

## Prof.Dr. TİMUR CANEL

### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Türkiye 1996 - 2003

Yüksek Lisans, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Türkiye 1993 - 1996

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği, Türkiye 1987 - 1993

### Yabancı Diller

İngilizce, B2 Orta Üstü

### Araştırma Alanları

Fizik, Disiplinlerarası Fizik ve İlgili Bilim ve Teknoloji Alanları, Malzeme Bilimi, Yoğun Madde 2:Elektronik Yapı, Elektrik, Manyetik ve Optik Özellikler, Optik özellikler, Yoğun madde spektroskopisi, Temel Bilimler

### Akademik Unvanlar / Görevler

Doç.Dr., Kocaeli Üniversitesi, Fen Edebiyat Fakültesi, Fizik, 1993 - Devam Ediyor

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Experimental Investigation and Mathematical Modeling of Heat Distribution on a Laser-Treated PMMA Surface**  
Bağlan İ., Canel T., Bayrak M. A.  
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- II. **Investigation of the Effects of Carbon Dioxide Laser Texturing Parameters on Roughness and Contact Angle for Dual-Phase Steel (DP 1180)**  
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- III. **Improvement of reference gas calorimeter to measure the gross calorific value of the reference methane gas having high purity (99.995%) and calculation of uncertainty**  
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- IV. **Laser process parameter optimization of dimple created on oriented carbon fiber reinforced epoxy composites**  
Canel T., Kayahan E., Fidan S., Sinmazçelik T.  
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- V. **Laser parameter optimization for surface texturing of inconel 626**Optimierung von Laserstrahlparametern zur Oberflächentexturierung von Inconel 625  
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- VI. **Mathematical modeling of heat distribution on carbon fiber Poly(ether-ether-ketone) (PEEK) composite during laser ablation**  
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- VII. **Laser parameters optimization of surface treating of Al 6082-T6 with Taguchi method**  
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- VIII. **Influence of laser parameters in surface texturing of polyphenylene sulfide composites**  
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- X. **Optimization of parameters for depth resolution of galvanized steel by LIBS technique**  
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- XI. **Age, composition and paleoenvironmental significance of a Late Pleistocene eolianite from the western Black Sea coast of Turkey**  
Erginal A. E., Kiyak N. G., Ekinci Y. L., DEMİRCİ A., Ertek A., CANEL T.  
QUATERNARY INTERNATIONAL, cilt.296, ss.168-175, 2013 (SCI-Expanded)
- XII. **Parameter optimization of nanosecond laser for microdrilling on PVC by Taguchi method**  
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- XIII. **Laser welding of Ti6Al4V titanium alloys**  
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- XIV. **Characterization of the drilling alumina ceramic using Nd:YAG pulsed laser**  
KAÇAR E., MUTLU M., AKMAN E., DEMİR A., CANDAN L., CANEL T., GUNAY V., SINMAZÇELİK T.  
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- XV. **Optimization of Nd:YAG Laser Welding of Magnesium**  
DEMİR A., AKMAN E., CANEL T., Ertuerk S., KAYA A. A., Kenar N., SINMAZÇELİK T., URHAN O.  
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- XVI. **Equivalent dose in quartz from young samples using the SAR protocol and the effect of preheat temperature**  
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- XVII. **Investigation of effects of double pulse configuration on efficiency of Ni-like and Co-like X-ray resonance lines emitted from laser produced silver plasmas**  
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## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Using CO2 Laser, Optimization of Laser Power, Exposure Time and Frequency for Cavity Formation on Hardox Steel Plate**  
CANEL T., ÜRGÜN S.  
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- II. **Determination of the CO2 Laser Parameters on Dimple Geometry on Al2O3 Ceramic Surface**  
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- III. **Investigation of the Effects of the Different Laser Powers on the Steel Surface**  
Canel T.  
