

## Prof. ORHAN UZUN

### Personal Information

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### International Researcher IDs

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ScopusID: 7007089321

Yoksis Researcher ID: 24974

### Biography

18 Ekim 1965 tarihinde Trabzon'da doğdu. 1990 yılında Karadeniz Teknik Üniversitesi Fatih Eğitim Fakültesi Fizik Öğretmenliği Bölümünden mezun olan Orhan UZUN, 1993 yılında Yüzüncü Yıl Üniversitesinde Fizik Anabilim Dalında yüksek lisans, 1998 yılında Gazi Üniversitesi Fizik Eğitimi Anabilim Dalında doktora çalışmasını tamamladı.

1991 yılında Urfa-Siverek İmam Hatip Lisesi'nde kısa bir süre Fizik Öğretmenliği yaptıktan sonra 1992 yılında Yüzüncü Yıl Üniversitesi'nde Araştırma görevlisi olarak göreve başlayan UZUN, Gaziosmanpaşa Üniversitesi'nde sırasıyla 1998 yılında Dr., 1999 yılında Yardımcı Doçent, 2005 yılında Doçent ve 2010 yılında Profesör unvanlarını aldı.

Doktora eğitimi sırasında İngiltere'de Sheffield Üniversitesinde, doktora sonrasında ise Amerika'da Stanford Üniversitesi ve Silicon Vadisi'nde misafir araştırmacı olarak bulundu.

DPT, TÜBİTAK ve Üniversiteler tarafından desteklenen 18 Ar-Ge projesinde araştırmacı ve yürütücü olarak görev yapan UZUN, bugüne kadar 5'i doktora olmak üzere toplam 11 lisansüstü tez çalışmasını yönetti.

TÜBİTAK ve bazı Bakanlıklarda proje değerlendiricisi, hakemlik ve panelistlik gibi görevlerin yanı sıra bilimsel araştırma makalesi yayınlayan onlarca dergide hakemlik yapan UZUN, halen iki bilimsel derginin Editörler kurulunda görev yapmaktadır.

Süperiletkenlik, hidrojen depolama, akıllı ve nanoyapılı malzeme alanlarında araştırmalar yapan UZUN'un bugüne kadar, 76'sı SCI kapsamında olmak üzere toplam 227 araştırma makalesi ve bildirisi yayımlandı. Ulusal ve uluslararası pek çok konferansa çağrılı konuşmacı olarak davet edilen UZUN'un eserlerine 10 Ocak 2025 tarihi itibarıyla 3.554 atıf yapıldı.

2012 yılından itibaren Bülent Ecevit Üniversitesinde görev yapan Uzun, bu süre zarfında Rektör Yardımcılığı ve Dekanlık gibi yönetim görevlerinde bulundu. Aralık 2015'ten itibaren Yükseköğretim Kalite Kurulu Başkanlığı görevini yürüttü. Bu görevi devam ederken 18 Nisan 2017 tarihinde Cumhurbaşkanımız Sayın Recep Tayyip Erdoğan tarafından Bartın Üniversitesi Rektörlüğüne atanan Prof. Dr. UZUN, 21 Nisan 2021 tarihinde bu göreve yeniden atandı. Prof. Dr. Orhan Uzun, evli ve üç çocuk babasıdır.

### Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Fizik Eğitimi (Dr), Turkey 1994 - 1998

Postgraduate, Van Yüzüncü Yıl University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 1992 - 1993

Undergraduate, Karadeniz Technical University, Fatih Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Turkey 1986 - 1990

### Research Areas

Physics

### Academic Titles / Tasks

Professor, Ankara University, Fen Fakültesi, Fizik Bölümü, 2018 - Continues

Professor, Zonguldak Bülent Ecevit University, Faculty Of Engineering, 2012 - 2018  
Professor, Tokat Gaziosmanpaşa University, Faculty Of Arts And Sciences, 2010 - 2012  
Associate Professor, Tokat Gaziosmanpaşa University, Faculty Of Arts And Sciences, 2005 - 2010  
Assistant Professor, Tokat Gaziosmanpaşa University, Faculty Of Arts And Sciences, 1999 - 2005  
Research Assistant, Tokat Gaziosmanpaşa University, Faculty Of Arts And Sciences, 1993 - 1999  
Research Assistant, Van Yüzüncü Yil University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1992 - 1993

