

Prof. KIVANÇ SEL

Personal Information

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Address: Çanakkale Onsekiz Mart Üniversitesi, Fen-Edebiyat Fakültesi, Fizik bölümü Çanakkale

Education Information

Post Doctorate, Central Michigan University, Graduate Faculty Of The Science Of Advanced Materials, United States Of America 2012 - 2012

Doctorate, Middle East Technical University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2002 - 2007

Post Graduate, Middle East Technical University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2000 - 2002

Under Graduate, Middle East Technical University, Fen Edebiyat Fakültesi, Fizik, Turkey 1994 - 1999

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, KARBON İÇERİĞİNİN PLAZMA İLE BİRİKTİRİLMİŞ AMORF SİLİSYUM KARBÜR İNCE FİMLERİN ÖZELLİKLERİNE ETKİLERİ , Middle East Technical University, Fen Bilimleri Enstitüsü, Fizik, 2007

Post Graduate, PLAZMA İLE BÜYÜTÜLMÜŞ AMORF SİLİSYUM KARBÜR FİLM TABANLI IŞIK YAYINLAYAN PIN DİYOTLARIN ÜRETİLMESİ , Middle East Technical University, Fen Bilimleri Enstitüsü, Fizik, 2002

Research Areas

Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Equations of State, Phase Equilibria, and Phase Transitions, Lattice Dynamics, Transport Phenomena in Condensed Matter, Mechanical and Acoustic Properties of Condensed Matter, Surfaces, Interfaces, Thin Films and Nanosystems, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electronic structure of bulk material, Optical Properties, Spectroscopy of Matter, Natural Sciences

Academic Titles / Tasks

Professor, Çanakkale Onsekiz Mart University, Fen Edebiyat Fakültesi, Fizik, 2019 - Continues

Associate Professor, Çanakkale Onsekiz Mart University, Fen Edebiyat Fakültesi, Fizik, 2015 - 2019

Assistant Professor, Çanakkale Onsekiz Mart University, Fen Edebiyat Fakültesi, Fizik, 2008 - 2012

Research Assistant, Çanakkale Onsekiz Mart University, Fen Edebiyat Fakültesi, Fizik, 2007 - 2008

Research Assistant, Middle East Technical University, Fen Edebiyat Fakültesi, Fizik, 2000 - 2007

PROFESSIONAL EXPERIENCE

Board Member, Canakkale Onsekiz Mart University, Çanakkale Onsekiz Mart Üniversitesi Nanobilim Ve Teknoloji Araştırma Merkezi, 2009 - 2018