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- IV. **Optimization with Taguchi Method of Laser Parameters Necessary for Smooth Groove Bottom in ZAMAK 5**  
Canel T., Bağlan İ.  
Kafkas Üniversitesi Fen Bilimleri Enstitüsü Dergisi / Institute of Natural and Applied Science Journal, cilt.15, sa.2, ss.60-64, 2023 (Hakemli Dergi)
- V. **Analysis of Inverse Euler-Bernoulli Equation with periodic boundary conditions**  
BAĞLAN İ., CANEL T.  
Turkish Journal of Science, cilt.7, sa.3, ss.146-156, 2022 (Hakemli Dergi)
- VI. **Fourier Method for Higher Order Quasi-Linear Parabolic Equation Subject with Periodic Boundary Conditions**  
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Turkish Journal of Science, cilt.6, sa.2, ss.110-121, 2021 (Hakemli Dergi)
- VII. **Continuous Dependence on Data for a Solution of Higher Order Quasi-Linear Parabolic Equation Using Fourier Method**  
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Eastern Anatolian Journal, cilt.7, sa.2, ss.35-41, 2021 (Hakemli Dergi)
- VIII. **Mathematical Modeling of the Shape of Cavity Created with Laser Using Melting, Boiling Temperature.**  
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- IX. **Continuous Dependence on Data for a Solution of determination of an unknown source of Heat Conduction of Poly(methyl methacrylate) (PMMA)**  
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Turkish Journal of Science, cilt.5, sa.3, ss.214-219, 2020 (Hakemli Dergi)
- X. **Mathematical Modeling of the Effect of CO2 Laser Power on Texture Size on Polyoxymethylene (POM) Sheet**  
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- XI. **Mathematical Modeling of the Effect of CO2 Laser Parameter on Shape and Geometry of Polymer Plate**  
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- XIII. **An inverse coefficient problem for quasilinear pseudo-parabolic of heat conduction of Poly(methyl methacrylate) (PMMA)**  
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- XIV. **MATHEMATICAL MODELLING OF ONE DIMENSIONAL TEMPERATURE DISTRIBUTION AS A FUNCTION OF LASER INTENSITY ON CARBON FIBER REINFORCED POLY(ETHER-ETHER-KETONE)-(PEEK) COMPOSITE**  
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- XV. **MATHEMATICAL MODELING OF THE DEPENDENCE OF HEAT DISTRIBUTION ON DIRECTION IN SURFACE TEXTURING OF CONTINUOUS CARBON FIBRE REINFORCED EPOXY COMPOSITES BY ND.YAG LASER**  
CANEL T., BAęLAN İ.  
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, cilt.9, sa.1, ss.49-57, 2019 (ESCI)
- XVI. **Akdaę Kütlesinde Pleistosen buzullařmalarının jemorfolojik özellikleri ve optik uyarmalı lüminesans (OSL) ile yařlandırılması**  
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- XVII. **Akdaę Kütlesi'nde (Batı Toroslar) Pleistosen buzullařmalarının jeomorfolojik özellikleri ve optik uyarmalı lüminesans (OSL) ile yařlandırılması**  
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- XVIII. **INVESTIGATION OF EFFECT OF DIFFERENT ANODISATION CURRENT ON POROUS SILICON BY STM**  
CANEL T., Bektöre Y.  
SAÜ Fen Edebiyat Dergisi, cilt.2, ss.83-92, 2008 (Hakemli Dergi)
- XIX. **Optimizatin Of Pulsed Nd YAG Laser ParametersFor TitaniumSeam Welding**  
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American Institute of Physics, ss.303-304, 2007 (Hakemli Dergi)
- XX. **Progresses on the Theoretical and Experimental Studies in Laser Technologies Research and Application Center In Kocaeli**  
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- XXI. **A METHOD OF PRECISE CALIBRATION FOR PIEZOELECTRICAL ACTUATORS**  
CANEL T., Bektöre Y.  
Uludaę University Journal of The Faculty of Engineering, cilt.9, sa.1, ss.147-152, 2004 (Hakemli Dergi)

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Investigation of the Effect of Laser Parameters on Grooves Created on S420MC Stainless Steel**  
Canel T., Gezer Z.  
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- II. **Parameters Optimization for Grooves on Al2O3 Ceramic Surface Using CO2 Laser**  
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- III. **Optimization of Depth and Width Size of Dimple's Heat Affected Zone Created by CO2 Laser on Polyamide Plate**  
Canel T., Baęlan İ., Ürgün S.  
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- IV. **Investigation of an inverse coefficient problem for semi-linear parabolic heat conduction**

Bağlan İ., Canel T.