## Academic and Administrative Experience

Bartın University, 2017 - Continues  
YÖKAK Başkanı, Yükseköğretim Kalite Kurulu, 2015 - 2017  
University Executive Board Member, Zonguldak Bülent Ecevit University, 2014 - 2015  
Zonguldak Bülent Ecevit University, 2014 - 2015  
Dean, Zonguldak Bülent Ecevit University, 2014 - 2015  
Head of Department, Zonguldak Bülent Ecevit University, 2012 - 2015  
Zonguldak Bülent Ecevit University, 2012 - 2014  
Zonguldak Bülent Ecevit University, 2012 - 2014  
Zonguldak Bülent Ecevit University, 2012 - 2014  
Tokat Gaziosmanpaşa University, 2011 - 2012  
Tokat Gaziosmanpaşa University, 2006 - 2007  
Tokat Gaziosmanpaşa University, 1999 - 2003

## Courses

Malzeme Bilimi, Undergraduate, 2013 - 2014  
Mesleki Yabancı Dil II , Undergraduate, 2011 - 2012, 2010 - 2011  
Genel Fizik I , Undergraduate, 2011 - 2012, 2010 - 2011  
Mesleki Yabancı Dil I , Undergraduate, 2011 - 2012, 2010 - 2011  
Genel Fizik II , Undergraduate, 2011 - 2012, 2010 - 2011  
Dinamik Sertlik Analizi II , Postgraduate, 2011 - 2012  
Dinamik Sertlik Analizi I , Postgraduate, 2011 - 2012, 2010 - 2011  
Fizikte Özel Konular , Undergraduate, 2011 - 2012  
X-Işımları Kırınımı , Postgraduate, 2010 - 2011  
Katıların Deformasyonu , Postgraduate, 2010 - 2011  
Genel Fizik Laboratuvarı I , Undergraduate, 2010 - 2011  
Genel Fizik Laboratuvarı II , Undergraduate, 2010 - 2011

## Advising Theses

UZUN O., Yüksek enerjili bilyeli öğütme tekniği ile üretilen ötektik üstü Al-Si-Fe alaşımlarının yapı ve mekanik özelliklerinin incelenmesi, Postgraduate, S.GÜL(Student), 2015  
UZUN O., Hızlı katılaştırılmış şekil hafızalı Cu-Al-Be alaşımlarının üretimi ve karakterizasyonu, Doctorate, S.ERGEN(Student), 2014  
UZUN O., Farklı yöntemlerle üretilen AB5 tipi hidrojen depolayan alaşımların karakterizasyonu, Doctorate, F.YILMAZ(Student), 2014  
UZUN O., Elmas-benzeri karbon ince film in Schottky diyot parametreleri üzerine etkisi, Postgraduate, N.ASLAN(Student), 2013  
UZUN O., Ötektiküstü Al-20Si-5Fe alaşımının farklı tekniklerle üretimi ve karakterizasyonu, Postgraduate, S.ÇAĞLAR(Student), 2013  
UZUN O., Elektrokimyasal olarak sentezlenen poli(hidridokarbon)'den elde edilen elmas-benzeri karbon filmlerin yapısal, fiziksel ve mekanik özellikleri, Doctorate, N.BAŞMAN(Student), 2012  
UZUN O., Yüksek silisyum içerikli Al-Si-Fe alaşımlarının mikroyapı özellikleri üzerinde hızlı katılaştırma ve kobalt'ın etkileri, Doctorate, M.FATİH(Student), 2012  
UZUN O., Nanokristal Al-Si-Sb alaşımlarının enerji yaklaşımı ile mikromekanik karakterizasyonu, Postgraduate, F.YILMAZ(Student), 2008  
UZUN O., Hızlı katılaştırılmış  $al-12si-x$  ( $x=0.5, 1.0$ ) alaşımlarının mekanik özelliklerinin dinamik mikrosertlik tekniği ile incelenmesi, Postgraduate, M.FATİH(Student), 2006  
UZUN O., Beta-Sn tek kristallerinin bazı mekaniksel özellikleri ile kristal yönelimi arasındaki ilişki, Doctorate, O.ŞAHİN(Student), 2006

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

- I. The revealing of the Cyto-genotoxic properties (Allium and MTT) and the effect of chicken meat quality of characterized

### zein-eugenol nanofibers

Ceylan Z., UZUN O., Karaismailoglu M. C., Meral R., Yildiz H. B.

