII. **Experimental determination of the dose deposition profile of a Sr-90 beta source**
GAZA R., Bulur E., McKeever S. W. S., Soares C. G.
RADIATION PROTECTION DOSIMETRY, cilt.120, ss.33-37, 2006 (SCI-Expanded)
- XXIII. **An optical fiber radiation sensor for remote detection of radiological materials**
Klein D., Yukihara E., Bulur E., Durham J., Akselrod M., McKeever S.
IEEE SENSORS JOURNAL, cilt.5, sa.4, ss.581-588, 2005 (SCI-Expanded)
- XXIV. **Recent advances in dosimetry using the optically stimulated luminescence of $Al_2O_3 : C$**
MCKEEVER S., BLAIR M., Bulur E., Gaza R., Gaza R., KALCHGRUBER R., KLEIN D., YUKIHARA E.
RADIATION PROTECTION DOSIMETRY, cilt.109, sa.4, ss.269-276, 2004 (SCI-Expanded)
- XXV. **Photo-stimulated luminescence of calcium co-doped BaFBr : Eu^{2+} x-ray storage phosphors**
SCHLAPP M., Bulur E., VON SEGGERN H.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, cilt.36, sa.2, ss.103-108, 2003 (SCI-Expanded)
- XXVI. **ENHANCEMENTS IN LUMINESCENCE MEASUREMENT TECHNIQUES**
Botter-Jensen L., Bulur E., Murray A., Poolton N.
RADIATION PROTECTION DOSIMETRY, cilt.101, sa.1-4, ss.119-124, 2002 (SCI-Expanded)
- XXVII. **Electrons in feldspar I: on the wavefunction of electrons trapped at simple lattice defects**
POOLTON N., Wallinga J., MURRAY A., Bulur E., Botter-Jensen L.
PHYSICS AND CHEMISTRY OF MINERALS, cilt.29, sa.3, ss.210-216, 2002 (SCI-Expanded)
- XXVIII. **LM-OSL from single grains of quartz: A preliminary study**
Bulur E., Duller G., SOLONGO S., Bøtter-Jensen L., Murray A.
Radiation Measurements, cilt.35, sa.1, ss.79-85, 2002 (SCI-Expanded)
- XXIX. **A multi-spectroscopic study of luminescence sensitivity changes in natural quartz induced by high-temperature annealing**
SCHILLES T., POOLTON N., Bulur E., Botter-Jensen L., MURRAY A., Smith G., RIEDI P., WAGNER G.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, cilt.34, sa.5, ss.722-731, 2001 (SCI-Expanded)
- XXX. **LM-OSL signals from some insulators: An analysis of the dependency of the detrapping probability on stimulation light intensity**
Bulur E., Bøtter-Jensen L., Murray A.
Radiation Measurements, cilt.33, sa.5, ss.715-719, 2001 (SCI-Expanded)
- XXXI. **Frequency modulated pulsed stimulation in optically stimulated luminescence**
Bulur E., Bøtter-Jensen L., Murray A.
Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms,