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- V. **Mathematical Modelling of Boundary of Dimple Created on ZAMAK 5 plate with Nd:YAG Laser**  
CANEL T., BAĞLAN İ.  
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- VI. **Investigation of the Effects of CO2 Laser Parameters on the Geometry of the Grooves Formed on the Transparent Polycarbonate (PC) Surface**  
CANEL T., BAĞLAN İ.  
icoles,2022, Antalya, Türkiye, 19 Mayıs 2022
- VII. **Solution of Higher Order Quasi-Linear Parabolic Equation Subject to Periodic Boundary Using Fourier Method**  
Bağlan İ., Canel T.  
Icoles 2022, Antalya, Türkiye, 19 - 22 Mayıs 2022, ss.220-228
- VIII. **Optimization of Laser Machining Parameters with Taguchi L9 Orthogonal Array**  
CANEL T., BAĞLAN İ.  
icoles,2022, Antalya, Türkiye, 19 Mayıs 2022
- IX. **Solution of Two Dimension Quasi-Linear Parabolic Equation with Inverse Coefficient**  
BAĞLAN İ., CANEL T.  
icoles,2022, Antalya, Türkiye, 19 Mayıs 2022
- X. **Solution of Higher Order Quasi-Linear Parabolic Equation Subject to Periodic Boundary Conditions Using Fourier Method**  
BAĞLAN İ., CANEL T.  
icmrs,2021, Türkiye, 22 Ekim 2021
- XI. **Mathematical Modeling of the Width of Grooves Created with Laser Beam on Dual-Phase Steel Surface**  
BAĞLAN İ., CANEL T.  
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- XII. **Fourier Methods for Determination of An Unknown Heat Source Poly(Methyl Methacrylate) (PMMA) with Periodic Boundary Conditions**  
BAĞLAN İ., CANEL T.  
3rd INTERNATIONAL CONFERENCE ON MATHEMATICAL AND RELATED SCIENCES:CURRENT TRENDS AND DEVELOPMENTSICMRS 2020, ONLINE MEETING, Türkiye, 20 - 22 Kasım 2020
- XIII. **Mathematical Modeling of the Effect of Laser Scan Speed on Size of Texture Created on Polyvinyl Chloride (PVC) Plate**  
Bağlan İ., Canel T.  
ICMRS 2020 , Ordu, Türkiye, 20 - 22 Kasım 2020, ss.5-20
- XIV. **Fourier methods for determination of an unknown heat source of Poly(methyl methacrylate) (PMMA) with periodic boundary conditions**  
Bağlan İ., Canel T.  
ICMRS 2020, Ordu, Türkiye, 20 - 22 Kasım 2020, ss.12-22
- XV. **Investigation of the Effect of Laser Scan Speed on Geometry of Grooves on Polyoxymethylene (POM) Sheet**  
Bağlan İ., Canel T.  
ICOLES, İstanbul, Türkiye, 11 - 13 Aralık 2020, ss.17-18
- XVI. **An inverse coefficient problem for quasilinear pseudo-parabolic of heat conduction of Poly(methyl methacrylate) (PMMA)**  
Bağlan İ., Canel T.  
ICOLES, İstanbul, Türkiye, 11 - 13 Aralık 2020, ss.70-71
- XVII. **TWO-DIMENSIONAL INVERSE PROBLEM FOR HEAT DISTRIBUTION WITH PERIODIC BOUNDARY CONDITION**  
Bağlan İ., Canel T.

2ND INTERNATIONAL CONFERENCE ON MATHEMATICAL AND RELATED SCIENCES, Antalya, Türkiye, 27 - 30 Nisan 2019, cilt.1, sa.1, ss.84-92

**XVIII. Directional Dependence of Cavity Geometry on Laser Pulse Duration in Composites**

Canel T., Bağlan İ.