FOOD CHEMISTRY, vol.462, 2025 (SCI-Expanded)

- II. **Development of UTAUT-based augmented reality acceptance scale: a validity and reliability study**  
Ustun A. B., Karaoglan-Yilmaz F. G., Yilmaz R., Ceylan M., Uzun O.  
EDUCATION AND INFORMATION TECHNOLOGIES, vol.29, no.9, pp.11533-11554, 2024 (SSCI)
- III. **Pumice-Supported Ruthenium nanoparticles as highly effective and recyclable catalyst in the hydrolysis of methylamine borane**  
Dayan O., Kilicer A., Bulut A., Ceylan E., Tayfun U., Uzun O., Zahmakiran M., Yurderi M.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.52, pp.1-10, 2024 (SCI-Expanded)
- IV. **Electrocatalytic Investigation by Improving the Charge Kinetics between Carbon Electrodes and Dopamine Using Bio-Synthesized CuO Nanoparticles**  
Rajendrachari S., Jayaprakash G. K., Pandith A., KARAOĞLANLI A. C., Uzun O.  
CATALYSTS, no.9, 2022 (SCI-Expanded)
- V. **Transformational, microstructural and superelasticity characteristics of Ti-V-Al high temperature shape memory alloys with Zr addition**  
Bag O., YILMAZ F., KÖLEMEN U., ERGEN S., Temiz C., Uzun O.  
PHYSICA SCRIPTA, no.8, 2021 (SCI-Expanded)
- VI. **Photocatalytic degradation of Rhodamine B (RhB) dye in waste water and enzymatic inhibition study using cauliflower shaped ZnO nanoparticles synthesized by a novel One-pot green synthesis method**  
Rajendrachari S., Taslimi P., KARAOĞLANLI A. C., Uzun O., Alp E., Jayaprakash G. K.  
ARABIAN JOURNAL OF CHEMISTRY, no.6, 2021 (SCI-Expanded)
- VII. **Enhancing the wear and oxidation behaviors of the Inconel 718 by low temperature aluminizing**  
Döleker K. M., Erdogan A., Yener T., Karaoglanli A. C., Uzun O., Gok M. S., Zeytin S.  
SURFACE & COATINGS TECHNOLOGY, vol.412, 2021 (SCI-Expanded)
- VIII. **SYNTHESIS OF NANO-STRUCTURED DUPLEX AND FERRITIC STAINLESS STEEL POWDERS BY DRY MILLING AND ITS COMPARISON WITH WET MILLING**  
Shashanka R., Uzun O., Chaira D.  
ARCHIVES OF METALLURGY AND MATERIALS, vol.65, no.1, pp.5-14, 2020 (SCI-Expanded)
- IX. **Ag(I)-benzisothiazolinone complex: synthesis, characterization,  $H_{2}$  storage ability, nano transformation to different Ag nanostructures and Ag nanoflakes antimicrobial activity**  
Alheety M. A., Al-Jibori S. A., Ali A. H., Mahmood A. R., Akbas H., KARADAĞ A., Uzun O., Ahmed M. H.  
MATERIALS RESEARCH EXPRESS, vol.6, no.12, 2019 (SCI-Expanded)
- X. **The effects of deposition potential on the optical, morphological and mechanical properties of DLC films produced by electrochemical deposition technique at low voltages**  
ASLAN N., BAŞMAN N., Uzun O., ERKOVAN M., YAKUPHANOĞLU F.  
MATERIALS SCIENCE-POLAND, no.2, pp.166-172, 2019 (SCI-Expanded)
- XI. **Eco-friendly  $C_{60}$ -SESMP- $Fe_3O_4$  inorganic magnetizable nanocomposite as high-performance adsorbent for magnetic removal of arsenic from crude oil and water samples**  
Alheety M. A., Raoof A., Al-Jibori S. A., KARADAĞ A., Khaleel A. I., Akbas H., Uzun O.  
MATERIALS CHEMISTRY AND PHYSICS, vol.231, pp.292-300, 2019 (SCI-Expanded)
- XII. **Electrical characterization of solar sensitive zinc oxide doped-amorphous carbon photodiode**  
Koc M. M., Aslan N., Erkovan M., Aksakal B., Uzun O., Farooq W. A., Yakuphanoglu F.  
OPTIK, vol.178, pp.316-326, 2019 (SCI-Expanded)
- XIII. **Effect of Bismuth on hydrogen storage properties of melt-spun  $LaNi_{4.7-x}Al_{0.3}Bi_x$  ( $x=0.0, 0.1, 0.2, 0.3$ ) ribbons**  
Yilmaz F., Ergen S., Hong S., Uzun O.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.44, pp.20243-20251, 2018 (SCI-Expanded)
- XIV. **Structural and mechanical properties of hypereutectic AlSiFe powders and a new method for determination of sintering temperature**  
Ergen S., Yilmaz F., Gul S., Kolemen U., Kilicaslan M. F., Uzun O.  
ADVANCED POWDER TECHNOLOGY, vol.29, no.3, pp.563-572, 2018 (SCI-Expanded)
- XV. **CORRELATION OF HARDNESS AND SILICON MORPHOLOGY FOR Al-Si-Sb ALLOY**  
Uzun O., Yilmaz F., Emeksiz C., Ergen S., Kolemen U.  
ARCHIVES OF METALLURGY AND MATERIALS, vol.63, no.1, pp.467-472, 2018 (SCI-Expanded)
- XVI. **Effect of a new methacrylic monomer on diode parameters of Ag/p-Si Schottky contact**  
Basman N., Uzun R., Ozcakar R., Erol I., ÇANKAYA G., Uzun O.  
INFORMACIJE MIDEM-JOURNAL OF MICROELECTRONICS ELECTRONIC COMPONENTS AND MATERIALS, vol.46, no.4, pp.190-196, 2016 (SCI-Expanded)
- XVII. **Preparation of Fine-Grained Silicon-Nitride Ceramics and their Characterization by Depth-Sensing Indentation Tests**