Courses

QUANTUM PHYSICS, Under Graduate, 2015 - 2016, 2017 - 2018
LİSANSÜSTÜ TEZ YÖNETİMİ, Post Graduate, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016
GENERAL PHYSICS II (ÇEV. MÜH.), Under Graduate, 2014 - 2015
KUANTUM FİZİĞİ, Under Graduate, 2015 - 2016
QUANTUM MECHANICS , Under Graduate, 2014 - 2015
UZMANLIK ALAN DERSİ, Post Graduate, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016
KUANTUM MEKANİĞİ (II.ÖĞ.), Under Graduate, 2014 - 2015
GENEL FİZİK (ÇEV.MÜH.), Under Graduate, 2013 - 2014
KUANTUM FİZİĞİ (II.ÖĞ.), Under Graduate, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2014 - 2015
21. YÜZYIL İÇİN FİZİK, Under Graduate, 2013 - 2014
QUANTUM PHYSICS (YAZ OKULU), Under Graduate, 2012 - 2013, 2013 - 2014
QUANTUM PHYSICS (I.ÖĞ.), Under Graduate, 2014 - 2015
SİLİKON TEKNOLOJİSİNİN TEMELLERİ II, Post Graduate, 2008 - 2009, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014
QUANTUM MECHANICS (YAZ OKULU), Under Graduate, 2013 - 2014
GENERAL PHYSICS (ÇEV. MÜH.), Under Graduate, 2013 - 2014, 2014 - 2015
PHYSICS FOR 21TH CENTURY (I.ÖĞ.), Under Graduate, 2013 - 2014
UZMANLIK ALAN DERSİ, Post Graduate, 2014 - 2015
PHYSICS OF SPORTS AND GAMES (I.ÖĞ.), Under Graduate, 2013 - 2014, 2014 - 2015
İLERİ KATIHAL FİZİĞİ I, Post Graduate, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014
SPOR VE OYUNLARIN FİZİĞİ (II.ÖĞ.), Under Graduate, 2013 - 2014
PHYSICS OF SEMICONDUCTOR DEVICES, Under Graduate, 2012 - 2013
OPTOELEKTRONİĞE GİRİŞ II (II.ÖĞ.), Under Graduate, 2011 - 2012, 2012 - 2013
FİZİKTE NANOBİLİM VE NANOTEKNOLOJİ (II.ÖĞ.), Under Graduate, 2013 - 2014
SEMİNER, Post Graduate, 2012 - 2013, 2013 - 2014
SİLİKON TEKNOLOJİSİNİN TEMELLERİ I, Post Graduate, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014
GENEL FİZİK I (ÇEV. MÜH.), Under Graduate, 2013 - 2014
FİZİK I (FEF İÇİ - YAZ OKULU), Under Graduate, 2012 - 2013
NANOSCIENCE AND NANOTECHNOLOGY IN PHYSICS (I.ÖĞ.), Under Graduate, 2013 - 2014
OPTOELEKTRONİĞE GİRİŞ II (I.ÖĞ.), Under Graduate, 2011 - 2012, 2012 - 2013
MESLEKİ YABANCI DİL I (I.ÖĞ.), Under Graduate, 2012 - 2013
İLERİ KUANTUM MEKANİĞİ I, Post Graduate, 2011 - 2012
TEMEL FİZİK I, Under Graduate, 2008 - 2009, 2011 - 2012, 2012 - 2013
TEMEL FİZİK (ZOOTEKİNİ), Under Graduate, 2012 - 2013
OPTOELEKTRONİĞE GİRİŞ I (I.ÖĞ.), Under Graduate, 2012 - 2013
OPTOELEKTRONİĞE GİRİŞ I (II.ÖĞ.), Under Graduate, 2011 - 2012, 2012 - 2013
MESLEKİ YABANCI DİL I (II.ÖĞ.), Under Graduate, 2012 - 2013
KUANTUM FİZİĞİ (I.Öğ.), Under Graduate, 2008 - 2009, 2009 - 2010, 2010 - 2011
OPTOELEKTRONİĞE GİRİŞ I, Under Graduate, 2010 - 2011, 2011 - 2012
OPTOELEKTRONİĞE GİRİŞ II, Under Graduate, 2010 - 2011
GENEL FİZİK II (ÇEV. MÜH.), Under Graduate, 2010 - 2011
KUANTUM MEKANİĞİ , Under Graduate, 2010 - 2011
KUANTUM FİZİĞİ (YAZ OKULU), Under Graduate, 2008 - 2009, 2009 - 2010, 2010 - 2011

TEMEL FİZİK (SÜF. II. ÖĞ.), Under Graduate, 2011 - 2012
TEMEL FİZİK (SÜF. I. ÖĞ.), Under Graduate, 2011 - 2012
TEMEL ELEKTRONİK LABORATUVARI, Under Graduate, 2008 - 2009

Advising Theses

SEL K., PLAZMA İLE BÜYÜTÜLMÜŞ HİDROJENLEMİŞ AMORF SİLİSYUM KARBÜR İNCE FİMLERİN FOTOLÜMİNESAS ÖZELLİKLERİNİN İNCELENMESİ, Post Graduate, İ.GÜNEŞ(Student), 2012