2nd INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, İstanbul, Türkiye, 27 - 29 Haziran 2019, cilt.1, sa.1, ss.277-283

**XIX. Analysis for the Inverse Coefficient of the Pseudo-Parabolic Equation with non-Local Boundary Condition**

BAĞLAN İ., CANEL T.

ICOLES 2019 INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, İstanbul, Türkiye, 27 - 29 Haziran 2019, cilt.1, sa.1, ss.155-163

**XX. Continuous Dependence on Data for a Solution of Heat Conduction of Polymeric Materials for Pseudo-Parabolic Equation**

Bağlan İ., Canel T.

2nd INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, İstanbul, Türkiye, 27 - 29 Haziran 2019, cilt.1, sa.1, ss.165-171

**XXI. Investigation of Directional Dependence of Heat Affected Zone Limits on Laser Pulse Energy**

Canel T., Bağlan İ.

2nd INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, İstanbul, Türkiye, 27 - 29 Haziran 2019, cilt.1, sa.1, ss.285-291

**XXII. Continuous Dependence on Data for a Solution of Heat Conduction of Polymeric Materials**

Bağlan İ., Canel T.

2ND INTERNATIONAL CONFERENCE ON MATHEMATICAL AND RELATED SCIENCES, Antalya, Türkiye, 27 - 30 Nisan 2019, cilt.1, sa.1, ss.138-145

**XXIII. Mathematical Modelling of the Effect of Laser Pulse Duration on Heat Affected Zone in Fiber Reinforced Polyphenylene Sulphide (PPS)**

Canel T., Bağlan İ.

2ND INTERNATIONAL CONFERENCE ON MATHEMATICAL AND RELATED SCIENCES, Antalya, Türkiye, 27 - 30 Nisan 2019, ss.146-151

**XXIV. Investigation the Effect of Laser Energy on Heat Affected Zone (HAZ) in Fiber Reinforced Polyphenylene Sulphide (PPS) and Mathematical Simulation of HAZ Formation**

CANEL T., BAĞLAN İ.

2 ND INTERNATIONAL CONFERENCE ON MATHEMATICAL AND RELATED SCIENCES, Antalya, Türkiye, 27 - 30 Nisan 2019, cilt.1, sa.1, ss.119-124

**XXV. An inverse coefficient problem for quasilinear pseudo-parabolic heat conduction of polymeric materials**

Bağlan İ., Canel T.

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**XXVI. Modeling of temperature distribution as a function of laser energy: Parallel to the fiber axis on poly(ether-ether-ketone) composites**

Canel T., Bağlan İ.

International Conference on Mathematics and Mathematics Education (ICMME 2019), Konya, Türkiye, 11 - 13 Temmuz 2019, cilt.1, sa.1, ss.210-211

**XXVII. 980 MPA DUAL FAZ ÇELİĞE PROJEKSİYON KAYNAĞI İLE CIVATA KAYNATILMASI VE TAGUCHİ YÖNTEMİNİ KULLANARAK PARAMETRE OPTİMİZASYONU SAĞLANMASI**

Sınmazçelik T., Canel T.

4. ULUSLARARASI MÜHENDİSLİK, MİMARLIK VE TASARIM KONGRESİ, İstanbul, Türkiye, 23 - 24 Nisan 2019, cilt.1, sa.1, ss.1115-1124

**XXVIII. ND:YAG LASER DRILLING OF CONTINUOUS CARBON FIBRE REINFORCED EPOXY COMPOSITES**

CANEL T., ÇETİN B., FİDAN S., SINMAZÇELİK T.

1st International Conference on Life and Engineering Sciences ICOLES 2018, Girne, Kıbrıs (Kktc), 2 - 06 Eylül 2018, ss.76-93

**XXIX. Mathematical Modeling of Ablation of Carbon Fiber Reinforced Plastics by Lase**

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**XXX. Mathematical Modeling of Ablation of Carbon Fiber Reinforced Plastics by Laser**

CANEL T., BAĞLAN İ.