- ŞAHİN Ö., Guder H. S., Uzun O., Sahin E., Sopicka-Lizer M., Gocmez H., Artunc E.  
ACTA PHYSICA POLONICA A, vol.128, no.2B, pp.355-359, 2015 (SCI-Expanded)
- XVIII. **Electrical characterization of metal/diamond-like carbon/inorganic semiconductor MIS Schottky barrier diodes**  
Basman N., Aslan N., Uzun O., ÇANKAYA G., Kolemen U.  
MICROELECTRONIC ENGINEERING, vol.140, pp.18-22, 2015 (SCI-Expanded)
- XIX. **Mechanical Characterization of Ruthenocuprates by Nanoindentation Technique**  
Alp U., Yilmaz F., Uzun O., Topal U., Ergen S., Kolemen U.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.28, no.2, pp.519-523, 2015 (SCI-Expanded)
- XX. **Effect of Different Production Methods on the Mechanical and Microstructural Properties of Hypereutectic Al-Si Alloys**  
Kilicaslan M. F., Uzun O., Yilmaz F., Caglar S.  
METALLURGICAL AND MATERIALS TRANSACTIONS B-PROCESS METALLURGY AND MATERIALS PROCESSING SCIENCE, vol.45, no.5, pp.1865-1873, 2014 (SCI-Expanded)
- XXI. **Formation of novel flower-like silicon phases and evaluation of mechanical properties of hypereutectic melt-spun Al-20Si-5Fe alloys with addition of V**  
Uzun O., Kilicaslan M. F., Yilmaz F.  
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.607, pp.368-375, 2014 (SCI-Expanded)
- XXII. **The Role of Weak Links and Zn-Doping on Magnetic Parameters of High- $T_c$  Superconductors**  
Topal U., Coker E. G., Alikma F., Kolemen U., Uzun O.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.27, no.1, pp.133-141, 2014 (SCI-Expanded)
- XXIII. **Nanoindentation study on Gd-deposited YBaCuO superconductor**  
Yilmaz F., Uzun O., Kolemen U., Kilicaslan M. F., Basman N., Ergen S., ÖZTÜRK U. K., Yanmaz E.  
BULLETIN OF MATERIALS SCIENCE, no.7, pp.1139-1145, 2013 (SCI-Expanded)
- XXIV. **Mechanical Properties of BSCCO Superconductor by Oliver-Pharr Method and Work of Indentation Approach**  
Kolemen U., Uzun O., Emeksiz C., Yilmaz F., Coskun A., EKİCİBİL A., ÖZÇELİK B.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.26, no.11, pp.3215-3219, 2013 (SCI-Expanded)
- XXV. **Shape memory properties and microstructural evolution of rapidly solidified CuAlBe alloys**  
Ergen S., Uzun O., Yilmaz F., Kilicaslan M. F.  
MATERIALS CHARACTERIZATION, vol.80, pp.92-97, 2013 (SCI-Expanded)
- XXVI. **Microstructure and microhardness of melt-spun Al-25Si-5Fe-XCo (X=0, 1, 3, 5) alloys**  
Kilicaslan M. F., Yilmaz F., Ergen S., Hong S., Uzun O.  
MATERIALS CHARACTERIZATION, vol.77, pp.15-22, 2013 (SCI-Expanded)
- XXVII. **Electrical characterization of a pre-ceramic polymer modified Ag/poly(hydridocarbyne)-Si Schottky barrier diode**  
Basman N., Uzun O., Fiat S., Alkan C., ÇANKAYA G.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.23, no.12, pp.2282-2288, 2012 (SCI-Expanded)
- XXVIII. **Effect of Co on Si and Fe-containing intermetallic compounds (IMCs) in Al-20Si-5Fe alloys**  
Kilicaslan M. F., Yilmaz F., Hong S., Uzun O.  
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.556, pp.716-721, 2012 (SCI-Expanded)
- XXIX. **Effects of Substitution of Al and Bi for Ni on Structure and Hydrogen Storage Properties of LaNi<sub>4.7-x</sub>Al<sub>0.3</sub>Bi<sub>x</sub> (x=0.1, 0.2, 0.3) Alloy**  
Yilmaz F., Kilicaslan M. F., Atanur O. M., Hong S., Uzun O.  
JAPANESE JOURNAL OF APPLIED PHYSICS, vol.51, no.9, 2012 (SCI-Expanded)
- XXX. **Measurements of ultra-low DC fields by high- $T_c$  superconducting cores: The effect of calcination temperature**  
Topal U., Alikma F., Birlikseven C., Uzun O., Kolemen U.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.530, pp.91-96, 2012 (SCI-Expanded)
- XXXI. **Investigation of mechanical and creep properties of polypyrrole by depth-sensing indentation**  
Uzun O., Basman N., Alkan C., Kolemen U., Yilmaz F.  
POLYMER BULLETIN, vol.66, no.5, pp.649-660, 2011 (SCI-Expanded)
- XXXII. **Effect of (Mo, W) substitution for Nb on glass forming ability and magnetic properties of Fe-Co-based bulk amorphous alloys fabricated by centrifugal casting**  
Kucuk I., Aykol M., Uzun O., Yildirim M., Kabaer M., Duman N., Yilmaz F., Erturk K., AKDENİZ M. V., Mekhrabov A. O.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.509, no.5, pp.2334-2337, 2011 (SCI-Expanded)
- XXXIII. **Sb effect on micro structural and mechanical properties of rapidly solidified Al-12Si alloy**  
Uzun O., Yilmaz F., Kolemen U., Basman N.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.509, no.1, pp.21-26, 2011 (SCI-Expanded)
- XXXIV. **Calculation of the  $\beta$ -material for Bulk MgB<sub>2</sub> Superconductor**