- cilt.179, sa.1, ss.151-159, 2001 (SCI-Expanded)
- XXXII. **An automated system for the analysis of variable temperature radioluminescence**
Poolton N., Bulur E., Wallinga J., Botter-Jensen L., Murray A., WILLUMSEN F.
Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms,
cilt.179, sa.4, ss.575-584, 2001 (SCI-Expanded)
- XXXIII. **Advances in luminescence instrument systems**
Bøtter-Jensen L., Bulur E., Duller G., Murray A.
Radiation Measurements, cilt.32, sa.5, ss.523-528, 2000 (SCI-Expanded)
- XXXIV. **Use of the LM-OSL technique for the detection of partial bleaching in quartz**
Agersnap Larsen N., Bulur E., Bøtter-Jensen L., McKeever S.
Radiation Measurements, cilt.32, sa.5, ss.419-425, 2000 (SCI-Expanded)
- XXXV. **Optically stimulated luminescence from quartz measured using the linear modulation technique**
Bulur E., Bøtter-Jensen L., Murray A.
Radiation Measurements, cilt.32, sa.5, ss.407-411, 2000 (SCI-Expanded)
- XXXVI. **Luminescence sensitivity changes in natural quartz induced by high temperature annealing: a high frequency EPR and OSL study**
Poolton N., SMITH G., RIEDI P., Bulur E., Botter-Jensen L., MURRAY A., ADRIAN M.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, cilt.33, sa.8, ss.1007-1017, 2000 (SCI-Expanded)
- XXXVII. **Simple transformation for converting CW-OSL curves to LM-OSL curves**
Bulur E.
Radiation Measurements, cilt.32, sa.2, ss.141-145, 2000 (SCI-Expanded)
- XXXVIII. **Beta Dosimetry Using Thin Layer α -Al₂O₃:C TL Detectors**
GÖKSU H. Y., BULUR E., WAHL W.
Radiation Protection Dosimetry, cilt.84, ss.451-455, 1999 (SCI-Expanded)
- XXXIX. **Phototransferred thermoluminescence from α -Al₂O₃:C using blue light emitting diodes**
Bulur E., Göksu H.
Radiation Measurements, cilt.30, sa.2, ss.203-206, 1999 (SCI-Expanded)
- XL. **Infrared (IR) stimulated luminescence from feldspars with linearly increasing excitation light intensity**
Bulur E., Göksu H.
Radiation Measurements, cilt.30, sa.4, ss.505-512, 1999 (SCI-Expanded)
- XLI. **Characteristic features of an ionization system with semiconducting cathode**
Salamov B., Altindal Ş., Özer M., Colakoglu K., Bulur E.
EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS, cilt.2, sa.3, ss.267-273, 1998 (SCI-Expanded)
- XLII. **Infrared (IR) stimulated luminescence from α - Al₂O₃:C**
Bulur E., Göksu H., WAHL W.
Radiation Measurements, cilt.29, sa.6, ss.625-638, 1998 (SCI-Expanded)
- XLIII. **OSL from BeO ceramics: New observations from an old material**
Bulur E., Göksu H.
Radiation Measurements, cilt.29, sa.6, ss.639-650, 1998 (SCI-Expanded)
- XLIV. **The rapid visualization of resistivity inhomogeneities in high-resistivity semiconductor films**
Salamov B., Civi M., Altindal S., Kasap M., Bulur E.
JOURNAL OF INFORMATION RECORDING, cilt.23, sa.5, ss.437-445, 1997 (SCI-Expanded)
- XLV. **IR stimulated luminescence from ZnS and SrS based storage phosphors A re examination with linear modulation technique**
BULUR E., GÖKSU H. Y.
Physica Status Solidi A-Applications And Materials Science, cilt.161, ss.9-10, 1997 (SCI-Expanded)
- XLVI. **Pulsed optically stimulated luminescence from α -Al₂O₃:C using green light emitting diodes**
Bulur E., Göksu H.
Radiation Measurements, cilt.27, sa.3, ss.479-488, 1997 (SCI-Expanded)
- XLVII. **Computer analysis of pendulum motion: An alternative way of collecting experimental data**