Jury Memberships

Post Graduate, Alper Ömer YAŞAR, Çanakkale Onsekiz Mart Üniversitesi, September, 2013
Post Graduate, Emrah Sarıca Tez Savunması, Çanakkale Onsekiz Mart Üniversitesi, January, 2012
Post Graduate, Barbaros DEMİRSELÇUK, Çanakkale Onsekiz Mart Üniversitesi, January, 2010

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Effects of phosphorus on the electrical characteristics of plasma deposited hydrogenated amorphous silicon carbide thin films**
ALCINKAYA B., SEL K.
SOLID-STATE ELECTRONICS, vol.139, pp.109-114, 2018 (Journal Indexed in SCI)
- II. **Effects of carbon content and plasma power on room temperature photoluminescence characteristics of hydrogenated amorphous silicon carbide thin films deposited by PECVD**
GÜNEŞ İ., SEL K.
THIN SOLID FILMS, vol.636, pp.85-92, 2017 (Journal Indexed in SCI)
- III. **Covalent organic framework based on melamine and dibromoalkanes for versatile use**
ŞAHİNER N., DEMİRCİ S., SEL K.
JOURNAL OF POROUS MATERIALS, vol.23, pp.1025-1035, 2016 (Journal Indexed in SCI)
- IV. **Conductivity of p(AAc) Cryogel and Its Li+, Na+, and K+ Salts for NH₃ Sensing**
ŞAHİNER N., DEMİRCİ S., SEL K.
JOURNAL OF ELECTRONIC MATERIALS, vol.45, pp.3759-3765, 2016 (Journal Indexed in SCI)
- V. **Synthesis and characterization of new microgel from tris(2-aminoethyl)amine and glycerol diglycidyl ether as poly(TAEA-co-GDE)**
URREHMAN S., Sahiner M., SEL K., SIDDIQ M., ŞAHİNER N.
Colloids and Surfaces B: Biointerfaces, vol.136, pp.1156-1165, 2015 (Journal Indexed in SCI)
- VI. **Ionic liquid colloids based on PEI for versatile use**
Demirci S., SEL K., ŞAHİNER N.
SEPARATION AND PURIFICATION TECHNOLOGY, vol.155, pp.66-74, 2015 (Journal Indexed in SCI)
- VII. **NH₃ gas sensing applications of metal organic frameworks**
SEL K., DEMİRCİ S., ÖZTÜRK Ö. F. , Aktaş N., ŞAHİNER N.
MICROELECTRONIC ENGINEERING, vol.136, pp.71-76, 2015 (Journal Indexed in SCI)
- VIII. **Benign Preparation of Metal-Organic Frameworks of Trimesic Acid and Cu, Co or Ni for Potential Sensor Applications**
SEL K., DEMİRCİ S., MEYDAN E., YILDIZ S., ÖZTÜRK Ö. F. , Al-Lohedan H., ŞAHİNER N.
JOURNAL OF ELECTRONIC MATERIALS, vol.44, pp.136-143, 2015 (Journal Indexed in SCI)
- IX. **Facile synthesis and characterization of trimesic acid-Cu based metal organic frameworks**
ŞAHİNER N., SEL K., ÖZTÜRK Ö. F. , DEMİRCİ S., TERZİ G.
APPLIED SURFACE SCIENCE, vol.314, pp.663-669, 2014 (Journal Indexed in SCI)