- Guclu N., Uzun O., Kolemen U.  
 JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.24, no.1-2, pp.371-373, 2011 (SCI-Expanded)
- XXXV. **Depth sensing indentation analysis of electrochemically synthesized polythiophene**  
 Uzun O., Basman N., Alkan C., Kolemen U., Yilmaz F.  
 MATERIALS CHEMISTRY AND PHYSICS, vol.124, no.1, pp.196-202, 2010 (SCI-Expanded)
- XXXVI. **Nanoindentation study of bulk MgB<sub>2</sub> crystal**  
 Guclu N., Uzun O., Kolemen U.  
 OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, no.6, pp.828-830, 2010 (SCI-Expanded)
- XXXVII. **Poly(ethylene glycol)/poly(methyl methacrylate) Blends as Novel Form-Stable Phase-Change Materials for Thermal Energy Storage**  
 SARI A., Alkan C., Karaipekli A., Uzun O.  
 JOURNAL OF APPLIED POLYMER SCIENCE, vol.116, no.2, pp.929-933, 2010 (SCI-Expanded)
- XXXVIII. **Work of indentation approach to load-penetration depth data in bulk BSCCO superconductor**  
 Uzun O., Guclu N., Kolemen U.  
 OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.4, no.3, pp.332-335, 2010 (SCI-Expanded)
- XXXIX. **Quasicrystalline phase formation in the conventionally solidified Al-Cu-Fe system**  
 Gögebakan M., Avar B., UZUN O.  
 Materials Science- Poland, vol.27, no.3, pp.919-926, 2009 (SCI-Expanded)
- XL. **Microencapsulated *n*-octacosane as phase change material for thermal energy storage**  
 SARI A., Alkan C., Karaipekli A., Uzun O.  
 SOLAR ENERGY, vol.83, no.10, pp.1757-1763, 2009 (SCI-Expanded)
- XLI. **Effects of ZnO addition on mechanical properties of Bi<sub>1.84</sub>Pb<sub>0.34</sub>Sr<sub>1.91</sub>Ca<sub>2.03</sub>Cu<sub>3.06</sub>O<sub>10</sub> prepared by a wet technique**  
 Karaca I., Uzun O., Kolemen U., Yilmaz F., ŞAHİN Ö.  
 JOURNAL OF ALLOYS AND COMPOUNDS, vol.476, no.1-2, pp.486-491, 2009 (SCI-Expanded)
- XLII. **Preparation, characterization, and thermal properties of microencapsulated phase change material for thermal energy storage**  
 Alkan C., SARI A., Karaipekli A., Uzun O.  
 SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.93, no.1, pp.143-147, 2009 (SCI-Expanded)
- XLIII. **Quasicrystalline phase formation in the conventionally solidified Al-Cu-Fe system**  
 Gogebakan M., Avar B., Uzun O.  
 MATERIALS SCIENCE-POLAND, no.3, pp.919-926, 2009 (SCI-Expanded)
- XLIV. **Analysis of data on indentation load against penetration depth for bulk MgB<sub>2</sub> crystal using indentation work and Oliver-Pharr approaches**  
 Uzun O., Guclu N., Kolemen U., ŞAHİN Ö.  