- Bulur E., Anilturk S., Özer A.
AMERICAN JOURNAL OF PHYSICS, cilt.64, sa.10, ss.1333-1337, 1996 (SCI-Expanded)
- XLVIII. **Thermoluminescence properties of fluorescent materials used in commercial lamps**
Bulur E., Goksu H., Wieser A., Figel M., Ozer A.
RADIATION PROTECTION DOSIMETRY, cilt.65, sa.1-4, ss.373-379, 1996 (SCI-Expanded)
- XLIX. **An alternative technique for optically stimulated luminescence (OSL) experiment**
Bulur E.
Radiation Measurements, cilt.26, sa.5, ss.701-709, 1996 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Detection of gamma irradiated spices with OSL method and its reliability**
AYGÜN Ş. G., BOZOĞLU T. F., BULUR E.
Natural Science and Discovery, cilt.2, ss.11-19, 2016 (Hakemli Dergi)
- II. **Effect of Illumination Temperature on Thermally Stimulated Current Spectrum of TlInS₂**
Özdemir S., Suleymanov R., Bucurgat M., Bulur E.
TURKISH JOURNAL OF PHYSICS, cilt.23, ss.1013-1022, 1999 (Scopus)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Systematic development of an OSL dosimeter based on BeO**
ALTUNAL V., Güçkan V., Özdemir A., BULUR E., YEĞİNGİL Z.
5th International Conference on Materials Science and Nanotechnology for Next Generation (MSNG-2018),
Nevşehir, Türkiye, 4 - 06 Ekim 2018
- II. **OSL properties of BeO:Al Ceramics**
ALTUNAL V., Özdemir A., Güçkan V., BULUR E., YEĞİNGİL Z.
11th International Conferences on Luminescence and ESR Dosimetry (LUMIDOZ11), Gaziantep, Türkiye, 5 - 07 Eylül
2018
- III. **Optically Stimulated Luminescence (OSL) from BeO:Al,Ca Ceramics Synthesized via Sol-Gel Method**
ALTUNAL V., Güçkan V., Özdemir A., BULUR E., YEĞİNGİL Z.
11st International Conferences on Luminescence and ESR Dosimetry (LUMIDOZ11), Gaziantep, Türkiye, 5 - 07 Eylül
2018
- IV. **Luminescence properties of Calcium doped BeO Ceramics**
Özdemir A., ALTUNAL V., Güçkan V., BULUR E., YEĞİNGİL Z.
11th International Conferences on Luminescence and ESR Dosimetry (LUMIDOZ11), Gaziantep, Türkiye, 5 - 07 Eylül
2018
- V. **Studies of Mn²⁺-doped MgGa₂O₄ phosphor for TL and OSL dosimetry**
LUCHECHKO A., ZHYDACHEVSKYY Y., MARABA D., UBİZSKİİ S., BULUR E., KRAVETS O.
PS-IWASOM'xx2017, 9 - 14 Temmuz 2017
- VI. **Unusual heating rate dependence of thermoluminescence glow peaks of GaS single crystals.**
DELİCE S., HASANLI N., BULUR E.
17th International Balkan Workshop on Applied Physics and Materials Science, 11 - 14 Temmuz 2017
- VII. **Pulsed OSL readout of detectors based on YAl₃Mn crystals**
ZHYDACHEVSKYY Y., LUCHECHKO A., MARABA D., MARTYNYUK N., GLOWACKÍ M., BULUR E., UBİZSKİİ S.,
BERKOWSKI M., SUCHOCKÍ A.
RAD 2017, Budva, KARADAĞ, 12 - 16 Haziran 2017
- VIII. **Time Resolved Optically Stimulated Luminescence From Phosphors with Long Emission Lifetimes**
BULUR E.
LUMIDOZ 10 10th International Conference on Luminescence and ESR Dosimetry, Adana, Türkiye, 5 - 07 Eylül

2016

- IX. **Structural and Luminescence Characteristics of Orange Emitting Persistent Phosphor Based on SrS**
KARSU E. C., YILDIRIM S., KARALI T., BULUR E.
Lumidoz 10 10th International Conference on Luminescence and ESR Dosimetry, Adana, Türkiye, 5 - 07 Eylül 2016
- X. **Optically stimulated luminescence from CaF₂ Mn at high temperatures**
MARABA D., BULUR E.
Solid State Dosimetry 18 Munich-Germany, Munich, Almanya, 3 - 08 Temmuz 2016
- XI. **Design and construction of an automated OSL Reader with open source software and hardware**
Maraba D., BULUR E.
Solid State Dosimetry 18 Munich-Germany, Munich, Almanya, 3 - 08 Temmuz 2016
- XII. **Time resolved luminescence studies of Mn²⁺ ions in YAlO₃**
Zhydachevskii Y., Luchechko A., Maraba D., Martynyuk N., Glowacki M., BULUR E., Ubizskii S., Berkowski M., Suchocki A.
Solid State Dosimetry 18 Munich-Germany, Munich, Almanya, 3 - 08 Temmuz 2016
- XIII. **OSL from BeO ceramics Characteristics of the TR OSL signal**
BULUR E.
Solid State Dosimetry 18 Munich-Germany, Munich, Almanya, 3 - 08 Temmuz 2016
- XIV. **Optically stimulated luminescence properties and characteristic analysis of beryllium oxide nano phosphors synthesized using sol gel method**
Altunal V., YEĞİNGİL Z., Depçi T., Özdemir A., Güçkan V., Yan Y., NUR N., BULUR E.
Solid State Dosimetry 18 Munich-Germany, Munich, Almanya, 3 - 08 Temmuz 2016