- X. **Detection of relative [Na⁺] and [K⁺] levels in sweat with optical measurements**
Al-Omari M., SEL K., Mueller A., Edwards J., Kaya T.
JOURNAL OF APPLIED PHYSICS, vol.115, 2014 (Journal Indexed in SCI)
- XI. **The optical properties of plasma polymerized polyaniline thin films**
Goktas H., DEMIRCIOGLU Z., SEL K., Gunes T., KAYA İ.
THIN SOLID FILMS, vol.548, pp.81-85, 2013 (Journal Indexed in SCI)
- XII. **The effect of Na⁺ and K⁺ doping on the properties of sol-gel deposited 2-hydroxy-1,4-naphthoquinone thin films**
Al-Omari M., SEL K., Mueller A., Mellinger A., Kaya T.
JOURNAL OF APPLIED PHYSICS, vol.113, 2013 (Journal Indexed in SCI)
- XIII. **Room temperature photoluminescence spectrum modeling of hydrogenated amorphous silicon carbide thin films by a joint density of tail states approach and its application to plasma deposited hydrogenated amorphous silicon carbide thin films**
SEL K., GUNES İ.
THIN SOLID FILMS, vol.520, pp.7062-7065, 2012 (Journal Indexed in SCI)
- XIV. **Hydrogel templated CdS quantum dots synthesis and their characterization**
ŞAHİNER N., SEL K., Meral K., ONGANER Y., Butun S., ÖZAY Ö., SILAN C.
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.389, pp.6-11, 2011 (Journal Indexed in SCI)
- XV. **Effects of tail states on the conduction mechanisms in silicon carbide thin films with high carbon content**
SEL K., Akaoglu B., Atilgan I., Katircioglu B.
SOLID-STATE ELECTRONICS, vol.57, pp.1-8, 2011 (Journal Indexed in SCI)
- XVI. **Determination of the refractive index of a dielectric film continuously by the generalized S-transform**
COŞKUN E., SEL K., ÖZDER S.
OPTICS LETTERS, vol.35, pp.841-843, 2010 (Journal Indexed in SCI)
- XVII. **Study of minority carrier injection phenomenon on Schottky and plasma deposited p-n junction diodes**
ÖZDEMİR O., SEL K.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.12, pp.175-184, 2009 (Journal Indexed in SCI)
- XVIII. **Electroluminescence properties of a PIN structure made by nearly stoichiometric a-SiC_x:H active layer**
SEL K., Akaoglu B., ÖZDEMİR O., Atilgan I.
VACUUM, vol.83, pp.813-818, 2009 (Journal Indexed in SCI)
- XIX. **Refractive index and extinction coefficient determination of an absorbing thin film by using the continuous wavelet transform method**
COŞKUN E., SEL K., ÖZDER S., KURT M.
APPLIED OPTICS, vol.47, pp.4888-4894, 2008 (Journal Indexed in SCI)
- XX. **Carbon content influence on the optical constants of hydrogenated amorphous silicon carbon alloys**
Akaoglu B., Sel K., Atilgan I., Katircioglu B.
OPTICAL MATERIALS, vol.30, pp.1257-1267, 2008 (Journal Indexed in SCI)
- XXI. **Frequency dependence of conductivity in intrinsic amorphous silicon carbide film, assessed through admittance measurement of metal insulator semiconductor structure**
ÖZDEMİR O., ATILGAN İ., AKAOGLU B., Sel K., KATIRCIOGLU B.
THIN SOLID FILMS, vol.497, pp.149-156, 2006 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **The Effects Of Phosphorus On The Electrical Properties And Conduction Mechanisms Of**

Hydrogenated Amorphous Silicon Carbide Thin Films

ALÇINKAYA B., SEL K.

Türk Fizik Derneği 33. Uluslararası Fizik Kongresi, BODRUM, Turkey, 6 - 10 September 2017

II. Characterization Of Room Temperature Photoluminescence Of Phosphorus Doped Hydrogenated Amorphous Silicon Carbide Thin Films

SEL K.

Türk Fizik Derneği 33. Uluslararası Fizik Kongresi, BODRUM, Turkey, 6 - 10 September 2017

III. The Electrical Characterization of Plasma Deposited Phosphorus Doped N Type Hydrogenated Amorphous Silicon Carbide Thin Films

ALÇINKAYA B., SEL K.