ICMME-2018 International Conference on Mathematics and Mathematics Education, Ordu, Türkiye, 27 Haziran 2018, ss.614

**XXXI. Investigation of the UV-VIS Spectra of UV-Irradiated CDI2 Particles**

CANEL T., Gezer Z., KAYA A. U., GÜNER S.

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**XXXII. Investigations Of Thermo-Optical Properties Of Nickel Coated On Glass Based Material Selective Sufraces**

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**XXXIII. Application of LIBS on Automotive Coatings**

Canel T., Genç Öztoprak B., Akman E., Güneş M., Demir A.

6th Euro Mediterranean Symposium on Laser Induced Breakdown Spectroscopy, İzmir, Türkiye, 11 Eylül 2011, ss.157

**XXXIV. The Effects Of Nanosecond Pulsed Laser Parameters On The Cavity Which Was Formed On Polymer**

Çelik B., CANEL T., KAYA A. U.

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**XXXV. Optical luminescence dating of eolianite, west Black Sea coast of Turkey**

Kiyak N. G., Erginal A. E., Ertek A., CANEL T.

13th International Conference on Luminescence and Electron Spin Resonance Dating, Torun, Polonya, 17 Temmuz 2011, ss.108

**XXXVI. Firing temperature of pottery collected from the area of ancient Mesopotamia, Turkey, using luminescence techniques**

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**XXXVII. Optically Stimulated Luminescence to Date Coastal Eolianite on the Sile coast, West Black Sea coast of Turkey**

Kiyak N. G., Erginal A. E., Ertek A., CANEL T.

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**XXXVIII. Lazer Teknolojileri Araştırma ve Uygulama Merkezinde Gerçekleştirilen Nanosaniye Milisaniye ve Femtosaniye Nd YAG Lazerler ile Malzeme İşleme Çalışmaları**

AKMAN E., CANDAN L., MESURE M., BABUR S., GENÇ ÖZTOPRAK B., AKKAN Ç. K., SİPAHİOĞLU S., DEMİR A., DEMİR KUZU P., CANEL T., et al.

10. Ulusal Optik, Elektro-Optik ve Fotonik Toplantısı, Kocaeli Üniversitesi, Kocaeli, Türkiye, 17 Ekim 2008

**XXXIX. The effect of the laser wavelength on PC drilled by using Nd YAG Laser**

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**XL. The effect of the vacuum with different pressure on laser drilled PC**

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**XLI. Progresses on the theoretical and experimental studies in Laser Technologies Research and Application Center in Kocaeli**

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6th International Conference of the Balkan-Physical-Union, İstanbul, Türkiye, 22 - 26 Ağustos 2006, cilt.899, ss.331-

- XLII. Optimizatin of pulsed Nd : YAG laser parameters for titanium seam-welding**  
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6th International Conference of the Balkan-Physical-Union, İstanbul, Türkiye, 22 - 26 Ağustos 2006, cilt.899, ss.303-304
- XLIII. Investigation Of Electrical Properties Of Titanium Coated Copper Surfaces Using ARC-PVD**  
TARCAN E., CANEL T.  
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- XLIV. Investigation Of Electrical Properties Of Titanium Coated Copper Surfaces Using ARC-PVD**  
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- XLV. Dating of heated quartz samples using the generalized single aliquot regenerative dose protocol**  
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11 th International Conference and Electron Spin Resonance Dating, Cologne, Almanya, 17 - 19 Temmuz 2005, ss.36
- XLVI. Optically Stimulated Luminescence Dating Using Heated Quartz From Archeological Sites**  
Kiyak N. G., Canel T.  
35 th International Symposium on Archeometry, Beijing, Çin, 11 - 13 Mayıs 2005, ss.49
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ADVANCES IN MANUFACTURING, SCI Kapsamındaki Dergi, Aralık 2019

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## Metrikler

Yayın: 97  
Atıf (WoS): 562  
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## Akademi Dışı Deneyim

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