Desteklenen Projeler

BULUR E., Yükseköğretim Kurumları Destekli Proje, Spektral-Zaman Tanımlı Osl Sistemi Geliştirilmesi, 2009 - Devam Ediyor

HASANLI N., Delice S., Işık M., KÖKTEN H., BULUR E., Yükseköğretim Kurumları Destekli Proje, Y2O₃ nanoparçacıkların termoluminesans özelliklerinin incelenmesi, 2018 - 2019

HASANLI N., Delice S., Işık M., KÖKTEN H., BULUR E., Yükseköğretim Kurumları Destekli Proje, GaInSe ince filmlerin büyütülmesi ve elektriksel özelliklerinin incelenmesi, 2017 - 2017

HASANLI N., Işık M., KÖKTEN H., BULUR E., Yükseköğretim Kurumları Destekli Proje, GaS(x)Se(1-x) yarıiletken kristallerinin yapısal ve optiksel özelliklerinin incelenmesi, 2016 - 2016

HASANLI N., KÖKTEN H., BULUR E., Yükseköğretim Kurumları Destekli Proje, Sol-jel yöntemi ile üretilen ZnO nanokristal ve ince filmlerin yapısal, optiksel ve termoluminesans özelliklerinin incelenmesi, 2015 - 2015

HASANLI N., BULUR E., Yükseköğretim Kurumları Destekli Proje, BeO malzemesinde sıg tuzak merkezlerinin termoluminesans ölçümleri ile belirlenmesi, 2014 - 2014

HASANLI N., BULUR E., Yükseköğretim Kurumları Destekli Proje, TlInS₂ ve TlGaSe₂ yarıiletken kristallerinde düşük sıcaklıklarda termoluminesans ölçümleri, 2013 - 2013

Bilimsel Dergilerdeki Faaliyetler

Radiation Measurements, Editörler Kurulu Üyesi, 2016 - Devam Ediyor

Bilimsel Hakemlikler

RADIATION MEASUREMENTS, SCI Kapsamındaki Dergi, Nisan 2020

RADIATION MEASUREMENTS, SCI Kapsamındaki Dergi, Şubat 2020

Etkinlik Organizasyonlarındaki Görevler

Bulur E., Yazıcı A. N., LÜMİDOZ 11, Bilimsel Kongre / Sempozyum Organizasyonu, Gaziantep, Türkiye, Eylül 2018

Bulur E., Lumidoz 10, Bilimsel Kongre / Sempozyum Organizasyonu, Adana, Türkiye, Eylül 2017

Bulur E., Lumidoz 8, Bilimsel Kongre / Sempozyum Organizasyonu, Ankara, Türkiye, Ağustos 2014

Metrikler

Yayın: 65

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Atıf (Scopus): 2129

H-İndeks (WoS): 23

H-İndeks (Scopus): 22

Kongre ve Sempozyum Katılımı Faaliyetleri

Lumidoz 10, Davetli Konuşmacı, Adana, Türkiye, 2016

SSD 18 Solid State Dosimetry, Katılımcı, Munich, Almanya, 2016

SSD 18, Davetli Konuşmacı, Munich, Almanya, 2016

Akademi Dışı Deneyim

METU

METU

METU

Oklahoma State University

TU-Darmstadt

Riso National Laboratory Roskilde

GSF Forschungszentrum, Neuhergerg

METU