2ND INTERNATIONAL CONFERENCE ON ORGANIC ELECTRONIC MATERIAL TECHNOLOGIES, 17 - 19 May 2016

IV. Superporous cryogels and their composites for versatile use

ŞAHİNER N., DEMİRCİ Ş., SEL K., AKTAŞ N.

International Porous and Powder Materials Symposium and Exhibition, 15 - 18 September 2015, pp.172

V. 9-AMİNOAKRİDİN VE TÜREVLERİNİN İNCE FİLMLEİNİN BİRİKTİRİLMESİ VE KARAKTERİZASYONU

SEL K., AYDIN F.

Türk Fizik Derneği, BODRUM-İZMİR, Turkey, 21 - 24 July 2014

VI. Fotovoltaik Güneş Gözesi Uygulamaları İçin CdO İnce Filmlerin Sol-Gel Spin Kaplama Yöntemi İle Büyütülmesi Ve Fiziksel Özellikleri Üzerine Tavlamanın Etkisi

DEMİRSELÇUK B., SARICA E., SEL K., BİLGİN V.

14. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştay, Turkey, 14 September 2012

Supported Projects

SEL K., TUBITAK Project, Kriyojel/İletken Polimer Kompozitlerinin Hazırlanması Ve Sensör Olarak Uygulanabilirliğinin İncelenmesi, 2015 - 2017

SEL K., Project Supported by Other Official Institutions, Seramik yer ve duvar karolarının kızılötesi ve mikrodalga teknolojileri ile pişirme ve kurutma sistemlerinin geliştirilmesi, 2012 - 2013

SEL K., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Silisyum tabanlı ışılan diyotların üretilmesi, zaman çözünürlü ışılma, 2002 - 2005

SEL K., Project Supported by Other Official Institutions, Gözenekli silisyum ışılan yapıların üretilmesi, 2001 - 2002

SEL K., TUBITAK Project, Silisyum tabanlı ışılan yapıların üretilmesi, 1999 - 2001

Scientific Refereeing

Journal of Materials Chemistry C, SCI Journal, October 2015

Journal of Materials Chemistry C, SCI Journal, September 2015

Materials Science in Semiconductor Processing, SCI Journal, April 2015

Journal of Chemistry, SCI Journal, January 2015

Journal of Chemistry, SCI Journal, December 2014

Materials Science in Semiconductor Processing, SCI Journal, October 2014

Materials Science in Semiconductor Processing, SCI Journal, May 2014

Materials Science in Semiconductor Processing, SCI Journal, January 2014

Materials Science in Semiconductor Processing, SCI Journal, December 2013

Materials Science in Semiconductor Processing, SCI Journal, September 2013

Materials Science in Semiconductor Processing, SCI Journal, March 2013

Materials Science in Semiconductor Processing, SCI Journal, January 2013

Materials Science in Semiconductor Processing, SCI Journal, January 2013

Materials Science in Semiconductor Processing, SCI Journal, September 2012

Journal of Chemistry , SCI Journal, January 2010

Scientific Consultations

Çanakkale Seramik Ar-Ge Merkezi, Scientific Consultancy, Çanakkale Onsekiz Mart Üniversitesi, Turkey, 2012 - 2013

Invited Congress and Symposium Activities

LİSE ÖĞRETMENLERİ- FİZİK, KİMYA, BİYOLOJİ, MATEMATİK - PROJE DANIŞMANLIĞI EĞİTİM ÇALIŞTAYI, Invited Speaker, Çanakkale, Turkey, 2014

Citations

Total Citations (WOS):199

h-index (WOS):8

Scholarships

YÖK Doktora Sonrası Yurt Dışı Araştırma Bursu, Central Michigan University, Graduate Faculty of The Science of Advanced Materials, Michigan, ABD, YOK, 2012 - Continues

BDP, TÜBİTAK, 2006 - Continues

Visual Activities

SEL K., TV Show, 2014 - 2014