 MATERIALS CHEMISTRY AND PHYSICS, vol.112, no.1, pp.5-10, 2008 (SCI-Expanded)
- XLV. **Analysis of ISE in dynamic hardness measurements of β-Sn single crystals using a depth-sensing indentation technique**  
 Sahin O., Uzun O., Kolemen U., UÇAR N.  
 MATERIALS CHARACTERIZATION, vol.59, no.6, pp.729-736, 2008 (SCI-Expanded)
- XLVI. **Mechanical characterization for β-Sn single crystals using nanoindentation tests**  
 Sahin O., Uzun O., Kolemen U., UÇAR N.  
 MATERIALS CHARACTERIZATION, vol.59, no.4, pp.427-434, 2008 (SCI-Expanded)
- XLVII. **Dynamic hardness and elastic modulus calculation of porous SiAlON ceramics using depth-sensing indentation technique**  
 Sahin O., Uzun O., Sopicka-Lizer M., Gocmez H., Kolemen U.  
 JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.28, no.6, pp.1235-1242, 2008 (SCI-Expanded)
- XLVIII. **Analysis of load-penetration depth data using Oliver-Pharr and Cheng-Cheng methods of SiAlON-ZrO<sub>2</sub> ceramics**  
 Sahin O., Uzun O., Sopicka-Lizer M., Gocmez H., Kolemen U.  
 JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.41, no.3, 2008 (SCI-Expanded)
- XLIX. **Microstructural evolution and microhardness of a melt-spun Al-6Ni-2Cu-1Si (in wt.%) alloy**  
 KARAKÖSE E., KARAASLAN T., Keskin M., Uzun O.  
 JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.195, no.1-3, pp.58-62, 2008 (SCI-Expanded)
- L. **Encapsulated fatty acids in an acrylic resin as shape-stabilized phase change materials for latent heat thermal energy storage**  
 Kaygusuz K., Alkan C., SARI A., Uzun O.  
 ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.30, no.11, pp.1050-1059, 2008 (SCI-Expanded)
- LI. **Dynamic hardness and reduced modulus determination on the (001) face of β-Sn single crystals by a depth sensing indentation technique**  
 Sahin O., Uzun O., Kolemen U., Ucar N.

- JOURNAL OF PHYSICS-CONDENSED MATTER, vol.19, no.30, 2007 (SCI-Expanded)
- LII. **Stress exponent investigation of  $\beta$ -Sn single crystal by depth-sensing indentation tests**  
Sahin O., Uzun O., Koelemen U., Ucar N.  
PHYSICA B-CONDENSED MATTER, vol.396, no.1-2, pp.87-90, 2007 (SCI-Expanded)
- LIII. **Vickers microindentation hardness studies of  $\beta$ -Sn single crystals**  
Sahin O., Uzun O., Koelemen U., Ucar N.  
MATERIALS CHARACTERIZATION, vol.58, no.2, pp.197-204, 2007 (SCI-Expanded)
- LIV. **Poly(ethylene glycol)/acrylic polymer blends for latent heat thermal energy storage**  
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